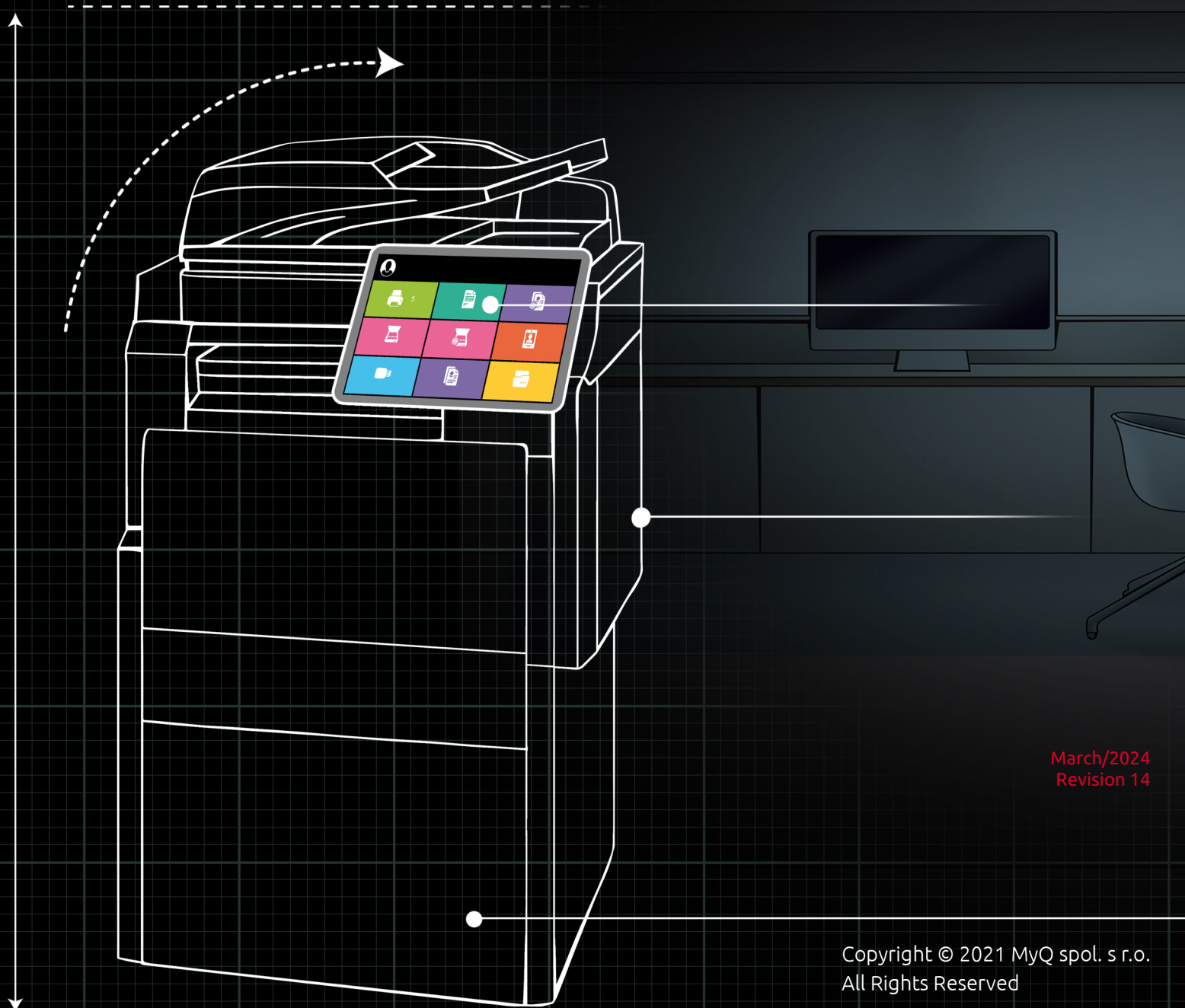


# myq X

## Central Server

---



March/2024  
Revision 14

# Table of Contents

<b>1</b>	<b>What's New in 10.1</b>	<b>8</b>
1.1	Highlights	8
1.1.1	Easy Print	8
1.1.2	Job Preview on Embedded Terminals	8
1.1.3	Integration with Entra ID	8
1.1.4	Print Job Encryption	8
<b>2</b>	<b>Basic Information</b>	<b>9</b>
2.1	Database Setup	9
2.1.1	Embedded Database Configuration	9
2.1.2	MS SQL Server Configuration	9
2.1.3	MS SQL Server setup example	10
2.2	Central Server and MS Cluster	13
2.2.1	About	13
2.2.2	System Requirements	13
2.2.3	Licenses	14
2.2.4	Setup	14
2.2.5	Additional Setup	23
2.2.6	Configuration and Maintenance	25
2.2.7	Backup and Restore	28
2.2.8	Upgrading MyQ	29
2.2.9	Recommended Troubleshooting	30
<b>3</b>	<b>System Requirements</b>	<b>31</b>
3.1	MyQ Central Server mode with integrated Firebird database	31
3.1.1	Recommendations	31
3.2	MyQ Central Server mode with an external MS SQL database	32
3.2.1	Recommendations	32
3.2.2	Operating System	33
3.2.3	Additional software required	33
3.2.4	Storage sizing	33
3.2.5	Database	34
3.2.6	Web browser	34
3.2.7	Security	34
3.3	MyQ installation in Private Cloud	35
3.4	Main Communication Ports	35
3.4.1	Incoming Ports	35
3.4.2	Outgoing Ports	35
3.5	Network Communication Architecture	36
<b>4</b>	<b>Installation</b>	<b>38</b>
4.1	Central Server database setup	38

4.1.1	Setting up the Embedded Database .....	38
4.1.2	Setting up an MS SQL Database.....	40
4.2	Installation in Private Cloud.....	41
4.2.1	Environment Requirements.....	41
4.2.2	About MyQ in Private Cloud .....	42
<b>5</b>	<b>MyQ Central Server Easy Config .....</b>	<b>44</b>
5.1	Home .....	44
5.2	Services .....	45
5.3	Settings .....	46
5.3.1	Windows Services Account .....	46
5.3.2	Changing passwords on the Settings tab.....	46
5.3.3	Web Server Ports .....	48
5.3.4	Data Folder .....	48
5.3.5	Server Maintenance.....	49
5.4	Security.....	50
5.4.1	Web Server .....	50
5.4.2	Data Encryption.....	51
5.5	Database .....	51
5.5.1	Backing up MyQ data .....	52
5.5.2	Restoring MyQ Data .....	52
5.5.3	Database Connection Settings.....	53
5.6	Log.....	53
<b>6</b>	<b>MyQ Central Web Interface .....</b>	<b>55</b>
6.1	Accessing the MyQ Central Web Interface .....	55
6.2	Logging in as an administrator .....	56
6.3	Main menu and Settings menu.....	57
6.4	Home Dashboard .....	58
6.4.1	Quick Setup Guide.....	61
6.4.2	Generate data for support .....	62
6.5	MyQ Log .....	64
6.6	MyQ Audit Log .....	66
<b>7</b>	<b>MyQ Central System Settings.....</b>	<b>68</b>
7.1	General Settings.....	68
7.2	Personalization Settings.....	70
7.3	Task Scheduler Settings.....	71
7.3.1	Running and setting task schedules.....	72
7.4	Network Settings .....	74
7.4.1	General .....	74
7.4.2	Communication Security.....	74
7.4.3	Outgoing SMTP server .....	76
7.4.4	HTTP Proxy Server .....	77
7.4.5	Firewall.....	77

7.5	Connections Settings .....	77
7.5.1	Microsoft Exchange Online Setup .....	78
7.5.2	Gmail with OAuth2 setup .....	82
7.5.3	Azure AD with Microsoft Graph setup.....	82
7.6	Authentication Servers settings .....	86
7.6.1	Adding a new LDAP server:.....	86
7.6.2	Adding a new MS Azure Server: .....	87
7.6.3	Adding a new Radius server:.....	88
7.7	Printers Settings.....	89
7.8	Accounting Settings .....	89
7.9	Data replication from sites Settings .....	91
7.10	External Reports .....	92
7.11	Log Settings .....	93
7.11.1	Management of Log Notifier Rules.....	94
7.12	REST API Apps.....	95
7.13	System Management Settings.....	96
7.13.1	Disk space checker .....	96
7.13.2	History .....	96
7.13.3	System Maintenance .....	97
7.14	Central and Site administration .....	98
7.14.1	Site server data replication .....	100
7.14.2	Site server rights management.....	101
7.14.3	Job Roaming .....	101
<b>8</b>	<b>Licenses .....</b>	<b>103</b>
8.1	License distribution to Site servers .....	103
8.2	Adding licenses.....	105
8.3	Activating licenses .....	107
8.3.1	To automatically activate a selected license:.....	107
8.3.2	To manually activate a license:.....	107
8.3.3	Reactivating Licenses in case of Hardware change.....	108
8.4	Deleting licenses .....	109
8.5	Extending software assurance licenses.....	109
8.5.1	New licensing model (with Installation keys).....	109
8.5.2	Old licensing model (with license keys).....	110
8.6	Migrating old licenses to MyQ X .....	110
8.6.1	Migration Process .....	111
8.7	VMHA License .....	113
<b>9</b>	<b>Users .....</b>	<b>115</b>
9.1	List of users .....	116
9.2	Adding and Deleting users Manually .....	117
9.2.1	Adding Users .....	117
9.2.2	Deleting Users .....	117



9.3	Deleting users.....	117
9.4	Editing user accounts .....	118
9.4.1	User information and settings.....	119
9.4.2	Adding users to and removing them from groups.....	120
9.4.3	Selecting user delegates .....	121
9.5	User groups .....	122
9.6	Exporting users.....	123
9.7	User import and synchronization.....	124
9.7.1	User Properties in MyQ.....	124
9.7.2	User synchronization from LDAP servers.....	125
9.7.3	User synchronization from Azure AD with Microsoft Graph.....	134
9.7.4	User synchronization from CSV files.....	137
9.7.5	User synchronization from Azure AD with SLDAP .....	141
9.7.6	User synchronization from Google Workspace.....	142
9.7.7	Using external authentication servers.....	143
9.7.8	Manual and scheduled synchronization run .....	145
9.8	Users Settings .....	145
9.9	Rights.....	149
10	Credit .....	151
10.1	Activation and setup.....	151
10.2	Manual Credit recharge .....	152
10.2.1	Providing users with rights to recharge credit .....	153
10.2.2	Recharging credit on the Credit Statement tab .....	153
10.2.3	Recharging credit on the Users main tab.....	154
10.3	Recharging credit via CASHNet.....	155
10.3.1	Setting up CASHNet .....	156
10.3.2	Recharging credit via CASHNet on the user's account on the MyQ Web Interface .....	158
10.4	Recharging credit via PayPal.....	159
10.4.1	Setting up PayPal .....	159
10.4.2	Recharging credit via PayPal on the user's account on the MyQ Web Interface.....	161
10.5	Recharging credit via SnapScan .....	162
10.5.1	Setting up the SnapScan payment option .....	162
10.5.2	Recharging credit via SnapScan on the user's account on the MyQ Web Interface.....	163
10.6	Recharging credit via TouchNet uPay.....	163
10.6.1	Setting up TouchNet uPay .....	164
10.6.2	Recharging credit via TouchNet uPay on the user's account on the MyQ Web Interface.....	164
10.7	Recharging credit by vouchers .....	165
10.7.1	Setting the voucher format .....	165
10.7.2	Custom logo for Credit Vouchers.....	166
10.7.3	Voucher Batches .....	166
10.7.4	Vouchers usage overview.....	167
10.8	Recharging credit via external payment providers.....	168

11	Central Server Reports Management .....	169
11.1	Reports.....	169
11.1.1	Report Types.....	170
11.1.2	Reporting sources.....	222
11.1.3	Report values description .....	223
11.1.4	Creating and editing reports .....	224
11.1.5	Generating reports .....	229
12	Connection to BI tools .....	232
12.1	Embedded Database Connection Configuration.....	232
12.2	Creating Reports .....	234
12.2.1	Manual Reports Creation.....	234
12.2.2	Reports creation via template import .....	237
12.2.3	Report examples .....	238
12.2.4	Database Views description.....	240
13	System health check .....	251
13.1	Using system health check .....	251
14	Updating MyQ .....	253
15	Uninstalling MyQ .....	254
16	Business Contacts .....	255

## **MyQ Central Server 10.1 RTM**

MyQ is a universal printing solution that provides a wide variety of services related to printing, copying, and scanning. All functions are integrated into a single unified system, which results in an easy and intuitive employment with minimal requirements for installation and system administration.

The main areas of application of the MyQ solution are monitoring, reporting and administration of printing devices; print, copy, and scan management, extended access to printing services via the MyQ Mobile application and the MyQ Web Interface, and simplified operation of printing devices via MyQ Embedded terminals.

Here you can find all the information needed to install, configure, upgrade, and uninstall the MyQ Central Server.

All changes compared to the previous version are listed in the release notes, available [online](#) and in [PDF](#).

# 1 What's New in 10.1

Here's an overview of the new features included in MyQ 10.1

<https://www.youtube.com/watch?v=tELIHCH3No>

## 1.1 Highlights

### 1.1.1 Easy Print

This new terminal action brings the ease of **Easy Scan** and **Easy Copy** to Printing. It allows users to print files from cloud storages, network drives, and local drives **without sending them to MyQ first**.

You can define the available sources and print properties, allowing users to choose the file they need, and print it, with just a few clicks.

### 1.1.3 Integration with Entra ID

Your MyQ server can now be simply and seamlessly [connected to your Microsoft Entra ID](#). This makes single sign-on with Microsoft available to end users in MyQ.

In addition, Entra ID can be used for **user synchronization**, and as an **authentication server**, with improvements throughout your print solution.

### 1.1.2 Job Preview on Embedded Terminals

Job preview is an essential feature in any printing environment, a last step on the printing journey **minimizing errors** and **saving paper**.

End users can now preview any job before printing directly on the embedded terminal, or in the MyQ mobile application, you simply need to click enable in your Job Settings.

### 1.1.4 Print Job Encryption

MyQ offers **end-to-end encryption** (the entire user – server – printer journey) meaning documents stay safe throughout the printing process.

In addition, you can now encrypt print jobs that are pending on the MyQ server, so that your entire print environment is secure.

✔ And so much more, see all the improvements and changes in 10.1 in our [Release Notes](#).

## 2 Basic Information

The Central/Site architecture consists of one Central server and multiple site servers. The Central server performs license management, central system management (the Central server administrator can access and manage all the site servers) and user management. In addition, it functions as a central reporting server for statistical data. It cannot be used as a print server and its options are restricted solely to its central management role. Therefore it is not possible to administer printing devices or print jobs there.

All of the Central server's data are stored to the MyQ Database, where they can be accessed and managed. The server contains an Embedded (Firebird) database, but can also be used with an external MS SQL database.

The site servers work as print servers and perform local management of printing devices and print jobs. Data from these servers are replicated to the Central server's database and can be displayed in reports on the Central server.

### 2.1 Database Setup

Within the installation of the MyQ Central Server, you can either use the Embedded (Firebird) database, or later set up a connection to your own MS SQL Server.

If you select to use the Embedded database, you can still choose between both options afterwards, while if you install the MyQ server without it, you have to use the MS SQL Server.

Unless you have already been using an MS SQL server within your company and want to connect MyQ to your MS SQL database, it is recommended to install and employ the Embedded Database.

#### 2.1.1 Embedded Database Configuration

As the Embedded Database is fully integrated with the MyQ server, it does not require any further configuration.

#### 2.1.2 MS SQL Server Configuration

To enable a connection to an MS SQL server, you need to make sure that the following options are set on there:

- Authentication has to be set to the **MS SQL Server and Windows Authentication** mode.
- A user account with the **public** fixed server role for access to the MS SQL Server; a user account with the **dbcreator** fixed server role, for creating the MyQ database. The default language of the user who creates the database must be set to **English (US)**.
- On MS SQL Server 2016 and older, the **common language runtime (CLR)** integration feature has to be enabled.
- **TCP/IP** protocol has to be enabled and the **IPAll** TCP Port has to be set to **1433**.

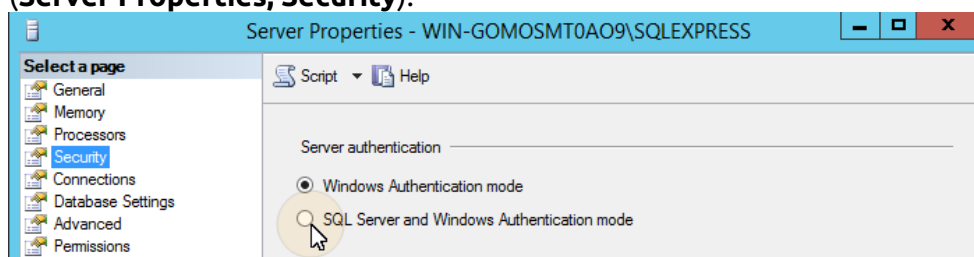
- A **TCP 1433** port inbound rule has to be created in the Firewall.

### 2.1.3 MS SQL Server setup example

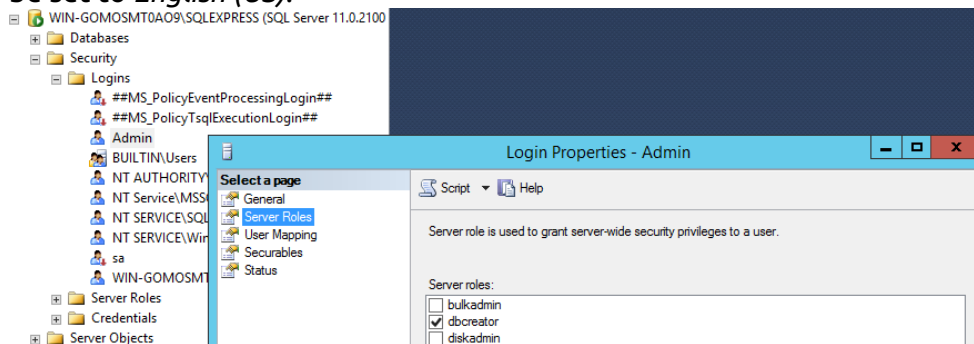
This is an example of an installation of a Microsoft SQL server (MS SQL Server 2012 is used) and the setup necessary for its connection to the MyQ Central server.

To install and set up the MS SQL server:

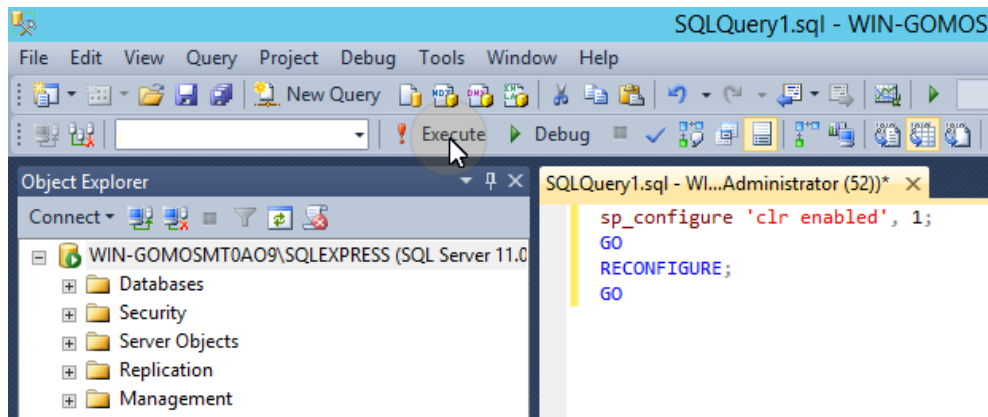
1. Install the MS SQL Server and the MS SQL Server Management Studio application.
2. Open the SQL Server Management Studio app (Windows Apps menu).
3. Change the **Server authentication** setting of the MS SQL Server from the *Windows Authentication mode* to *SQL Server and Windows Authentication mode* (**Server Properties, Security**).



4. Provide any user account (existing or new) with the **Database Creator** role. This account will be used to access the MS SQL server and manage the MyQ database there, which means that the MyQ administrator needs to know its credentials. The default language of the user who creates the database must be set to *English (US)*.



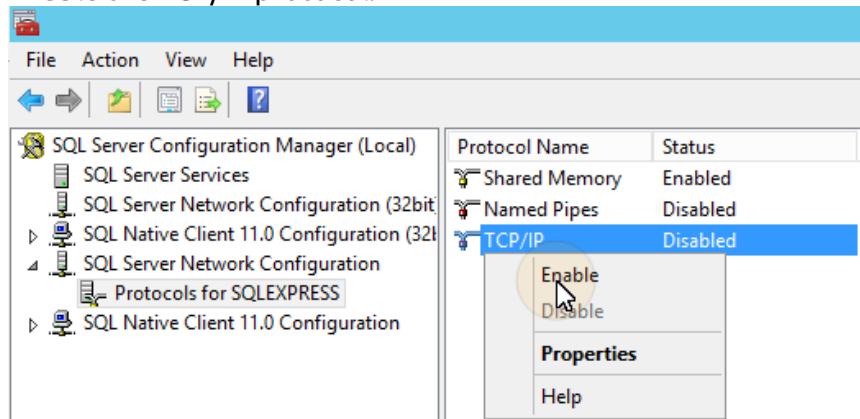
5. On MS SQL Server 2016 and older, you need to enable the common language runtime (CLR) integration feature. If you are using the MS SQL Server 2017 or newer, you can continue to the next step.



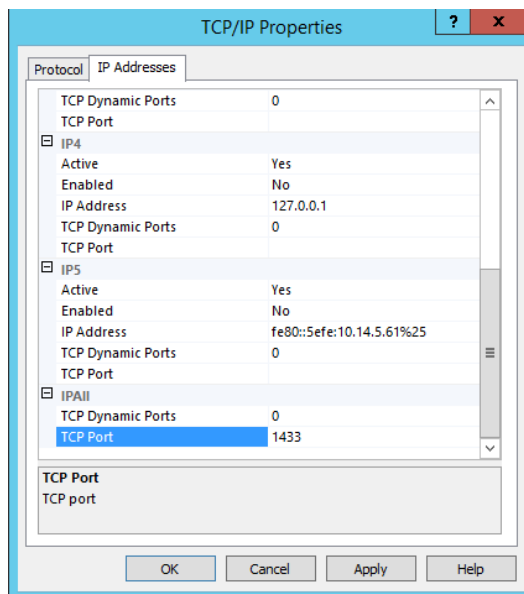
To enable the CLR, use the following script:

```
sp_configure 'clr enabled', 1;
GO
RECONFIGURE;
GO
```

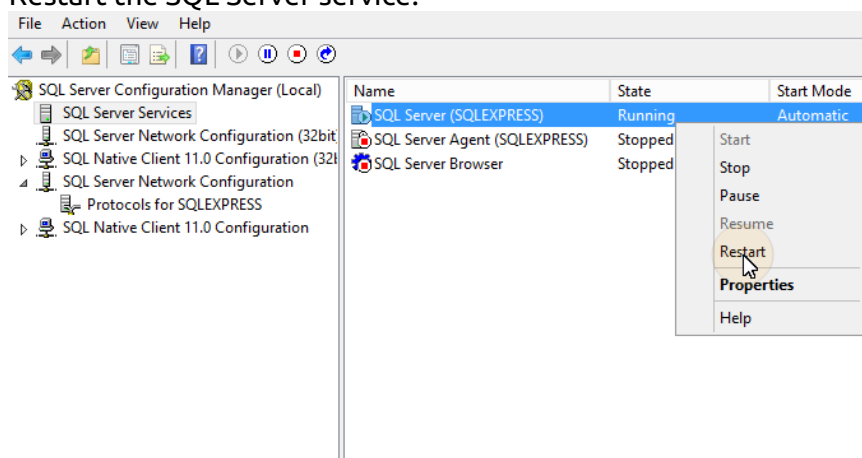
6. Leave the MS SQL Server Management Studio and open the SQL Server Configuration Manager app.
7. Enable the TCP/IP protocol.



8. Open the TCP/IP properties and set the **IPAll TCP Port** to 1433.

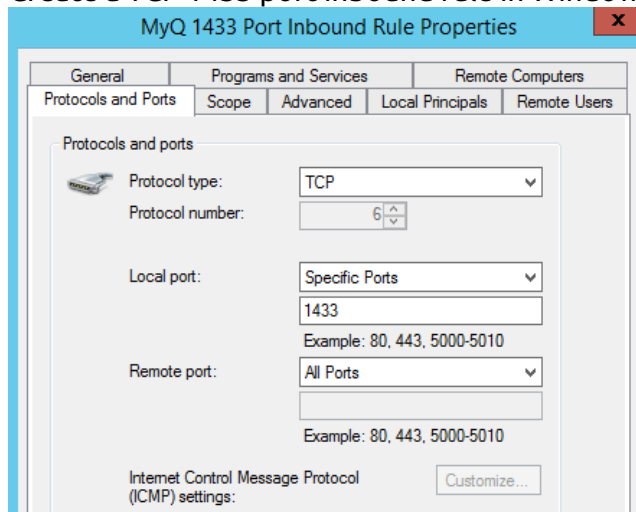


9. Restart the SQL Server service.



10. Leave the SQL Server Configuration Manager.

11. Create a TCP 1433 port inbound rule in Windows Firewall.





12. Exit the setup.

## 2.2 Central Server and MS Cluster

### 2.2.1 About

The MyQ MS Cluster high-availability solution consists of multiple nodes in the active/passive configuration with the MyQ server installed on each node. MS Cluster administrates the MyQ services and if the currently active node becomes unavailable, it switches to one of the available passive nodes.

### 2.2.2 System Requirements


The fully detailed MyQ Central Server system requirements can be found [here](#).

- Compatibility with Windows Servers

The MyQ MS Cluster solution is supported by the following Windows Server versions and editions:

Windows Server	Editions
Windows Server 2012	Standard, Datacenter
Windows Server 2012 R2	Standard, Datacenter, Hyper-V® Server, Storage Server
Windows Server 2016	Standard, Datacenter
Windows Server 2019	Standard, Datacenter
Windows Server 2022	

- A prepared failover cluster with at least two nodes and storage for MyQ data is needed. Each node must meet the system requirements of the MyQ server and its components.
- The same time zone has to be set on each of the nodes.

 If the MyQ Desktop Client, MyQ Smart Job Manager or the MyQ Smart Print Services applications are to be used on the MyQ users workstations, the IP address or hostname of the cluster has to be set in the applications (not the IP address or hostname of the nodes).

## 2.2.3 Licenses

With the new MyQ X licensing model with **Installation Keys** used in MS Cluster, there is only one installation key needed. The HW code is taken from the whole cluster, not individual nodes, so the license is activated against the cluster's HW, and not a single node.

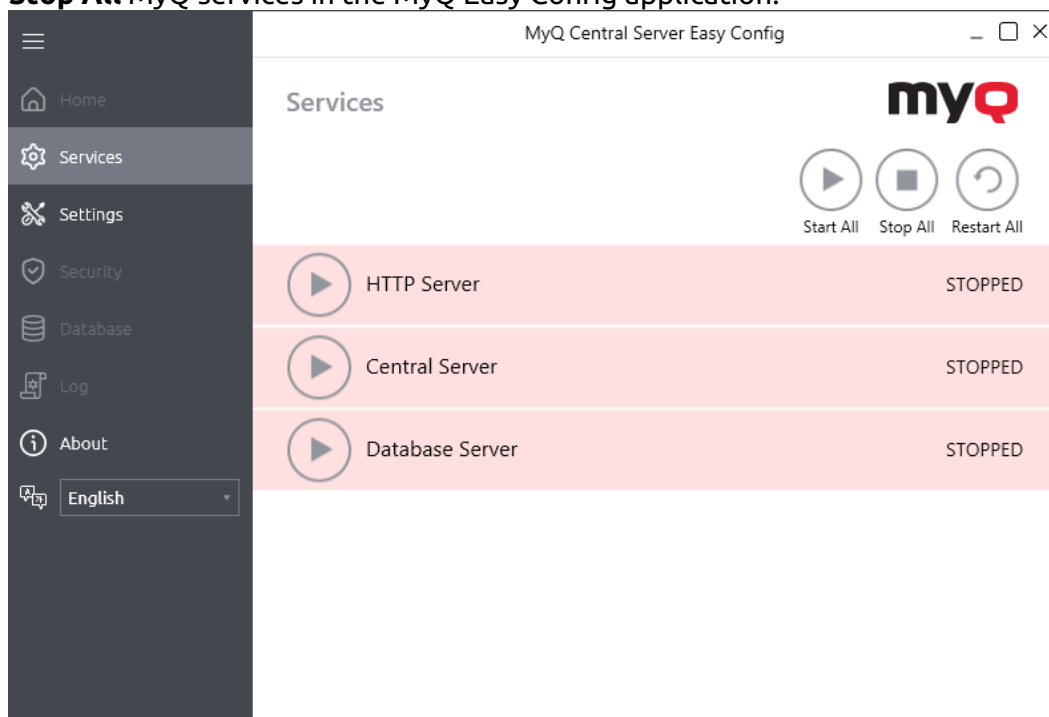
- i** With the old licensing model, when MS Cluster is used with the MyQ server, the amount of licenses needed depends on the number of nodes used, as the licenses need to be added and activated separately on each node.
- MyQ server in Site mode - licenses are received from the Central server automatically every day or during MyQ service or Cluster Node restart.
  - MyQ server in Standalone mode - needs an extra licenses set for each node; each licenses set must be activated only on one node.

## 2.2.4 Setup

### Installing MyQ on the server in the cluster (all nodes)

On each cluster node, do the following:

1. Run the MyQ installation file and install MyQ (details can be found [here](#)).
2. Make sure that the time zone set on the MyQ server is the same as the time zone set on each node).
3. **Stop All** MyQ services in the MyQ Easy Config application.

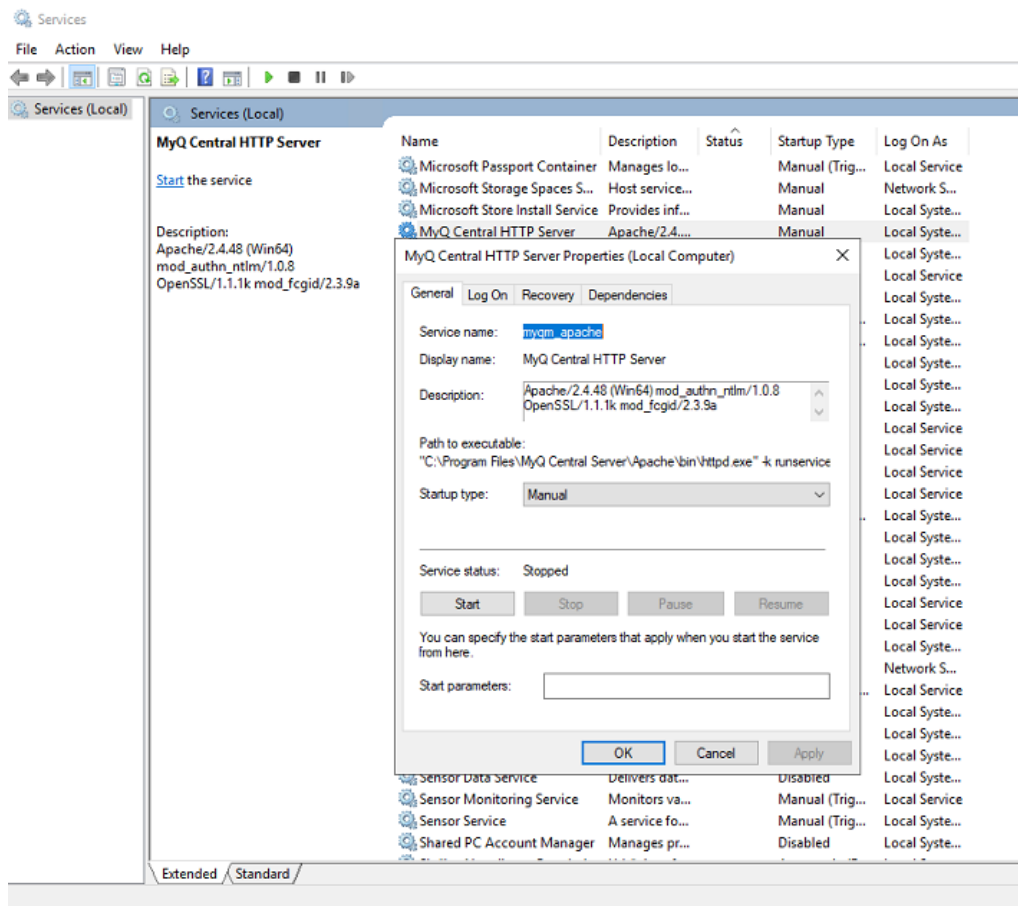


## Setting services to manual startup (all nodes)

All services used by the MyQ server need to be set to manual startup, on every node.

The following services need to be changed this way:

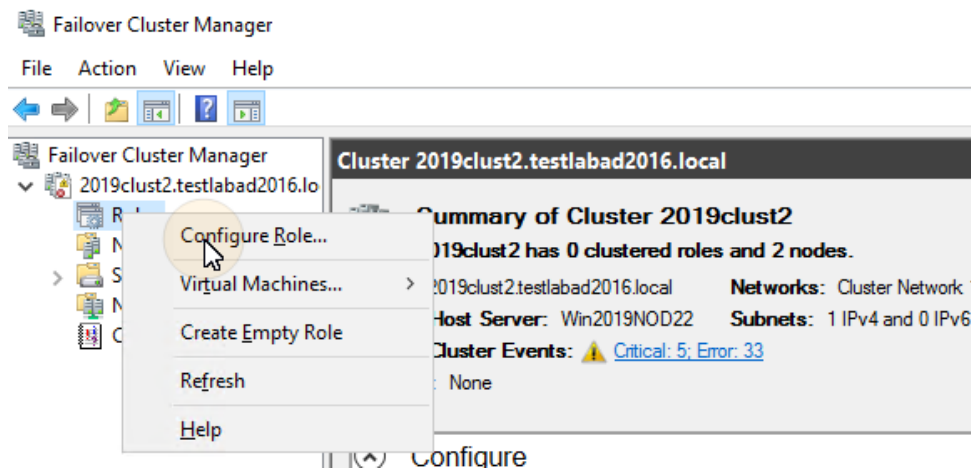
- MyQ Central HTTP Server
- Firebird Server - MasterInstance
- MyQ Central Server



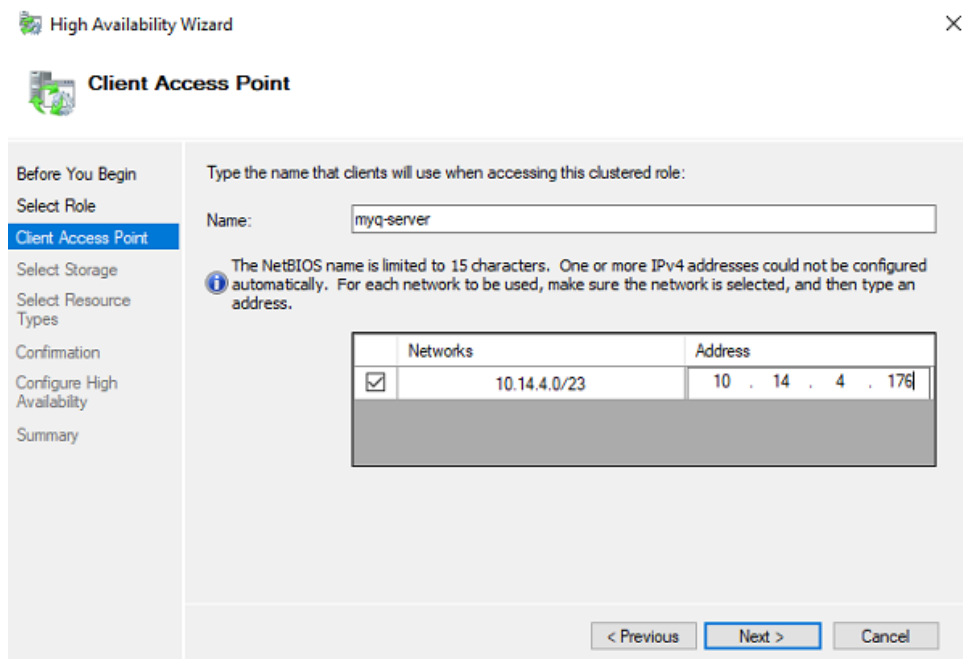
## Creating the MyQ server MS Cluster role (Failover Cluster Manager)

Open Failover Cluster Manager and do the following:

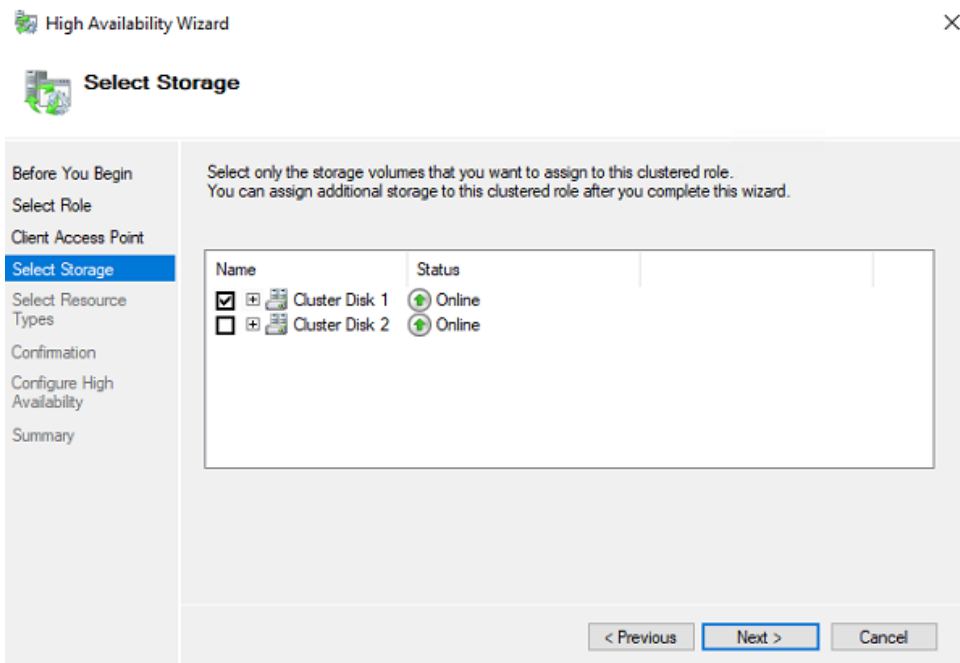
1. Right-click **Roles** and select **Configure Role** on the shortcut menu. The High Availability Wizard opens.



2. Click **Next**. The Select role tab opens.
3. On the tab, select **Other Server**, and click **Next**. The Client Access Point tab opens.
4. On the tab, type a new **Name** for the MyQ server cluster, for example *myq-server*, then enter an unoccupied IP address from the network to be used by the MyQ server role, and lastly click **Next**. The Select Storage tab opens. MyQ will use the hostname for communication with terminals, as the SMTP server in MFPs etc.



5. On the tab, select the storage volumes that you want to use for the MyQ server.



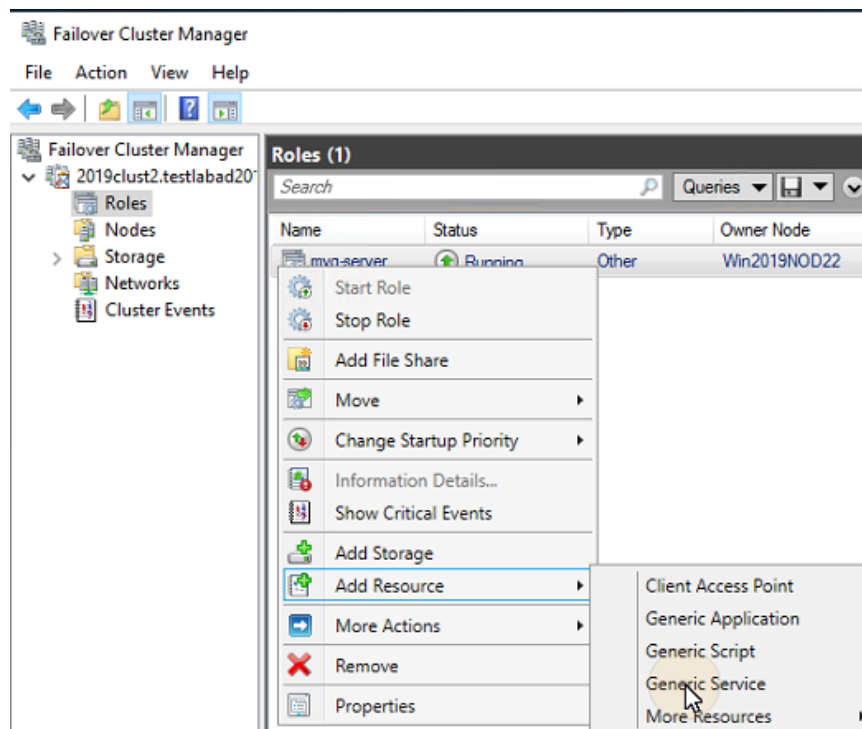
6. Click **Next** to finish the installation process.

### Adding MyQ resources (Failover Cluster Manager)

Once the MyQ server role is created and configured, MyQ resources need to be configured as well, in the **Roles** tab in Failover Cluster Manager.

#### Add the **Firebird server - MasterInstance** service to the MyQ server role:

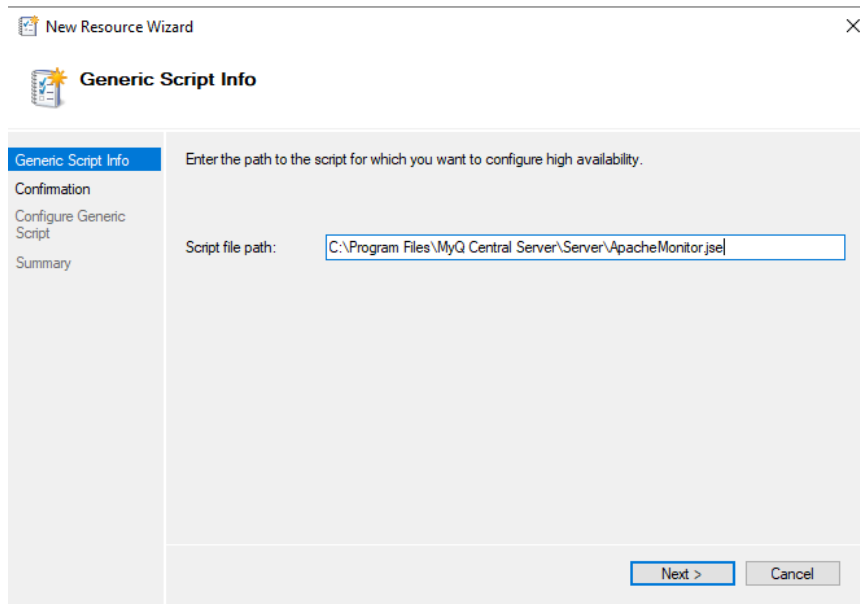
1. Right-click the MyQ server role, then click **Add resource** on the shortcut menu, and click **Generic Service**. The New Resource Wizard opens.



2. In the list of services, select **Firebird Server - MasterInstance**, and click **Next**.
3. On the **Confirmation** tab, click **Next** to create the service. The service is created and configured.
4. Click **Finish** to leave the setup.

#### Add the Apache Monitor script to the MyQ server role:

1. Right-click the MyQ server role, click **Add resource** on the shortcut menu, and click **Generic Script**. The New Resource Wizard opens.
2. Enter the path to the **ApacheMonitor.jse** script, located in the MyQ installation folder, and click **Next**. The Confirmation tab opens. The default path to the script is:  
*C:\Program Files\MyQ Central Server\Server\ApacheMonitor.jse*

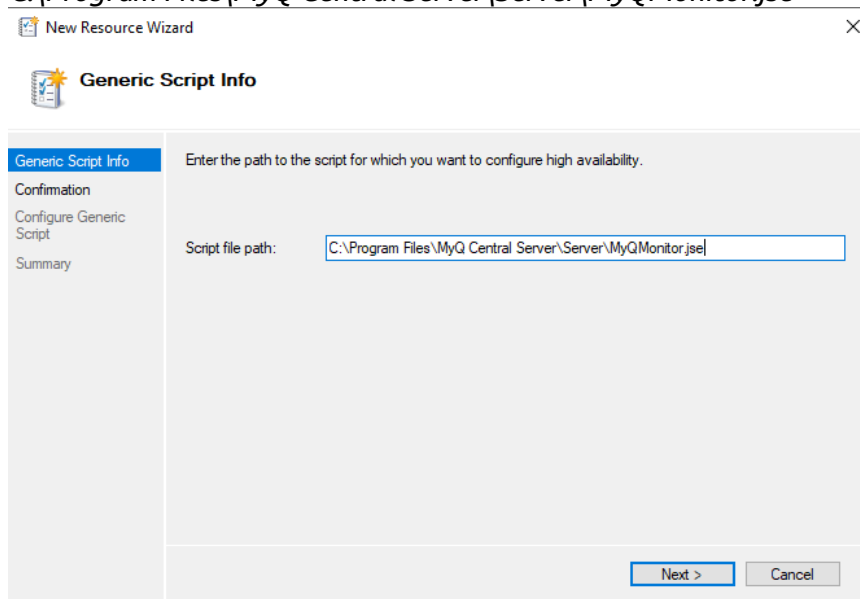


3. On the tab, click **Next** to create the service. The service is created and configured.
4. Click **Finish** to leave the setup.

#### Add the **MyQ Monitor** script to the MyQ server role:

1. Right-click the MyQ server role, click **Add resource** on the shortcut menu, and click **Generic Script**. The New Resource Wizard opens.
2. Enter the path to the **MyQMonitor.jse** script, located in the MyQ installation folder, and click **Next**. The Confirmation tab opens. The default path to the script is:

*C:\Program Files\MyQ Central Server\Server\MyQMonitor.jse*



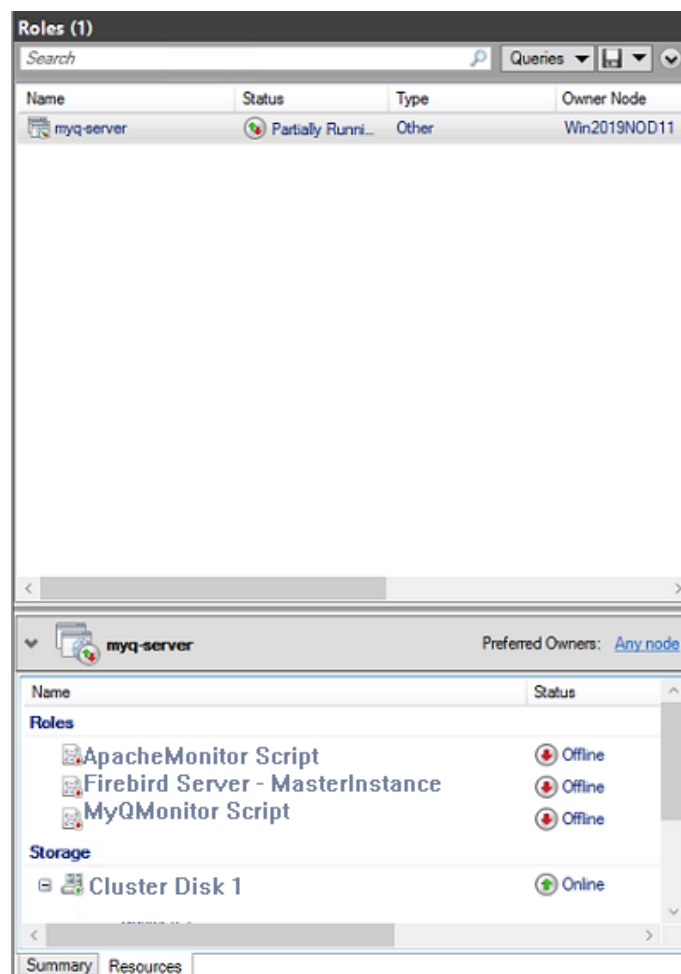
3. On the tab, click **Next** to create the service. The service is created and configured.

4. Click **Finish** to leave the setup.

- If you are using an MS SQL database instead of the Embedded database, you don't need to add the Firebird server - MasterInstance service to the MyQ server role. You should only add the Apache Monitor script, and the MyQ Monitor script.

### Setting resources dependencies (Failover Cluster Manager)

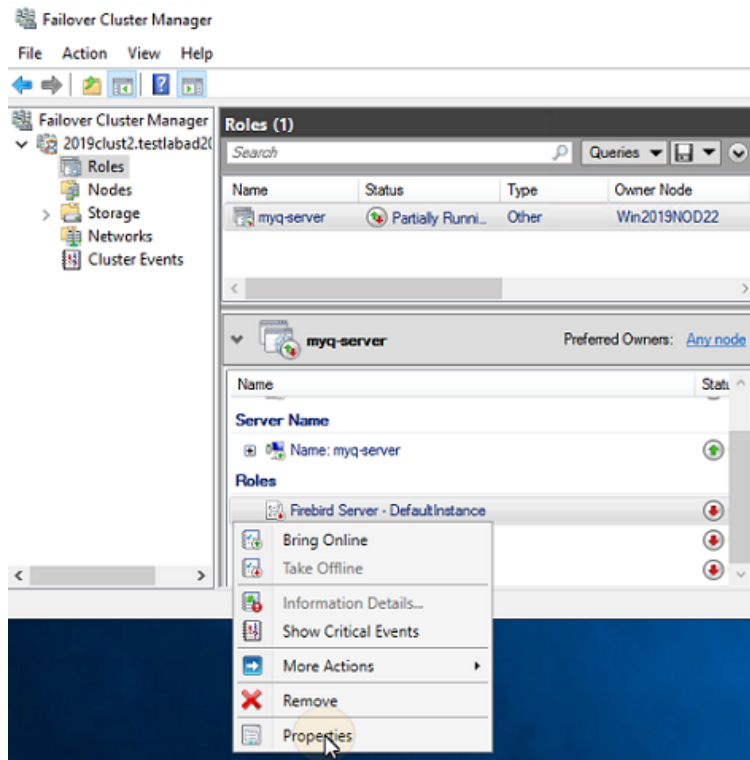
After adding the services and scripts to the MyQ server role, open the **Resources** tab of the MyQ server role at the bottom of the **Roles** tab and set the dependencies of the MyQ services and scripts.



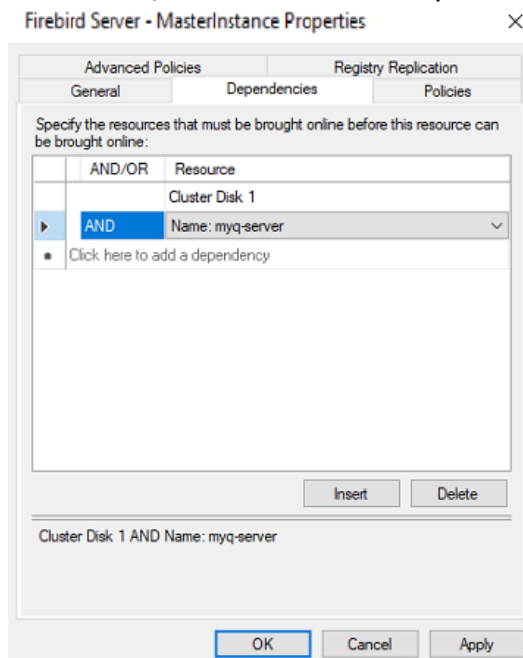
#### Set the **Firebird Server - MasterInstance** service dependency

- In the list at the bottom of the tab, right-click **Firebird Server - MasterInstance**, and click **Properties**. The Firebird Server - MasterInstance Properties dialog box opens.





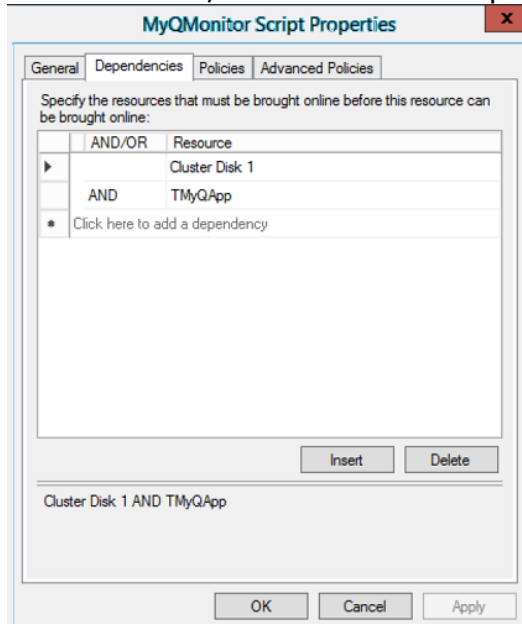
2. In the dialog box, open the **Dependencies** tab, add the shared disk drive (or NAS) where the system is supposed to work on, add the name of the MyQ server role, and click **OK**. The dependency is set.



Setting the Firebird Server - MasterInstance service dependency is not needed if you are using an MS SQL database.

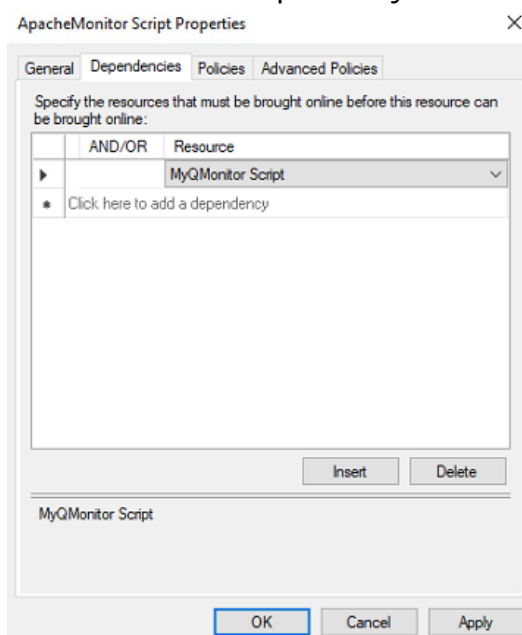
### Set the **MyQMonitor** script dependency


1. In the list at the bottom of the tab, right-click **MyQMonitor Script**, and click **Properties**. The MyQMonitor Script Properties dialog box opens.
2. In the dialog box, open the **Dependencies** tab, add the **Cluster Disk** and the **Cluster server**, and click **OK**. The dependency is set.



### Set the **ApacheMonitor** script dependency

1. In the list at the bottom of the tab, right-click **ApacheMonitor Script**, and click **Properties**. The ApacheMonitor Script Properties dialog box opens.
2. In the dialog box, open the **Dependencies** tab, add the **MyQMonitor Script**, and click **OK**. The dependency is set.



 To open the dependency report, right-click the MyQ server role on the **Roles** tab of the cluster in Failover Cluster Manager, click **More Actions**, and click **Show Dependency Report**.

## 2.2.5 Additional Setup

Even though the installation is finished, there are some additional steps needed to setup the environment before bringing the resources online.

### Setting up the MyQ admin credentials (active node)

On the active node, open the MyQ Central Easy Config application:

1. On the **Services** tab, **Start All** services.
2. On the **Home** tab, set the **Server Administrator Account** password and the **Database Administrator Password** (if the passwords have been changed before, they can be changed again on the **Settings** tab).
3. On the **Services** tab, **Stop All** services, and close the MyQ Central Easy Config application.

### Setting the location of the data folder (all nodes)

On each node of the cluster, you need to set the location of the **Data** folder, which requires access to the shared cluster disk, so the node has to be active. Therefore, you need to switch the active mode between all of the nodes (move the MyQ server role between the nodes).

To set the folder's location, open MyQ Central Easy Config on the currently active node and:

1. On the **Services** tab, **Start All** services.
2. On the **Settings** tab, under the **Data** folder, click **Change location**, and then define the path to the shared cluster disk. (For more information about how to do this, check [here](#)).
3. On the **Services** tab, **Stop All** services, and then close the MyQ Central Easy Config application.
4. In Failover Cluster Manager, move the MyQ server role to the next node and repeat the process.

### Running MyQ in the MS Cluster environment

The following instructions have to be followed while MyQ runs in the MS Cluster:

- You should not start, stop or restart MyQ services while MyQ is controlled by the MS Cluster (cluster resources are online). The services should only be managed by Failover Cluster Manager.
- When switching to a different node, MyQ Central Easy Config should not be used on any node.

- When performing system maintenance (cluster resources are offline), but MyQ services are online on any node (activated manually), do not switch to a different node. By doing so, you risk corrupting the MyQ database.
- When switching to a different node, all services on the initial node are stopped by the MS Cluster.
- While MyQ runs in the cluster, the IP address of the MyQ server is the one that you have selected within the setup of the MyQ server role, and the hostname of the MyQ server is the one that you will set in the MyQ web administrator interface after you bring the resources of the MS Cluster online.
- It is strongly recommended to always keep the **Storage** and **Server Name** resources online. In case you need to take them offline, make sure that all MyQ services on the active node (the current owner of the MyQ server role) are stopped in the MyQ Central Easy Config application.
- After completing the setup (setup and additional setup) of the MyQ server role, and also after each crucial change on the cluster, it is recommended to test the cluster by moving the ownership of the MyQ server role between all nodes of the cluster.

## Starting the system (Failover Cluster Manager)

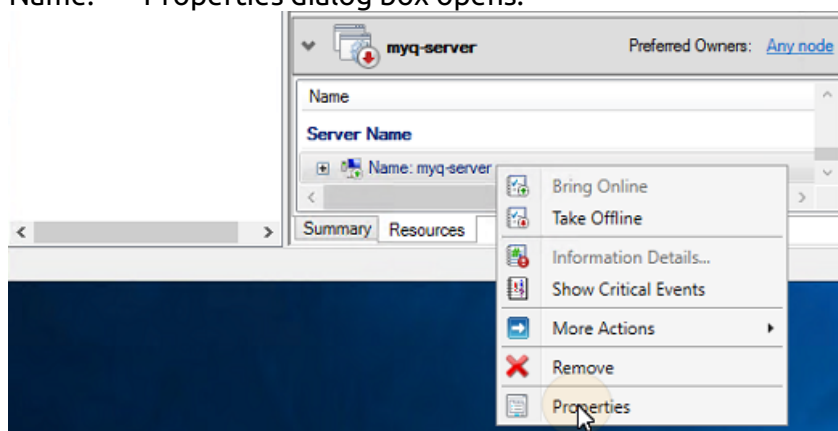
To start the system, you have to bring the resources of the MS Cluster online. For information on how to do this, check [here](#).

## Setting hostname of the MyQ server role

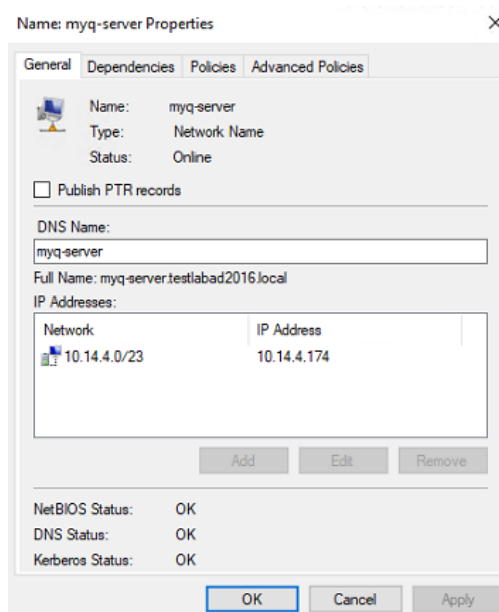
On the **Resources** tab of the MyQ server role in Failover Cluster Manager, you can see (and change) the DNS Name of the MyQ server role. The **Full name** of the role (DNS + domain) needs to be used as the server hostname and as the MyQ X Mobile Client server in MyQ.

To see or change the DNS name of the MyQ server role on the MS Cluster, do the following:

1. In the list at the bottom of the **Resources** tab of the MyQ server role, under **Server Name**, right-click the server's name, and then click **Properties**. The Name:\*\*\* Properties dialog box opens.



2. On the **General** tab , you can see (and change) the DNS Name of the MyQ server role.



To set the hostname of the MyQ server role on the MyQ cluster server, do the following:

1. On the **Network** settings tab of the MyQ web administrator interface of the MyQ cluster server, use the **Full name** (DNS + domain) of the MyQ server in the following setting:
  - a. **This server hostname** under **General**.
2. Then click **Save** at the bottom of the tab.

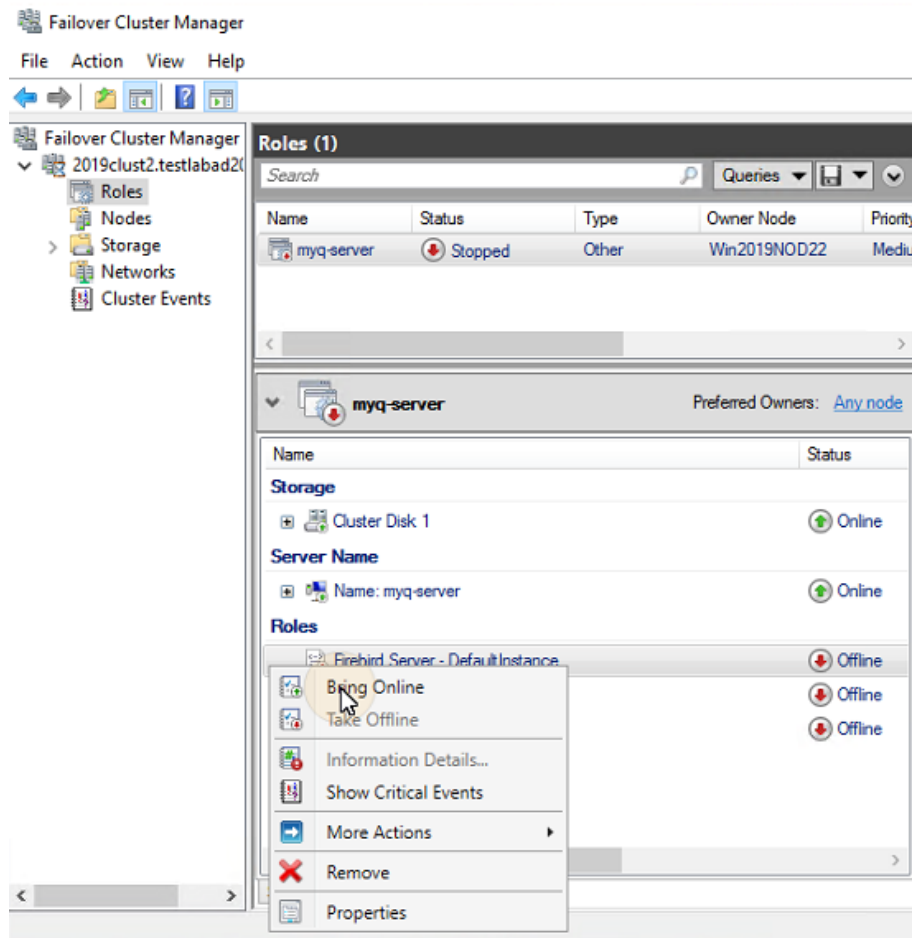
## 2.2.6 Configuration and Maintenance

The below chapters show additional configuration and maintenance steps.

### Bringing the resources of the MS Cluster online (Failover Cluster Manager)

To start the system, you need to bring all the MS Cluster resources online - the **Firebird Server - MasterInstance** service, the **ApacheMonitor.jse** script, and the **MyQMonitor.jse** script.

To bring a service or script online, open the Failover Cluster Manager application, go to **Roles**, right-click the service or script, and click **Bring Online** on the shortcut menu.

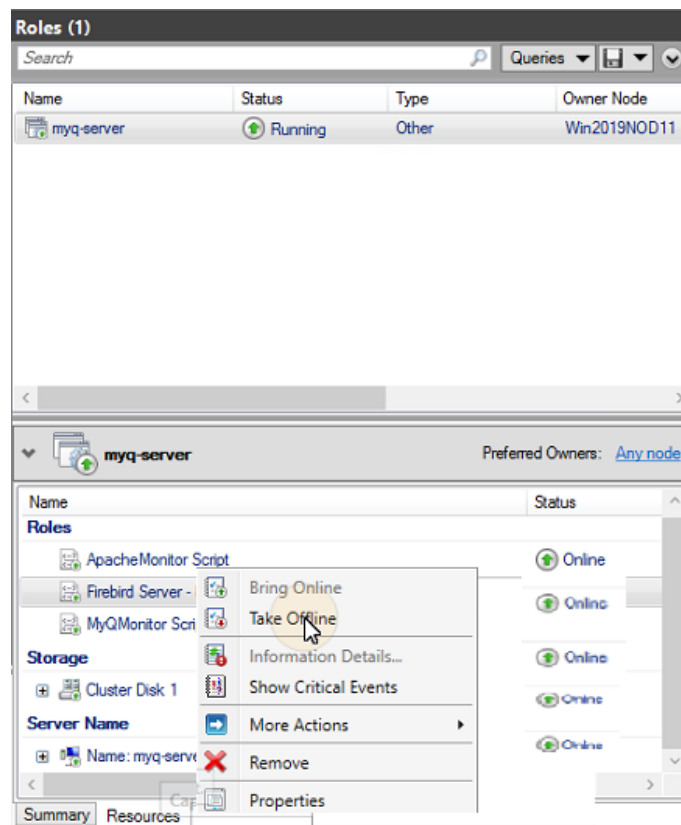


### Taking the MS Cluster resources offline (Failover Cluster Manager)

To make sure that all the MS Cluster resources -except for **Storage** and **Server Name**- are offline, it is sufficient to take the **Firebird Server - MasterInstance** service offline; all of the scripts will be taken offline due to their dependency on this service.

**⚠** The **Storage** and **Server Name** resources must stay online.

To take the **Firebird Server - MasterInstance** service offline, open Failover Cluster Manager, go to **Roles**, right-click the **Firebird Server - MasterInstance** service, and click **Take Offline** on the shortcut menu.



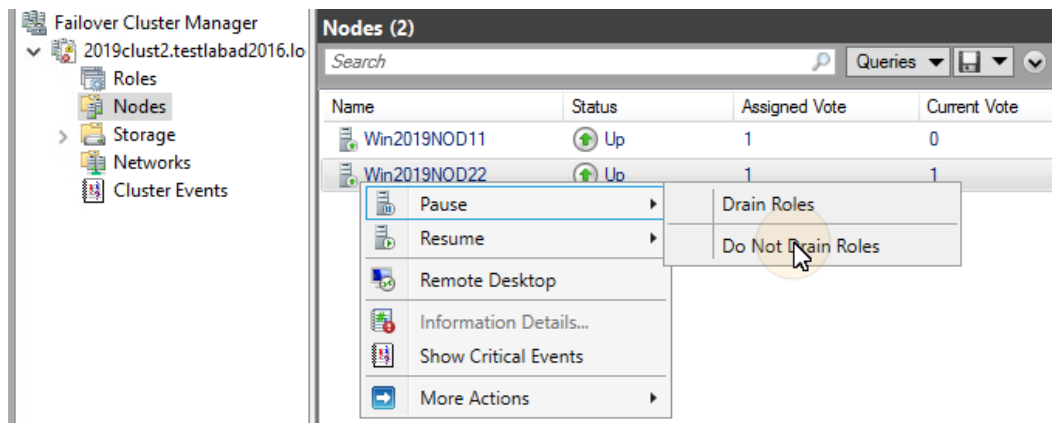
### Restarting MyQ services via the MS Cluster (Failover Cluster Manager)

To restart MyQ services via the MS Cluster, take all the MS Cluster resources, except for **Storage** and **Server Name**, offline and then bring them online.

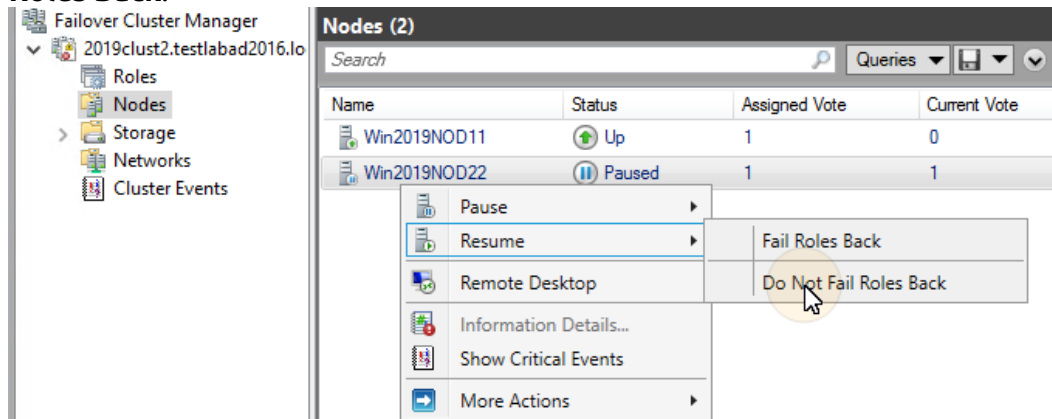
### Changing the MyQ admin credentials (active node)

To change the **Server Administrator Account** and **Database Administrator** passwords, you need to do the following on the currently active node (the current owner of the MyQ server role):

1. Open the Failover Cluster Manager application.
2. Open the **Nodes** tab of the cluster, right-click the currently active node, right-click **Pause** on the shortcut menu, and click **Do Not Drain Roles**.



3. Take all the MS Cluster resources, except for **Storage** and **Server Name**, offline.
4. Open the MyQ Central Easy Config application, start all services, change the passwords, stop all services, and lastly close the application.
5. Bring the resources of the cluster online.
6. Open the **Nodes** tab of the cluster in Failover Cluster Manager, right-click the node, right-click **Resume** on the shortcut menu, and lastly click **Do Not Fail Roles Back**.



## 2.2.7 Backup and Restore

### Backing up the MyQ database on the MS Cluster

The automatic and manual backup processes do not differ from the standard backup processes described in “[Backing up MyQ Data](#)”. The only setting that requires special attention is the backup destination folder. It is recommended to save the backup files on the shared cluster disk.

### Restoring the MyQ database on the MS Cluster (all nodes)

Before restoring the MyQ database, MyQ has to be installed and set up on all the MS Cluster nodes.

Now you need to restore the MyQ database and settings on the active node of the Cluster (the current owner of the MyQ server role) via the following steps:



1. **Start All** services via MyQ Central Easy Config.
2. Open the **Database** tab in MyQ Central Easy Config.
3. In the **Main Database** section, click **Restore....** Select the *database\_\*.zip* file, and click **Open**. If the backup is password protected, there is a prompt to provide the password. The database is restored and, if needed, upgraded as well.
4. Repeat the process for all the other nodes.

## Using Database Encryption

If you are using the **Database Encryption** feature in MyQ Central Easy Config, it is necessary to perform the following steps after encrypting or restoring your database:

1. Stop all Cluster resources except for **Storage** and **Server Name**.
2. Open MyQ Central Easy Config on the active node and start all services.
3. Enable DB encryption.
4. **Stop All** services in MyQ Central Easy Config.
5. Copy the DB encryption key to all the other nodes. The key is located by default in  
*"C:\Program Files\MyQ Central Server\Firebird\plugins\keyholder.conf"*.
6. **Start All** MyQ services in MyQ Central Easy Config, and bring all the resources online via Failover Cluster Manager.

## 2.2.8 Upgrading MyQ

### Necessary steps before the upgrade

Before starting the upgrade, make sure that you have an up-to-date and properly finished backup of the MyQ database. The database can be backed up either manually in MyQ Central Easy Config or automatically as a scheduled task in the MyQ web administrator interface. To make sure that the backup file is preserved, it is recommended to copy the database backup file to a different location.

### Upgrading MyQ (all nodes)

The upgrade needs to be performed on each node of the cluster. To be able to upgrade MyQ on a node, you need to have access to the shared cluster disk, so the node has to be active. Therefore, you need to switch the active mode between all of the nodes (move the MyQ server role between the nodes).


Before upgrading MyQ on the nodes, take all the MS Cluster resources, except for Storage and **Server Name**, offline.

To upgrade MyQ on all nodes, start with the currently active node (the owner of the MyQ server role) and do the following:

1. **Start All** services via MyQ Central Easy Config.
2. Run the MyQ installation file.
3. Finish the installation process.

4. **Stop All** services via MyQ Central Easy Config, and then close the MyQ Central Easy Config application.
5. Move the MyQ server role to the next node and repeat all the steps.

After MyQ is upgraded on all the nodes, bring all the MS Cluster resources online.

 During the installation, you might encounter a warning message about a problem related to updating the MyQ database. In such cases, continue with the setup, as the problem does not impact the installation.


## 2.2.9 Recommended Troubleshooting

The MS Cluster solves issues on the currently active node which might affect the availability of the MyQ server, by switching to one of the available passive nodes.

Problems related to the MyQ server need to be treated manually. In case you encounter such problems, it is recommended to restart MyQ services in the Failover Cluster Manager application. If the problem persists, contact MyQ support.

In case the MS Cluster does not start, try taking all the MS Cluster resources, except for **Storage** and **Server Name**, offline, and then try to manually start MyQ services. If successful, it is likely that the problem is on the cluster side; otherwise the problem is probably related to the MyQ server, in which case contact MyQ support.

## 3 System Requirements

 The operating system and other software require their own additional system resources. The system requirements described below are only for MyQ solution.

### 3.1 MyQ Central Server mode with integrated Firebird database


MyQ Central Server	1 - 10,000 users	10,001 - 50,000 users	50,001 - 100,000 users
Physical Core*	6	6	6
RAM	8GB	12GB	16GB

#### Valid for a typical user case:

- Integrated Firebird database - installed automatically.
- Data Replications from Site servers.
- User synchronization.
- Up to 500 Sites (for the Site servers HW requirements, see [MyQ Print Server - Site mode](#)) managed by the Central Server (license distribution, user synchronization, and data replication between Central Server and Site servers).
- Up to 30,000 printers total on MyQ Central Server.

#### 3.1.1 Recommendations

- Install Windows updates out of the replication or user synchronization time.
- Always monitor the server performance during peak usage hours and adjust the settings accordingly.
- Changing the power plan of Windows Server in *Control Panel – Hardware – Power Options* from Balanced (the default setting) to **High performance** is recommended to utilize the maximum performance. This may help speed up database operations.

 It is possible to install MyQ Central Server and MyQ Site Server on one Server, but it is recommended only for small installations (small Site Server). In this case, the HW requirements for both MyQ Central and MyQ Site Server need to be taken into account.

## 3.2 MyQ Central Server mode with an external MS SQL database

MyQ Central Server	1 - 10,000 users	10,001 - 50,000 users	50,001 - 100,000 users
Physical Core*	4	4	4
RAM	4GB	6GB	6GB

MS SQL server (database)	1 - 10,000 users	10,001 - 50,000 users	50,001 - 100,000 users
Physical Core*	6	6	6
RAM	12GB	24GB	32GB

\*number of physical cores with 3,5GHz frequency (calculated with AMD Ryzen Threadripper 1920X 3,5GHz).

### Valid for a typical user case:

- External MS SQL database used.
- Data Replications from Site servers.
- User synchronization .
- Up to 500 Sites (for the Site servers HW requirements, see [MyQ Print Server - Site mode](#)) managed by the Central Server (license distribution, user synchronization, and data replication between Central Server and Site servers).
- Up to 30,000 printers total on MyQ Central Server.

### 3.2.1 Recommendations

- Install Windows updates out of the replication or user synchronization time.
- Always monitor the server performance during peak usage hours and adjust the settings accordingly.
- Changing the power plan of Windows Server in *Control Panel – Hardware – Power Options* from Balanced (the default setting) to **High performance** is recommended to utilize the maximum performance. This may help speed up database operations.

### 3.2.2 Operating System

Windows Server 2012/ 2012 R2/ 2016/ 2019/2022, with all the latest updates; only 64bit OS supported.

Windows 8.1/10/11 \*\*, with all the latest updates; only 64bit OS supported. Be aware of the connection limit of up to 20 clients ([Windows EULA](#)).

\*\*For the trouble-free running of the machine, it is strongly recommended using a server operating system.

### 3.2.3 Additional software required

- [Microsoft .NET Core 6.0](#)
- [Microsoft .NET Framework](#) (any version recommended by Microsoft)
- For Windows Server 2022, it is necessary to install Server Core App Compatibility Feature on Demand (FOD) ( <https://docs.microsoft.com/en-us/windows-server/get-started/server-core-app-compatibility-feature-on-demand> )

It can be installed from PowerShell as a Windows Update using this command: " **Add-WindowsCapability -Online -Name**

**ServerCore.AppCompatibility~~~~0.0.1.0** " and then restart.

**i** Microsoft .NET Core 6.0 is installed automatically at the beginning of the MyQ installation. If the installation fails, the installer cannot proceed, and the installation is terminated. In such cases, .NET Core 6.0 has to be manually installed prior to the MyQ installation.  
Microsoft .NET Framework is not automatically installed and needs to be installed prior to running the MyQ installation.

### 3.2.4 Storage sizing

The MyQ Central Server installation files are approximately 300MB.

Minimum 10GB dedicated disk for MyQ Data storage (jobs, main database and log database) is recommended; see the below tables for more details.

Data storage with integrated Firebird database (included users, replications):

	10k jobs	100k jobs	1M jobs
MYQ database	30MB	200MB	1,5GB
MYQLOG database	30MB	300MB	3GB

MyQ data folder storage counted for 1 year.

Data storage on external MS SQL database (include users, replications):

	10k jobs	100k jobs	1M jobs
MYQ database	500MB	700MB	7GB
MYQLOG database	1GB	1,5GB	3GB

MyQ data folder storage counted for 1 year.

### Storage performance

- minimum 100 IOPS required.
- RAID data storage supported.

### 3.2.5 Database

- Microsoft SQL Server 2014 or newer.
  - Microsoft SQL Server 2017 or newer is recommended.
- On MS SQL Server older than 2017:
  - CLR must be enabled (<https://docs.microsoft.com/en-us/sql/relational-databases/clr-integration/clr-integration-enabling>).
  - User with owner privileges for Main and Log database.
- User (Server user/login) used to connect to the DB must have their default language set to *us\_english*.

### 3.2.6 Web browser

- Microsoft Edge 91 or higher (Recommended)
- Google Chrome 91 or higher
- Mozilla Firefox 91 or higher
- Apple Safari 15 or higher
- Opera 82 or higher
- Internet Explorer and MS Edge Legacy are no longer supported

### 3.2.7 Security

DigiCert Global Root CA certificate (required for Installation Key license activation)

→ <https://www.digicert.com/kb/digicert-root-certificates.htm#roots>.

It should be included by default in the latest updated Windows versions.

Supported Public Key Infrastructure for asymmetric cryptography.

**Limitations:**

- To make sure that the MyQ system runs smoothly, you need to set an exception for MyQ in your antivirus setup.
- MyQ should not be installed on a Domain Controller.

### 3.3 MyQ installation in Private Cloud

MyQ can also be installed in Private Cloud. For requirements and further details, see [Installation in Private Cloud](#).

For the Print Server requirements, check the [MyQ Print Server](#) guide.

### 3.4 Main Communication Ports

If you need to adjust your firewall, it is recommended to allow MyQ processes in the firewall and not particular ports. If you allow particular ports, MyQ may stop working if:

1. you change port settings in MyQ, or
2. you upgrade to a newer version and the port specification has changed.

#### 3.4.1 Incoming Ports

The server is listening on the following ports (does not include private ports):

Protocol	Port	Configurable	Description
TCP	8083	Yes (MyQ Easy Config)	HTTP protocol for accessing the MyQ Web interface and REST API.
TCP	8093	Yes (MyQ Easy Config)	HTTPS protocol for accessing the MyQ Web interface and REST API.


#### 3.4.2 Outgoing Ports

The server is connecting to the following ports (does not include localhost connections):

Protocol	Port	Description
TCP	443	<ul style="list-style-type: none"> <li>• License activation server. The MyQ license server address is <a href="https://license2.myq.cz">license2.myq.cz</a>. The old MyQ license server address is <a href="https://license.myq.cz">license.myq.cz</a>.</li> <li>• Other enabled services from Settings → Connections (Microsoft Exchange Online)</li> </ul>

You can also set up additional services that require further configuration and their port will often differ:

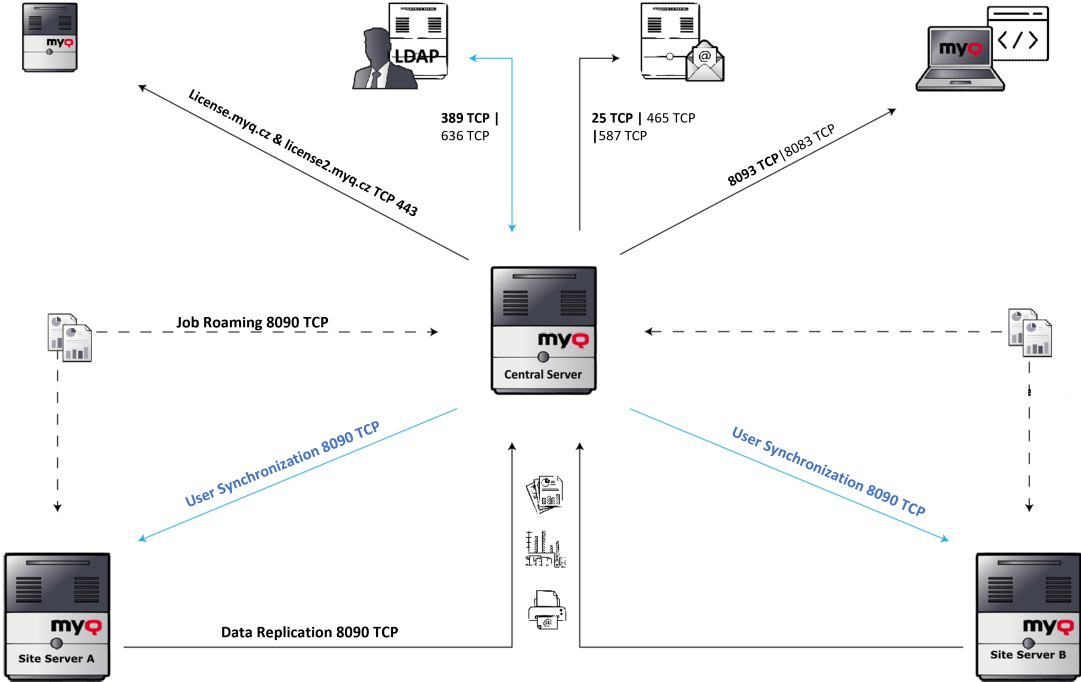
Protocol	Port	Default	Description
TCP	Custom	25/465/587	Connection to SMTP server for sending outgoing emails from MyQ.
TCP	Custom	389/636/1812	Connection to Authentication server(s) (LDAP, Radius, ...) for user authentication/synchronization.
TCP	Custom	8090	Site server(s) connection.
TCP	Custom	-	Connection to External credit account.

 For a complete list of the ports used by Site servers, check [Main communication ports](#) in the MyQ Print Server guide.

## 3.5 Network Communication Architecture


The image below depicts an overview of the components and main network communication channels between MyQ Central server and MyQ Site servers.





## 4 Installation

This topic shows you how to install the MyQ Central server and how to connect it to a database.


-  Before you start the installation, make sure your system is up to date and meets the requirements as described in [System Requirements](#).

MyQ Central server is installed simply by running the executable file and following the instructions of the installation wizard.

1. Download the latest available MyQ Central Server version from the MyQ Community portal (*MyQ Central Server X.X.X.X*).
2. Run the executable file. The Select Setup Language dialog box appears.
3. Select your language, and then click **OK**. The License Agreement dialog box appears. Select **I accept the agreement**, and click **Next**. The Accessibility mode dialog box appears.
4. Select between the *Standard* or *Enhanced* accessibility mode, and click **Next**. The Select Destination Location dialog box appears.
5. Select the folder where you wish to install MyQ Central server. The default path is:  
*C:\Program Files\MyQ Central Server*.
6. Click **Next**. The Select Components dialog box opens.
7. If you want to use the MyQ Embedded database server, keep the **Embedded Database** option selected (default setting). If you want to use an MS SQL database server, you should clear the selection. Click **Next**. The Ready to Install window opens, with an overview of your selections.
8. Click **Install**. MyQ Central server is installed on your computer. Depending on the OS settings on the server, you might be asked to restart the computer. If you are asked to restart the computer, you need to do so in order to finish the installation. After the restart, the MyQ Central Server Easy Config application opens and you can continue with the setup there.

### 4.1 Central Server database setup

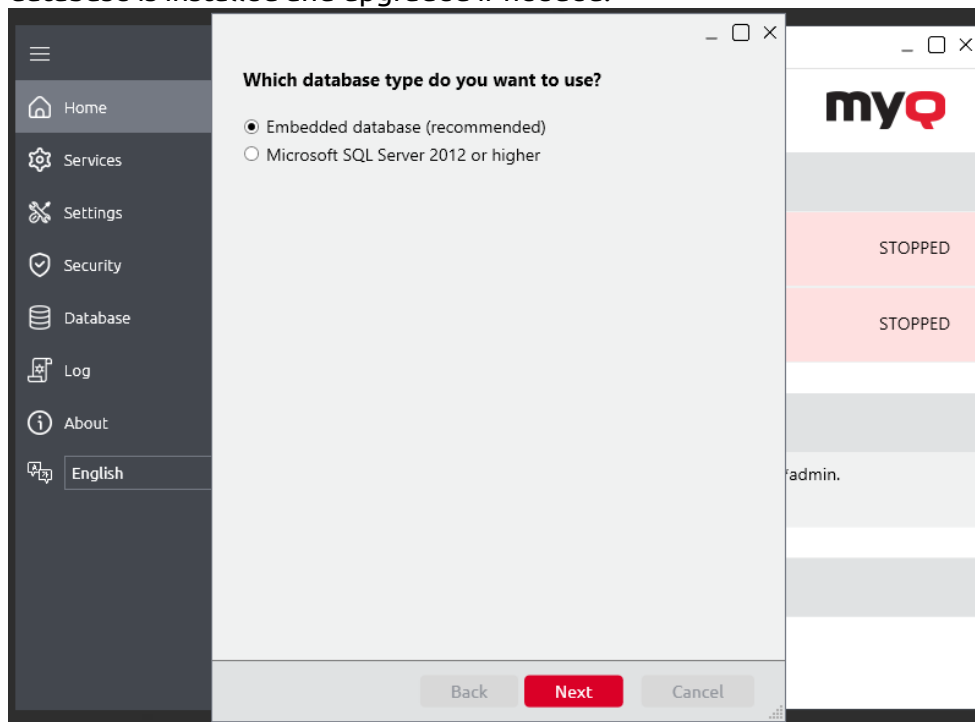
Once the MyQ Central server is installed, the MyQ Central Server Easy Config application opens and you are asked to select and set the MyQ database. The two following sections describe the setup of the database after the installation.

-  If you have deselected the **Embedded Database** option during the installation, the MyQ Embedded database option is no longer available on the MyQ server.

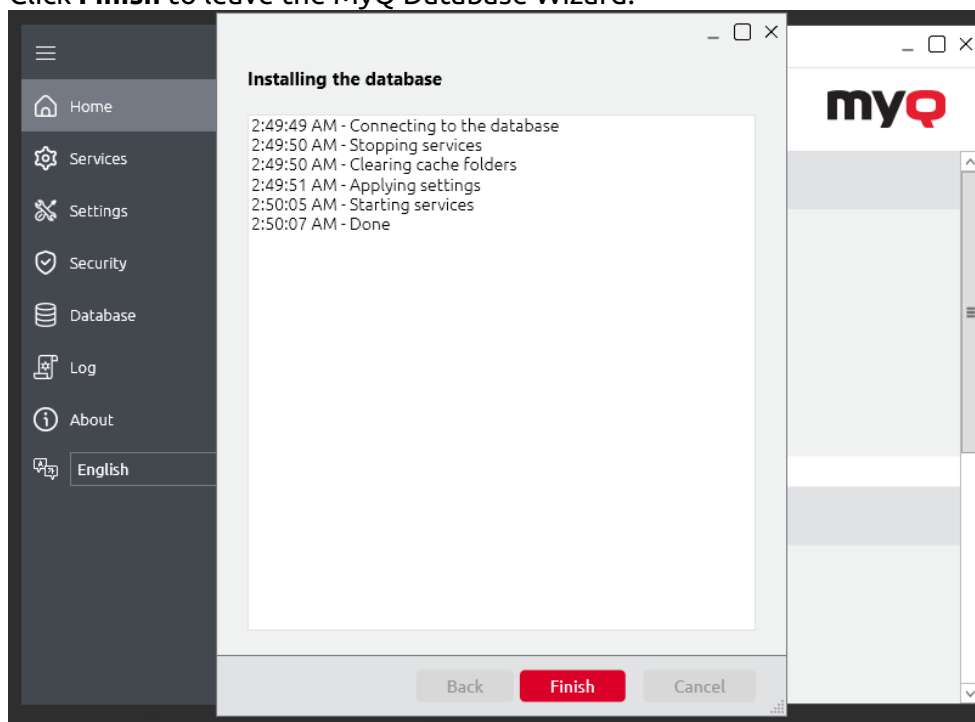
#### 4.1.1 Setting up the Embedded Database

To set up the Embedded database:

1. Select the **Embedded Database (recommended)** option, and click **Next**. The database is installed and upgraded if needed.



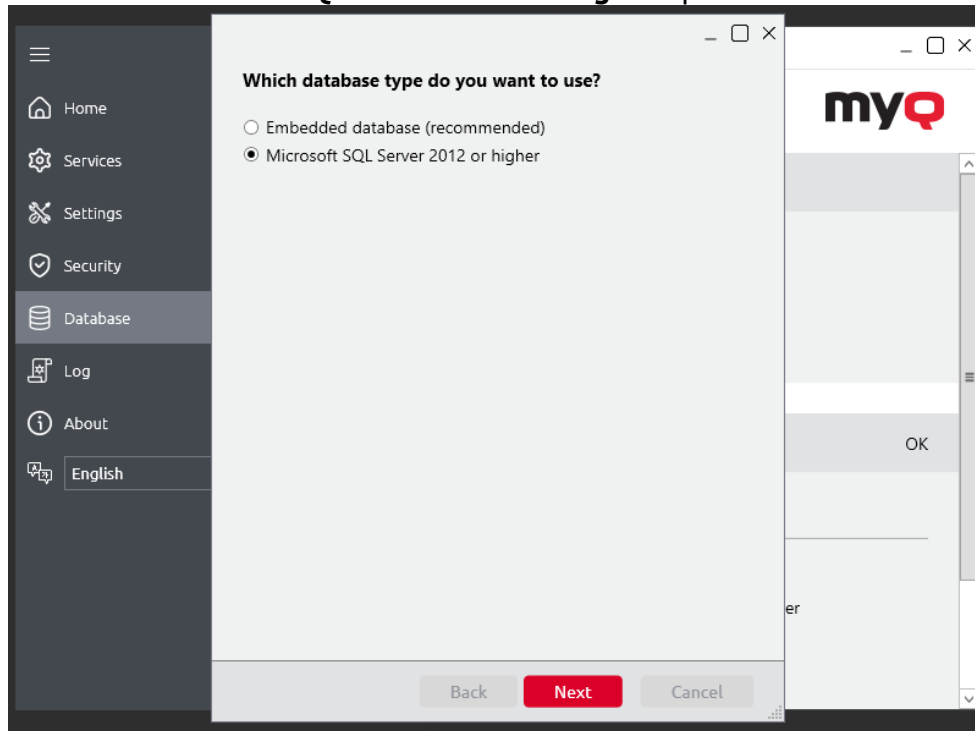
2. Click **Finish** to leave the MyQ Database Wizard.



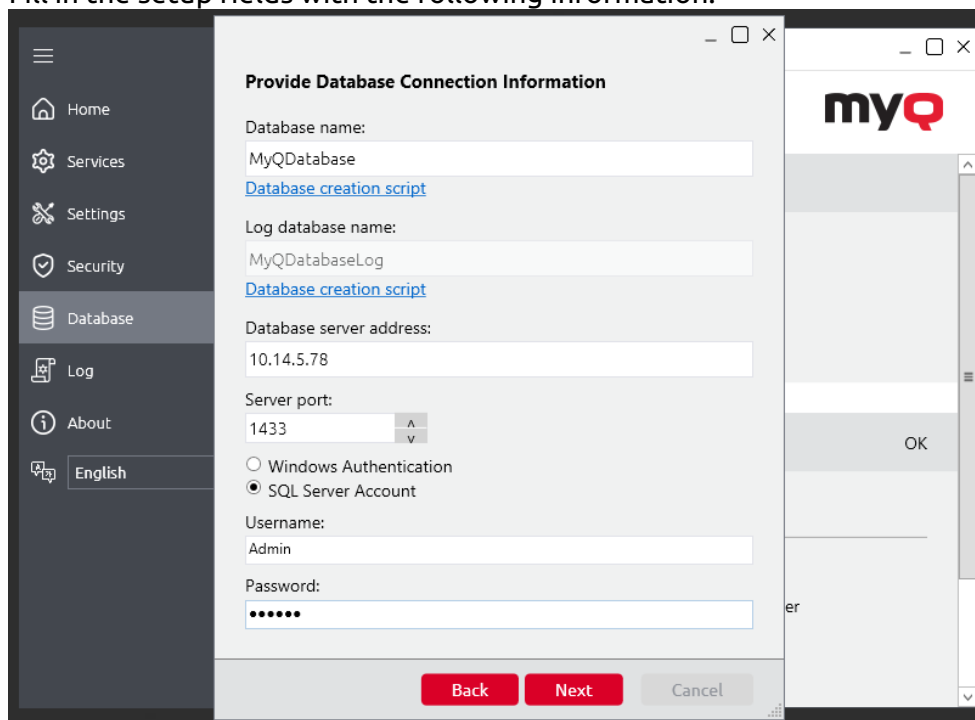
## 4.1.2 Setting up an MS SQL Database

To set up an MS SQL database:


1. Select the **Microsoft SQL Server 2012 or higher** option and click **Next**.



2. Fill in the setup fields with the following information:



- a. **Database name:** name of the new MyQ MS SQL database (for example *MyQDatabase*).
  - b. **Log database name:** this is automatically filled according to the Database name.
  - c. **Database server address:** the IP address or the hostname of the MS SQL server.
  - d. **Server port:** TCP port used for communication with the MS SQL server; by default it is *1433*. In case of a Local database, the Server port field must be left empty.
  - e. **Username/Password:** Login credentials for accessing the MS SQL database management. The login account has to have the **public** fixed server role for access to the MS SQL database. You can alternatively use **Windows Authentication**.
3. Before you can continue, it is necessary to manually create the main and log databases MyQ will be using. You can use the creation scripts that are available to you under the 'Database name' and 'Log database name' fields. Run the scripts on your MS SQL server and they will create databases using the names you have provided in Step 2.
  4. Once the databases are successfully created, click **Next** to continue. MyQ Central Server Easy Config will run the Database Prerequisites Check.
  5. Click **Finish** to leave the MyQ Database Wizard.


 An MS SQL database does not support importing temporary cards.

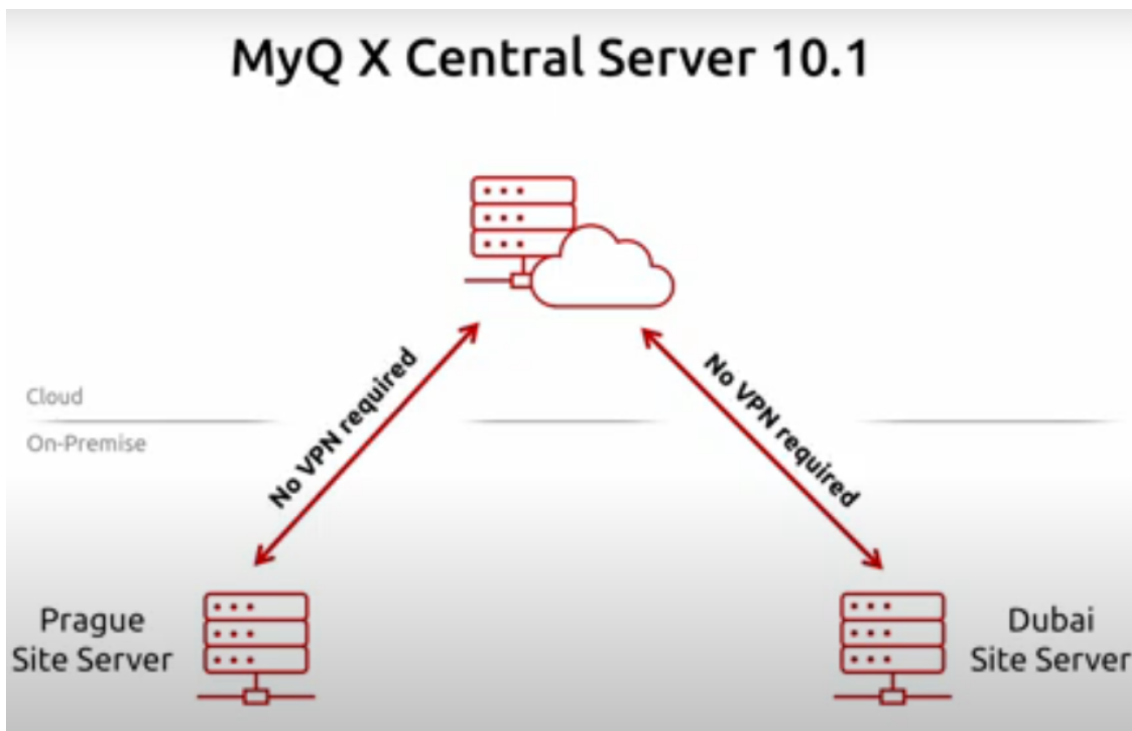
## 4.2 Installation in Private Cloud

MyQ Central Server can be installed and run, besides on-premise servers, also on an Azure Virtual Machine, with a VPN tunnel connecting the physical network and Azure's virtual network.

### 4.2.1 Environment Requirements

- The minimum recommended virtual machine is B4ms, with a dedicated (not system disk) standard HDD.
  - The recommended CPU, RAM and HDD resources are the same as a standard installation and can be found in [system requirements](#).
- It is required to open ports used by MyQ or make sure they are not blocked on Azure's Network security group .

 Since MyQ Central Server 10.1, communication with Sites does not require a VPN tunnel. Public IP address of the machine running the Central Server can be used.



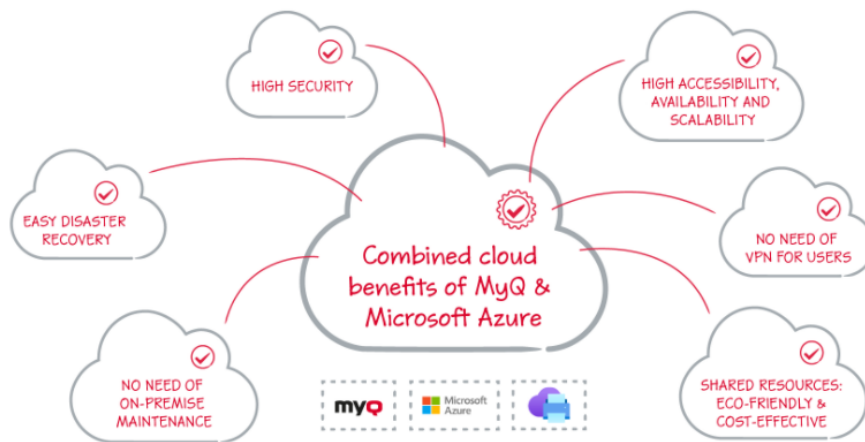
Once you set up the Azure virtual environment, follow the [Installation](#) instructions to install MyQ.

### 4.2.2 About MyQ in Private Cloud

Customers using Microsoft 365 as a private cloud hosting their internal systems can add MyQ to the list of IT services they no longer need to have installed on an on-premise server.

Part of the leased private cloud space can be dedicated to MyQ server(s), and MyQ running in Azure can make use of [Azure Active Directories](#).

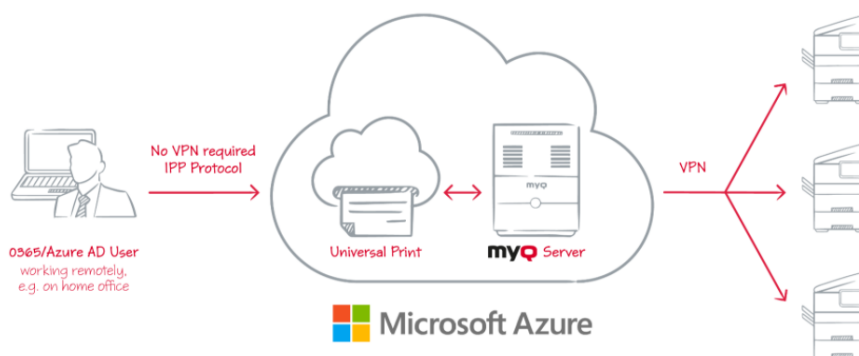
The single sign-on feature already used by users to access applications in the Microsoft cloud can also cover cloud printing with MyQ, without the need to use a VPN connection.



MS Universal Print is also fully integrated in MyQ, offering mobility, quick printer discovery, and no need for a VPN connection.

What is more, MyQ’s Universal Print connector can work with older devices, so there’s no need to invest into upgrading your fleet with more recent models which would natively support Universal Print.

For more information, see **Microsoft Universal Print** in the [MyQ Print Server guide](#).



**■** A VPN tunnel connecting the physical network and Azure's virtual network is also required when using Microsoft Universal Print. Thanks to this VPN tunnel, there is no need for a VPN connection from the client’s side to the MyQ Server.

## 5 MyQ Central Server Easy Config


The MyQ Central Easy Config application is the basic environment for setup of the essential parts of the MyQ Central server, such as the MyQ database and log.

It automatically opens during the installation of the server. Otherwise, you can find it on the Apps screen in Windows 8.1+, Windows Server 2012 and newer. After you open the application, you see its menu on the left side of the dialog box. From this menu, you can access the following settings:

- On the **Home** tab, you can quickly change the default passwords for access to the Server Administrator account and the Database Administrator account. You can generate data needed by MyQ Support, and you can also log in to the MyQ Web Administrator Interface from there.
- On the **Services** tab, you can control the run of the MyQ Central server's services.
- On the **Settings** tab, you can change both the Server administrator and the Database administrator passwords, setup the Windows Services account, unlock the Server administrator account, change file paths of the MyQ system data files, change the port of the web server and clean up your Cache and Temp folders.
- On the **Security** tab, you can enable/disable unsecure communication, and manage the MyQ DB, the Log DB, and jobs encryption.
- On the **Database** tab, you can change the type and settings of the MyQ database, and back up and restore your data.
- On the **Log** tab, you can overview all operations executed by the MyQ system.
- On the **About** tab, you can see the information about the current version of the MyQ Central server.

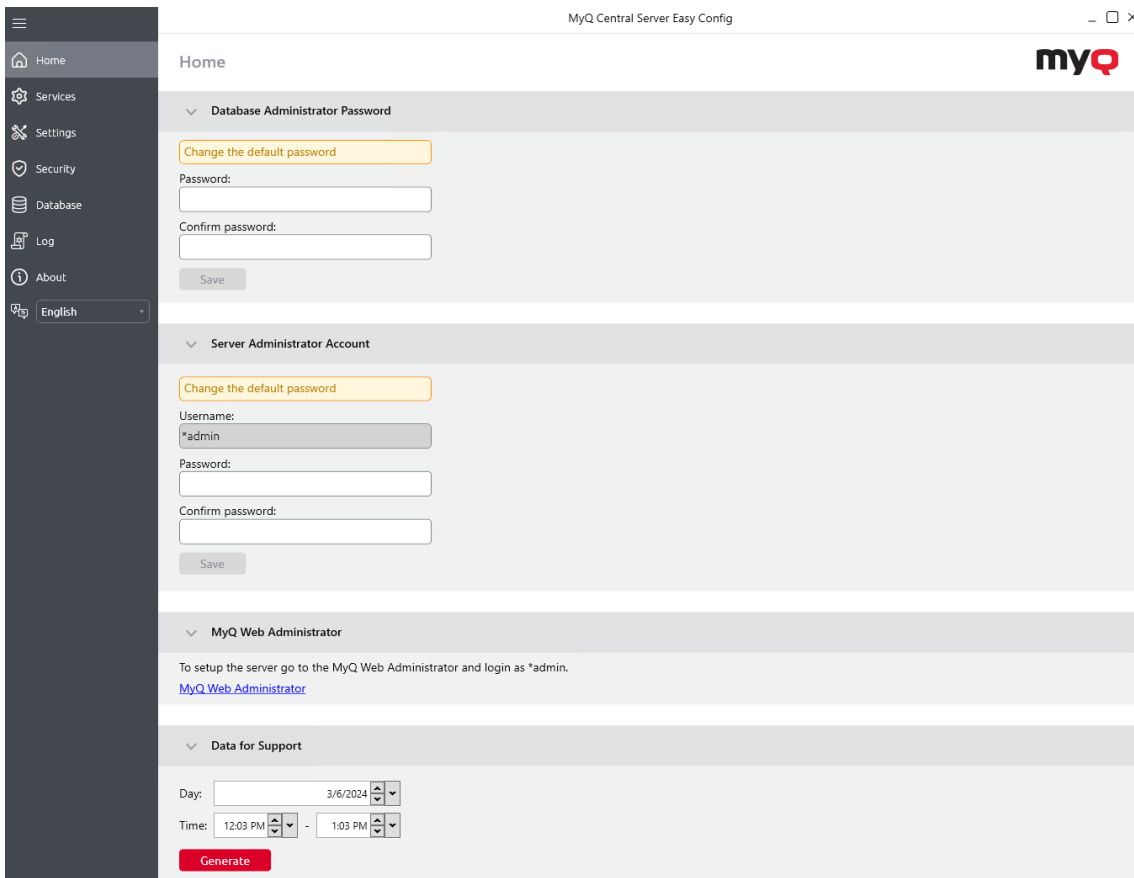
### 5.1 Home

Once you open the MyQ Central Easy Config application for the first time, you should change two passwords: the Server administrator password, and the password for access to the MyQ database.

 The Server administrator user name is *\*admin* and its default password is *1234*.  
The MyQ database administrator user name is *SYSDBA* and its default password is *masterkey*.

The first time you open the application, on the **Home** tab, you can see the **Server Administrator Account**, and the **Database Administrator Password** sections. In each of the two sections, type the new password, confirm the password, and then click **Save**.



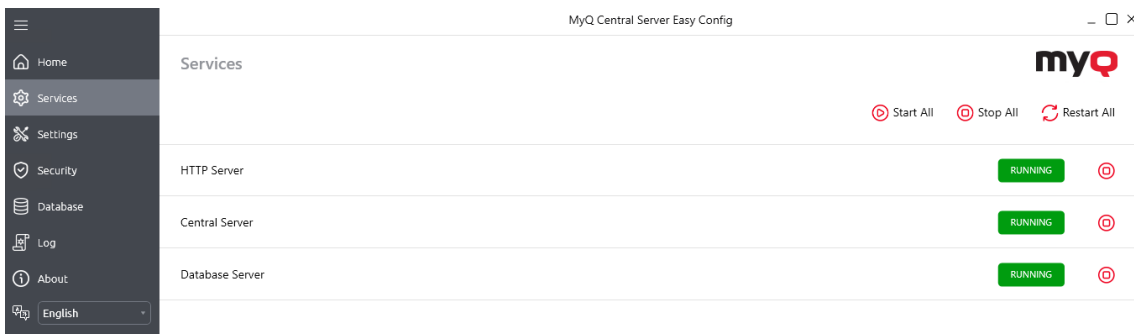


After you change Database Administrator the password for the first time, its initial setup section disappears from the **Home** tab.

Additional options are available on the **Home** tab to access the **MyQ Web Administrator** account, and generate **Data for Support**.

## 5.2 Services

On the **Services** tab you can stop, start and restart the services of the MyQ Central server.



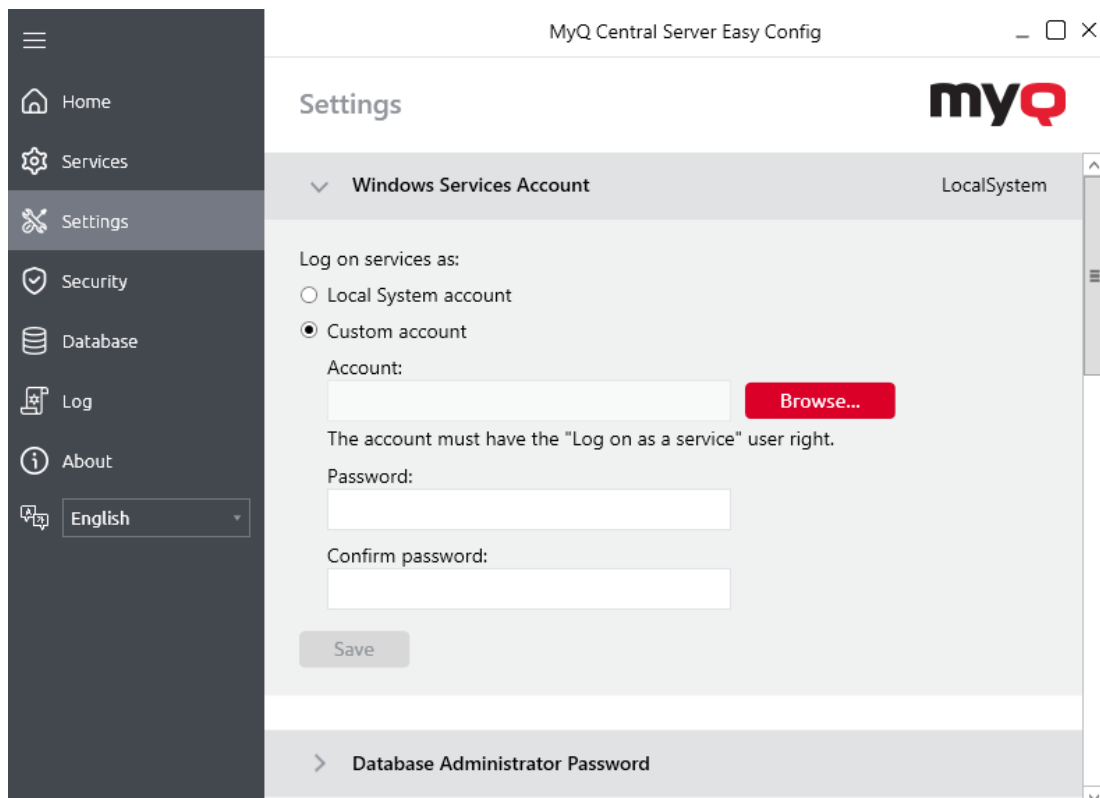
## 5.3 Settings

### 5.3.1 Windows Services Account

MyQ Services run, by default, under the *Local System* account, meaning the account that was used during the installation.

This can be changed in the **Settings** tab, in the **Windows Services Account** section:

- Under *Log on services as*, select **Custom account**.
- Click on **Browse**, select the user account to be used for MyQ services and click **OK**. The selected user account should have "Local administrator" rights or be a member of the Local Administrators Group. It should also already have rights to "Log on as service".
- Type the account's password and then confirm it in the next field.
- Click **Save**. MyQ Services are automatically stopped and restarted.



To change back to the default account, select **Local System account**, and click **Save**. MyQ Services are automatically stopped and restarted.

### 5.3.2 Changing passwords on the Settings tab

As soon as you replace the default passwords, the passwords sections disappear from the **Home** tab and they can no longer be changed there.

However, both of them can be changed at any time on the **Settings** tab, under the **Server Administrator Account** and **Database Administrator Password** sections.

Database Administrator Password

Change the default password

Password:

Confirm password:

Server Administrator Account

Change the default password

Username:

Password:

Confirm password:

## Unlocking the Server Administrator account

After 5 consecutive failed login attempts to the Server administrator account, the account is locked.

The admin can see a warning that the \*admin account is locked, and unlock it, in the **Server Administrator Account** section on the **Settings** tab. Once they click **Unlock**, the account is unlocked.

Server Administrator Account Warning

The \*admin account has been locked out.

The administrator can also check their account's status via the Windows command line, using the following command:

```
C:\Program Files\MyQ Central
```

```
Server\PhpApps\MasterServer\src\EasyConfig>"C:\Program Files\MyQ Central
Server\PHP\PHP\php.exe" confcli.exe.php cmdConfig adminUnlock check
```

To **Unlock** the account via the Windows command line, they can use the following command:

```
C:\Program Files\MyQ Central
```

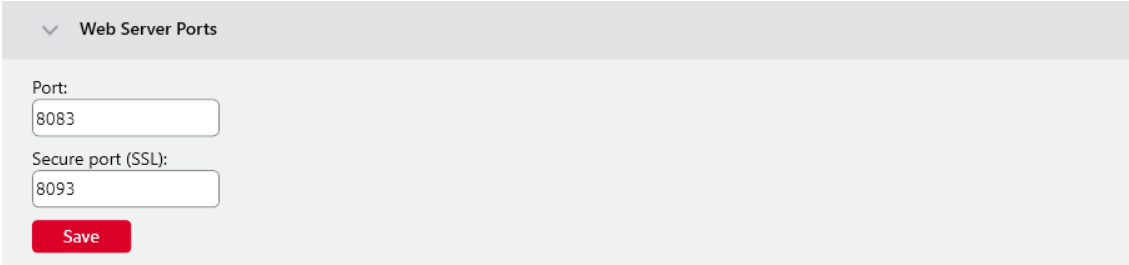
```
Server\PhpApps\MasterServer\src\EasyConfig>"C:\Program Files\MyQ Central  
Server\PHP\PHP\php.exe" confcli.exe.php cmdConfig adminUnlock SET unlock
```

### 5.3.3 Web Server Ports

On the **Settings** tab, under **Web Server Ports**, you can change the ports for the connection to the MyQ Web server:

- **Port:** communication port for the MyQ HTTP server; the default value is *8083*.
- **Secure port (SSL):** communication port for the MyQ HTTPS server; the default value is *8093*.

Use the up/down arrows to select the new port, and click **Save** to apply the changes.



Web Server Ports

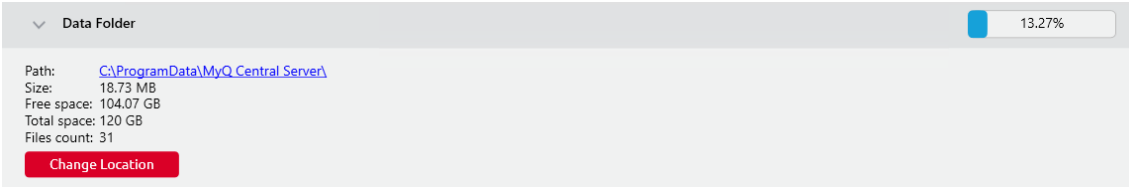
Port:  
8083

Secure port (SSL):  
8093

Save

### 5.3.4 Data Folder

On the **Settings** tab, you can see the MyQ database folder location.



Data Folder 13.27%

Path: [C:\ProgramData\MyQ Central Server\](#)

Size: 18.73 MB  
Free space: 104.07 GB  
Total space: 120 GB  
Files count: 31

Change Location

Depending on the type of the database, the Data folder either does, or does not contain the MyQ database: the MyQ Embedded database is part of the folder, whereas the SQL database is stored on the SQL server. Besides the MyQ database, the folder contains additional files with data used by the MyQ system, such as reports, certificates or the *config.ini* file.

The default folder path is:

```
C:\ProgramData\MyQ Central Server\
```

Under normal circumstances, there is no need to change the location. In case you have to do it, for example when there is not enough space on the system disk, follow the instructions below:

1. On the **Settings** tab, in the respective section, click **Change Location**. The **Change folder location** dialog box appears.

The screenshot shows a dialog box with three main sections:

- Current Folder:** A text field containing the path `C:\ProgramData\MyQ Central Server\`. Below it, statistics are listed: Size: 21.57 MB, Free space: 14.09 GB, Total space: 24.66 GB, and Files count: 33.
- New Folder:** A text field containing the same path `C:\ProgramData\MyQ Central Server\`. To its right is a red button labeled **Select**. Below it, statistics are listed: Free space: 14.15 GB and Total space: 24.66 GB.
- Change Operation:** Three radio button options:
  - Change folder location and move all current files (Recommended)
  - Change folder location without moving current files (Copy)
  - Use the existing files in folder (Only for reconfiguration)
 Below these options is a red warning message: **Warning: Server needs to be stopped during this operation**. At the bottom of this section are two buttons: **Change location** (disabled) and **Cancel** (red).

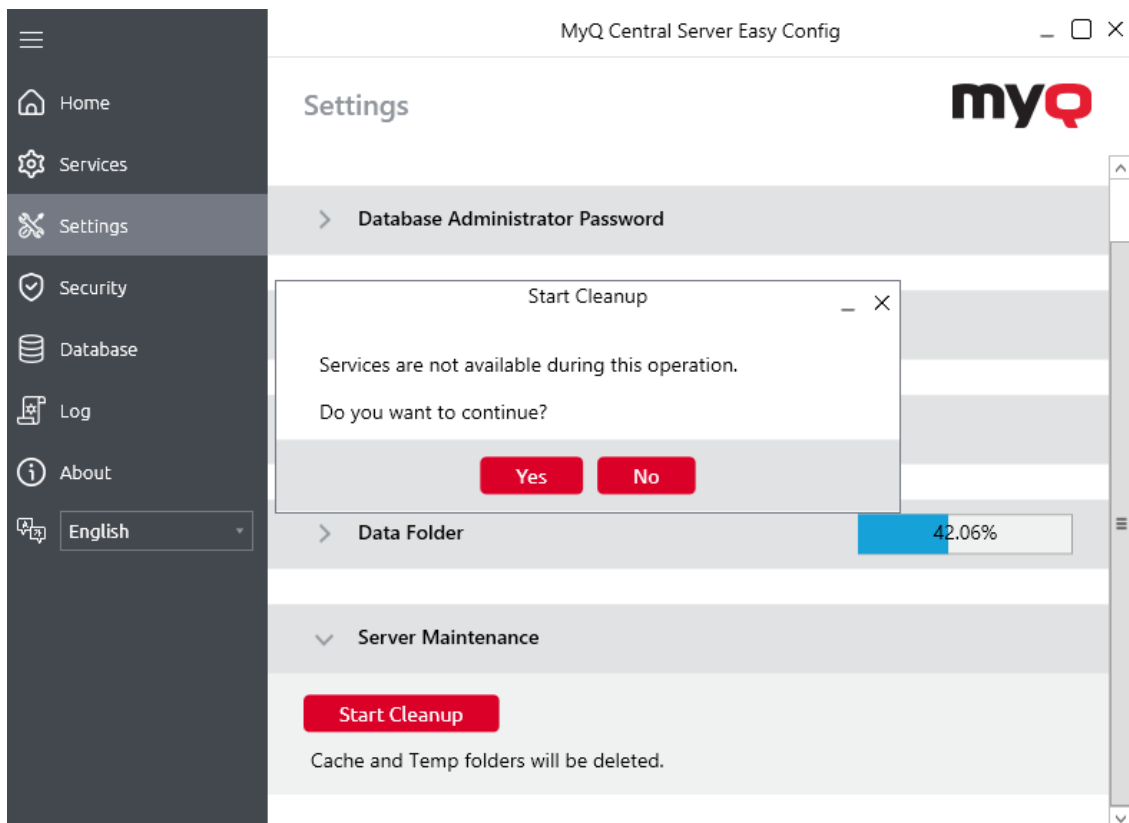
2. In the dialog box, under **New folder**, enter the path to the new folder or click **Select** to browse and find the new folder location.
3. Under **Change Operation**, select the required method of existing data relocation, and then click **Change Location**. The folder is moved to the new location.

**!** If you relocate your Data folder to a network drive, be aware that Apache or Firebird service cannot access network drives created by the Administrator or other users. The network drive needs to be created by the "**nt authority\system**" user. You can do this using this guide: <https://stackoverflow.com/questions/182750/map-a-network-drive-to-be-used-by-a-service/4763324#4763324> or it should work when you mount the drive on Windows startup.

### 5.3.5 Server Maintenance

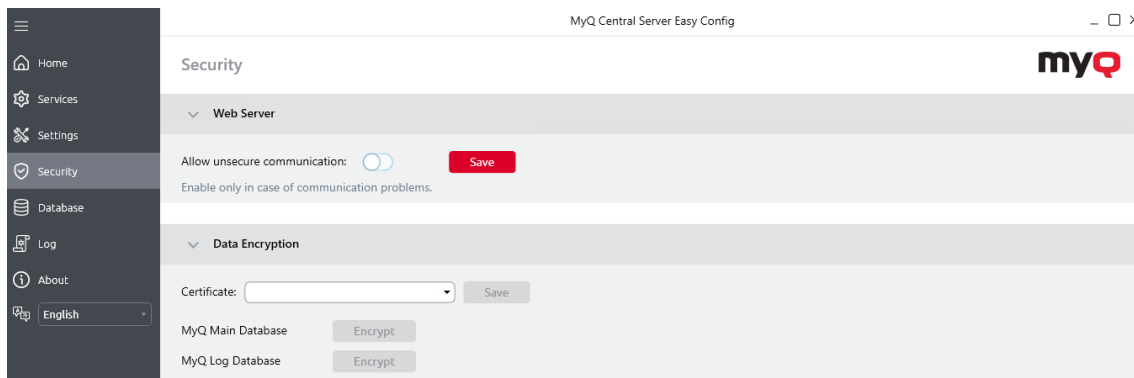
In the **Server Maintenance** section of the **Settings** tab, you can clean up your Cache and Temp folders. This might be necessary in cases when problems with the temporary files affect the MyQ system.

To delete the two folders, click **Start Cleanup**. A pop-up window informs you that services are not available during the cleanup. Click **Yes** to continue or **No** to cancel.



A busy indicator window lets you follow the cleanup process, and informs you when it ends.

## 5.4 Security



### 5.4.1 Web Server

In the **Web Server** section, you should enable **Allow insecure communication** only in case of communication problems.

## 5.4.2 Data Encryption

In the **Data Encryption** section, for better security, you can encrypt the main database, the log database, and print jobs using a certificate. MyQ does not provide these certificates. You should install and use your own. The certificate used for the encryption needs to have the “Encrypting File System” Enhanced Key Usage (EKU) and it must be located in one of the following computer certificate stores:

- Personal
- Trusted Publishers
- Third-Party Root Certification Authorities
- Other people

Once installed, it will be visible in the **Certificate** drop-down.

This functionality is only available for MyQ Embedded Databases. If you have an SQL Server, this section for encryption/decryption is not displayed.

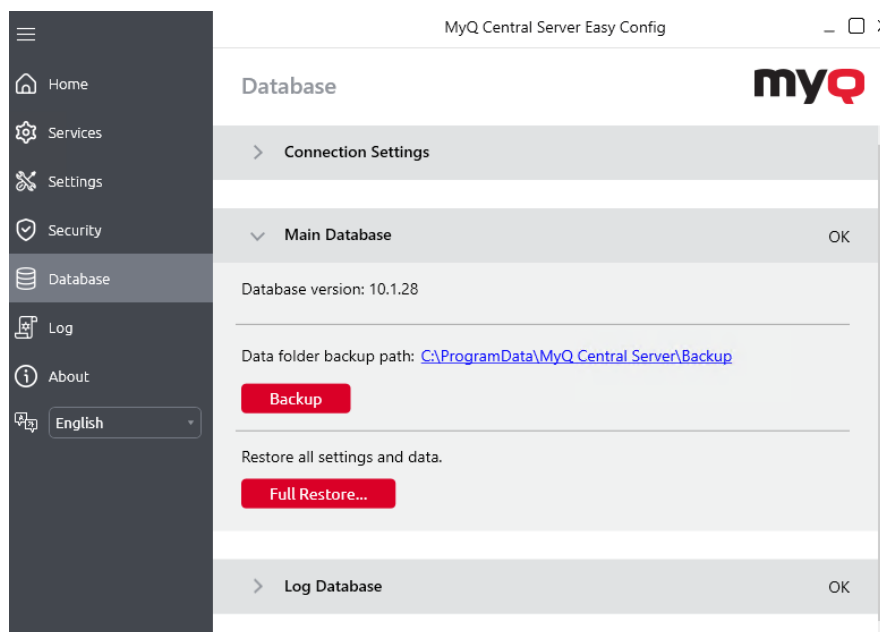
Click **Encrypt** next to **MyQ Main Database**, **MyQ Log Database**, or **Scan Jobs**.

During the encryption, other services will not be available. A busy indicator will let you follow the encryption/decryption process:

After the encryption, the **Encrypt** button will change to **Decrypt** so you can reverse the action.

## 5.5 Database

On the **Database** tab, you can change the database connection settings, check the main and log database's status, and perform backup and recovery. You can also see information about the current version of the database, available updates, and also a warning in case there is a need for an upgrade.



### 5.5.1 Backing up MyQ data

To back up your MyQ data:

1. Open the **Database** tab.
2. In the **Main Database** section, click **Backup**.
3. Provide and confirm a password to protect the backup. If skipped, the backup will be created unprotected.

Backup Data

Provide a password to protect the backup:

••••••

Confirm the password:

••••••

OK Cancel

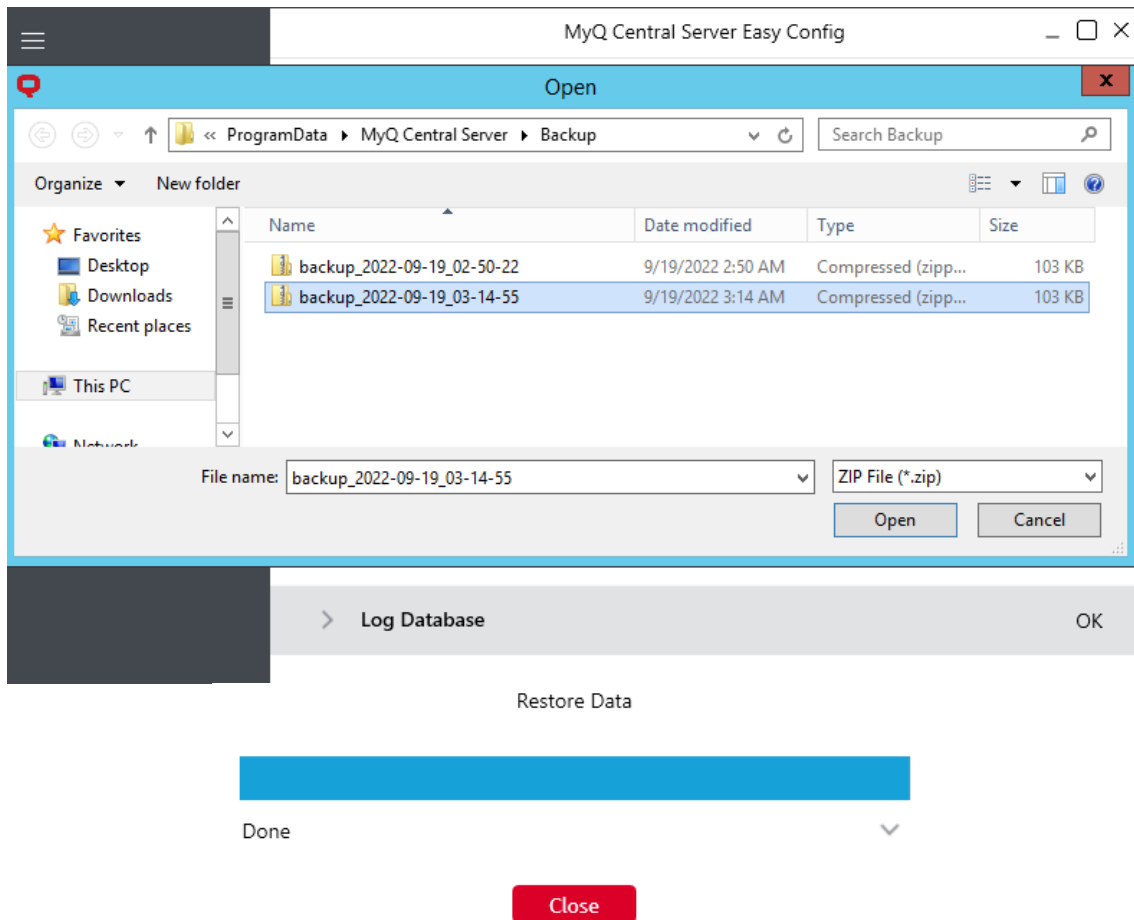
4. A new backup file is created, called *backup\_\*.zip*. Depending on the database type, the *backup\_\*.zip* either does or does not contain the MyQ database file (MyQ.FDB): the MyQ Embedded database is part of the folder, whereas the SQL database is stored on the SQL server. Besides the MyQ database, the folder contains additional files with data used by the MyQ system, such as reports, certificates, the *metadata.backup* file or the *config.ini* file.

### 5.5.2 Restoring MyQ Data

To restore your MyQ data:

1. Open the **Database** tab.
2. In the **Main Database** section, click **Full Restore...** Select the *backup\_\*.zip* file to restore MyQ Data, and click **Open**. If the backup is password protected, there is a prompt to provide the password. The database is restored and, if needed, upgraded as well.





### 5.5.3 Database Connection Settings

In the Connection Settings section, you can view database information, such as the name, server address, server port, username, and password. If you click **Edit**, you can set up a new MyQ Embedded database or an SQL database. This change is only available if you selected the MyQ Embedded database during the installation.

## 5.6 Log

The **Log** tab of Easy Config allows you to view all operations being executed by the MyQ system. These can be filtered by **Field**, **Date**, **Type**, and **Subsystem**.

MyQ Print Server Easy Config
⌵ □ ×

- Home
- Services
- Settings
- Security
- Database
- Log
- About
- English

### Log

Filters

Auto-refresh:

All Fields:

From:

To:

Type: Unselect All

- Critical
- Error
- Warning
- Info
- Notice
- Debug
- Trace

Subsystem: Unselect All

- CLI
- Cluster
- Direct Print
- EasyConfig
- Ftp Server
- General
- General (Plugin)
- HP Terminal

Apply

Date and time	Subsystem	Context	Text	File	Line
3/13/2024 10:15:53 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:50 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:49 AM	General		OUT   CoreServices_CoreServiceSendMail:send	\\WsPlatform\Plu	84
3/13/2024 10:15:49 AM	General		IN   CoreServices_CoreServiceSendMail:sendQ	\\WsPlatform\Plu	39
3/13/2024 10:15:47 AM	Web Service	127.0.0.1   id=9196	OUT: POST /api/v3/terminals/heartbeat   status		0
3/13/2024 10:15:47 AM	Platform	127.0.0.1:57275	OUT   TerminalManager:heartbeatBulk   Oms	\\WsPlatform\Plu	84
3/13/2024 10:15:47 AM	Terminal	term=868   ip=10.14	Heartbeat   idle=yes   interactiveUser=null   job	\\PrintServerPlugir	116
3/13/2024 10:15:47 AM	Platform	127.0.0.1:57275	IN   TerminalManager:heartbeatBulk	\\WsPlatform\Plu	42
3/13/2024 10:15:47 AM	Web Service	127.0.0.1   id=9196	IN: POST /api/v3/terminals/heartbeat   body={}		0
3/13/2024 10:15:47 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:44 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:41 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:38 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:37 AM	Printer Status Checke	RICOH IM C3010_3	Status updated in 39ms	\\PrintServerPlugir	195
3/13/2024 10:15:37 AM	Supplies	printerId=868	Setting supply levels.	\\PrintServerPlugir	127
3/13/2024 10:15:37 AM	Printer Status Checke	RICOH IM C3010_3	Event raised   name=tasks.queueEmpty.psc/rea		0
3/13/2024 10:15:37 AM	Printer Status Checke	RICOH IM C3010_3	Status read in 32ms	\\PrintServerPlugir	44
3/13/2024 10:15:35 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:35 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:32 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:29 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:26 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:23 AM	Direct Print		Checking new direct print jobs	\\PrintServerPlugir	104
3/13/2024 10:15:19 AM	General		OUT   CoreServices_CoreServiceSendMail:send	\\WsPlatform\Plu	84
3/13/2024 10:15:19 AM	General		IN   CoreServices_CoreServiceSendMail:sendQ	\\WsPlatform\Plu	39
3/13/2024 10:15:17 AM	Web Service	127.0.0.1   id=3626	OUT: POST /api/v3/terminals/heartbeat   status		0
3/13/2024 10:15:17 AM	Platform	127.0.0.1:57256	OUT   TerminalManager:heartbeatBulk   Oms	\\WsPlatform\Plu	84
3/13/2024 10:15:17 AM	Terminal	term=868   ip=10.14	Heartbeat   idle=yes   interactiveUser=null   job	\\PrintServerPlugir	116
3/13/2024 10:15:17 AM	Platform	127.0.0.1:57256	IN   TerminalManager:heartbeatBulk	\\WsPlatform\Plu	42

## 6 MyQ Central Web Interface

This topic describes the MyQ Central Web Interface where you manage most of MyQ functions. It shows you how to access the web interface and the two menus where you can access all settings and functions on the web interface: the **Main** menu, and the **Settings** menu. Furthermore, it describes the web interface's **Home** dashboard and shows you how to perform the initial MyQ setup. The last two sections introduce two MyQ logs: the **MyQ Log** and the **MyQ Audit Log**.

The screenshot displays the MyQ Central Web Interface Home dashboard. At the top, there is a navigation bar with the MyQ logo, 'Central Server', and 'Home' tabs. Below the navigation bar, there are several utility buttons: 'Add Widget...', 'Generate Support Data...', 'Refresh', 'Tools', 'Theme', and 'Log out'. The main content area is divided into several sections:

- Quick Setup Guide:** A list of setup steps with progress indicators:
  - License:** Enter license (indicated by a right arrow).
  - Administrator e-mail – DONE:** Administrator e-mail: admin@email.com (indicated by a green checkmark).
  - Password for communication – DONE:** Edit (indicated by a green checkmark).
  - Outgoing SMTP server:** Configure the outgoing SMTP server (indicated by a right arrow).
  - Users – DONE:** Number of users: 1. Import users | Add users manually (indicated by a green checkmark).
- System Status:** A summary of system metrics:
  - Users: 1
  - Printers: 0
  - Sites: 0
  - Last replicated data: -
  - Uptime: -
  - Recent warnings: 0
  - Recent errors: 0
- License:**
  - Version: 10.1 BETA2
  - Status: No license (indicated by a warning icon)
  - Manage license
- Total Pages (last 30 days):** A line chart showing activity from September 20 to October 17. The Y-axis represents the number of pages (0 to 1.0). The X-axis shows dates. The chart shows zero activity for Prints (blue), Copies (grey), and Scans (red) throughout the period.

### 6.1 Accessing the MyQ Central Web Interface

To access the MyQ Central Web Interface, you need to open it in your web browser and log in as an administrator:

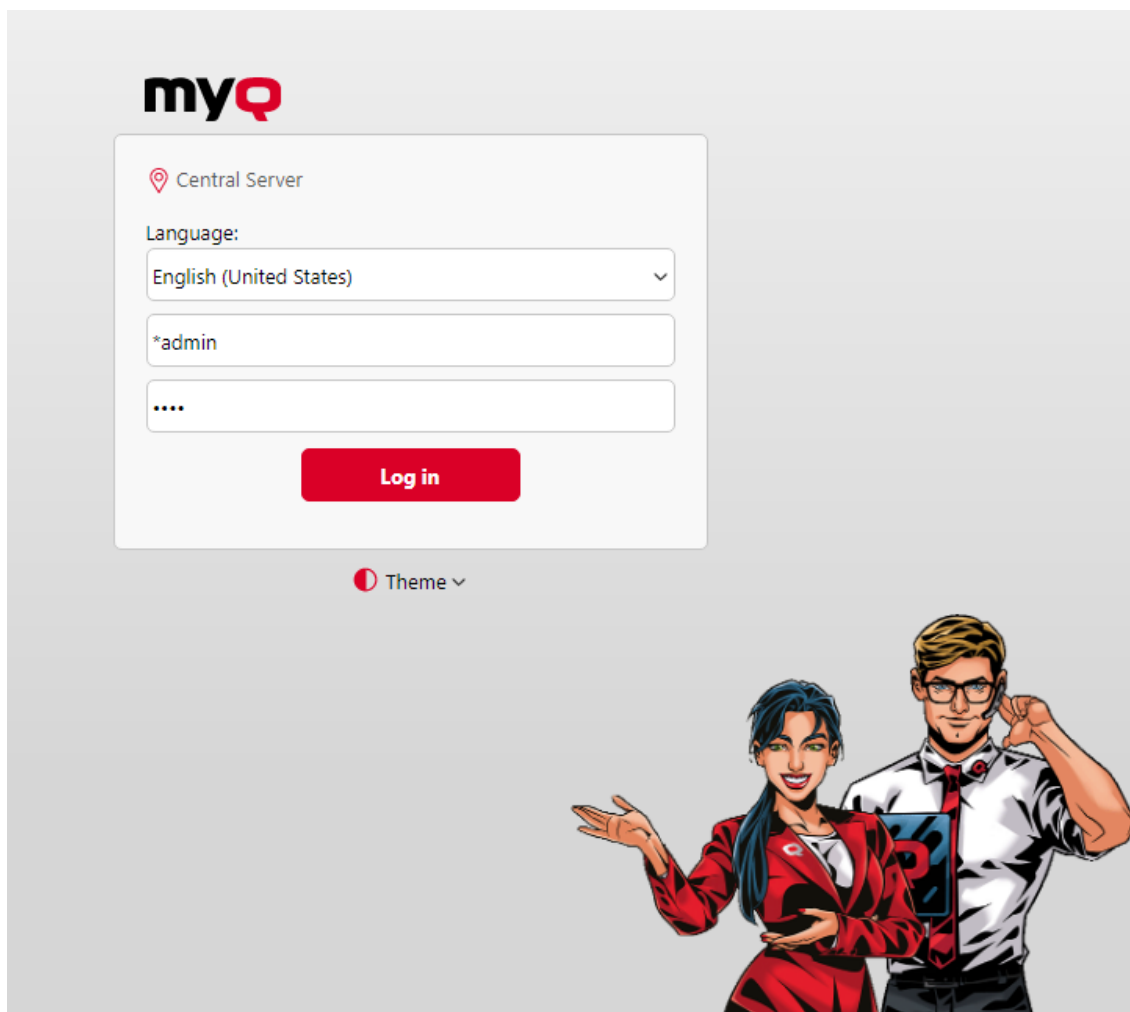
There are three ways to open the MyQ Central Web Interface:

1. Open your web browser, and then enter the web address in the form: `https://*MyQCentralserver*:8093`, where *MyQCentralserver* represents the IP address or the host name of your MyQ Central server, and *8093* is the default port for access to the server.

2. Log on to the interface from the MyQ Central Easy Config application, by clicking the *MyQ Web Administrator* link on the **Home** tab, in the **MyQ Web Administrator** section.
3. Open the MyQ Central Web Administrator application. You can find this application on the Apps screen in Windows 8.1+, Windows Server 2012 and newer.

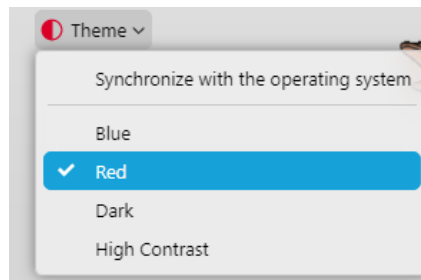
## 6.2 Logging in as an administrator

Enter the MyQ administrator name (*\*admin*) and the password that you have set in the MyQ Central Easy Config application, and then click **Log In**. If you have not changed the default password yet (not recommended), enter the default one: *1234*.



In the drop-down at the top of the login window, you can select your preferred language.

Before logging in, you can click **Theme** to choose the theme for the interface. The options are: *Synchronize with the operating system, Blue, Red (default), Dark, High Contrast*.



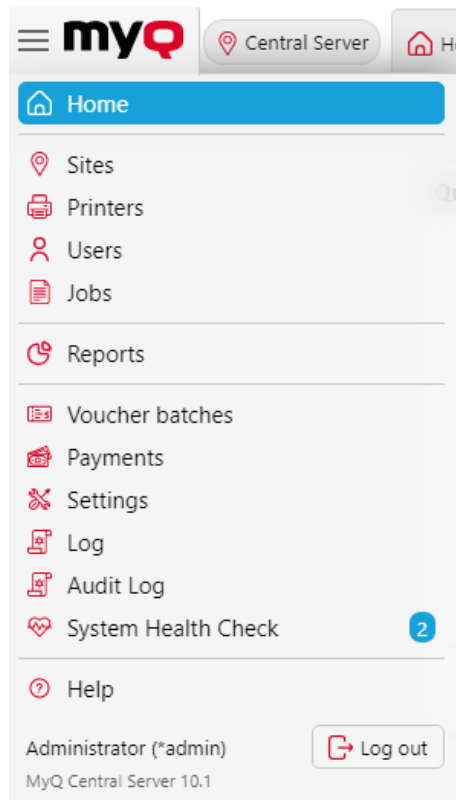
## 6.3 Main menu and Settings menu

There are two menus where you can access all the features and settings of the MyQ Central server: the **Main** (MyQ) menu and the **Settings** menu.

In this guide, all the tabs accessed from the Main menu, except for the **Home** screen and **Settings** menu, are called main tabs, as opposed to settings tabs that are accessed from the **Settings** menu.

### Main menu

To open the **Main** menu, click the MyQ logo at the upper-left corner of the screen. From there, you can access the **Home dashboard**, the **Settings** menu, and a number of tabs where you can manage and use MyQ functions.



### Settings menu

To open the **Settings** menu, click **Settings** on the **Main** menu.

The tabs that are accessed from the **Settings** menu serve for the global setup of the MyQ Central server.

## 6.4 Home Dashboard

On the **Home** dashboard, you can perform the initial MyQ setup. After the setup, you can use the dashboard to directly access MyQ key features, to display statistics and to generate data for support.

The dashboard is fully adjustable; it consists of multiple building blocks (widgets) that can be added and removed from the screen. You can use the blocks to customize both the layout and functionality of the dashboard.

By default, there are six widgets on the dashboard: **Quick Setup Guide**, **System Status**, **Total Pages (last 30 days)**, **Environmental Impact**, **Updates**, and **License**.

The **Quick Setup Guide** walks you through the initial MyQ setup.

In the **System Status** widget, you can see the following system status information:

Name	Description
<b>Users</b>	Number of active users. Clicking opens the <b>Users</b> page overview.

Name	Description
<b>Printers</b>	Number of printers where the status is not: Local, replicated or deleted. Cached every 15 seconds. Clicking opens the <b>Printers</b> page.
<b>Sites</b>	Number of active MyQ Site servers. Clicking opens the <b>Sites</b> page.
<b>Last replicated data</b>	Shows when data were last replicated.
<b>Uptime</b>	MyQ system uptime, in hours.
<b>Recent warnings</b>	Number of warning log messages over the last 24 hours. Cached every 60 seconds.
<b>Recent errors</b>	Number of error and critical log messages over the last 24 hours. Cached every 60 seconds.

In the **Total Pages (last 30 days)** widget, you can see a graph of the prints, copies, and scans in the last 30 days.

The **Environmental Impact** widget shows your environmental impact in Trees, CO<sub>2</sub>, and Energy.

*1 tree = 8333 pages / 1 page = 12.7g of CO<sub>2</sub> / 1 page = 48Wh of energy / 1 recycled page = 32Wh of energy*

The **Updates** widget shows available updates for the MyQ installation and its components (terminal packages). To get the updates status, a valid license needs to be added to MyQ. Once a license is added, the MyQ administrator (or a user with the Manage settings rights) may see the following:

- **LATEST** - the currently installed version is the latest one
- **UPDATE AVAILABLE** - there is a newer version in this branch
  - e.g. *MyQ 10.1 patch 1* will show that *MyQ 10.1 patch 2* is available
  - e.g. *10.2 BETA* will show that *10.2 BETA 2* is available
  - e.g. Terminal 8.2 patch 23 will show the latest patch released for that 8.2 Terminal
- **DEPRECATED** - this version is not being updated anymore, an upgrade path is recommended

- Shown currently only for Server components - Print and Central Server, not Terminal Packages.

In the event that a license has been installed, the update information may not be immediately downloaded and displayed in the widget. If there is no information about updates, the "**Check now**" button is displayed in the widget. The administrator can manually initiate the retrieval of update information using this button.

The "**Check now**" button is only displayed if a license is installed. Without a license, the widget displays the message "*Insert a license to get Update status*".

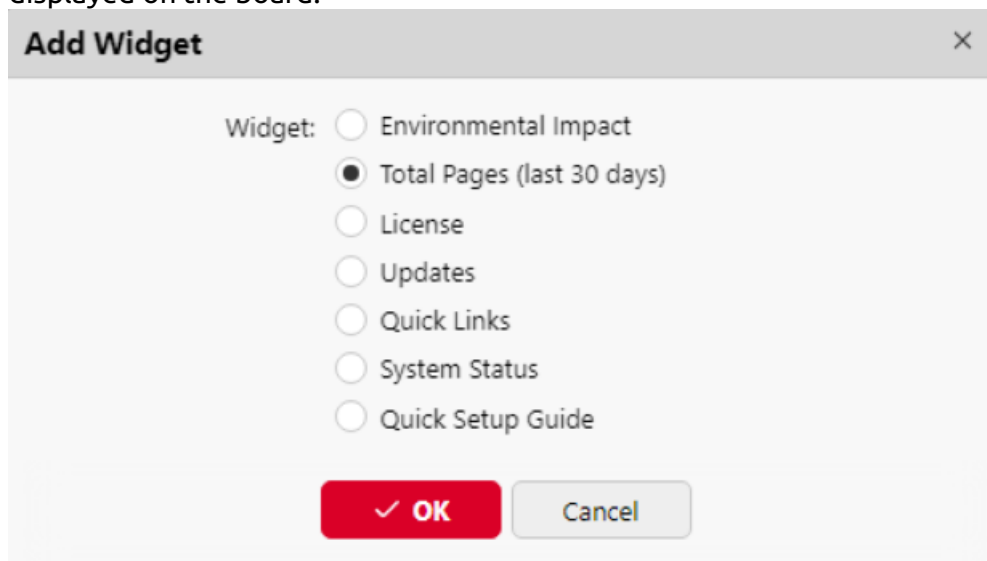
If the server is offline or there are any errors, a warning is displayed on the widget.

The **License** widget shows license information and can redirect you to the [License](#) settings tab.

### Adding new widgets and moving widgets on the dashboard

To add a new widget:

1. Click **Tools** at the top-right corner of the dashboard and select **Add Widget**. The Add Widget pop-up window appears.
2. In the pop-up, select the widget, and then click **OK**. The new widget is displayed on the board.



To move widgets, drag and drop them on the board.

To delete widgets, click on the three dots at the top-right corner of the widget, and click **Remove**.

Select **Default layout** in the **Tools** menu, to restore the dashboard to its default layout.

### Changing the theme



To change the MyQ Web Administrator's interface theme, click on **Theme** at the top-right corner of the dashboard. The available options are:

- Synchronize with the operating system
- Blue
- Red (default)
- Dark
- High Contrast

## 6.4.1 Quick Setup Guide

On the **Quick Setup Guide** widget, you can set the basic and most important features of the MyQ system:

### License

Click **Enter License**. The **License** settings tab opens. You are asked to enter information about your installation and enter your installation key.

The screenshot shows the MyQ Central Web Interface with the 'Settings: License' tab selected. The sidebar on the left lists various settings categories: License, General, Personalization, Task Scheduler, Network, Connections, Authentication Servers, Printers, Users, User Synchronization, Rights, Accounting, Credit, and Data replication from sites. The main content area is titled 'License' and contains the following form fields:

- Company: \*
- Person: \*
- Address: \*
- Country: \* [empty]
- Email: \*
- Phone:

Fields marked by \* are mandatory.

Below the form fields, there is a section titled 'Enter the installation key' with a text area for the 'Installation key:'.

A red 'Save' button is located at the bottom of the form.

At the bottom of the page, there is a link: 'To get MyQ Central Server SMART license for free register at [MyQ Community portal](#)'.

### Administrator email

By clicking **Enter the administrator's email**, you open the **General** settings tab, where you can set the administrator email. Important system messages (disk space checker warnings, license expiration etc.) are automatically sent to this email.

### Password for communication

To communicate with your site servers you must set a password. By clicking **Enter the password**, you open the **General** settings tab, where you can set the password for network communication, in the **Security** section.

### Outgoing SMTP server

By clicking **Configure the outgoing SMTP server**, you open the **Network** settings tab, where you can set the outgoing SMTP server.

### Users

- By clicking **Add users manually**, you open the **Users** main tab, where you can manually add users.
- By clicking **Import users**, you open the **User Synchronization** settings tab, where you can import users from LDAP servers, an MS Azure source or from a CSV file.

## 6.4.2 Generate data for support

In case you encounter a problem that requires help from the MyQ support team, you may be asked to provide more information about your MyQ system configuration, licenses, printer devices, terminals, etc. In such case, you need to generate a *MyQ-helpdesk.zip* file, which contains multiple files with all the necessary information, and send it to the MyQ support team.

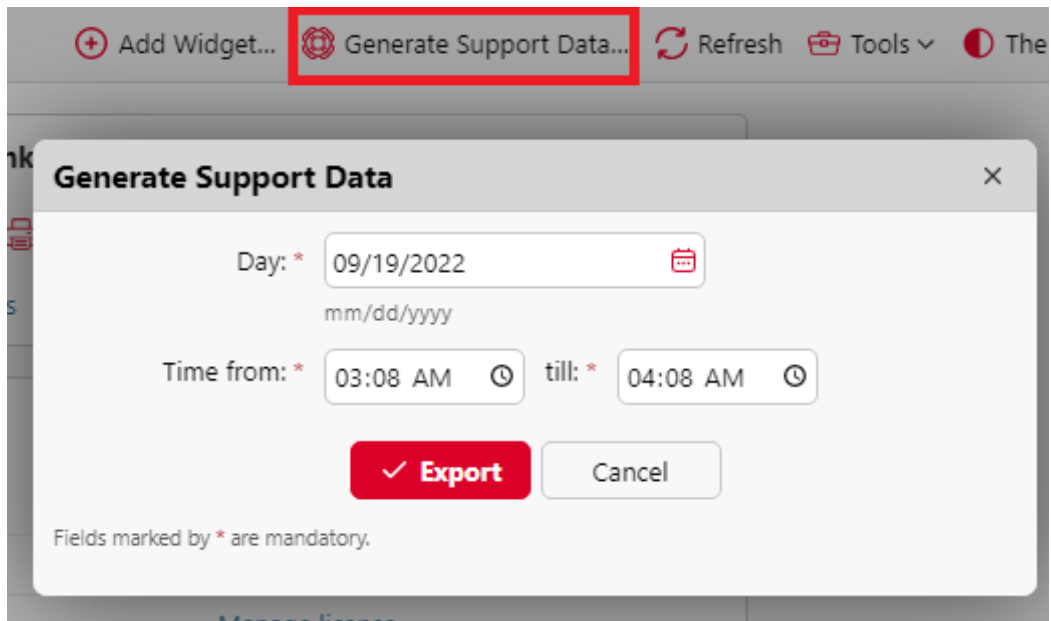
The *.zip* file contains:

- the Logs folder with error logs from Apache and PHP,
- the MyQ log file *log\_dateandtime.xlsx*,
- the Windows Event log,
- the *statsData.xml* file,
- and the *MyQ-helpdesk.xml* file with MyQ system information.

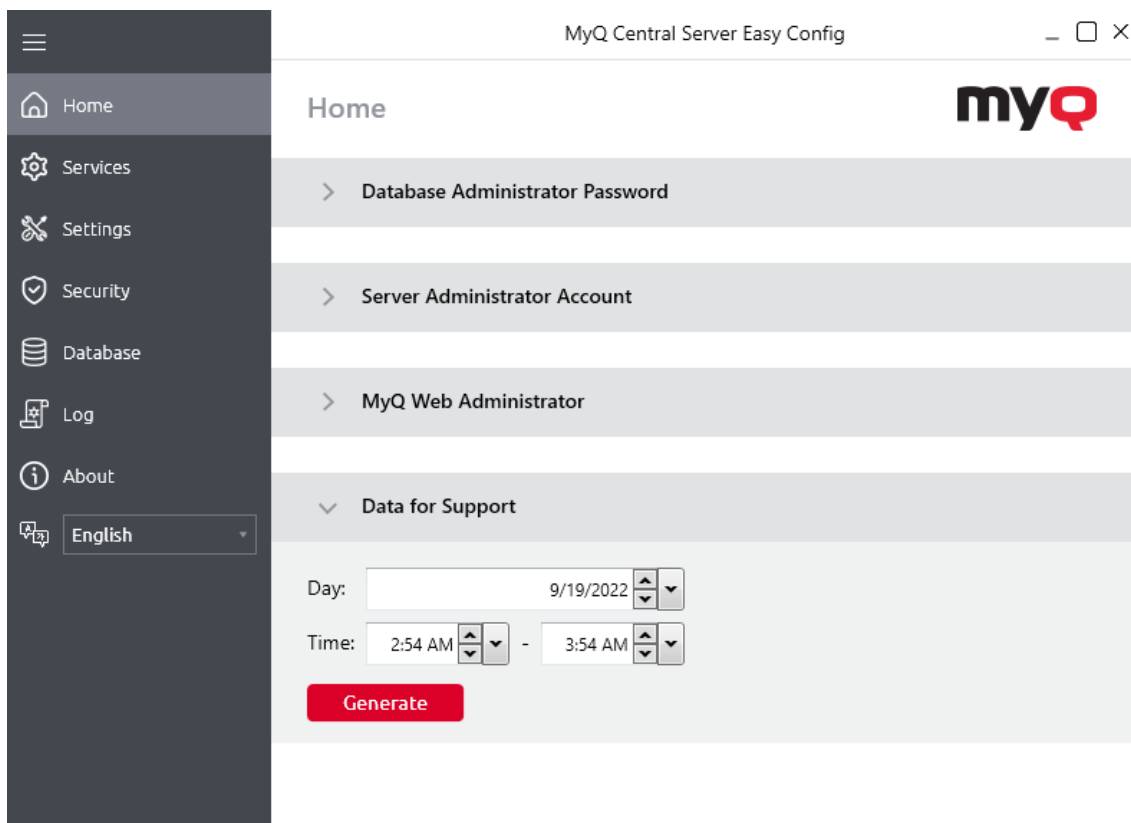
The MyQ log file corresponds to the MyQ log that can be displayed on the MyQ Central Web Interface or in the MyQ Central Easy Config application, and contains attachments with detailed information.

To generate the *MyQ-helpdesk.zip* file:

1. Click **Generate Support Data** on the bar at the top of the **Home** dashboard. The Generate Support Data dialog box appears.
2. In the dialog box, specify the **Day** and the exact **Time** span of the MyQ events to include in the *MyQ-helpdesk* file, and then click **Export**. The file is generated and saved to your *Downloads* folder.



You can also generate data for support in the MyQ Central Easy Config application. In the **Home** tab, under the **Data for Support** section, set the **Date** and **Time** for the data, and click **Generate**. The file is generated and you can select where to save it.



## 6.5 MyQ Log

In the MyQ Central server log, you can find information about all parts of the MyQ Central server: the MyQ Central server, MyQ Web UI, etc. Log messages are sorted into these types *Critical*, *Error*, *Warning*, *Info*, *Notice*, *Debug*, *Trace* and you can select the types that you want to be displayed.

You can also set the log to display only messages informing about specific MyQ subsystems, such as the Web UI, Replicator or Schedulers, and also about a specific context, for example Email sender or Disk space checker.

Date:	Time	Type	Subsystem	Context	Text	File
	09/19/2022 4:04:03 AM	Notice	Scheduler	Email creator	System Health Check did not find any new issue.	
	09/19/2022 4:04:03 AM	Notice	Scheduler	System Health Check, id=-63	Executing scheduled task: System Health Check	
	09/19/2022 3:54:18 AM	Notice	WebUI		Login success: "admin"	
	09/19/2022 3:54:03 AM	Notice	Scheduler	System Health Check, id=-63	System Health Check did not find any new issue.	
	09/19/2022 3:54:02 AM	Notice	Scheduler	System Health Check, id=-63	Executing scheduled task: System Health Check	
	09/19/2022 3:53:53 AM	Notice	General		Feature manager recalculated	
	09/19/2022 3:53:52 AM	Info	Platform		MyQ Central booted   time=5s	\\WsPlatform\Platform\Platfor...
	09/19/2022 3:53:52 AM	Notice	Platform		Starting Metrics Monitor	\\WsPlatform\Platform\Platfor...
	09/19/2022 3:53:52 AM	Notice	Platform		SnapScan payment provider is not enabled	
	09/19/2022 3:53:52 AM	Notice	General		License recalculated	\\Licenses\Licenses\LicenseMan...
	09/19/2022 3:53:51 AM	Notice	Platform		HW CODE #3: 31720ED7ED8FA008E322186FA9B6372AFE[33E0E191803E9B666826D8C906D8D811]...	\\Licenses\HwCode\HwCode.cp...
	09/19/2022 3:53:51 AM	Notice	Platform		HW CODE #3: 31720ED7ED8FA008E322186FA9B6372AFE[33E0E191803E9B666826D8C906D8D811]...	\\Licenses\HwCode\HwCode.cp...
	09/19/2022 3:53:50 AM	Trace	Platform		OUT   MessagingClient:startService   11ms	\\WsPlatform\Plugins\ServiceP...
	09/19/2022 3:53:50 AM	Trace	Platform		OUT   EventDispatcher:attachEventHandler   0ms	\\WsPlatform\Plugins\ServiceP...
	09/19/2022 3:53:50 AM	Trace	Platform		IN   EventDispatcher:attachEventHandler	\\WsPlatform\Plugins\ServiceP...
	09/19/2022 3:53:50 AM	Info	Platform	Messages	Messages\WebSocket server started   port=8085	\\WsPlatform\Messages\WebSoc...
	09/19/2022 3:53:50 AM	Trace	Platform		IN   MessagingClient:startService	\\WsPlatform\Plugins\ServiceP...
	09/19/2022 3:53:50 AM	Trace	Platform		OUT   Messages:startService   23ms	\\WsPlatform\Plugins\ServiceP...
	09/19/2022 3:53:50 AM	Notice	Platform	Messages	Messages starting   port=8085   sources=2	\\WsPlatform\Messages\Servic...
	09/19/2022 3:53:50 AM	Trace	Platform	Messages	OUT   Services\MessageSourceService:getTopics   21ms	\\WsPlatform\Plugins\ServiceP...
	09/19/2022 3:53:50 AM	Trace	Platform	Messages	IN   Services\MessageSourceService:getTopics	\\WsPlatform\Plugins\ServiceP...
	09/19/2022 3:53:50 AM	Trace	Platform	Messages	OUT   LicenseMessageSource:getTopics   0ms	\\WsPlatform\Plugins\ServiceP...
	09/19/2022 3:53:50 AM	Trace	Platform	Messages	IN   LicenseMessageSource:getTopics	\\WsPlatform\Plugins\ServiceP...

The log is updated in real time, but you can pause it and select to show messages from a specific time period, such as yesterday, this week, last week, last X hours, last X weeks, etc.

### Opening the MyQ Log

On the MyQ Web User Interface, go to **MyQ**, **Log**, or on the **Home** dashboard, click **Log** on the **Quick links** widget.

### Pausing/Refreshing the log

To pause or resume the real time run of the log, click **Watch live** on the bar at the top of the **Log** tab. To refresh the log up to the current moment, click **Refresh** on the same bar.

### Filtering the log: selecting time period, types of information, subsystem or context

You can filter the log on the panel:

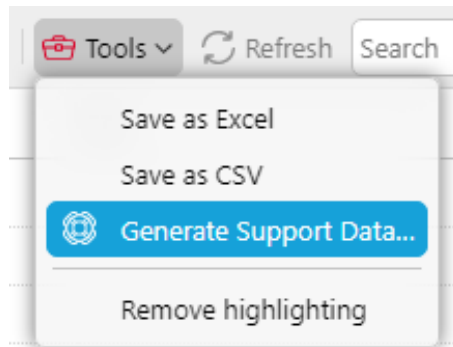
- After you pause the log, you can select the period in the **Date** combo box.
- The types can be selected and deselected on the panel at the right side of the **Log** tab.
- On the **Subsystem** combo box, you can select/type one or more subsystems to be displayed in the log.
- In the **Context** text box, you can type the context you want to be displayed.

After the filters are set, click **Search** to submit them.

### Exporting the log/Generating support data

Click **Tools** on the bar at the top of the **Log** tab, and then select one of the following export options:

- **Save as Excel** — export the log as an Excel file.
- **Save as CSV** — export the log as a CSV file.
- **Generate support data** — generates a *.zip* file with multiple files for MyQ support.



### Highlighting log messages

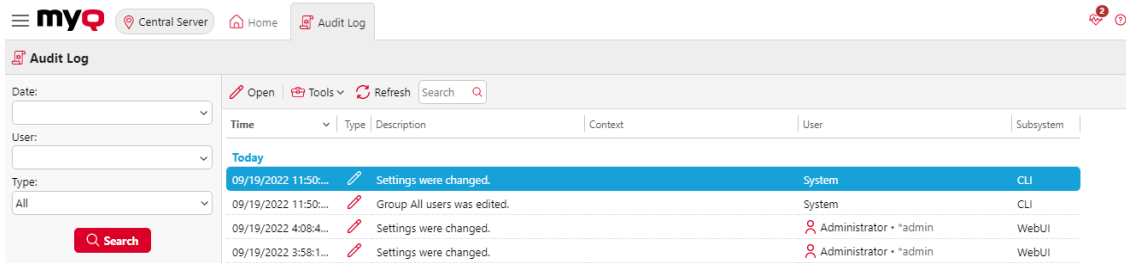
You can highlight particular log messages. To do so, select the message that you want to highlight and then press the **SHIFT + SPACE** keyboard shortcut.

Time	Type	Subsystem	Context	A...	Text
09/19/2022 4:14:03 AM	Notice	Scheduler	Email creator		System Health Check did not find any new issue.
09/19/2022 4:14:03 AM	Notice	Scheduler	System Health Check, id=-63		Executing scheduled task: System Health Check
09/19/2022 4:04:03 AM	Notice	Scheduler	Email creator		System Health Check did not find any new issue.
09/19/2022 4:04:03 AM	Notice	Scheduler	System Health Check, id=-63		Executing scheduled task: System Health Check
09/19/2022 3:54:18 AM	Notice	WebUI			Login success: *admin
09/19/2022 3:54:03 AM	Notice	Scheduler	System Health Check, id=-63		System Health Check did not find any new issue.

To remove all highlights, click **Tools** on the bar at the top of the **Log** tab, and then click **Remove highlighting**.

## 6.6 MyQ Audit Log

In the **MyQ Audit Log**, you can view all the changes of MyQ settings, along with information about who made the changes, the time when they were made and which subsystem of MyQ was affected by them.



The screenshot shows the MyQ Audit Log interface. At the top, there is a navigation bar with the MyQ logo, 'Central Server', 'Home', and 'Audit Log' tabs. Below the navigation bar, there are filters for Date, User, and Type. A table displays audit log entries with columns for Time, Description, Context, User, and Subsystem. The first entry is highlighted in blue.

Time	Description	Context	User	Subsystem
Today				
09/19/2022 11:50:...	Settings were changed.			System
09/19/2022 11:50:...	Group All users was edited.			System
09/19/2022 4:08:4...	Settings were changed.		Administrator *admin	WebUI
09/19/2022 3:58:1...	Settings were changed.		Administrator *admin	WebUI

### Opening the MyQ Audit Log

On the MyQ Web User Interface, click **MyQ**, and then click **Audit Log**.

### Filtering the Audit Log: selecting time period, user and type of event

The displayed data can be filtered by a time period, the user who made the changes and the type of the event.

To display additional information about a particular change, double-click the change. A panel with the detailed information opens on the right side of the **Audit Log** tab.

### Exporting the Audit Log

You can export the **Audit Log** by clicking **Tools** and selecting **Export**. The log is instantly generated and downloaded.

You can also select **Schedule Export** to have the log regularly exported. The schedule's properties panel open to the right, where you can set its parameters.

### Audit Log Export ✕

**General** Filters and parameters Rights

Enabled: \*

Name: \*

Description:

**▼ Schedule**

Repetition: \*

Day: \*  Monday  
 Tuesday  
 Wednesday  
 Thursday  
 Friday  
 Saturday  
 Sunday

Hours of run: \*   
hh:mm, hh, h:mm, hh am, hh p  
For multiple values, separate with a comma or semicolon

**> Notification**

**> Report**

## 7 MyQ Central System Settings

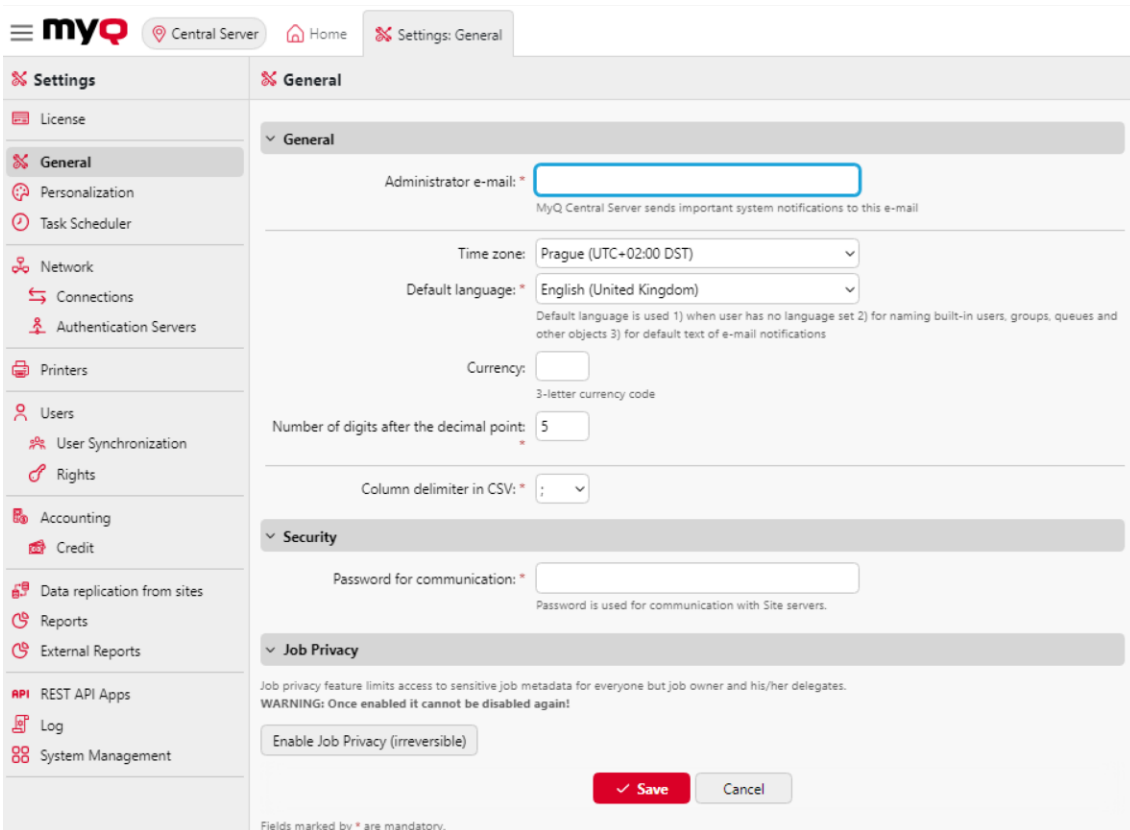
This topic discusses basic system settings of the MyQ system. The settings are located on separate tabs, accessed from the Settings menu:

- On the [General](#) settings tab, you can set the administrator email, change regional settings, and other general settings.
- On the [Personalization](#) settings tab, you can add custom help links and custom logos to be used in various parts of the MyQ system.
- On the [Network](#) settings tab, you can modify network settings such as certificates, server ports, etc.
- On the [Authentication servers](#) settings tab, you can add LDAP and Radius servers for user authentication.
- On the [Printers](#) settings tab, you can set the duration of the temporary cards validity in hours.
- On the [Task scheduler](#) settings tab, you can add new task schedules, change their settings and run scheduled tasks.
- On the [Log](#) settings tab, you can set the Log notifier feature, which enables sending notifications about selected log events to the administrator and/or any number of MyQ users.
- On the [System management](#) settings tab, you can change settings of the MyQ history, set the maximum size of files that can be uploaded on the MyQ Web Interface, delete data from the MyQ database, and also reset MyQ components to apply settings previously made on other tabs.

### 7.1 General Settings

The **General** settings tab contains the **General**, **Security**, and **Job Privacy** sections.






In the **General** section, you can set the administrator email, time zone, default language, currency, and the column delimiter in CSV files.

- **Administrator email:** The administrator email receives important system messages (disk space checker warnings, license expiration, etc.) automatically sent from MyQ.
- **Time zone:** For the proper functioning of the MyQ system, make sure that the time zone set here is the same as the time zone set in the Windows operating system. After changing the time zone, you will be asked to restart the web server.
- **Default Language:** The default language setting determines the language of all emails that are automatically sent from MyQ and the language used on all connected terminals and interactive readers.
- **Currency:** In the currency setting, you can enter the 3-letter currency code of the currency that you want to use in your pricelist.
  - The **Number of digits after the decimal point** option can be set from 0 to 5 (default is 2).
- **Column delimiter in CSV:** The column delimiter in CSV files setting determines the delimiter in source and destination files used for all the import and export operations to and from the CSV file format. The default value is based on the regional settings of your operating system.

In the **Security** section, you can set the **Password for communication** between the MyQ Central server and Site servers. The same password has to be set on your Site servers to ensure the communication between your Central server and Site servers.

In the **Job Privacy** section, you can enable the **Job privacy** feature. The Job privacy feature limits access to sensitive job metadata for everyone, except for the job owner and their delegates. If **Job Privacy** is enabled at your Central server, it will be automatically enabled on all the connected site servers.

 Once enabled, it cannot be disabled again!

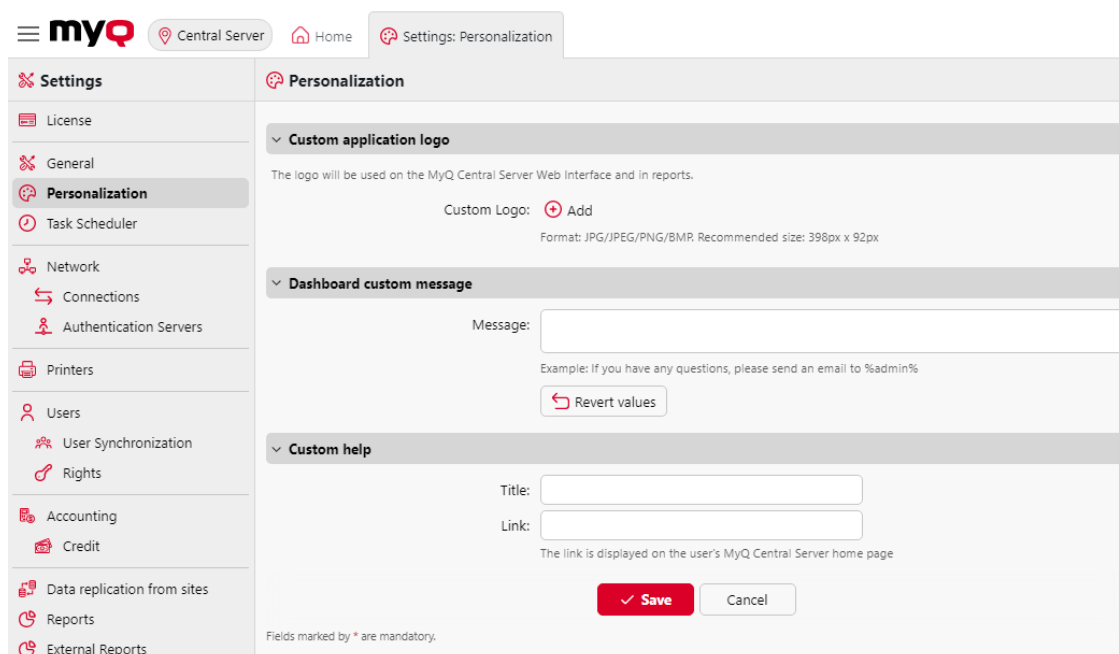
To use the feature, click on the **Enable Job Privacy (irreversible)** button.



In the confirmation pop-up, type your Server administrator password in the **Password** field, and click **Enable Job Privacy (irreversible)**.

## 7.2 Personalization Settings

On this tab, you can set a custom message to be shown on the Web accounts of MyQ users, add links to your own custom help, and custom application logos to be used in MyQ.



### Custom application logo

Here you can add your company's logo to be used in the MyQ system. The logo will appear on the upper right corner of the MyQ Web Interface, on MyQ credit vouchers, and on reports.

Supported picture formats are *JPG/JPEG/PNG/BMP* and the recommended size is *398px x 92px*.

To import the logo, click **+Add, Browse** for the file and **Open** it, and then click **Save** at the bottom of the tab. A preview of the new logo is displayed on the tab.

### Dashboard custom message

Here you can enter a message to be displayed on the MyQ users web accounts. After you change the message, click **Save** at the bottom of the **Personalization** settings tab.

The *%admin%* parameter can be used to display the email address of the MyQ administrator within the message (the Administrator email set on the [General settings](#) tab).

### Custom help

Here you can add a link to your own web based help that will be displayed as a widget on the user's MyQ home page.

To add a custom help link, enter the title and the link of your custom help, and then click **Save** at the bottom of the tab.

## 7.3 Task Scheduler Settings

The **Task Scheduler** settings tab serves as an interface for planning regular tasks in MyQ. There are seven predefined tasks:

**System health check, History deletion, Data replication from sites, System maintenance, Database and settings backup, Log backup, and User Synchronization.**

Apart from these, you can import projects from CSV files, and execute external commands.

External commands are disabled by default. To enable them, switch the **scheduleExternalCommand** parameter in the *config.ini* file from *0* (disabled) to *1* (enabled).

Status	Action	Name	Period	Last run	Next run
●	System Health Check	System Health Check	Minute	09/19/2022 4:34:03 ...	09/19/2022 4:44:00 ...
●	History deletion	History deletion	Daily	09/19/2022 2:50:19 ...	09/20/2022 3:00:00 ...
●	Data replication from sites	Data replication from sites	Daily	09/19/2022 2:50:19 ...	09/20/2022 3:00:00 ...
●	System maintenance	System maintenance	Daily	09/19/2022 2:50:20 ...	09/20/2022 3:00:00 ...
●	Schedule Backup	Database and settings backup	Daily	09/19/2022 2:50:24 ...	09/20/2022 3:00:00 ...
○	Schedule Backup	Log backup	Daily	Never	-
○	User Synchronization	User Synchronization	Daily	Never	-

### 7.3.1 Running and setting task schedules

To manually run a task schedule:

- Select the task schedule that you want to run.
- Click **Run** on the **Task Scheduler** toolbar.

Or

- Right-click the task schedule.
- Click **Run** on the shortcut menu.

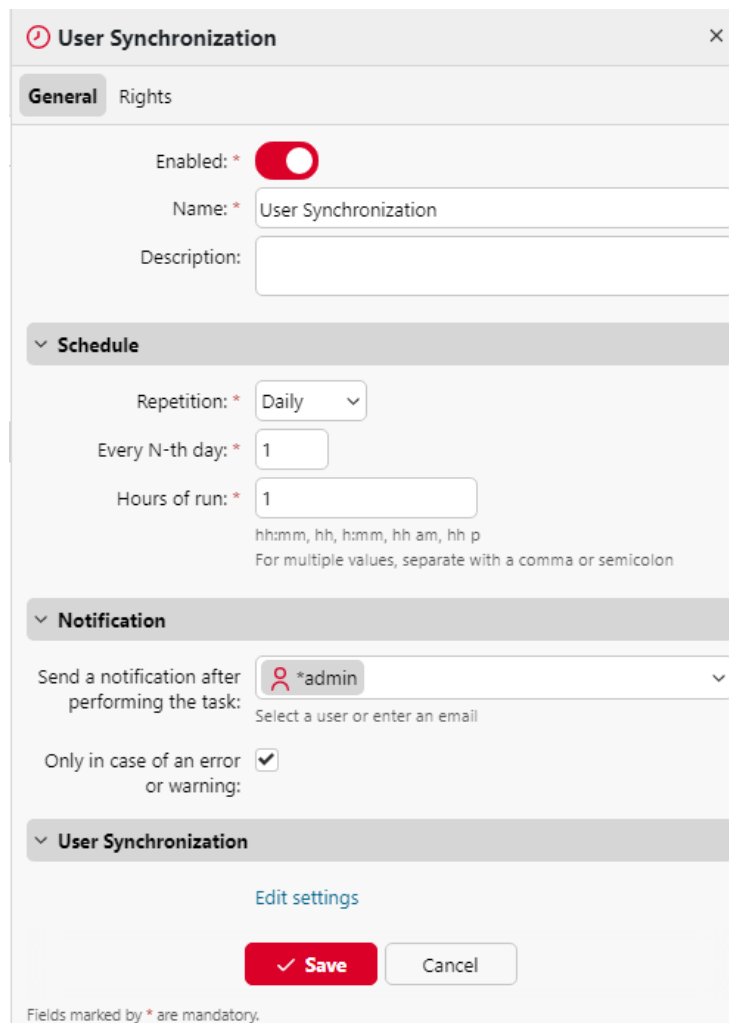
To set a task schedule:

Double-click the task schedule that you want to set (Or right-click it, and then click **Edit** in the actions shortcut menu). The respective task schedule properties panel opens on the right side of the screen.

The task schedule properties panel is divided into four sections:

- In the uppermost section, you can enable or disable the schedule, enter its **Name** and write its **Description**.
- In the **Schedule** section, you must set a period of **Repetition** for the task run and change the exact time of the task run start.
- In the **Notification** section, you can select to send an email notification. You must also choose if you want to send the notification every time or just in case of an error.
- The bottom section, if present, is particular to the type of task.

After you set the schedule, click **Save**.



**User Synchronization**

**General** Rights

Enabled: \*

Name: \* User Synchronization

Description:

**Schedule**

Repetition: \* Daily

Every N-th day: \* 1

Hours of run: \* 1

hh:mm, hh, h:mm, hh am, hh p  
For multiple values, separate with a comma or semicolon

**Notification**

Send a notification after performing the task: \*admin

Select a user or enter an email

Only in case of an error or warning:

**User Synchronization**

[Edit settings](#)

Fields marked by \* are mandatory.

### Adding a new schedule:

You can add two kinds of new schedules, related to reports: **Users export** and **Printers export**.

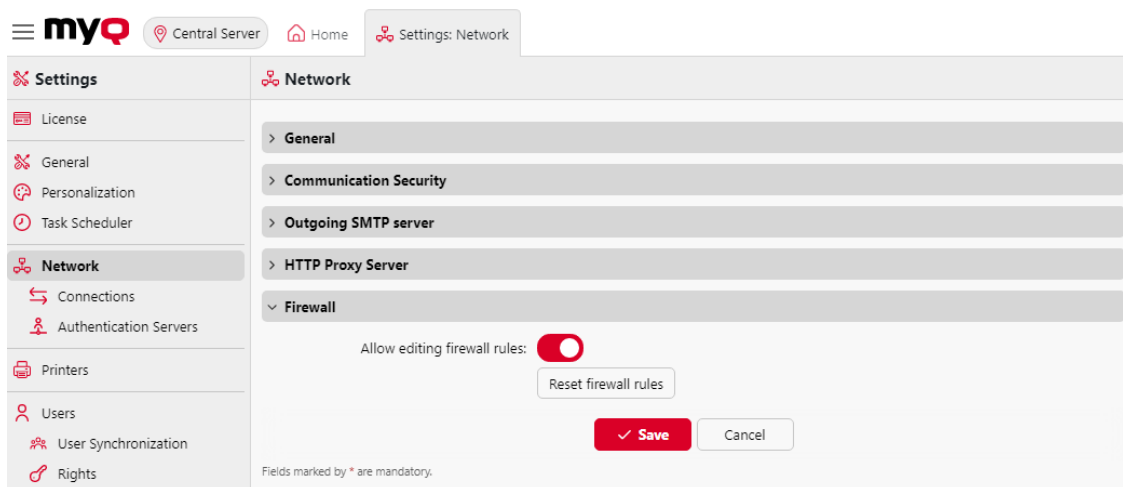
On the main ribbon, click **Add** and select **Users export** or **Printers export**. The task schedule properties panel opens on the right side of the screen and it is divided into four sections like the rest of the schedules. The last section, **Report**, is present only on these two schedules and contains the following settings:

- **Format** - Select the report's format from the list: *CSV, XLSX, ODS, XML*.
- **Language** - Select the report's language from the list.
- **All sites must be replicated** - If enabled, all sites are replicated and included in the report.
- **Send via email**
  - **Recipient** - Select the recipient from the list of users.
  - **Subject** - Type a subject for the email.
  - **Message** - Type the body of the email.
  - **Embed the report in the email body** - If enabled, the report is included in the email body.

- **Maximum email size** - Set the maximum email size from 0 to 2047 MB. If the email exceeds the set size, a secure link to the document is included instead.
- **Save to a file**
  - **File** - Set the path where the file is stored. The default path is %app%\Data\Export\Users\_%datetime%.csv where %app% is the MyQ Data folder and %datetime% is the current date and time.

## 7.4 Network Settings

On the **Network** settings tab, you can manage the network communication between the MyQ Central server and other parts of the MyQ solution. It is divided into the following sections: **General**, **Communication Security**, **Outgoing SMTP server**, **HTTP Proxy server**, and **Firewall**.



### 7.4.1 General

In this section, you can enter the hostname of the MyQ Central server. This hostname is used by external components of the MyQ system, such as the MyQ Replicator or Site servers, for communication with the MyQ Central server.

### 7.4.2 Communication Security

In this section, you can choose how your security certificates are managed.

MyQ offers three different certificate management modes:

1. **Built-in Certificate Authority** - This is the default mode for new installations. MyQ creates a self-signed CA certificate and uses it to sign server and client certificates. The public key of the CA certificate can be exported (click the **Export CA certificate** button) to install it to clients, so they trust MyQ server. It is possible to specify the **Subject Alternative Name (SAN)**, which is set as a comma separated list of domain names and/or IP addresses. In case the

certificate is compromised, click the **Generate new CA certificate** button, to generate a new one.

2. **Company Certificate Authority** - Your company CA generates an intermediate CA certificate which MyQ uses to sign certificates for the server and clients. To generate an intermediate CA certificate click **Create CSR** to create a Certificate Signing Request (CSR), sign it by your CA and click **Finish CSR** to finish CSR by importing signed certificate. If the intermediate CA certificate does not contain a CA root certificate in its chain, the administrator is prompted to upload the public key of the CA root certificate as well (the **Import CA root certificate** button appears).
3. **Manual Certificate Management** - Provide a certificate for the MyQ Server. MyQ creates no certificates; all certificates are managed by you. Click **Import Server certificate** to upload it. The certificate can be uploaded in *PEM* (public + private key separately) or in *PKIX* format. The *PKIX* format may be password encrypted. This mode is recommended only for expert users.

Communication Security

MyQ Central Server secures communication with certificates which is an industry standard. Choose how certificates are managed.

Certificate authority mode: \*

**Built-in Certificate Authority**  
Server and clients are secured by certificates generated by the built-in certificate authority (CA). The CA certificate is self-signed. Export the CA certificate and install it to clients so they trust MyQ Central Server. If the CA certificate is compromised, generate a new one. Server certificate will be regenerated automatically.

Generate new CA certificate
Export CA certificate

**Company Certificate Authority**  
Your company CA generates an intermediate CA certificate which MyQ Central Server uses to sign certificates for the server and clients. To generate an intermediate CA certificate create Certificate Signing Request (CSR), sign it by your CA and finish CSR by importing signed certificate. Server certificate will be regenerated automatically.

**Manual Certificate Management**  
Provide a certificate for the MyQ Central Server. MyQ Central Server creates no certificates, all certificates are managed by you.

---

Server alternative names:

Comma separated list of DNS names and/or IP addresses. To set new Subject Alternative Name (SAN) for MyQ Central Server generate new Server certificate. Server hostname is included automatically.

Generate new Server certificate

When upgrading an existing MyQ installation, the **Certificate Authority mode** is selected according to the existing server certificate:

- if the certificate is not CA, then the mode is set to **Manual Certificate Management**.
- if it was generated by MyQ before, then the mode is set to **Built-in Certificate Authority**.
- in other cases, the mode is set to **Company Certificate Authority**.

### 7.4.3 Outgoing SMTP server

To send email reports, send error messages to users, send automatically generated PIN to users, and forward scanned documents, you have to configure the email server where all the emails are forwarded to.

To configure the server, do the following:

Select a **Type** from *Classic SMTP Server*, *Microsoft Exchange Online* or *Gmail*.

For *Classic SMTP Server*:

1. Enter the server hostname or IP address in the **Server** text box. If the email server listens to other than the 25 TCP port, change the **Port** setting to the correct value.
2. Choose between the *Prefer StartTLS (default)*, *Implicit TLS*, and *Require StartTLS* **Security** options.
3. Optionally choose to **Validate certificate** or not.
4. If credentials are required, enter the **User** and **Password**.
5. Enter the address that you want to be displayed as the **Sender email** on PIN, alert and report messages.
6. After you enter the data, you can click **Test** to test the connection to the email server, and click **Save** to save your changes.

For *Microsoft Exchange Online*:

1. If you have already set up a Microsoft Exchange Online server in the **Connections** settings, the server is available in the **Connections** field drop-down. If not, you can click on the **Connections** field and then click **Add new** to add your Microsoft Exchange Online server connection. For more information, check [Microsoft Exchange Online Setup](#).

Outgoing SMTP Server

Type:  Classic SMTP Server  
 Microsoft Exchange Online  
 Gmail

Connections: \*

User:

Sender email: \*

2. If credentials are required, enter the **User**.
3. Enter the address that you want to be displayed as the **Sender email** on PIN, alert and report messages.
4. After you enter the data, you can click **Test** to test the connection to the email server, and click **Save** to save your changes.

For *Gmail*:

1. If you have already set up a Gmail server in the **Connections** settings, the server is available in the **Connections** field drop-down. If not, you can click on the **Connections** field and then click **Add new** to add your Gmail server connection. For more information, check [Gmail with OAuth2 Setup](#).



2. If credentials are required, enter the **User**.
3. Enter the address that you want to be displayed as the **Sender email** on PIN, alert and report messages.
4. After you enter the data, you can click **Test** to test the connection to the email server, and click **Save** to save your changes.

## 7.4.4 HTTP Proxy Server

In this section, you can set up a MyQ Proxy server which can be used for activating a license. Mandatory fields are **Server** (name) and **Port**. After changing ports, restart all MyQ services.

## 7.4.5 Firewall

In this section, you can **Allow editing firewall rules** of the Microsoft Windows Firewall and you can also **Reset firewall rules**.

## 7.5 Connections Settings

On the **Connections** settings tab, you can connect MyQ to external cloud services.

Click **Add** and select one of the following available services:

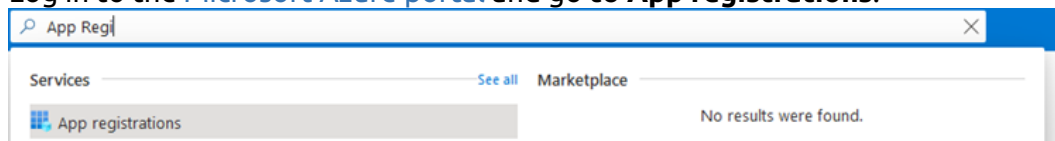
- Microsoft Exchange Online
- Gmail
- Azure AD

## 7.5.1 Microsoft Exchange Online Setup

It is first needed to set up Microsoft Exchange Online in Microsoft Azure, and then configure it in MyQ.

### Microsoft Exchange Online setup in Microsoft Azure

1. Log in to the [Microsoft Azure portal](#) and go to **App registrations**.



2. Create a **New registration**:

**App registrations** ↗

[+ New registration](#) [🌐 Endpoints](#) [🔧 Troubleshooting](#) [⬇️ Download \(Preview\)](#) | [❤️ Got feedback?](#)

3. Create an Azure application:
  - a. **Name** - The name for this application (this can be changed later). For example, *MS Exchange Online*. It is important to use the same name as the one used in MyQ under Connections.
  - b. **Supported account types** - Who can use this application or access this API? Select the *Accounts in this organizational directory only ({{Tenant name}} only - Single tenant)* option. Multitenant application can also be used if required, depending on the target audience of the application (what account will be used for authorization in MyQ).
  - c. **Redirect URI (optional)** - The authentication response is returned to this URL after successfully authenticating the user. Select the *Public client/native (mobile&desktop)* option from the drop-down and fill in <https://login.microsoftonline.com/common/oauth2/nativeclient> as the redirect URI.
  - d. Click **Register**.

## Register an application ...

### \* Name

The user-facing display name for this application (this can be changed later).

MS Exchange Online

### Supported account types

Who can use this application or access this API?

- Accounts in this organizational directory only ( [redacted] only - Single tenant)
- Accounts in any organizational directory (Any Azure AD directory - Multitenant)
- Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
- Personal Microsoft accounts only

[Help me choose...](#)

### Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Public client/native (mobile ...

https://login.microsoftonline.com/common/oauth2/nativeclient

Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).

By proceeding, you agree to the [Microsoft Platform Policies](#)

Register

- The new app overview page opens. Copy the **Application (client) ID** and the **Directory (tenant) ID**, as they are needed for the connection to MyQ.

MS Exchange Online ...

Search (Ctrl+/) < Delete Endpoints Preview features

Overview

Quickstart

Integration assistant

Manage

Branding

Authentication

Essentials

Display name : MS Exchange Online Copy to clipboard

Application (client) ID : [redacted]

Object ID : [redacted]

Directory (tenant) ID : [redacted]

Supported account types : Multiple organizations

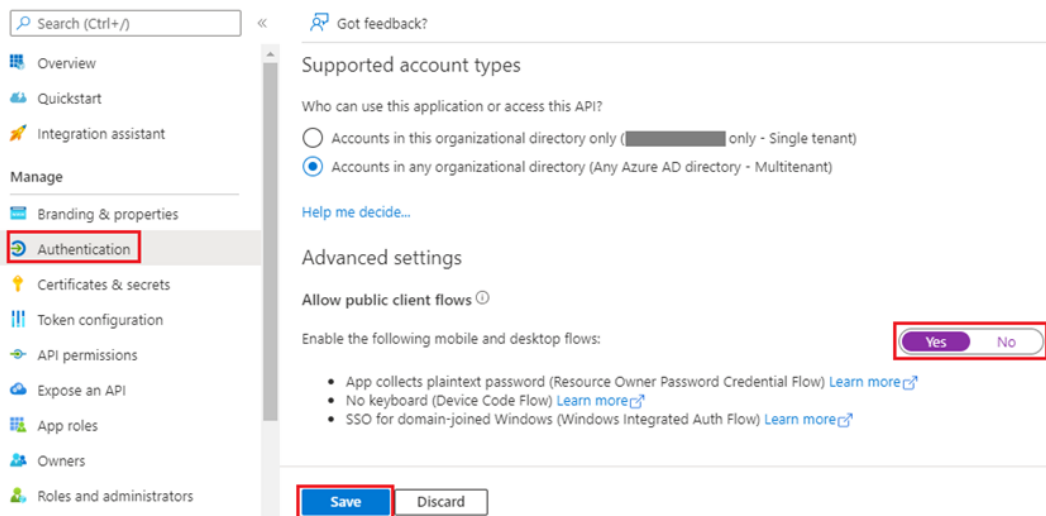
Client credentials : Add a certificate or secret

Redirect URIs : Add a Redirect URI

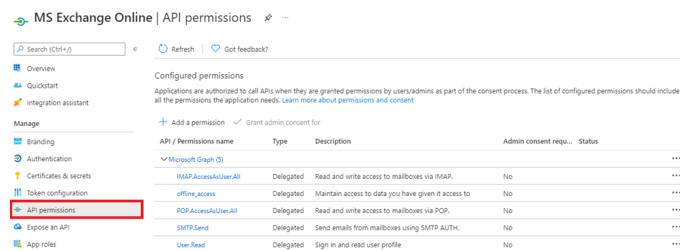
Application ID URI : Add an Application ID URI

Managed application in L... : MS Exchange Online

- On the left-hand menu, click **Authentication**. In Advanced settings, under Allow public client flows, select **Yes** next to Enable the following mobile and desktop flows, and then click **Save** at the top.

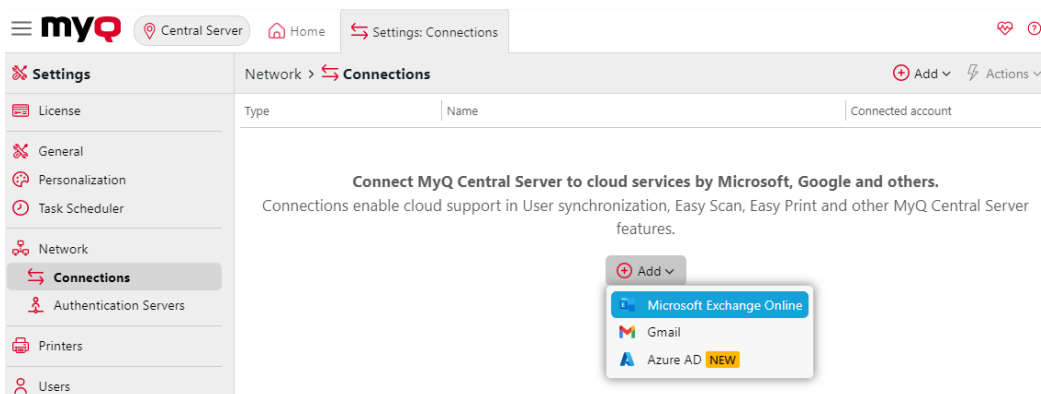


6. On the left-hand menu, click **API permissions** and add the additional permissions required for the correct functionality:
  - a. Microsoft Graph: **offline\_access** - Allows the app to see and update the data you gave it access to, even when you are not currently using the app. This does not give the app any additional permissions.
  - b. Microsoft Graph: **User.Read** - Sign in and read user profile.
  - c. Microsoft Graph: **IMAP.AccessAsUser.All** - Allows the app to read, update, create and delete email in your mailbox. Does not include permission to send mail.
  - d. Microsoft Graph: **POP.AccessAsUser.All** - Allows the app to read, update, create and delete email in your mailbox. Does not include permission to send mail.
  - e. Microsoft Graph: **SMTP.Send** - Allows the app to send emails on your behalf from your mailbox.



## Microsoft Exchange Online setup in MyQ

1. Log in to the MyQ web administrator interface, and go to **MyQ, Settings, Connections**.
2. Click **+Add** and select *Microsoft Exchange Online*.



- In the pop-up window, fill in the required fields:

- Title** - add the name you chose during App registration in MS Azure; for example, *MS Exchange Online*.
  - Client ID** - the **Application (client) ID** you copied during the MS Azure setup.
  - Tenant ID** - the **Directory (tenant) ID** you copied during the MS Azure setup.
- Click **OK**.
  - After setting up the connection in MyQ, you are requested to confirm a **code** through the Microsoft website (<https://microsoft.com/devicelogin>). The code you need to confirm is shown in the pop-up window, just below the link to the Microsoft website. There is timeout for confirming the code (usually it is 15 minutes).



**The email functionality will not work until the confirmation is successfully completed.**

***This confirmation must be done with the Microsoft account that owns the email box (email address), which is used to connect to the exchange (Sender email in the MyQ, Settings, Network tab).***

For example, if you use the sender email "print@somedomain.com", then you need to authenticate on the Microsoft website as this user during this step.

Microsoft Exchange Online is now connected to MyQ and is ready to be used in the **Network** settings tab as an Outgoing SMTP server.

## 7.5.2 Gmail with OAuth2 setup

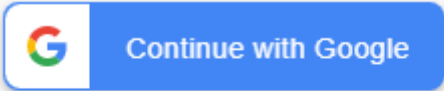
To configure Gmail with OAuth2 in MyQ:

1. Log in to the MyQ web administrator interface, and go to **MyQ, Settings, Connections**.
2. Click **+Add** and select *Gmail*.
3. In the pop-up window, you are requested to authorize the connection by clicking **Continue with Google**, copying the generated code, pasting it in the **Authorization code** field, and clicking **OK**.

**Gmail** [Close]


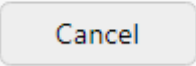
To set up the connection with Gmail, authorize the account you wish to use.

1. Log in with your Gmail account and copy the authorization code.



2. Paste the authorization code below.

Authorization code:

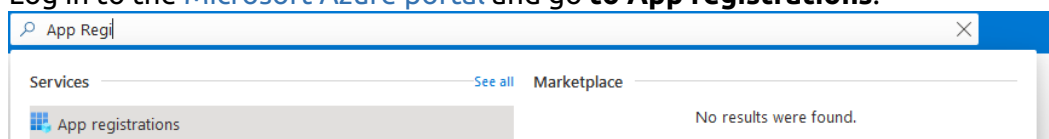
 

Gmail is now connected to MyQ and is ready to be used in the **Network** settings tab as an Outgoing SMTP server.

## 7.5.3 Azure AD with Microsoft Graph setup

### Azure Application Configuration

1. Log in to the [Microsoft Azure portal](#) and go to **App registrations**.



2. Click **New registration** to create a new application or select an existing application.
3. If you are creating a new application, set the **Name** and in **Supported account types** select *Accounts in this organizational directory only ({{Tenant name}} only - Single tenant)* option if all your users are members of your tenant. Multitenant application can also be used if required, depending on the target audience of the application.
4. You can skip the **Redirect URI** settings for now (described in step 7). Click **Register** to create the application.
5. From the application's Overview screen, go to **API Permissions** and select **Microsoft Graph API** and the required type of permission (**Delegated** or **Application**) as illustrated below. The required permissions are:

### Microsoft Graph \ Group.Read.All, Microsoft Graph \ User.Read, Microsoft Graph \ User.Read.All

+ Add a permission    ✓ Grant admin consent for Default Directory

API / Permissions n...	Type	Description	Admin consent req...	Status
✓ Microsoft Graph (3) <span style="float: right;">...</span>				
Group.Read.All	Application	Read all groups	Yes	✓ Granted for Default Directory <span style="float: right;">...</span>
User.Read	Delegated	Sign in and read user profile	No	✓ Granted for Default Directory <span style="float: right;">...</span>
User.Read.All	Application	Read all users' full profiles	Yes	✓ Granted for Default Directory <span style="float: right;">...</span>

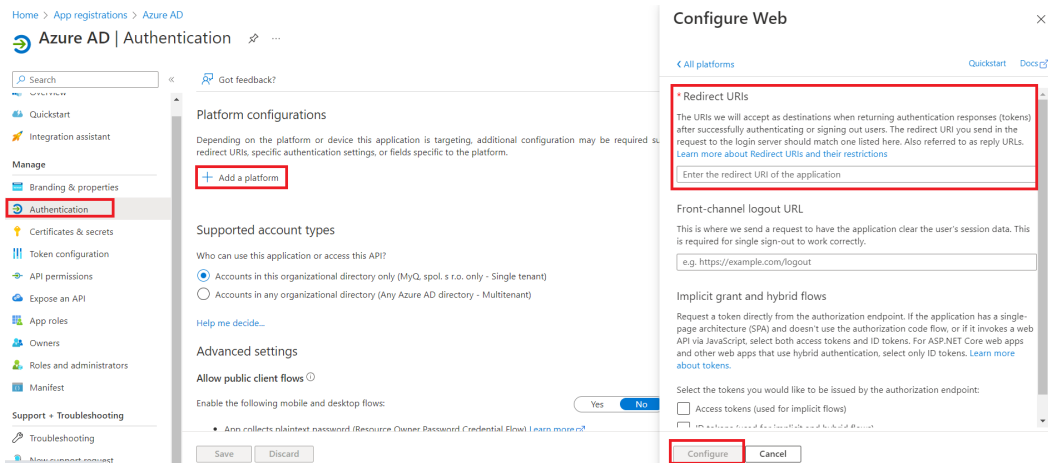
6. The status "*Granted for Default Directory*" needs to be set on all permissions that require them. All needed permissions can be added and configured with the buttons at the top of the list of permissions.

+ Add a permission    ✓ Grant admin consent for Default Directory

Use "**Add a permission**" to add new permission.

Use "**Grant admin consent for Default Directory**" to set the status of the permission as "Granted for Default Directory".

7. Go to the **Authentication** settings, and under Platform configurations, click **Add a platform**. Then select **Web**, and list the **Central server** and **all Site servers**. For the actual URLs, use the hostname (and port) of your server in the following format: **https://{hostname:port}/auth** and click **Configure**.



8. In the application’s overview page, save the **Application (client) ID** and the **Directory (tenant) ID**, as they are needed for the MyQ configuration.
9. Click **Add a certificate or secret** next to **Client credentials** and complete the following steps:

**Add a client secret**

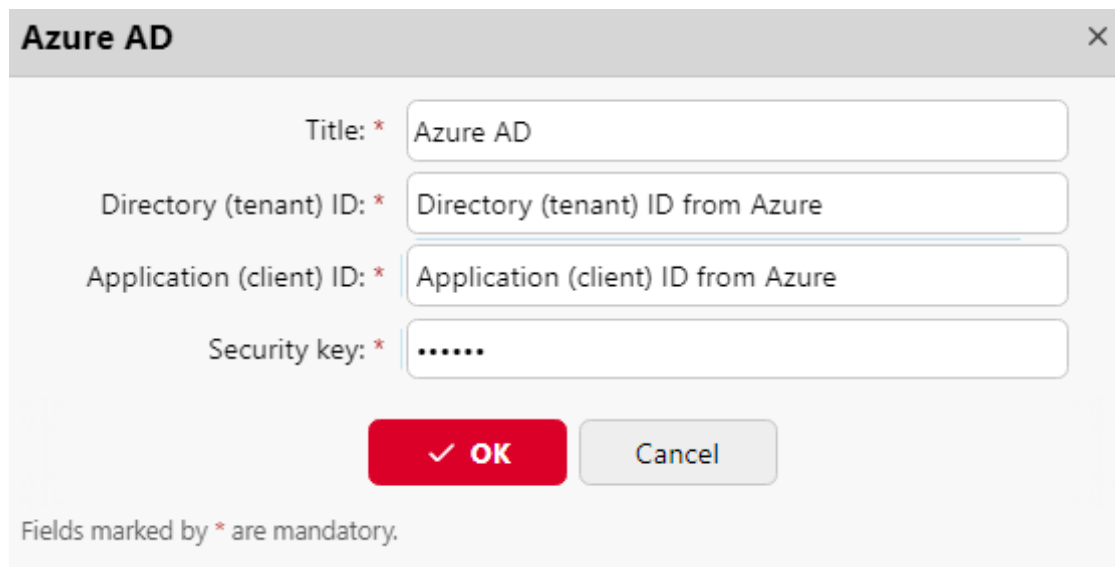
Description	<input type="text" value="Enter a description for this client secret"/>
Expires	Custom
Start	Recommended: 180 days (6 months)
End	<ul style="list-style-type: none"> <li>90 days (3 months)</li> <li>365 days (12 months)</li> <li>545 days (18 months)</li> <li>730 days (24 months)</li> <li>Custom</li> </ul>

- a. Click **New client secret**.
- b. Add a **Description**.
- c. Set the expiration for the key.
- d. Click **Add**.
- e. Save the **client secret key Value**, because you need it for the configuration in MyQ and you cannot retrieve it later.

**Configuration in MyQ**

Go to **MyQ, Settings, Connections** to connect MyQ to Azure AD. Click **Add** and select **Azure AD** from the list. In the pop-up window, fill in the required information:





**Azure AD** ×

Title: \* Azure AD

Directory (tenant) ID: \* Directory (tenant) ID from Azure

Application (client) ID: \* Application (client) ID from Azure

Security key: \* .....

✓ OK Cancel

Fields marked by \* are mandatory.

- **Title:** Add a title for the connection.
- **Tenant ID:** Add the Directory (tenant) ID you saved from Azure.
- **Client ID:** Add the Application (client) ID you saved from Azure.
- **Security key:** Add the (client secret) **Value** you saved from Azure.

Click **Save** and your Azure AD connection is now complete.

### Microsoft single sign-on

To use Microsoft single sign-on:

1. Enable "**Use as an authentication server**" in **Azure AD synchronization source - Users tab** prior to synchronizing users or enable Azure as an authentication server manually for selected users in their details on the **Users** main page.
2. In the Azure authentication server settings, enable displaying the '**Sign in with Microsoft**' login method.

When Microsoft single sign-on is enabled, the **Sign in with Microsoft** button is always displayed on the MyQ Web UI login page, but only users who use Azure AD as their authentication server can use it to log in. Any attempt to use Microsoft single sign-on by a user who does not use the Azure AD authentication system will end with an error.

What happens when a user tries to sign in with Microsoft in the MyQ Web UI:

- The user clicks the single sign-on button.
  - If the user is not signed in to Microsoft in the browser, they are forwarded to the Microsoft login page to sign in, and then logged into MyQ with the provided account.

- If the user is signed in to Microsoft with one account only, they are automatically logged into MyQ with this account (limitation).
- If the user is signed into two Microsoft accounts, they are forwarded to the Microsoft login page and are given a choice to select the account to continue with.
- Logout in MyQ Web UI signs out the user only locally, not from Microsoft.

### Limitations

- If a user uses the **Sign in with Microsoft** button and they are currently signed into one Microsoft account in the browser, they are automatically logged into MyQ with this account. There is no option to switch to another account. To use another account, the user has to sign out on any Microsoft services first, and upon the next use of the single-sign-on button, they will be asked for a new login.
- Users using Azure AD authentication server cannot sign in on the MyQ Web User Interface with a PIN. However, they can use their PIN on the MyQ Embedded terminals or in MyQ Desktop Client.

Synchronization and authentication through an Azure AD with Microsoft Graph can now be used via the following steps:

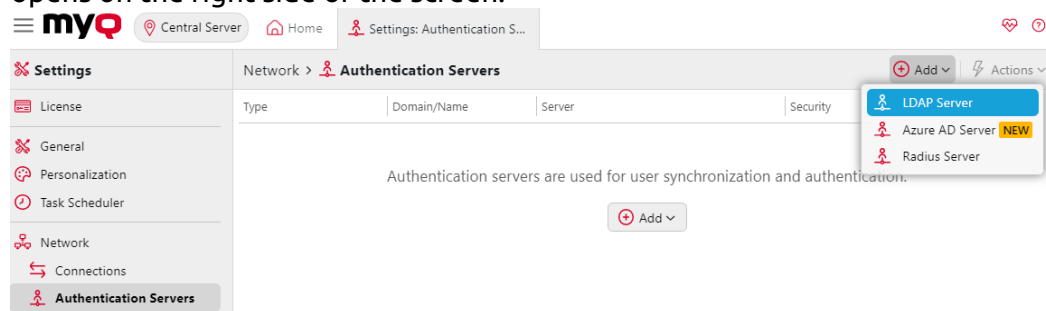
1. [Adding an Azure AD authentication server](#) in **MyQ, Settings, Authentication Servers**.
2. [Adding an Azure AD synchronization source](#) in **MyQ, Settings, User Synchronization**.

## 7.6 Authentication Servers settings

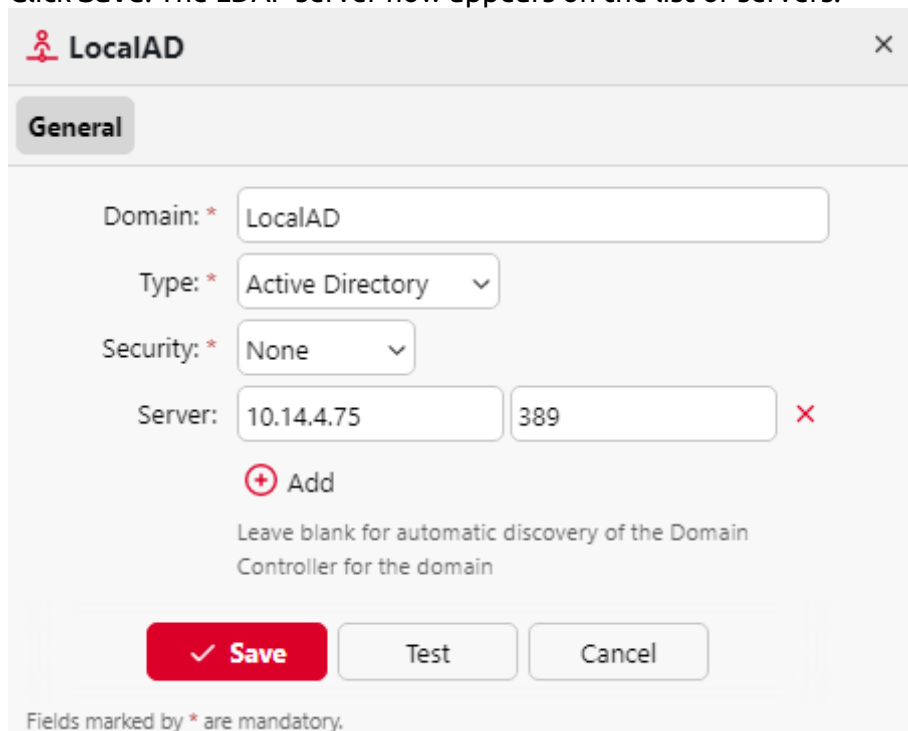
If you want to authenticate users against an LDAP server, synchronize users from an LDAP server, synchronize users from your MS Azure AD and use Microsoft SSO for the MyQ web UI or authenticate users against a Radius server, you have to add all the servers on this tab.

### 7.6.1 Adding a new LDAP server:

1. Click **+Add** and select **LDAP Server**. The new LDAP server properties panel opens on the right side of the screen.



2. Enter the LDAP domain.
3. Select the LDAP **Type**. You can select from *Active Directory*, *Novell*, *OpenLDAP*, and *Lotus Domino* (for *Active Directory* you must select **SSL** in the **Security** field and the **Server** port must be 636).
4. If you want the communication with the LDAP to be secured, select the **Security protocol** that you want to use.
5. Enter the **Server** IP address or hostname and the communication port. (For *Active Directory* you can leave the IP address or hostname empty if you do not know them. The server will then be saved as Auto-discover.)
6. If you have more addresses related to one LDAP server, you can add them by clicking **Add**.
7. Click **Save**. The LDAP server now appears on the list of servers.



**LocalAD** ×

**General**

Domain: \* LocalAD

Type: \* Active Directory ▾

Security: \* None ▾

Server: 10.14.4.75 389 ×

+ Add

Leave blank for automatic discovery of the Domain Controller for the domain

✓ Save Test Cancel

Fields marked by \* are mandatory.

## 7.6.2 Adding a new MS Azure Server:

1. Click **+Add** and select **Azure AD Server**. The new Azure AD server properties panel opens on the right side of the screen.
2. If you have already added Azure AD in the **Connections** settings, the server appears on the list. If not, click **Add new** and add the Azure AD connection.

**Azure AD Server**

**General**

Connection: \*

**Options**

Enable Sign in with

Microsoft: Users on Sites can log in on the Web User Interface via Microsoft single sign-on

**Save** Test Cancel

Fields marked by \* are mandatory.

3. If you want your users to be able to log in on the MyQ Web UI via Microsoft single-sign-on, select the **Enable Sign in with Microsoft** checkbox.

**myQ**

Language: English (United States)

User name

Password / PIN

**Log in**

Sign in with Microsoft

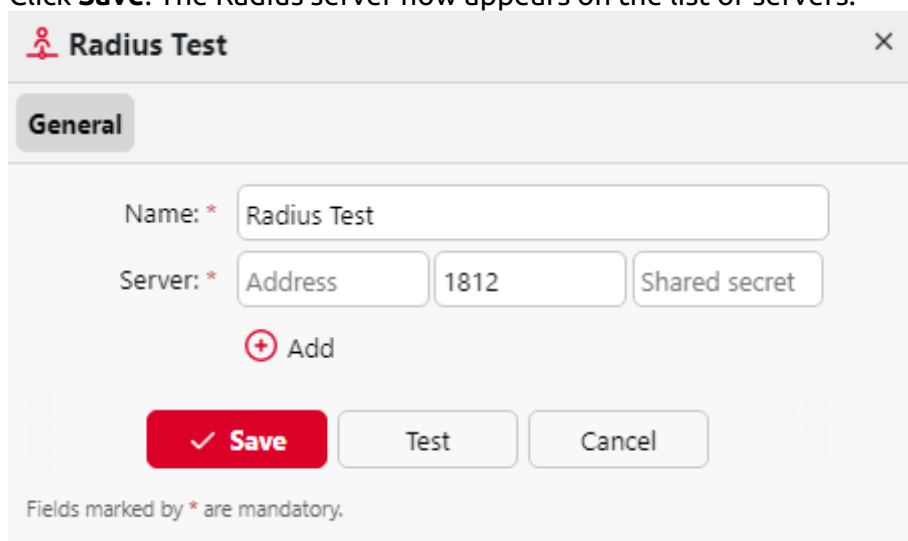
Lost PIN • Theme

4. Click **Save**. The Azure AD Server now appears on the list of servers.

### 7.6.3 Adding a new Radius server:

1. Click **+Add** and select **Radius server**. The new Radius server properties panel opens on the right side of the screen.
2. Enter the Radius server **Name**.
3. Enter the **Server** IP address or hostname, the communication port and the Shared secret.
4. If you have more addresses related to one Radius server, you can add them by clicking **Add**.

- Click **Save**. The Radius server now appears on the list of servers.



**Radius Test** [X]

**General**

Name: \* Radius Test

Server: \* Address 1812 Shared secret

+ Add

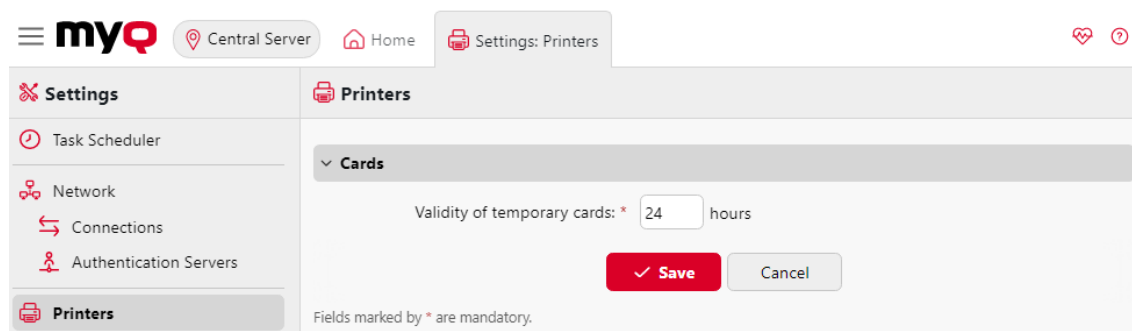
✓ Save Test Cancel

Fields marked by \* are mandatory.

**i** When an authentication server is renamed, a server with the old name will still appear in the Authentication server settings of a user profile, alongside the server with the new name. The old server is removed after the following user synchronization propagates changes.

## 7.7 Printers Settings

On the **Printers** settings tab, in the **Validity of temporary cards** field, you can set the duration of the temporary cards validity in hours. The default value is 24 hours.



myQ Central Server Home Settings: Printers

**Settings** Printers

Task Scheduler

Network

Connections

Authentication Servers

**Printers**

**Cards**

Validity of temporary cards: \* 24 hours

✓ Save Cancel

Fields marked by \* are mandatory.

## 7.8 Accounting Settings

In the **Accounting** settings tab, in the **General** section, the MyQ administrator selects the **Accounting mode** MyQ will be using:

- **Accounting Group** - This is selected by default. In this mode, all quotas are available and can be spent.
- **Cost Center** - In this mode, only the selected (cost center) payment account is spent.

It is possible to switch between the modes anytime.

### Limitations:

- The **Cost Center** mode does not work on printers without a terminal.
- **The Cost Center mode can be used only with embedded terminal versions 8.2 or higher.**
- In the **Cost Center** mode, if a user has more than one account, the job is paused and the account must be selected via MyQ Desktop Client (v.8.2 or higher). If there is only one account, the account is assigned automatically.

The screenshot shows the MyQ Central System Settings interface. The top navigation bar includes 'myQ', 'Central Server', 'Home', and 'Settings: Accounting'. The left sidebar lists various settings categories: Authentication Servers, Printers, Users, User Synchronization, Rights, Accounting (selected), and Credit. The main content area is titled 'Accounting' and shows the 'General' tab. Under 'Accounting mode: \*', there is a dropdown menu currently set to 'Accounting Group'. Below this, a note states: 'Accounting Group: Accounting group is selected automatically, all quotas are spent. Cost Center: Only selected payment account is spent. The Cost Center mode can be used only with embedded terminal versions 8.2 or higher.' At the bottom of the form are 'Save' and 'Cancel' buttons. A footer note says 'Fields marked by \* are mandatory.'

**!** If you use the **Cost Center** mode on embedded terminals with a version older than 8.2, the terminals activation fails. The following error message can be found in the log: *"Terminal is incompatible | reason=Terminal version must be at least 8.2 in cost center mode"*.  
If you switch to the **Cost Center** mode on embedded terminals with a version older than 8.2, the following warning can be found in the log: *"This terminal is not supported in cost center accounting mode. Upgrade terminal at least to version 8.2"*. Switch to the **Accounting Group** mode or upgrade your embedded terminals to version 8.2 for the terminals to be successfully activated and work properly.

### Comparison between Accounting Group and Cost Center

Accounting group	Cost center
Max 1 accounting group per user	Multiple cost centers can be assigned to a user
If multiple quotas are assigned to a user, all of them are spent.	Only one quota is spent. If credit, or a cost center without quota is selected, no quota is used.
If credit or personal quota is selected, the job is still accounted to the accounting group	If credit or personal quota is used, no cost center is accounted.

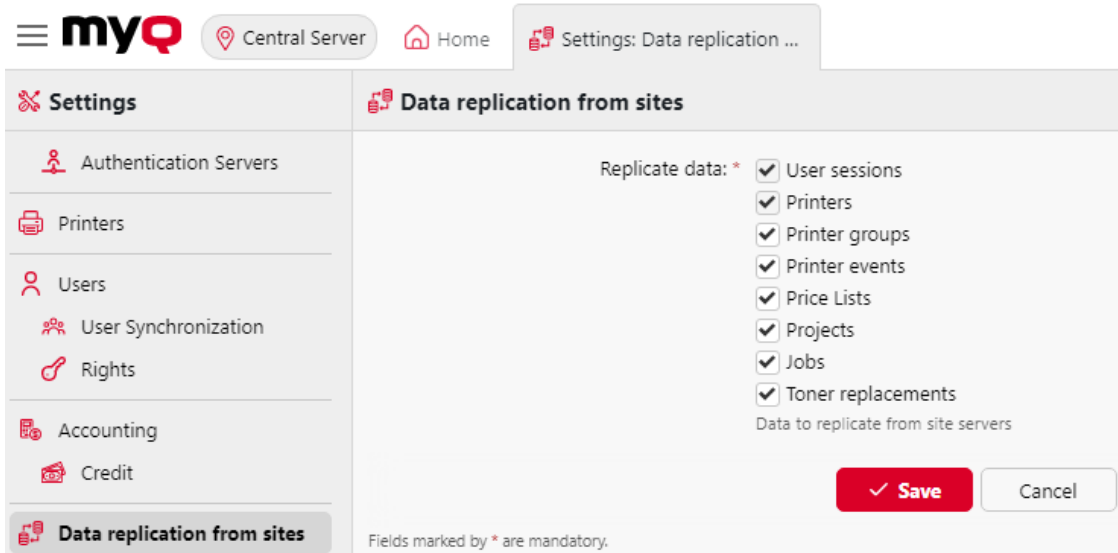
Accounting group	Cost center
Every job performed by user is accounted to their Accounting group	A job is accounted to the cost center only if selected, or if it is the only account the user has.

## 7.9 Data replication from sites Settings

In the **Data replication from sites** settings tab, in the **General** section, the MyQ administrator selects the data to replicate from Site servers. This option was added in MyQ Central Server 8.2 (Patch 6) and requires MyQ Print (Site) Server 8.2 (Patch 7).

Check the checkbox next to an option to enable the data replication and uncheck it to disable it (all options are selected by default). Click **Save** to apply any changes. The available options are:

- User sessions (non-editable)
- Printers (non-editable)
- Printer groups
- Printer events
- Price Lists
- Projects
- Jobs
- Toner replacements



myQ Central Server Home Settings: Data replication ...

**Settings**

- Authentication Servers
- Printers
- Users
- User Synchronization
- Rights
- Accounting
- Credit
- Data replication from sites**

**Data replication from sites**

Replicate data: \*

- User sessions
- Printers
- Printer groups
- Printer events
- Price Lists
- Projects
- Jobs
- Toner replacements

Data to replicate from site servers

Fields marked by \* are mandatory.

- When data are excluded from the replication settings, they are not replicated to the MyQ Central server.
- If an older MyQ Print Server version is used, then segmentation settings on MyQ Central server don't take effect.

- If job-related data (Jobs, Projects) were skipped during replication, then including the data again doesn't lead to replication of already skipped data; only new data are replicated.
- If printer-related data (Printer groups, alerts, Price lists) were skipped during replication, then including the data again also replicates previously skipped data.

## 7.10 External Reports

By default, the only access to the MyQ Firebird database is via the *SYSDBA* account. Since this account has full read/write rights, it is not secure to use it for accessing the database from 3rd party software (for example BI tools for reporting). A read-only access account is needed to avoid unintentional database corruption.

In the **External Reports** settings tab, the administrator can enable a **database read-only account** to be used with external reports.

The screenshot shows the 'External Reports' settings page in the MyQ Central System. The left sidebar contains a navigation menu with options like Authentication Servers, Printers, Users, User Synchronization, Rights, Accounting, Credit, Data replication from sites, Reports, and External Reports. The main content area is titled 'External Reports' and includes a description: 'Analyze data with external Business Intelligence tools. Help'. Below this is a section for 'Database read-only account' with a dropdown arrow. The text explains: 'The Database read-only account is used to provide BI tools read-only access to the database for analysis and reporting purposes.' The 'Enabled' toggle is turned on. The 'Account name' is 'db\_datareader'. There are two input fields for 'Password' and 'Confirm password', both with an asterisk. At the bottom are 'Save' and 'Cancel' buttons. A note at the bottom left says 'Fields marked by \* are mandatory.'

Activating the **Enabled** switch automatically creates a read-only access account to the MyQ Firebird database with the following settings:

- **Account name:** *db\_datareader*. This is the newly created read-only database user. The account name cannot be changed.
- **Password:** password for the *db\_datareader* account, set by the administrator. A new password must be set every time when switching from the **Disabled** to **Enabled** state.
- **Confirm password:** confirmation of the above password.

Enabling the database read-only account automatically enables a Windows Firewall rule to allow incoming connections to the MyQ Firebird database. If disabled, the rule is deleted.



- After restoring a backup using **MyQ Easy config**, the Windows Firewall rule and the `db_datareader`'s account password will be restored if the account state was **Enabled** when the backup was created. If the account state was **Disabled**, then the existing Windows Firewall rule will be deleted and the user account will be dropped in the restored Firebird database.

## 7.11 Log Settings

On this tab, you can set general settings for the MyQ Log, and the **Log notifier** feature, which enables sending notifications about selected log events to the administrator and/or any number of MyQ users. The notifications can be sent via email or they can be sent to Windows Event Viewer.

The screenshot displays the MyQ Central System Settings interface for the Log Settings tab. The interface is divided into a sidebar on the left and a main content area on the right. The sidebar contains a list of settings categories, with 'Log' selected. The main content area is titled 'Log' and contains three sections: 'General', 'History', and 'Log Notifier'. The 'General' section has a checkbox for 'Log debug level messages' which is checked, with a note below it: 'This will generate more information for troubleshooting purposes only. Note: Enabling this feature will impact performance.' The 'History' section has a text input for 'Delete logs older than' set to '14' days. The 'Log Notifier' section has a text input for 'Check new records in log every' set to '300' seconds. Below these inputs are 'Save' and 'Cancel' buttons. At the bottom of the main content area, there is a table for 'Log Notifier rules' with columns for 'Enabled', 'Rule name', 'Type', 'Subsystem', 'Context', 'Text', and 'Destination'. The table is currently empty, and a message 'The list is empty' is displayed below it.

**General** – If you select the **Log debug level messages** option, the system will generate more information for troubleshooting. The information will be shown in the MyQ Log.

However, this feature will impact your system's performance. Therefore, we recommend you enable it only in case of a system malfunction or if it is requested by MyQ support.

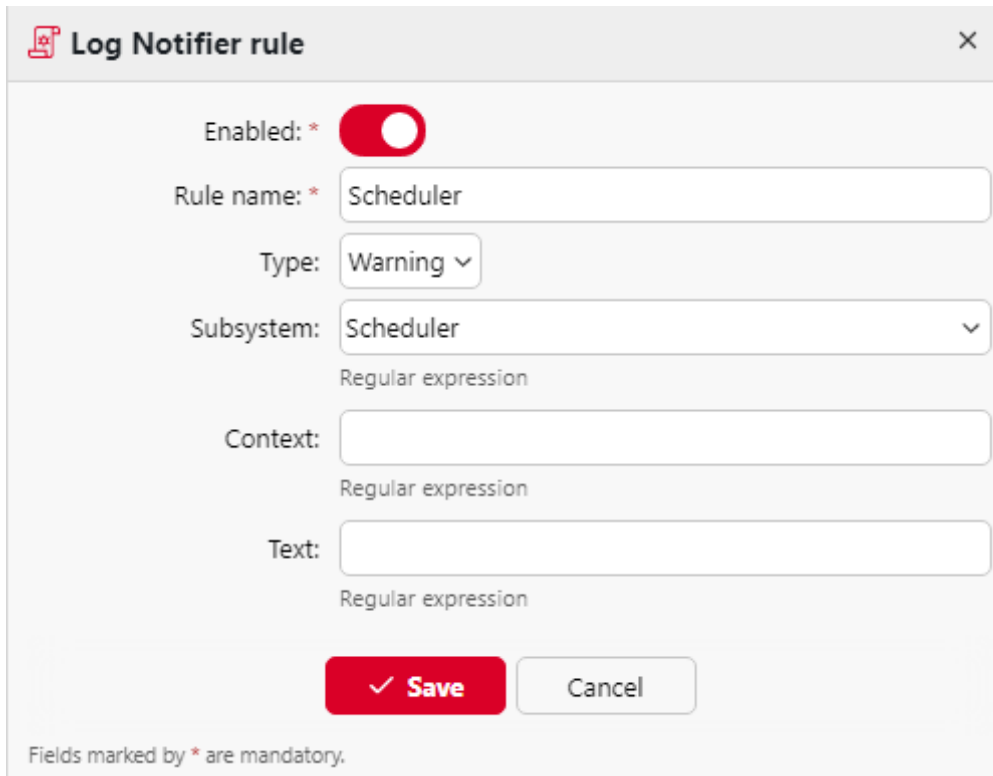
**History** – Here you can set when the logs should be deleted (in days).

**Log Notifier** – The notifications and their destinations are both specified by log notifier rules. Here you can set the period after which the log is checked for new events in the **Check new records in log every: ... seconds** text box (300 by default).

### 7.11.1 Management of Log Notifier Rules

To add a new rule, click **+Add item** at the upper-left corner of the **Log Notifier rules** section. The properties panel of the new rule opens on the right side of the tab. On the tab, edit and save the rule.

To open the editing options of a rule, double-click the rule (or right-click the rule, and then click **Edit** on the shortcut menu). The following settings can be changed:



The screenshot shows a configuration window titled "Log Notifier rule". It includes the following fields and controls:

- Enabled: \***: A red toggle switch is currently turned on.
- Rule name: \***: A text input field containing the word "Scheduler".
- Type:**: A dropdown menu with "Warning" selected.
- Subsystem:**: A dropdown menu with "Scheduler" selected.
- Context:**: An empty text input field.
- Text:**: An empty text input field.

Below the input fields are two buttons: a red "Save" button with a checkmark and a grey "Cancel" button. At the bottom left, a note reads: "Fields marked by \* are mandatory."

- **Enabled:** activate, deactivate the rule
- **Rule name:** name of the rule
- **Type:** the available event types - *Info, Warning, Error, Notice, Debug, Critical*
- **Subsystem:** subsystems of the MyQ application (*Terminal, SMTP Server, CLI, etc.*)
- **Context:** specific part of the subsystem
- **Text:** text of the log event message; you can use Regular expressions to search for specific patterns

After you set the notification rule, click **Save**. The rule is saved and you can select its destinations.

To add the destination, click **+Add item** under **Destinations**.

**Log Notifier rule**

Destination: Email

**Email**

Recipients: Administrator

Select a user or enter an email

Save Cancel

You can select between two destination options: **E-mail** and **Windows Event Log**. If you select the **E-mail** destination, you need to add one or more recipients; you can either select them from the list of MyQ users in the **Recipients** drop-down or directly type the addresses there. After you set the destination, click **Save**. The new rule is displayed on the tab.

To enable/disable Log Notifier rules:

1. Right-click on the rule.
2. Select **Enabled** (or **Disabled**) on the shortcut menu.

## 7.12 REST API Apps

In **MyQ, Settings, REST API Apps**, you can add REST API applications.

Click **+Add** and fill in the **Title**, **Client ID**, **Secret**, and **Scope** of the application and click **OK**.

**REST API Apps** +Add Actions

Title

**REST API App**

Title: \* New REST API app

Client ID: \* C515

Secret: \* fb9fb

Scope: credit users

OK Cancel

Fields marked by \* are mandatory.

## 7.13 System Management Settings

On the **System Management** settings tab, you can set warning levels for the disk space checker, change the settings of the MyQ history, and also do system maintenance.

The screenshot shows the MyQ Central System Settings interface. The left sidebar contains a list of settings categories, with 'System Management' selected. The main content area is titled 'System Management' and is divided into two sections: 'Disk space checker' and 'History'. The 'Disk space checker' section has two input fields: 'Warning level: \*' set to 2048 MB and 'Critical level: \*' set to 100 MB. The 'History' section has five input fields: 'Delete history older than: \*' set to 1460 days, 'Delete printer events older than: \*' set to 90 days, 'Delete archived reports older than: \*' set to 90 days, 'Close payment sessions older than: \*' set to 24 hours, and 'Delete Audit log older than: \*' set to 180 days. Below these fields are 'Save' and 'Cancel' buttons. A note at the bottom of the History section states 'Fields marked by \* are mandatory.' Below the History section is the 'System maintenance' section with expandable options for 'Data deletion' and 'Advanced'.

### 7.13.1 Disk space checker

In the Disk space checker section, you can set the **Warning level** and the **Critical level** (in MB) for the free disk space where the MyQ Central server is stored. Once one of these levels is reached, an email notification is sent to the MyQ administrator. If the critical level is reached, services are also stopped.

### 7.13.2 History

In the **History** section, you can change the periods after which data stored on the MyQ server is deleted. You can set time periods for the following data:

- **Delete history older than:** User sessions remain on the MyQ Central server for the period (in days) set here. Anything older deleted.
- **Delete printer events older than:** Printer events remain on the MyQ Central server for the period (in days) set here. Older ones are deleted.

- **Delete archived reports older than:** Reports are archived for the period (in days) set here. Older reports are deleted.
- **Close payment sessions older than:** Payment sessions remain on the MyQ Central server for the period (in hours) set here. Older ones are deleted.
- **Delete Audit log older than:** The audit log stores information about change in MyQ Central server for the period (in days) set here. Anything older is deleted.

To change the values, enter new values to the particular text box, and then click **Save**.

### 7.13.3 System Maintenance

In the **System maintenance** section, you can delete data from the MyQ database, and manage advanced options.

#### Data Deletion section

The delete/remove buttons perform the following actions. These actions cannot be undone. It is recommended you backup your data before performing any of them.

**System maintenance**

▼ **Data deletion**

Users to delete: 0  
  
 Users with user sessions will not be deleted.

Deleted inactive users: 0  
  
 Deleted inactive users will be permanently removed. This action can not be undone.

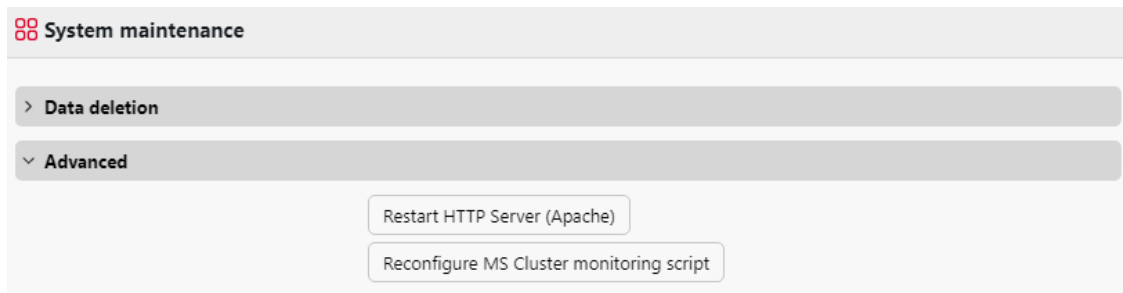
Inactive printers: 0  
  
 Only the printers without user session and events will be deleted. This action can not be undone.

Projects to delete: 0  
  
 Only the projects that never were used will be deleted. This action cannot be undone.

User data: User sessions, Jobs, Groups, Users  
  
 This action can not be undone. We recommend that you make a backup.

- **Users to delete:** Deletes all users without user sessions.
- **Deleted inactive users:** Removes all inactive users from the MyQ database.
- **Inactive printers:** Removes all printers without a user session from the MyQ database.
- **Projects to delete:** Removes projects that were never used.
- **User data: User Sessions, Jobs, Groups, Users:** Removes all user related data from the MyQ database.

## Advanced section



- Click the **Restart HTTP Server (Apache)** button, to restart the HTTP server.
- Click the **Reconfigure MS Cluster monitoring script** button to reconfigure the MS Cluster monitoring script.

## 7.14 Central and Site administration

As opposed to the MyQ Print server standalone model, where all parts of the MyQ system run on one server, the MyQ Central/Sites model consists of one Central server and multiple site servers.

The Central server cannot be used as a print server and its options are restricted to its central management role. Therefore it is not possible to administer printing devices or print jobs there. The site servers work as the print servers and perform local management of printing devices and print jobs. Their function and management options are similar to those of a standalone server.

After you setup your Central server and add and activate your licenses, you should setup your Site servers as well. In a Site server's MyQ web interface, go to **MyQ, Settings, Server Type** and fill in the following information:

In the **Server Type** section, choose **Site server**. This can only be used within a MyQ Central server installation and the change is permanent. You cannot switch back to standalone mode afterwards.

In the **Connection settings** section:

- **Site name** - add a name for your site server.
- **Central Server address** - add the Central server's host name or IP address.
- **Enable secure connection** - enabled by default. The connection between the Central server and the site servers is secured.
- **Port** - 8093 by default.
- **Password for communication** - password used for the communication between the MyQ Central server and Site servers.

In the **Licenses** section:

- **Embedded terminals** - add the number of embedded terminal licenses to be used on this site (distributed by the Central server).
- **Embedded Lite terminals** - add the number of embedded lite terminal licenses to be used on this site (distributed by the Central server).

Once the site servers are connected to your Central server, you can manage them via the Central's server MyQ web interface, in **MyQ, Sites**.

In the **Sites** main page, select a Site server and click **Edit** on the main ribbon (or double-click or right-click and select **Edit** on the Site server) to modify it. The Site server's properties panel opens on the right side.

- On the **General** tab, you can view the Site's name, port, and if the connection is secure. You can also add a description for the Site server.
- On the **User Synchronization** tab, you can select the user groups that you want to synchronize.
- On the **Client** tab, you can add IP ranges for the client PCs that will be used with MyQ Desktop Client (mandatory if you are using the Central server API to

obtain the server address for MDC. Check [here](#) for more information). You can also exclude IP ranges on the tab.

- On the **Rights** tab, you can manage user rights for the Site server.

After any modification, click **Save**. Any changes are then distributed during the User Synchronization.

### 7.14.1 Site server data replication

Data replication from sites is set as a scheduled task on the Central server. You can change the time and period of its run on the **Task Scheduler** settings tab.

In case you want to run the task outside of the schedule, you can do so on the **Sites** main tab.

The replication consists of two stages: at the first stage, the data are downloaded from the site server to a folder on the Central server, and at the second stage, they are uploaded to the Central server's database. Only data that are already uploaded to the database are included in the reports on the Central server.

On the **Sites** main tab, you can check the current state of replications for all site servers:

- The **Status** column gives you the following information:
  - Ready
  - Unknown, http 404
  - Error; this can be an http 5xx or http 200 with body '0' error
  - Unreachable, a timeout. As an admin you can set the timeout and the period in the *config.ini*.
- The **Last downloaded data** column displays date and time of the last successful download of the site server data.
- The **Download Status** column shows either OK or a red (error) icon.
- The **Last successfully replicated data** column shows if any error happened during the replication. The displayed date and time represent the last record replicated before the error.
- The **Replication status** shows you any of three colored icons:
  - OK - all the downloaded data were successfully replicated.
  - Pending - there are downloaded data waiting to be replicated.
  - Error - replication was not finished due to errors (not warnings!).

#### To manually run a replication of a site servers' data:


1. Open the **Sites** main tab (**MyQ, Sites**).
2. On the **Sites** main tab, select a Site, click **Actions** on the toolbar, and then click **Replicate data**.

#### Scheduled run of data replication from sites

By default, the data replication from sites is set to run once per day.



To change the **Data replication from sites** schedule, open the **Task Scheduler** settings tab (**MyQ, Settings, Task Scheduler**), and then double click the Data replication from sites schedule to open its properties panel, where it can be set. For more information, see [Task Scheduler](#).

 The statistical data on Site servers are stored for the period of time that is set on the **System Management** settings tab of the site server MyQ Web Interface, under **History**. To maintain the data, make sure that the time intervals between replications are shorter than these periods. Furthermore, the time periods for storing the data on Site servers should be long enough to avoid losing data, in case the scheduled replication is delayed, for example due to lost connection between the Central server and a Site server.

### 7.14.2 Site server rights management

Once a Site server is connected to the Central server, the MyQ administrator can manage the user rights for that server. Any changes are then distributed during the User Synchronization. As soon as the changes are synchronized, the previous user rights settings in the Site server are overwritten and the new rights are read-only in the Site server's rights settings.

To manage a Site server's rights in the Central Server, go to **MyQ, Sites**, select the Site server and click **Edit** on the main ribbon (or double-click or right-click and select **Edit** on the Site server). The Site server's properties panel opens on the right side. Go to the **Rights** tab, click on **Add user** to select the user (or user group), and then assign rights to them.

There is also the option to copy these settings to another Site server. Select the Site server that you want to copy the settings to, and click **Actions - Duplicate settings** on the main ribbon (or right-click and **Duplicate settings**). On the Duplicate settings pop-up, select the **Source** of the settings from the drop-down, and in **Duplicate settings**, mark the checkbox next to the settings that you want to duplicate, *User Synchronization* and/or *Rights*. Click **OK** and the changes are copied to the selected Site server.

### 7.14.3 Job Roaming

The Job Roaming feature enables users to transfer their jobs from one location to another: jobs sent to one Site can be printed on printing devices at another Site.

The feature only works in the Central/Site mode, however, it does not have to be centrally managed; Job Roaming between two locations depends exclusively on the settings of the locations Site servers.

The print job is stored on the original Site server until the user logs in at another Site, where they download the job to the **Job Roaming** queue. Thanks to the fact that the

files are not unnecessarily transferred between servers, this method guarantees the lowest possible network load.

On a Site's server MyQ web interface go to **MyQ, Settings, Jobs**. In the **Job roaming** section:

- **Allowed users** - Select from the list which users are allowed to use job roaming.
- **Manage queue for these jobs** - Click to open and manage the job roaming queue's properties.
- **Separate job list** - With this option, the remote jobs are displayed on a separate job list. This is optimal for 10+ servers and a slow network connection.
- **Shared job list** - With this option, the remote jobs are displayed on the same job list as the local jobs. This is optimal for up to 10 servers and a fast network connection.
  - **Print remote jobs with Print All** - This option is only available with a shared job list. If you select it, the **Print All** terminal action prints both local and remote jobs.

The screenshot shows the 'Job roaming' settings section. At the top, there is a dropdown menu for 'Allowed users' currently set to 'All users'. Below this is a link 'Manage queue for these jobs'. There are three radio button options: 'Separate job list' (selected), 'Shared job list', and 'Print remote jobs within Print All'. Each option has a descriptive subtitle below it.

Allowed users:

[Manage queue for these jobs](#)

Separate job list  
Remote jobs are displayed on separate job list. Optimal for 10+ servers and slow network

Shared job list  
Remote jobs are displayed on one list with local jobs. Optimal for up to 10 servers and fast network

Print remote jobs within Print All  
Print All button will print local and remote jobs

## 8 Licenses

A MyQ Enterprise or MyQ Ultimate license is required. You can purchase the license with rights to a certain number of printers.

For information about the differences between the two types of licenses, see <http://myq-solution.com/products>.

You can view your current license in the License Settings of your MyQ User Interface, or in the Licences widget shown on your dashboard. Three types of assurance plan are available, Standard, Premium, and Premium Plus. More information on assurance plans is available [here](#).

Plan	Status	Embedded terminals	Features	Installation key
ENTERPRISE	Standard Assurance Plan. The support will expire on 31/12/2024.	0 of 11 (0%)	Virtual machine high availability	IKA00-6HZP0-2GDTG-5ZH09-LKGD
ENTERPRISE	Premium Assurance Plan. The support will expire on 07/03/2025.	0 of 11 (0%)	Virtual machine high availability	IKA00-6HZP0-2GDTG-5ZH09-LKGD
ENTERPRISE	Premium Plus Assurance Plan. The support will expire on 02/07/2025.	0 of 11 (0%)	Virtual machine high availability	IKA00-6HZP0-2GDTG-5ZH09-LKGD

There are two ways of licensing in MyQ. The one that has been used so far (old licensing model), with separate keys for each license, and the new MyQ X licensing model - in use since MyQ Server 8.1 (patch 2), that introduced the use of an **Installation Key** per MyQ setup.

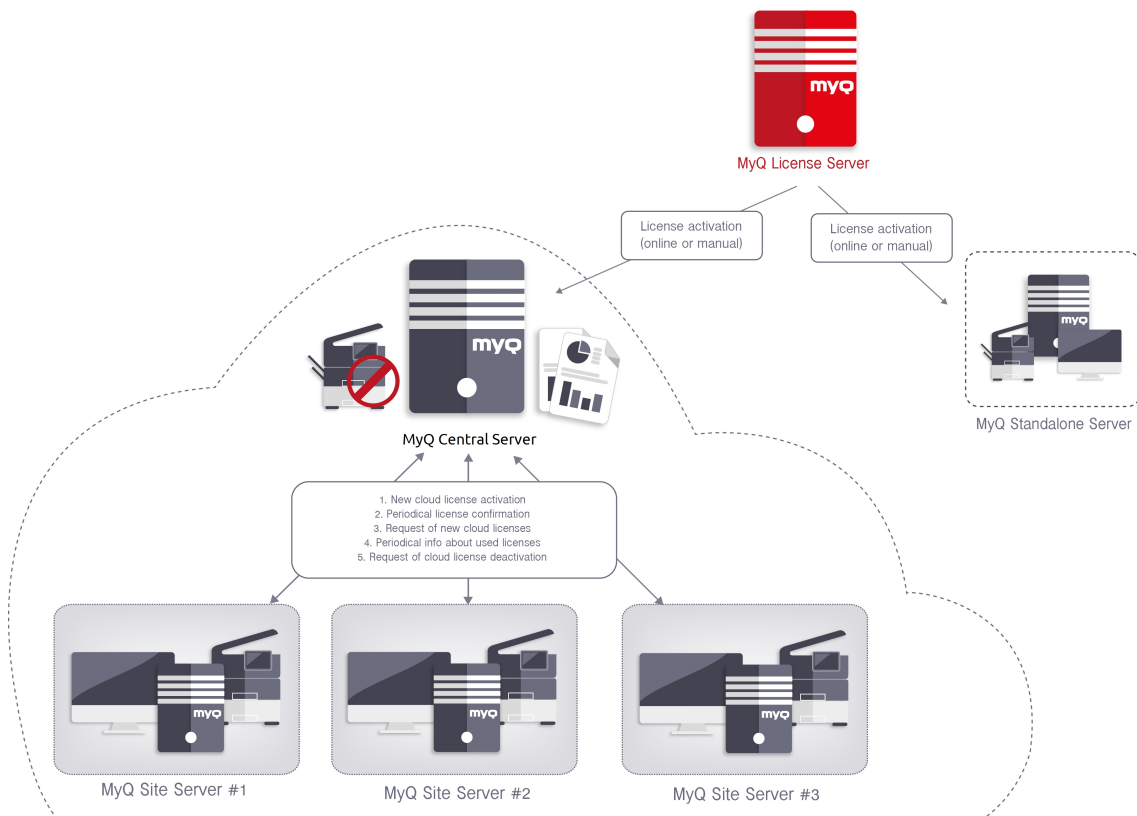
This chapter covers the following topics:

- [adding, activating and deleting licenses](#)
- [extending software assurance licenses](#)

### 8.1 License distribution to Site servers

When using a MyQ Central Server, licenses are first added to the Central server and then distributed to Site servers; no licenses are added directly to Site servers. On each Site server, you set parameters of the Site licenses (exact number of embedded and embedded lite terminals that will be available on the Site server). The Central server generates corresponding Site server licenses (Embedded terminals, Embedded Lite terminals) and accordingly subtracts the number of items from its own licenses.

When you add licenses to the Central server, make sure that you cover the needs of all the Site servers that are used together with the Central server. For example, if you run two Site servers, one with 12 activated printing devices and one with 17 activated printing devices, you need to add and activate a license supporting at least 29 printing devices. If there are 23 embedded terminals used with these printing devices, you need to add and activate a license supporting at least 23 embedded terminals, etc.



Once the installation key is added and activated on your Central Server setup, you can go to each Site server’s MyQ web interface and allocate licenses. Go to **MyQ, Settings, Server type**, in the **Licenses** section, add the number of licenses for **Embedded terminals** and/or **Embedded Lite terminals** and click **Save**.

The screenshot shows the 'Settings: Server Type' page in the MyQ web interface. The left sidebar contains a navigation menu with options like 'Server Type', 'License', 'General', 'Personalization', 'Task Scheduler', 'Network', 'Connections', 'Authentication Servers', 'SNMP', 'Printers & Terminals', 'Configuration Profiles', 'Printer Discovery', 'Terminal Actions', 'Events', 'Event Actions', and 'Users'. The main content area is titled 'Server Type' and contains the following configuration options:

- Standalone server:** licensed separately. **Site server:** Production MyQ server, licenses are allocated from the Central Server.
- Server Type:**  Standalone server,  Site server
- Connection settings:**
  - Site name: \*
  - Central Server address: \*
  - Enable secure connection:
  - Port: \* 8093
  - Password for communication: \*
  - Password is used for communication between Central server and Site servers.
- Licenses:**
  - Embedded terminals: \* 0
  - Embedded Lite terminals: \* 0

At the bottom right, there are 'Save' and 'Cancel' buttons. A note at the bottom left states: 'Fields marked by \* are mandatory.'

## 8.2 Adding licenses

You can add new licenses either on the **Home** dashboard during the initial setup of MyQ, or any time on the **License** settings tab.

After activation, the license is linked with the hardware configuration of the server where MyQ is installed. If the configuration changes (for example, after you reinstall MyQ on a different server, or after you change any of the hardware components of the server), the license becomes invalid and you have to reactivate it within seven days.

The total number of devices allowed to be activated at the same time is equal to the number allowed by individual licenses (for example: a license allowing ten printing devices + a license allowing one printing device + a license allowing five printing devices = sixteen printing devices allowed to be activated).

### Adding licenses on the Home dashboard

The first time you set up the system, you can add new licenses on the **Home** dashboard. In the **License** section, click **Enter License**. You are redirected to the **License** Settings tab, where you can add your license information.

### Adding licenses on the License settings tab

On the **License** settings tab, you are asked to enter the following information about your installation:

- **Company** - Your company's name
- **Person** - Your full name (e.g. the MyQ administrator's name)
- **Address** - The company's address
- **Country** - Select the country from the drop-down
- **Email** - Your email address
- **Phone** - Your phone number (optional)

myQ Central Server Home Settings: License

**Settings**

- License**
- General
- Personalization
- Task Scheduler
- Network
  - Connections
  - Authentication Servers
- Printers
- Users
  - User Synchronization
  - Rights
- Accounting
  - Credit
- Data replication from sites

**License**

Enter information about this installation

Company: \*

Person: \*

Address: \*

Country: \* [empty]

Email: \*

Phone:

Fields marked by \* are mandatory.

Enter the installation key

Installation key:

To get MyQ Central Server SMART license for free register at [MyQ Community portal](#)

Then, enter your Installation keys in the **Enter the installation key** field and click **Save**, and then **Activate**.

- If you are connected to the internet and you have used an Installation key, your licenses are now added and activated.
- If you have used license keys, your licenses are added but need to be activated. Follow the activation steps below.
- If you want to manually activate your licenses, see the steps below.
- If you haven't purchased any license or installation keys yet, you can register in the MyQ Community portal and request for the free **MyQ SMART** license.

You can see the newly added licenses on the **License** settings tab, under **License**.

If you are using a subscription license, you can see when the subscription is expiring or when it is going to be automatically prolonged:

10 days before the expiration, a banner message appears on the interface, reminding you to prolong your subscription:

*"Your subscription is about to expire soon, all services will stop in 10 day(s). Please prolong your subscription"*

If you don't prolong it on time, your licenses will expire and MyQ will stop working. The following banner message is displayed: *"MyQ is not running: There is an issue with your license. Check details on the 'Settings > License' page."*

If the MyQ server cannot connect to the License server:

- After the first unsuccessful connection, the MyQ server starts displaying the alert banner "*MyQ server cannot connect to License server, subscription cannot be prolonged and all services will stop in X days. Check internet connection and try to connect manually*". X = number of days until the expiration + 10.
- If the MyQ server can't connect to the License server for 10 subsequent days after the subscription has expired, the MyQ server will stop working and display the alert banner "*Server stopped working, because it cannot reach License server to update the subscription. Check internet connection and try to connect manually.*"

## 8.3 Activating licenses

### 8.3.1 To automatically activate a selected license:

The HTTP Proxy Server setting for license activation is not supported for License Keys generated on the MyQ X Partner portal. Manual (offline) activation must be used instead.

Installation Keys are automatically activated as soon as they are added (if connected to the Internet).

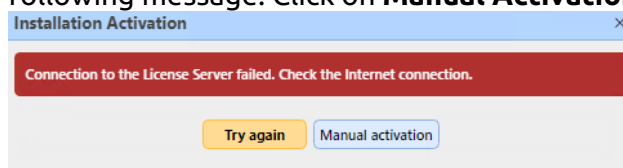
### 8.3.2 To manually activate a license:

**If you are using the old licensing model (with license keys):**

1. Generate the *MyQ-helpdesk.zip* file. For information about how to do this, see "Generate data for support".
2. Send a request for an activation key to [license@myq-solution.com](mailto:license@myq-solution.com) with the *MyQ-helpdesk.zip* file attached. You will get an email response with the generated activation key.
3. Go to the **Licenses** settings tab (**MyQ, Settings, Licenses**). Under **License**, click **Activate manually** (or right-click the license, and then click **Activate manually** on the shortcut menu.) A dialog box for entering the activation key appears.
4. In the dialog box, enter the received activation key, and then click **OK**.

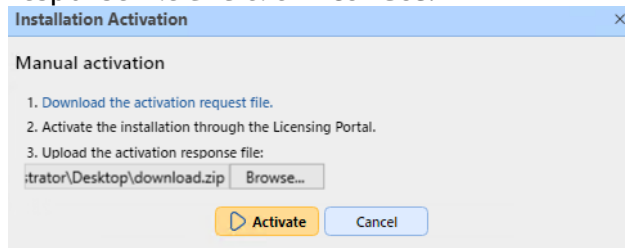
**If you are using the new licensing model (with Installation Keys):**

1. Go to the MyQ Web Administrator interface, in **MyQ, Settings, Licenses**. Add your Installation Key and click **Next**. The online activation fails and you get the following message. Click on **Manual Activation**.



2. In the newly opened window, click on **Download the activation request file**.

3. Upload the file in the MyQ X Partner portal and download the activation response file.
4. Go back to the MyQ Web Administrator interface, upload the activation response file and click **Activate**.



### 8.3.3 Reactivating Licenses in case of Hardware change

**When moving a MyQ installation from an old server to a new server, a Support task needs to be created with the MyQ License department (Support task - Type license issue) for license installation key reactivation**

Steps:

1. Prepare the **new server** with a clean MyQ installation.
2. Create a backup of MyQ (MyQ Easy Config\Database\Backup) on the **old MyQ server**.
3. Restore the backup file from step 2 on the **new MyQ server** (MyQ Easy Config\Database\Restore).
4. With the Installation key now in MyQ Web UI\Settings\License on the **new MyQ server**, you should request for license installation keys activation in 10 days.
5. Generate the Helpdesk support file from the new MyQ server installation (MyQ Web UI\Log\Tools\Generate data for support).
6. Create a Support request (type License issue) for reactivating the installation key with attached Helpdesk support file on the **MyQ Helpdesk partner portal**.
7. When reactivation is confirmed in the task, activate the installation key in MyQ Web UI\Settings\License on the **new MyQ server**.

Notes:

- A valid Software Assurance is required for the period when these changes are made.
- In case of offline activation, provide the Helpdesk support file from the old MyQ server as well.
- Be sure that you are not using 2 MyQ servers with the same database at the same time.
- Licenses on the old MyQ server will no longer be activated (there is a 10 days period from deactivation).



**When significant hardware changes are done on the MyQ server and MyQ installation key required activation in 10 days (MyQ Web UI\Settings\License), a Support task needs to be created with the License department (Support task - Type license issue) for license installation key**

Steps:

1. Check MyQ Web UI\Settings\License in case any HW changes are done on MyQ server.
2. If the installation key in MyQ Web UI\Settings\License requires activation in 10 days or less, continue with the next steps.
3. Generate the Helpdesk support file (MyQ Web UI\Log\Tools\Generate data for support).
4. Create a Support request (type License issue) for reactivating the installation key with the Helpdesk support file attached on the **MyQ Helpdesk partner portal**.
5. When reactivation is confirmed in the task, activate the installation key in MyQ Web UI\Settings\License.

Notes:

- A valid Software Assurance is required for the period when these changes are made.

## 8.4 Deleting licenses

To delete a license:

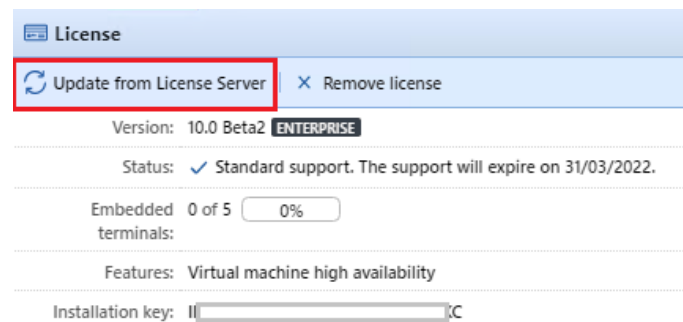
1. Select the license that you want to delete.
2. On the **Licenses** settings tab, under **License**, click **Delete**.

## 8.5 Extending software assurance licenses

You can extend the support period by assigning a support license to the particular main license. This can be done at any time, even before your current support period expires. In this case, the service is extended from the last day of validity of the current support.

### 8.5.1 New licensing model (with Installation keys)

You can order to prolong your support on the MyQ X Partner portal. Once your order is approved, go to the MyQ Web Administrator interface, in **MyQ, Settings, License** and click the **Update from License Server** button to update your prolonged Software Assurance license. If the new date is not displayed, refresh the web page.



## Manual activation

1. Once your additional licenses order is approved, go to the MyQ Web Administrator interface, in **MyQ, Settings, License** and click the **Update from License Server** button. Since there is no network, you will be prompted to **Download** the activation request file.
2. After you download the file, go to the MyQ X Partner portal, under your Project, in the Installations tab. Click **Offline activation**.
3. In the pop-up window, upload the *offlineActivation.zip* file you downloaded from the MyQ Web Administrator interface and click **OK**. The activation response file is then automatically downloaded.
4. Go back to the MyQ Web Administrator interface, upload the activation response file and click **Activate**. Your additional licenses are added and activated.

### 8.5.2 Old licensing model (with license keys)

The licenses can be extended on the **License** settings tab.

1. On the **License** settings tab, under **License**, click **Manage Support**. The license properties panel opens on the right side of the screen.
2. On the panel, click **+Add Support license**. The Add support license dialog box appears. You have to manually activate the license, as described below.

## Manual activation

1. Generate the *MyQ-helpdesk.zip* file.
2. Send a request for an activation key to [license@myq-solution.com](mailto:license@myq-solution.com) with the *MyQhelpdesk.zip* file attached. You will get an email response with the generated activation key.
3. Add the support license key in the Activate support license dialog box, select the **Activate manually** option, enter an activation key, and then click **OK**.

## 8.6 Migrating old licenses to MyQ X

If you are using older MyQ editions, it is recommended to migrate your licenses to MyQ X.

Compared to older editions, MyQ X offers a new price list with updated and new functionalities, one Installation key containing all the license information instead of multiple license keys, a fast and automated license ordering process, and a complete overview in the MyQ X Partner portal of all the products and their software assurance.

Moreover, if you use embedded lite licenses, during the license migration to MyQ X, their price is halved (two embedded lite = one embedded license). If you have an odd number of embedded lite licenses, the total is rounded up, and then halved (eleven lite = twelve lite = six embedded licenses).

The software assurance expiration date is recalculated during the migration:

1. Expiration dates are converted to a real number and the average is computed. (for example, you have 100 x Embedded (E) and 200 x Embedded Lite (EL) | so  $100 \times \text{'expiration date' of (E)} + 200/2 \times \text{'expiration date' of (EL)} / \text{count of ((E) + (EL/2))}$ )
2. The computed average is a real number and, converted back to the date format may produce, for example, 23h:56min - for this reason 1 day is added.
3. From the average corrected date, only the month + year are used, without day + time, and one month is added to the final date.

License Type	Pcs	Software Assurance Expiration	SA Days till Expiration (from today, 5.10.2020)	SA Days of all Pcs
Embedded	40	04.11.2020	30,00	1 200,00
Embedded	10	28.07.2021	296,00	2 960,00
Embedded	8	19.12.2021	440,00	3 520,00
Embedded	1	20.02.2022	503,00	503,00
<b>TOTAL of Embeddeds</b>	<b>59</b>			<b>8 183,00</b>
Lite	10	04.11.2020	30,00	300,00
Lite	1	19.12.2021	440,00	440,00
<b>TOTAL of Lites</b>	<b>11</b>			<b>740,00</b>
Round up to an even number of Pcs	12			807,27
Conversion of Lites to Embeddeds (2-in-1)	6			403,64
<b>TOTAL Enterprise &amp; Support</b>	<b>65</b>	<b>14.02.2021</b>	<b>132,10</b>	<b>8 586,64</b>
<b>FINAL Enterprise &amp; Support</b>	<b>65</b>	<b>01.03.2021</b>		

The prerequisites for license migration are:

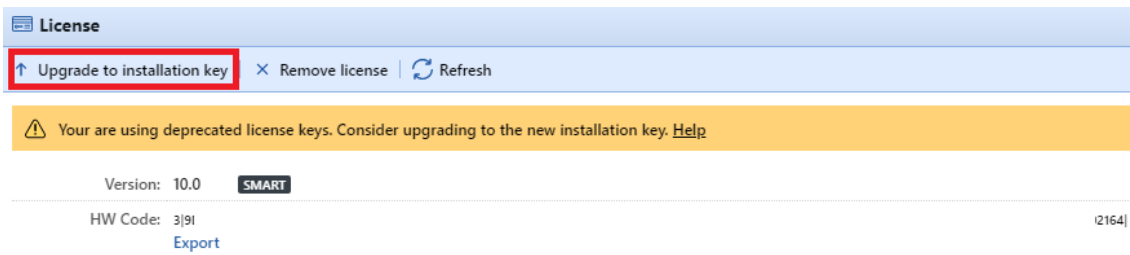
- MyQ Print Server or MyQ Central Server 8.2 or higher installed (valid support required).
- Valid support required; support date for version 8.2 is 15 January 2021, but it is recommended having valid support all the time, especially when there are planned system changes and MyQ Helpdesk would be contacted.
- Access to the MyQ X Partner portal (Partner ID and password. If you do not have access, contact your Sales representative).

With the above prerequisites fulfilled, you can start the Migration Process.

### 8.6.1 Migration Process

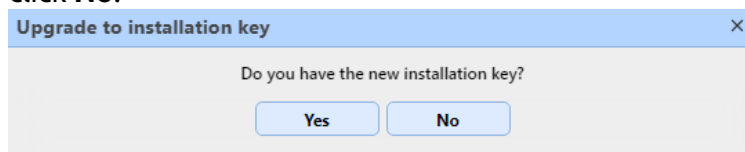
You can start the license migration process in the MyQ web administrator interface.

Go to **MyQ, Settings, License**. At the top bar, click **Upgrade to installation key**.

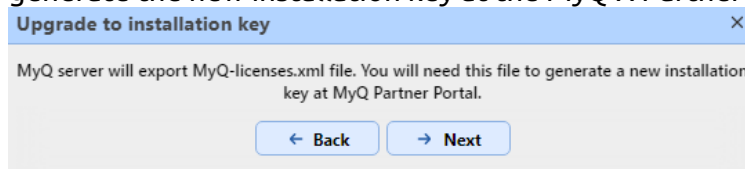


The Upgrade to installation key wizard starts, guiding you through the upgrade:

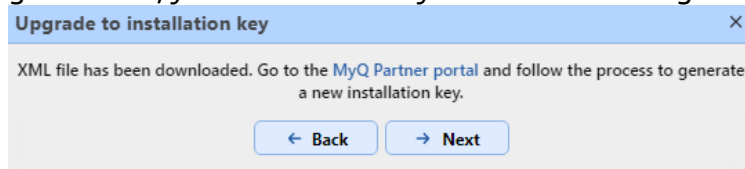
1. If you already have an Installation Key, click **Yes** and continue to step 4. If not, click **No**.



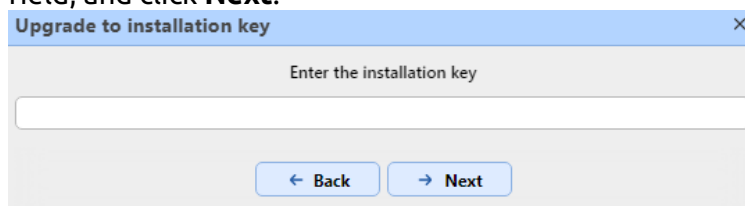
2. The MyQ server will now export the *MyQ-licenses.xml* file. You need this file to generate the new installation key at the MyQ X Partner Portal. Click **Next**.



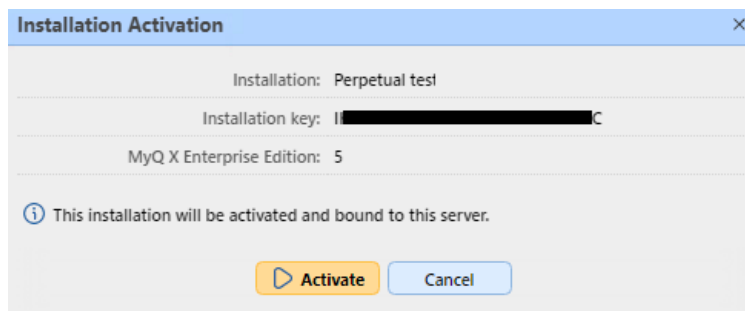
3. The *MyQ-licenses.xml* file has been downloaded. Go to the [MyQ X Partner portal](#) and follow the process to generate a new installation key. Once you generate it, your old license keys cannot be used again.



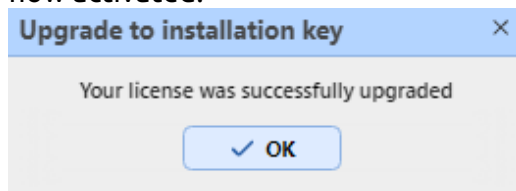
4. Back in the MyQ web administrator interface, insert the installation key in the field, and click **Next**.



5. MyQ is contacting the License server to get the license information. In case you have no internet connection, click **Manual activation** to [manually activate the license](#).
6. Check the overview and if everything is correct, click **Activate**; otherwise, click **Cancel**.



7. Your license keys were successfully upgraded to an installation key and are now activated.



You can see your new licenses overview in the **License** settings tab.

⚠ If the activation fails due to connection issues, or for any other issues with the migration, contact MyQ Support.

## 8.7 VMHA License

Normally, the hardware signature of the server hosting MyQ is occasionally verified to make sure that the license is still installed on the same server and isn't misused. In certain scenarios, the underlying hardware may change and so a license reset is required to re-activate the license. If the hardware changes often (which is common when the server is hosted in a virtual environment), the Virtual Machine High Availability (VMHA) feature may be required.

✓ The VMHA license is included free of charge in MyQ Enterprise and MyQ Ultimate plans. [Discover our licensing options](#) to find out more.

⚠ For the VMHA feature to function, a domain environment is mandatory - the server running MyQ must be a member of a domain. For MyQ installed in an MS Azure environment, a domain is not required. Changing the domain or migrating to a completely different server will still require a license reset.

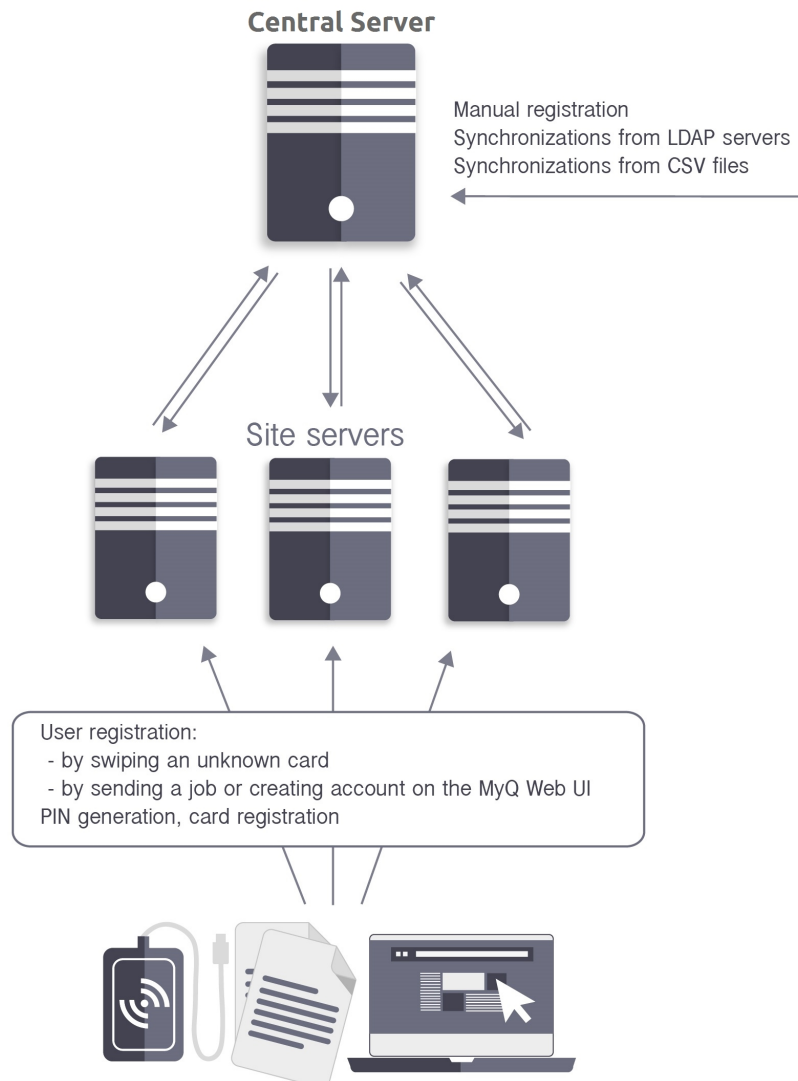
To verify that the VMHA feature is available, go to **MyQ, Settings, License**.

With old license keys, once the VMHA license is registered and activated, you can enable the VMHA feature in **MyQ, Settings, Network**. Once enabled, the license verification mechanism will no longer check for changes in the hardware when checking the HW license signature key.

With the new licensing model, with installation keys, VHMA is enabled by default in a Print Server or Central Server setting. If you are using Site servers, you have to enable the feature in each Site server.

## 9 Users

Each Site server connected to your MyQ Central server can synchronize users directly from the Central server and be almost entirely dependent on the changes made there, described below.



There are, however, a few exceptions:

- Users can register themselves by swiping an unknown ID card, on the Web user interface, by sending a job via LPR protocol, or by sending a job via email. The newly created user is automatically replicated to the Central server. If the connection to the Central server is working, the user is automatically added to the server database and also replicated to the Central server database. From there, the accounts are imported to all other sites using the Central server as a synchronization source during the scheduled process of synchronization. If there is no online connection to the Central server, the registration of the new user fails.

- Users that are already in the system can change their language and generate PIN on the Web User Interface. In addition, they can register their cards on MyQ terminals. Every such change has to be authorized by the Central server. If there is no connection to the Central server, the registration of the new PIN/card fails.
- The administrator can add a new card, and add or generate a new PIN for users that are already in the system. Every change has to be authorized by the Central server. If there is no connection to the Central server, the registration of the new PIN/card fails.

In the following sections, you can find information on user management options on the MyQ Central server:

- Overview, registration, adding, importing, synchronizing and deleting users: [List of users](#), [Manually adding and deleting users](#), [Users synchronization from LDAP servers](#).
- PIN generation: [Generating PIN](#)
- Individual users settings: [Editing user accounts](#), [Groups of users](#), [Exporting users](#)
- Special administrative rights: [Rights](#)

## 9.1 List of users

On the **Users** main tab, you can see users and information about them. With the **All users** search option selected, you see a list of all the users that are currently in the system.

Apart from this search option, you can also choose from:

- **Unclassified** - select to display only the users that do not belong to any group
- **Managers** - select to display only group managers
- **Locked** - select to display users whose accounts have been locked
- **Deleted** - select to display only deleted users

### Default system users

The database of every installation of MyQ contains five default system users. These users are used for administration of the MyQ system and cannot be deleted.

1. **\*admin** - This is the MyQ administrator account. It is used for administration of the MyQ system on the Web Administrator User Interface.
2. **\*api** - MyQ uses this account to connect to external applications.
3. **\*fax** - All printed faxes are charged to this account.
4. **\*system** - All the actions performed by the MyQ system are charged to the **\*system** user.
5. **\*unauthenticated** - If there are any printed, copied or scanned pages that for some reason cannot be assigned to concrete users, they are charged to this account. This can happen, for example, if the print server is not available and users print in an emergency, offline mode on a printing device. It can also



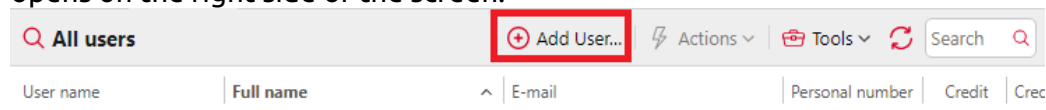
happen if someone prints directly on a printing device, bypassing the MyQ system. In such cases, you might need to check the printing device security settings.

## 9.2 Adding and Deleting users Manually

### 9.2.1 Adding Users

To manually add a new user, follow these steps:

1. On the **Users** main tab, click **+Add User**. The properties panel of the new user opens on the right side of the screen.



2. On the panel, enter the username and full name of the user, and eventually set other data of the user account (see [User information and settings](#)), and then click **Save**.

### 9.2.2 Deleting Users

When you delete a user, they are removed from all groups (including **All users**) and are marked **Deleted**. They are not completely removed from the MyQ database and can be undeleted.

#### Deleting users

To delete a user:

1. On the **Users** main tab, select the users that you want to delete, and then click **Actions**. The Actions drop-down box appears.
2. In the **Actions** drop-down box, click **Delete**. You can find the deleted users under the **Deleted** search option.

#### Undeleting users

To undelete a user:

1. On the **Users** main tab, under searches, select the **Deleted** search option. The list of deleted users appears.
2. On the list, select the users that you want to undelete, and then click **Actions**. The **Actions** drop-down box appears.
3. Click **Undelete**.

## 9.3 Deleting users

When you delete a user, they are removed from all groups (including **All users**) and are marked **Deleted**. They are not completely removed from the MyQ database and can be undeleted.

#### Deleting users

To delete a user:

1. On the **Users** main tab, select the users that you want to delete, and then click **Actions**. The Actions drop-down box appears.
2. In the **Actions** drop-down box, click **Delete**. You can find the deleted users under the **Deleted** search option.


### Undeleting users

To undelete a user:

1. On the **Users** main tab, under searches, select the **Deleted** search option. The list of deleted users appears.
2. On the list, select the users that you want to undelete, and then click **Actions**. The **Actions** drop-down box appears.
3. Click **Undelete**.

## 9.4 Editing user accounts

Each individual user has their own properties panel. To open the panel, double-click the user on the list on the **Users** main tab (or right-click the user, and then click **Edit**). The properties panel opens on the right side of the screen. The panel is divided into three tabs: **General**, **Groups**, and **Delegates**.

 **Carol Kai**
⚡ Actions ▾ ×

General

[Groups](#)
[Queues](#)
[Delegates](#)

User name: \*

Full name: \*

Aliases: + Add

Cards:  Persistent ▾ ×

+ Add

PIN: + Add + Generate PIN...

---

Email:

Phone:

Personal number:

Default language: English (United States) ▾

User's storage:   
Folder for storing user's documents

---

Use authentication server:

Authentication server: None

---

Notes:

Synchronization source:

✓ Save
Cancel

Fields marked by \* are mandatory.

### 9.4.1 User information and settings

- **User name** - Here you can enter or change the user name. This entry is mandatory. It is unique and is used to identify the user. It is compared to the

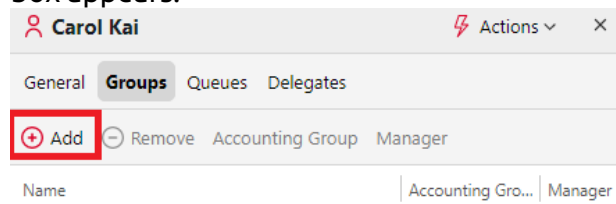
parameter obtained from the **User detection method**.

- **Aliases** - In addition to their user name, each user can have a number of aliases. MyQ treats the aliases as alternative user names.
- **Card** - Here you can set the number of the user's identification card.
- **PIN** - Here you can manually create or automatically generate new PIN code for the user and remove existing ones. An unlimited number of PINs can be added.
- **Full name** - Here you can enter or change the user's full name. This entry is mandatory.
- **E-mail** - Here you can enter or change the user's email.
- **Phone** - Here you can set the user's phone number
- **Personal number** - The personal number can be used as the user ID in MyQ. The primary ID is the **user name** property.
- **Default language** - Here you can select the language of the user's sessions on MyQ embedded terminals.
- **User's storage** - Here you can set the folder or email, where scanned documents are saved.
- **Use authentication server** - If you select this option, an LDAP server is used for the user authentication. The user uses their LDAP credentials to authenticate to MyQ instead of having a password set in MyQ. Select the domain for the authentication on the setting below.
- **Authentication server** - Here you can select the LDAP domain for user authentication.

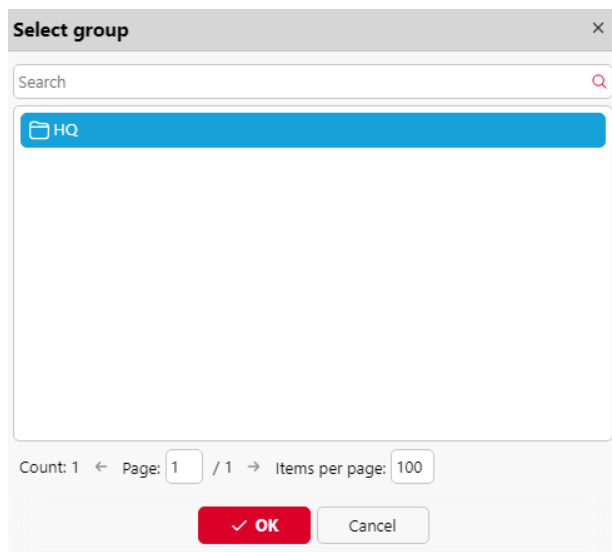
## 9.4.2 Adding users to and removing them from groups

To add a user to a group on the user properties panel, in the **Groups** tab:

1. On the bar at the top of the **Groups** tab, click **+Add**. The Select group dialog box appears.



2. In the Select group dialog box, select the groups where you want to add the user to.



3. Click **OK**.

A user can also be added to a group on the **Users** main tab using drag and drop. Drag the user and drop it on the group icon, on the groups tab on the left side of the screen.

### Default group and Group manager options

On the bar at the top of the **Groups** tab, you can see two options: **Accounting Group** and **Manager**.

The **Accounting Group** is the group where the user is counted in reports and it is set to every user by default.

If you make a user the **Manager** of a certain group, the user can see jobs and reports of all the users from the group. To make the user a manager of a group, select the group and click **Manager**.

### To remove a user from a group:

On the bar at the top of the **Groups** tab, click **–Remove**. The group disappears from the **Groups** tab.

To remove selected users from a group on the **Users** main tab, select the group there, select the users that you want to remove, click **Actions**, and then click **Remove from group** in the **Actions** drop-down.

### 9.4.3 Selecting user delegates

On the **Delegates** tab, you can select delegates (users or groups) who are able to print all of the delegating user jobs sent to a **Delegate** printing type of queue. The

delegate will see the jobs on the embedded terminal. The print jobs are displayed in the form: (*Sending user\*\*Name of the print job*).

Users need to have rights to a delegate printing type queue to be able to select delegates.

### To select delegates:

On the bar at the top of the **Delegates** tab, in the **Delegates** combo box, enter the user (or the group of users), and then click **Save**. This way, you can add multiple users (or groups of users).

### To deselect delegates:

On the bar at the top of the **Delegates** tab, in the **Delegates** combo box, point to the user (or group of users) that you want to deselect, and then click the remove button (**X**) on the right side of the user (or group of users).

## 9.5 User groups

On the **Users** main tab, you can create new user groups.

### Creating user groups

To create a group, do the following:

1. On the group tab on the left side of the **Users** main tab, point on the group under which you want to create the new group. A drop-down box appears to the right.
2. On the drop-down box, click **+New Group**. The new group properties panel opens on the right side of the screen.
3. Enter a **Name** for the new group, and optionally add a **Description**.
4. Click **Save**.

To select delegates for the group:

1. Open the group properties panel by double-clicking on the group.
2. On the bar at the top of the **Delegates** tab of the group properties panel, in the **Delegates** combo box, enter or select the user (or the user group).
3. Click **Save**. This way you can add multiple users (or the user group).

To deselect delegates for the group:

On the bar at the top of the **Delegates** tab, in the **Delegates** combo box, point to the user (or user group) that you want to deselect, and then click the remove button (**X**) on the right side of the user (or user group).

### Deleting user groups

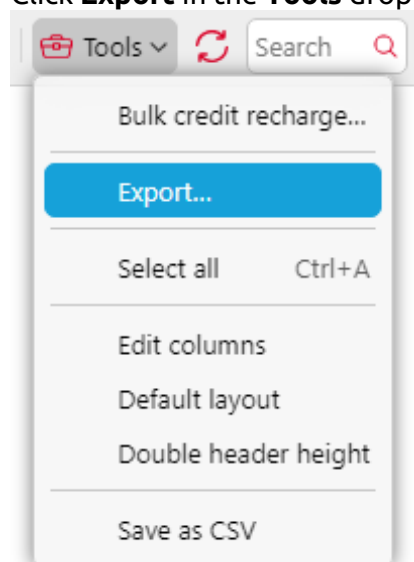
1. On the group tab on the left side of the **Users** main tab, right-click the group that you want to delete.
2. Click **Delete**.

## 9.6 Exporting users

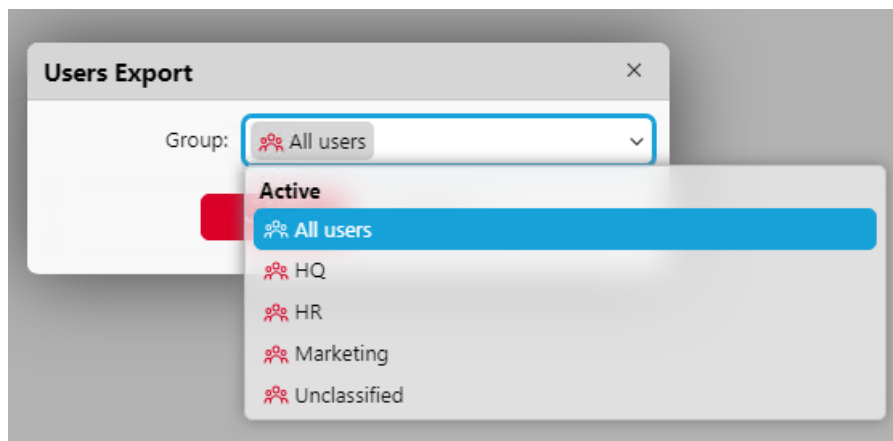
In case you need to export the complete list of MyQ users or a specific user group to a CSV file — for example if you want to use the CSV file for user synchronization — you can do so on the **Users** main tab of the MyQ Web Interface.

To export users:

1. Click **Tools** on the toolbar at the top of the **Users** main tab.
2. Click **Export** in the **Tools** drop-down.



3. In the pop-up window, select which user group you want to export, and click **OK**. The file is downloaded to your default *Downloads* folder.



## 9.7 User import and synchronization

User synchronization is a method of synchronizing user related data in the MyQ database with data in external sources, such as LDAP servers or CSV files. Importing new users is an optional part of the synchronization process. Within the synchronization setup, you can activate or deactivate the new users import; if you deactivate it, MyQ only updates accounts of users that already are in its database. You can read more about how user synchronization works [here](#).

This topic provides detailed information about the synchronization. It fully describes the methods of import and synchronization available in MyQ, and presents two options of running the synchronizations:

- [User synchronization from LDAP servers](#)
- [User synchronization from Azure AD with Microsoft Graph](#)
- [User synchronization from CSV files](#)
- [Manual and scheduled synchronization run](#)
- [User synchronization from Azure AD with SLDAP](#)
- [User synchronization from Google Workspace](#)
- [Using external authentication servers](#)

**[-]** User passwords are not synchronized/stored in the MyQ Database in case of LDAP/Azure synchronizations.

### 9.7.1 User Properties in MyQ

- **User name:** Name of the user account in MyQ. In Active directory and Open LDAP, this property corresponds to the **samaccountname** user attribute on the LDAP server.
- **Full name:** This is the full name of the user. In Active directory and Open LDAP, this property corresponds to the **cn** user attribute on the LDAP server. Usually, it is the given name and the surname of the user.
- **Alias:** In addition to their user name, each user can have a number of aliases. MyQ treats aliases as alternative user names. You can use aliases, for example, if you need to enable one user to send jobs to MyQ from different OS accounts.





- **Card:** The number of the user's identification card. It can be either imported from LDAP or added to MyQ on the user's properties panel. Also, it can be registered by an administrator on a card reader connected to a USB slot or registered by the user on an embedded terminal.
- **PIN:** The MyQ personal identification number is used for access to MyQ Web Interface and MyQ terminals.
- **Personal number:** The personal number can be used as the user ID in MyQ. The primary ID is the user name property. If you select the **Pair by the personal number** property during the user synchronization, the personal number is used instead.
- **Email:** The user's primary email address.
- **Notes:** You can use this text box to enter additional notes concerning the user.
- **Language:** The language used on the user's MyQ Web Interface and their home screen on the embedded terminal.
- **User's storage:** You can select a folder or one or more email addresses where MyQ sends the user's scans. Depending on the scanning setup, scans can be sent here, to the user primary email set in the **Email** property text box, or to other sources defined in MyQ or entered by the scanning users.

## 9.7.2 User synchronization from LDAP servers

An LDAP server contains a database that stores all user accounts, passwords and other user related data of an organization. On the **LDAP Synchronization** settings tab on the MyQ Web Interface, you can synchronize users directly from the server database.

MyQ can communicate with as much as five LDAP servers at the same time. It supports Active Directory, OpenLDAP, Novell, Lotus Domino and Google Workspace. To synchronize the users, you need to add the synchronization source first, and then setup the synchronization. After the synchronization is set up, you can either run it manually on the **User Synchronization** settings tab or set it as a regular task on the **Task Scheduler** settings tab.

 The settings described here apply only to Active Directory, although the settings for OpenLDAP, Novell, Lotus Domino and Google Workspace are similar.

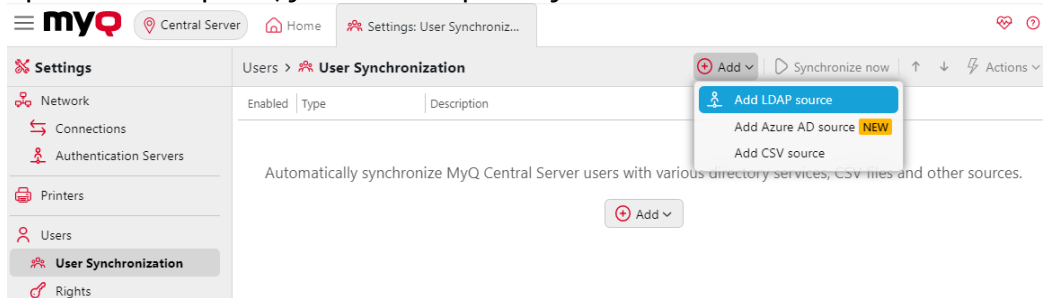
 OpenLDAP, with its default settings, limits the number of returned entries and the maximum total time for a query. The default size limit is 500 entries and the default time limit is one hour. In case of a larger customer installation with OpenLDAP, you must adjust these limits appropriately in the OpenLDAP settings, otherwise the user sync will give incomplete results.  
For more details see: <https://www.openldap.org/doc/admin24/limits.html>

### Creating an LDAP synchronization

Before creating the synchronization, you have to add the LDAP server to MyQ. You do this on the **Authentication Servers** settings tab (**MyQ, Settings, Authentication Servers**).

To create a new LDAP synchronization:

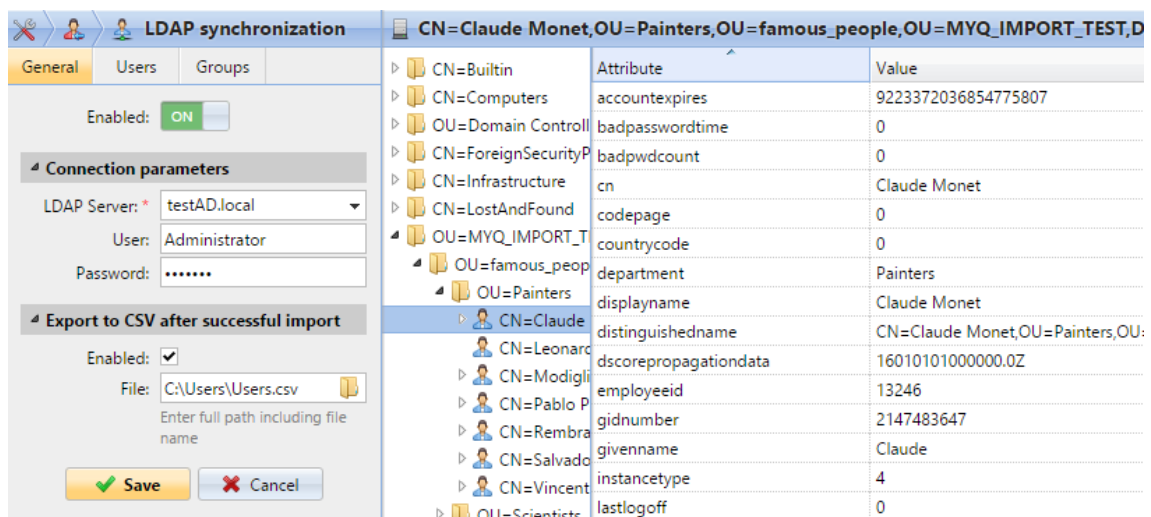
1. Add the new synchronization:  
Under **User synchronization**, click **+Add**. A drop-down box appears. In the drop-down, click **LDAP Server**. The LDAP synchronization properties panel opens. On the panel, you can set up the synchronization.



2. Set up the synchronization on the LDAP synchronization properties panel:  
Set up the synchronization on all three tabs on the LDAP synchronization properties panel. On each of the tabs, click **Save** after changing the settings. For information about the synchronization setup, see "Setting up the LDAP synchronization" on the next page.
3. Return to the **User synchronization** overview:  
The new LDAP synchronization is displayed on the list of synchronizations.

## Setting up an LDAP synchronization

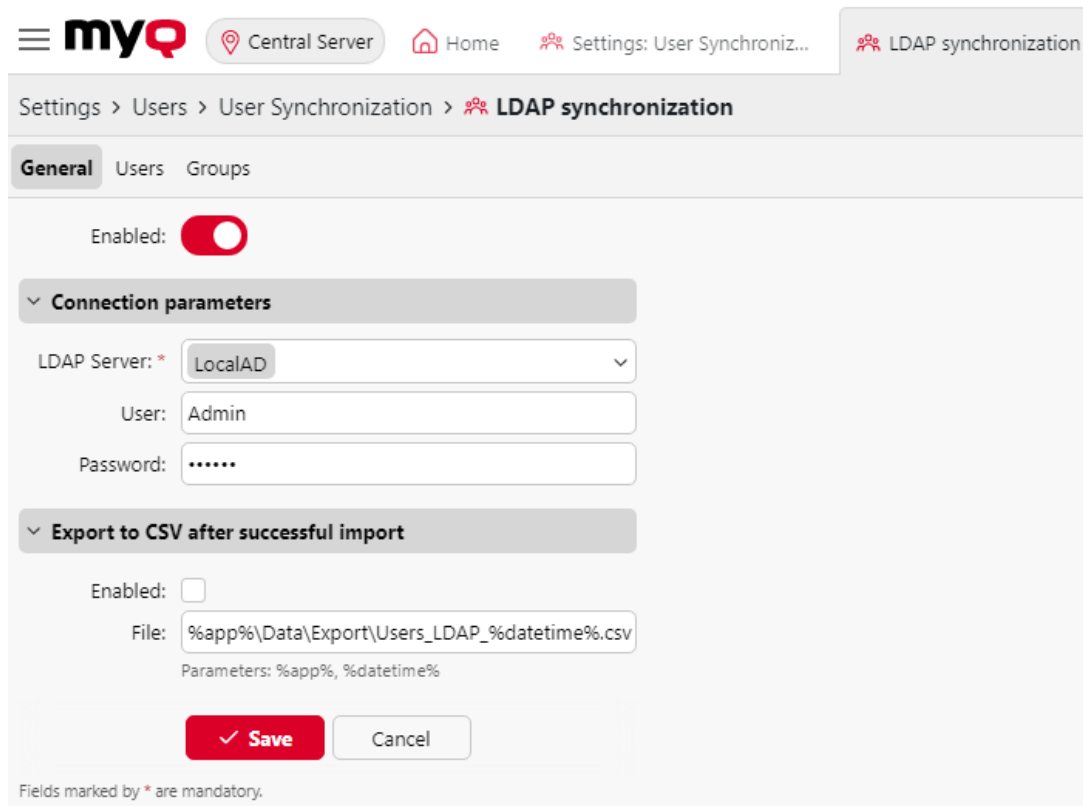
The setup consists of three parts: creating the synchronization on the **General** tab, setting import of users on the **Users** tab and setting import of groups on the **Groups** tab. You can swap between these tabs on the bar at the upper-left corner of the LDAP synchronization properties panel.



### General Tab

On the **General** tab, set the general properties of the synchronization: enable or disable the synchronization, select the LDAP server domain, enter user name and

password for access to the server, eventually select to export the imported users to a CSV file. See the list below for a description of individual settings.



- **Enabled:** Here you can enable or disable the synchronization.
- **LDAP Server:** Here you can select the domain that you want to synchronize from.
- **User:** Enter the user name for access to the LDAP domain server.
- **Password:** Enter the password for access to the LDAP domain server.
- **Enabled:** If you enable the **Export to CSV after successful import** option, MyQ creates a CSV file with the imported users after the synchronization.
- **File:** Add the path to the folder where you want to save the created file.

After you correctly set the connection parameters (LDAP server, username and password) and save the settings, the LDAP browser opens on the right side of the screen.

- In the **User** setting, a sub-domain user account with enough rights can also be used for authentication, but the sub-domain has to be specified in the username.


For example, the user *Administrator* connects to the *testAD.local* LDAP server, but their account is in the *cz.testAD.local* sub-domain. For successful authentication, the filled in username should be:

*Administrator@cz.testAD.local*

### Users Tab

On the **Users** tab, pick one or more base DN's (distinguished names) from which you import the users. In addition, you can assign user attributes from the LDAP server to user properties in MyQ and select additional options concerning the synchronization.


Settings > Users > User Synchronization >

 **LDAP synchronization**

General **Users** Groups

You can drag and drop tree items and attributes on fields


Base DN:

 Add

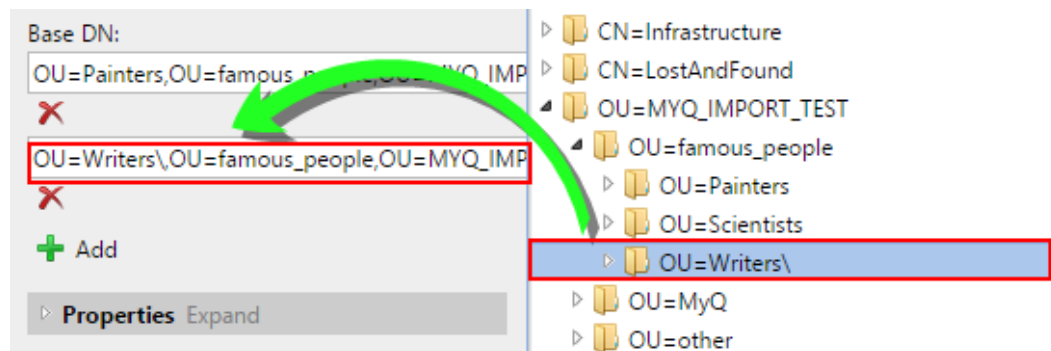
> **Properties**

> **Options**

> **Filter**

 **Save**

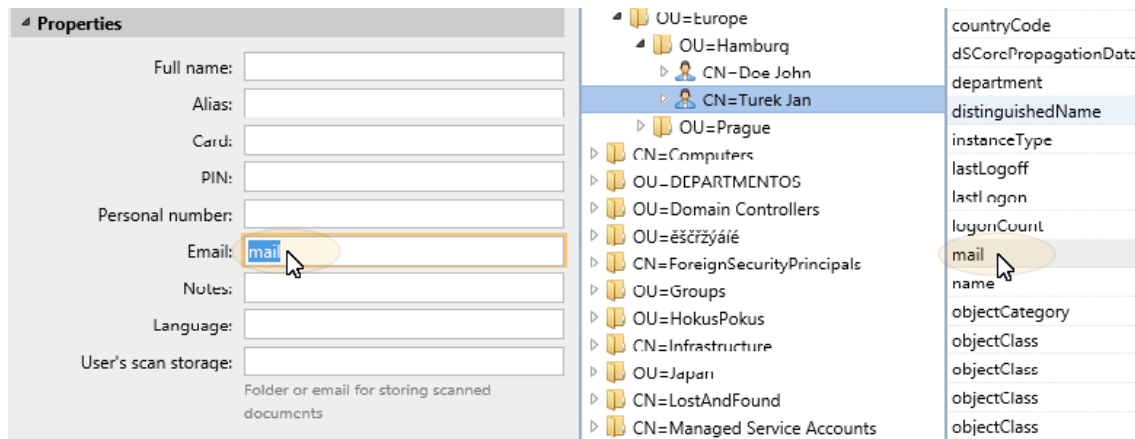
- **Base DN:** Here you can pick the base domain or domains from which you import users. Click **+Add** to add a text box for the new base DN, and then drag a group from the database browser and drop it in the text box. You can add multiple domains this way.



- **Properties:** These are the properties of every individual user. MyQ will automatically find and assign the user's **SAM account name** to **user name**, **cn** to **full name** and **mail** to **Email** (this applies to Active directory and OpenLDAP only). The user name property is the only one that cannot be changed. To assign an attribute to a property, write the name of the attribute in the property text box or drag it from the attributes of any individual user and drop it in the text box. The following properties support adding multiple values to them, separated by a semicolon (;):
  - **Alias**
  - **PIN**
  - **Card**

For example, in the **Alias** property, you could add *alias1;alias2;alias3*.

The AD attribute name should not contain the semicolon (;) character. If a semicolon is part of the attribute's name, that attribute will not be synchronized in MyQ.



For assigning default languages to users, you have to use an attribute from the LDAP server that has the language abbreviations as its values. For example, you can create and use an attribute called **lang** with the values *en* for English, *hr* for Croatian, etc. The list of the abbreviations used in MyQ can be found here.

- **Options:** For a description of the common synchronization options, see [User information and settings](#). The basic options that are common for both the synchronization from LDAP servers and for synchronization from CSV files are:
  - **Deactivate missing users:** If you select this option, MyQ deletes users that are imported from the current synchronization source and that are not in the source anymore. To delete users that were added from different

sources, select the **Ignore synchronization source** option together with this option.

- **Add new users:** If you select this option, MyQ adds new users from the current synchronization source. If you do not select it, MyQ updates the user accounts of the users who are already in MyQ, but does not add any new users.
- **Convert user name to lowercase:** Unlike some other systems that do not differ between two words with the same letters but different cases (such as "Pear", "pear"), MyQ is case sensitive. You can use the **Convert user name to lowercase** option to prevent creating multiple accounts for one user.
- **Use authentication server:** If you select this option and a user logs in by entering their username and password, the credentials are not authenticated against the MyQ database, but instead against an LDAP or Radius server. If you synchronize users via LDAP, the source LDAP server is automatically assigned as the authentication server. If you synchronize users via CSV, you can select the authentication server from the list of predefined authentication servers.
- **Pair by the personal number:** If you select this option, MyQ identifies users by their personal number instead of their user names. This way you can keep track of a single user with different names in different sources or a user whose name has changed for some reason. For example, if this option is activated and a username in LDAP changes from *cat.stevens* to *yusuf.islam*, MyQ does not create a new user account, but recognizes the old user by their personal number.
- **Ignore synchronization source:** If this option is not selected, MyQ recognizes two users from different synchronization sources as two different entities. This can cause conflicts during synchronizations from multiple sources. If it is selected, MyQ ignores the synchronization sources and treats all users the same, regardless of their synchronization source. For example, if you run a synchronization and MyQ would import/update a user that has been already added from a different synchronization source, it does not update the user. Instead, it shows the message *The name/alias "X" is already used by the user "X"* among the synchronization results. After you select the **Ignore synchronization source** option, the user is updated by the latest synchronization.  
If you select this option together with the **Deactivate missing users** option, all users that were added from different sources and are not in the current synchronization source are deleted during the synchronization.
- **Append the domain name to the username** (*username@domain.local*): With this option selected, the name of the domain can be retrieved from the MyQ username. The information about the domain may be needed for example, when scanning to users' home folders is used on an embedded terminal.
- **Filter:** You can filter the users import by specifying the values of attributes. Add the conditions in the form: **Attribute=Value**. Users with a different value on this attribute are not accepted and are filtered out of the import. For attributes where the values are strings, such as the **cn** attribute, you can use the **\*** symbol to search for substrings. The symbol can be appended from both sides. For example, if you add a **cn=\*in\*** condition, only users whose

common name attribute contains "in" are accepted.  
Add one condition per row. Users are accepted if they satisfy at least one condition.

Filter

```
givenname=Charles
cn=*van*
```

Attribute=Value  
Attribute=Value

---

```
Updating users...
1: Charles Dickens added (Dickens | | | | synch/test_writers)
2: Rembrandt van Rijn added (Rembrandt | | | | synch/test_painters)
3: Vincent Van Gogh added (VanGogh | | | | synch/test_painters)
0.063sec.

0.002 sec.
```

### Groups Tab

On this tab, you can import groups and the group structure from the LDAP source. There are four different ways of specifying which groups are imported. You can use multiple different methods together and by each method, you can create different groups of users. You can also select to import the groups under an existing group in MyQ.

Settings > Users > User Synchronization >

## LDAP synchronization

General Users **Groups**

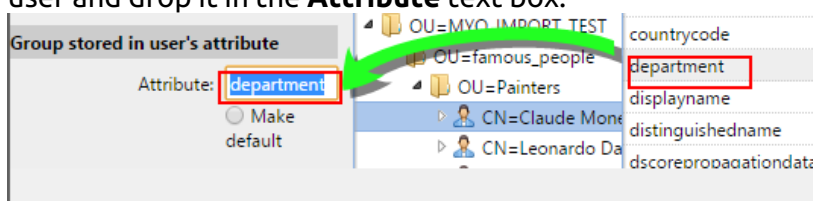
You can drag and drop tree items and attributes on fields

Make default

Import groups under this group:

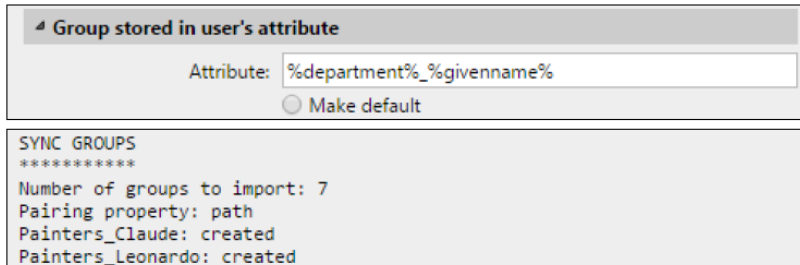
- > Group stored in user's attribute
- > Group stored in user's DN
- > Tree group stored in user's DN
- > Group stored in user's memberOf attribute

- **Do not change default group:** A user can be a member of multiple groups but all their prints, copies and scans are accounted to only one group: the default (accounting) group of the user. If you select this option, the default group of the selected user does not change during the synchronization.
- **Import groups under this group:** You can select an existing group in MyQ under which you import the groups from the LDAP database.
- **Groups stored in user's attribute:**
  - **Attribute:** You can select this option if you want to use an attribute that defines groups in the LDAP database. To add it, type the name of the attribute in the property text box or drag the attribute from any individual user and drop it in the **Attribute** text box.





You can also create groups by combining multiple attributes. To create such groups, put each of the attributes between two percentage signs (%). For example, the combination of attributes `%attribute1%_%attribute2%`, imports a new group named `value1_value2`.



Furthermore, you can create tree structures of groups by separating the attributes with vertical bars. For example, the combination of attributes `%attribute1%/%attribute2%`, imports a group `value1`, and its sub-group `value2`.

- **Make default:** If you select this option, the group becomes the default group of the imported user.
- **Group stored in user's DN:**
  - **OU component index:** Here you can select a group by its OU (organizational unit) index among the DN components. The index is counted from right to left: the first OU group from the right has index 1, the second from the right has index 2 and so on.

`CN=Claude Monet,OU=Painters,OU=famous_people,OU=MYQ_IMPORT_TEST,DC=testAD,DC=local`

On the image above, there are three OU groups: `MYQ_IMPORT_TEST` has index 1 (as it is the first OU group from the right), `famous_people` has index 2 and `Painters` has index 3. The other components are not OU and therefore have no index.

- **Make default:** If you select this option, the group becomes the default group of the imported user.
- **Tree group stored in user's DN:** Here you can import the whole tree structure of groups. You can restrict the import to any part of the structure by stripping the DN components from the left and from the right. In the respective text boxes, enter the amount of components to be striped from the left and from the right side. You have to strip at least one component from the left (the user CN component) and one component from the right (the right-most DC component).

`CN=Claude Monet,OU=Painters,OU=famous_people,OU=MYQ_IMPORT_TEST,DC=testAD,DC=local`

On the image above, there are six components. If you strip one component from the left and one from the right, you import the following structure of groups: `testAD > MYQ_IMPORT_TEST > famous_people > Painters`. By stripping components from the left, you remove the groups from the bottom to the top of the structure. By stripping components from the right, you remove the groups from the top to the bottom of the structure.

- **Make default:** If you select this option, the bottom group of the imported structure becomes the default group of the imported user.
- **Group stored in user's memberOf attribute:**

- **Group base DN:** MyQ can import security and distribution groups stored in the user's **memberOf** attribute. The security groups are used to define access permissions granted to their members. Distribution groups can be used for sending emails to a group of users. To specify which groups should be taken into consideration during the import, you have to insert the groups base DN. MyQ imports only groups that are included in the base DN; other groups stored in the **memberOf** attribute are ignored. The group base DN does not have to be in the same organizational unit as the users base domain. If a user is member of more than one group on the LDAP server, all the groups are stored in the **memberOf** attribute. Therefore, the **Make default** option, which requires a single value, is not available for this method of import.  
To add the groups base DN, drag it from the database browser and drop it in the **Group base DN** text box.
- **Filter:** You can filter this import by specifying the values of attributes. Add the conditions in the form: *Attribute=Value*. Groups with a different value on this attribute are not accepted and are filtered out of the import. You can use the \* symbol to search for substrings. The symbol can be appended from both sides. For example, if you add a *cn=\*in\** condition, only users whose common name attribute contains "in" are accepted. You can add one condition per row. Groups are accepted if they satisfy at least one condition.

The screenshot shows a configuration window titled "Group stored in user's memberOf attribute". It contains two input fields: "Groups base DN:" with the value "DC=testAd,DC=local" and "Filter:" with the value "cn=test\*". Below these fields are two rows of "Attribute=Value" labels. Below the configuration window is a terminal-style output window showing the results of a sync operation:

```

SYNC GROUPS
*****
Number of groups to import: 3
Pairing property: path
test_writers: updated via PATH match
test_painters: updated via PATH match
test_scientists: updated via PATH match
0.014sec.

```

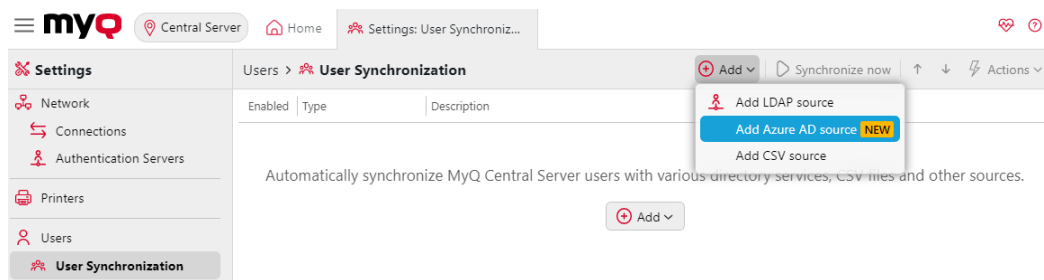
- **Import empty groups:** If you select this option, groups from the **Group base DN** are imported even if there is no user having them in their **memberOf** attribute.
- **Import tree of groups:** If you select this option, the whole tree structure is imported. Otherwise all groups are added separately; not as a part of a tree structure.

### 9.7.3 User synchronization from Azure AD with Microsoft Graph

Azure AD with Microsoft Graph is a service accessed from the Microsoft Azure Portal, where it has to be [enabled and configured](#).

Once the Azure AD connection is established, go to **MyQ, Settings, User Synchronization**.

1. Click **Add**, and then click **Add Azure AD source**.



2. In the Azure AD synchronization properties panel to the right, in the **General** tab, if you have already set up an Azure AD connection, the Azure AD server is already in the **Authentication Server** field. Otherwise, click **Add new** and set up an Azure AD connection.

3. Click **Save**.
4. In the **Users** tab:

The screenshot shows the 'Azure AD synchronization' configuration window with the 'Users' tab selected. The 'Users to import' section has 'All users' selected. The 'Properties' section includes dropdown menus for 'User name' (set to 'userPrincipalName'), 'Alias', 'Card' (set to 'None'), 'PIN' (set to 'None'), and 'Personal number' (set to 'None'). The 'Options' section has the 'Use as authentication server' checkbox checked, with a note: 'If enabled, users will be using their credentials from Azure AD and can use the Sign in with Microsoft to log in.' At the bottom, there are 'Save' and 'Cancel' buttons.

- a. You can map user information from Azure AD to the credentials in MyQ.
  - b. If you plan to authenticate users towards Azure using Active Directory credentials and use the Microsoft single sign-on option, select the **Use as authentication server** option and click **Save**.
5. In the **Groups** tab, you can select what Active Directory groups you want to remove from synchronization using the **Ignore groups** and **Ignore groups containing string** fields.

**Azure AD synchronization** [X]

General Users **Groups**

Ignore groups:

Ignore groups containing string:

Place each string on a new line. Matching is case insensitive.

Users can be now synchronized by selecting your Azure AD source from the list and clicking **Synchronize now**.

myQ Central Server Home Settings: User Synchroniz...

Settings

Network

Connections

Authentication Servers

Printers

Users

**User Synchronization**

Users > **User Synchronization** Add Synchronize now ↑ ↓ Actions

Enabled	Type	Description
<input checked="" type="checkbox"/>	Azure AD	Azure AD synchronization

## 9.7.4 User synchronization from CSV files

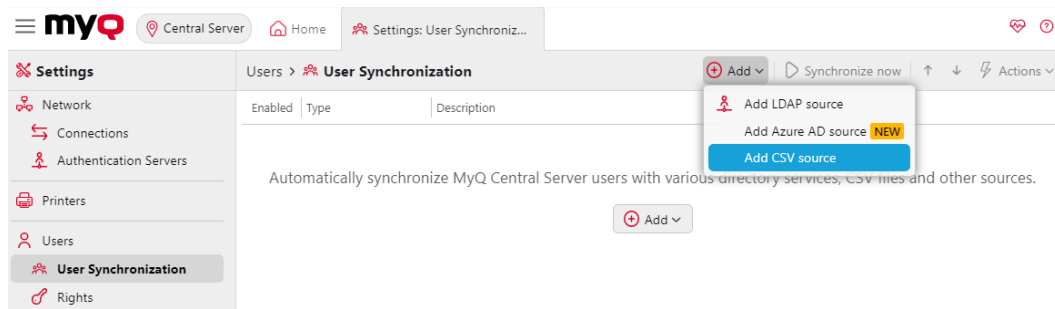
To synchronize users from a CSV file, you have to create a new CSV synchronization on the **User Synchronization** settings tab and on the synchronization properties panel, add the source file and set properties of the synchronization.

After the synchronization is set up, you can either manually run it on the **User Synchronization** settings tab or set it as a regular task on the **Task Scheduler** settings tab.

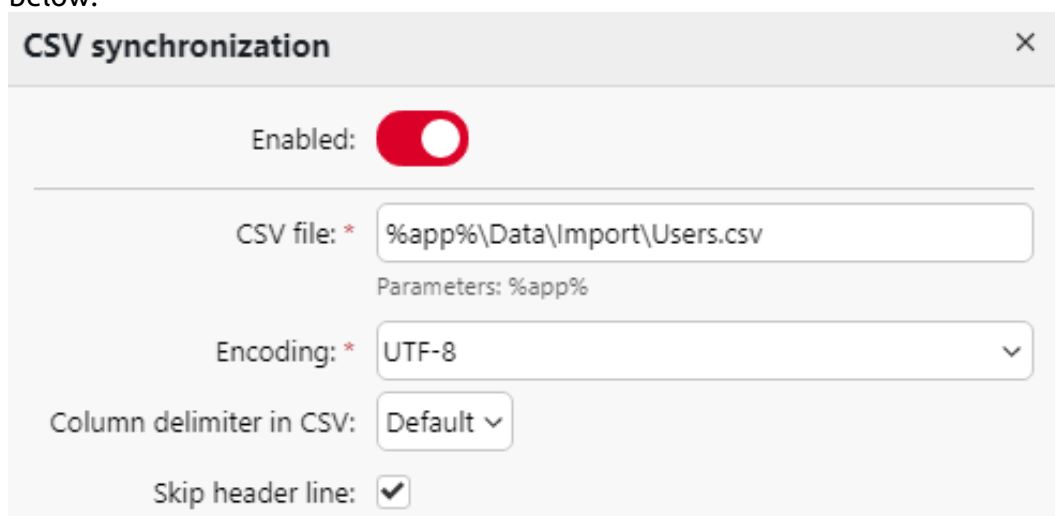
### Creating a new CSV synchronization

To create a new synchronization:

1. On the bar at the top of the **User Synchronization** settings tab, click **Add**, and then click **Add CSV source**. The CSV synchronization properties panel appears on the right side of the screen.



2. **Set up the synchronization:** On the CSV synchronization properties panel, set the path to the **CSV file** and configure the synchronization. For information about the synchronization options, see "CSV synchronization setup options" below.



3. **Save** the setup.

### CSV synchronization setup options

These are the CSV synchronization setup options:

- **Enabled:** Here you can enable or disable the synchronization.
- **CSV file:** Here you can set the path to the CSV file on the MyQ server.
- **Encoding:** Select the encoding that is used in the CSV file. The default value depends on the OS settings of the computer where you access the MyQ Web Interface on.
- **Column delimiter in CSV:** Select the delimiter that is used in the CSV file. If you select the **Default** option, MyQ scans for the delimiter set on the **Column delimiter in CSV** drop-down list box on the **General** settings tab.
- **Skip header line:** In case the CSV file contain a header line, you need to select this option and skip the first line of the file during the synchronization. All lists of users exported from MyQ contain the header line.
- **Import groups under this group:** Here you can select an existing group in MyQ under which you import the groups from the CSV file.

- **Synchronization source:** Here you can specify a different source than the CSV to be marked as the synchronization source by the MyQ system. For example, you can insert an LDAP server domain.
- **Ignore synchronization source:** If you select this option together with the **Deactivate missing users option**, all users that are not in the current synchronization source are deleted.
- **Use authentication server:** If you select this option, an LDAP or Radius server is used for the authentication of the imported users.
- **Authentication server:** Here you can select the LDAP or Radius domain for the user authentication.
- **Deactivate missing users:** If you select this option, MyQ deletes users that are imported from the current synchronization source and that are not in the source anymore. To delete users that were added from different sources, select the **Ignore synchronization source** option together with this option.
- **Add new users:** If you select this option, MyQ adds new users from the current synchronization source.
- **Pair users by personal number:** If you select this option, multiple accounts with a single personal number are paired.
- **Convert user name to lowercase:** If you select this option, all letters in user names are converted to lowercase.
- **Cards/PIN/Groups/Delegates:** In each of the mandatory drop-down boxes, you can select from these synchronization options for the respective parameter (Cards, PIN, Groups):
  - **Do not synchronize:** The value of the respective parameter in MyQ is not changed.
  - **Full synchronization:** The value of the respective parameter in MyQ is always replaced by the value in the CSV file. If the value in the source file is empty, the value in MyQ is erased.
  - **Synchronize if not empty:** If the respective field in the CSV file is not empty, the parameter value in MyQ is replaced by the value in the CSV file. Otherwise, the parameter value remains unchanged. This is the default setting.
  - **Add new:** If the parameter is already set in MyQ, it is not replaced. Only new values are added.

## CSV file syntax

In the list below, you can find information about individual fields of the CSV file.

A single word or a plain number can be put in the CSV fields as they are, while more complex strings, such as full name or email address, have to be bounded by quotes.

- **FULLNAME:** Name of the user in double quotation marks, for example "*Thomas Pineapple*".
- **USERNAME\_ALIASES:** Login of the user and eventually their aliases. The login should be the same as the user's domain login name, for example *Tom*. When you import multiple aliases, separate them with commas, for example "*Tom,Tomy,Apple*".
- **EMAIL:** Email of the user, for example "*t.pinapple@domain.com*".

- **CARDS:** Number of the user's authentication card/chip. It has to be inserted in the form in which it is read by the card/chip reader, for example *7E9700C9*.
- **GROUPS:** Here you can add user groups. You can import a whole branch of the groups tree structure. The groups on the imported branch have to be separated by vertical bars. If you want to import multiple groups (or groups tree branches), separate them by commas. For example, if you add two branches separated by a comma: "*Activities|Outdoor|Swimming,Activities|Outdoor|Birdwatching*", MyQ imports a single parent group *Activities* with a single child group *Outdoor*, with two child groups *Swimming* and *Birdwatching* (*Activities>Outdoor>Swimming,Birdwatching*). Commas and vertical bars cannot be used in group names as they are used as group delimiters.
- **CODE:** The personal number of the user. The ID number must be unique for each user. This parameter is very useful when using multiple sync sources.
- **SCANSTORAGE:** The folder or email where the user wants their scans to be sent to, for example "*\\Users\Tomy*".
- **PIN:** You can define one or more PINs to be assigned to users within the synchronization process. It is not absolutely necessary, as PINs may also be generated later within the setup of the user account. The PINs should be in the hashed MD5 format, for example *14BFA6BB14875E4*.
- **MANAGED\_GROUPS:** You can make the user the manager of a particular group by adding the group or path to the group here in the way in which you would import the group. If you want the user to be a manager of a child group, enter a whole branch ending with this group. For example, enter the branch "*Activities|Outdoor|Swimming*" to make the user a manager of the *Swimming* group. If there are no parents of the group in the group structure, enter just the group name, e.g. *Activities*. Commas and vertical bars cannot be used in group names as they are used as group delimiters.
- **AUTHSERVER:** In this field you may define the domain for user authentication, for example "*testAD.local*".
- **PHONE:** The user's phone number, for example *080008020*.
- **LANG:** Default language of the user, for example *en*.
- **PWD:** If you want to use the MyQ password, insert the password in the hashed MD5 format, for example *18BFA6BB14875E8*. If you are using a different authentication server (i.e. LDAP server), you can leave it empty.
- **EXTID:** EXTID is an internal MyQ parameter. This field has to be left empty.
- **DELEGATES:** For each user, you can import any number of delegates. If you import multiple delegates, separate them with commas, for example "*Carol,Kohei,Eliot*".

```
"FULLNAME"; "USERNAME_ALIASES"; "EMAIL"; "CARDS"; "GROUPS"; "CODE";
"SCANSTORAGE"; "PIN"; "MANAGED_GROUPS"; "AUTHSERVER"; "PHONE";
"LANG"; "PWD"; "EXTID"; "DELEGATES"
```

```
"Thomas Pineapple"; "Tom, Tommy, Apple"; "t.pineapple@domain.com";
7E9700C9;"Imported Users, Activities|Outdoor|Swimming,
Activities|Outdoor|Birdwatching";22212;"\\Users\Tomy";
14BFA6BB14875E4;Birdwatching;testAD.local;080008020;en; 18BFA6BB14875E8; ;"Carol,Kohei,Eliot";
```



## 9.7.5 User synchronization from Azure AD with SLDAP

Azure AD with SLDAP is a service accessed from the Microsoft Azure Portal. It has to be enabled and configured in Azure Active Directory Domain Services.

The activation and setup of the service are described in the following Microsoft guides:

- To enable and configure Azure Active Directory Domain Services:  
<https://docs.microsoft.com/en-us/azure/active-directory-domain-services/tutorial-create-instance>
- Configure Azure AD Domain Servers to use SLDAP:  
<https://docs.microsoft.com/en-us/azure/active-directory-domain-services/tutorial-configure-ldaps>

After you activate the Azure AD, you need to add it to MyQ and set up the synchronization in the standard way (see [User Import and synchronization](#)). When setting up the **Authentication server** in MyQ, you need to make sure that the LDAP server parameters are set to the following values:

- **Domain** = *DNS DOMAIN NAME* of the Azure AD Domain
- **Security**: *SSL*
- **Server** = *SECURE LDAP EXTERNAL IP ADDRESS* of the Azure AD Domain

Home > myqdev.onmicrosoft.com - Properties

## myqdev.onmicrosoft.com - Properties

Azure AD Domain Services

Search (Ctrl+)

- Overview
- Activity log
- Access control (IAM)

Manage

- Properties**
- Secure LDAP
- Health
- Notification settings

Troubleshooting + Support

- Troubleshoot
- New support request

DNS DOMAIN NAME  
myqdev.onmicrosoft.com

LOCATION  
West Europe

AVAILABLE IN VIRTUAL NETWORK/SUBNET  
MyQDevNetwork/MyQDevTestSubnet

NETWORK SECURITY GROUP ASSOCIATED WITH SUBNET  
AADDs-myqdev.onmicrosoft.com-NSG

IP ADDRESS ON VIRTUAL NETWORK  
10.0.0.5 10.0.0.4

SECURE LDAP  
Enabled

SECURE LDAP CERTIFICATE THUMBPRINT  
B3085415B5ABA88C04742B4D4D1F2F66F8E87025

SECURE LDAP CERTIFICATE EXPIRES  
Sat, 05 Oct 2019 06:35:17 GMT

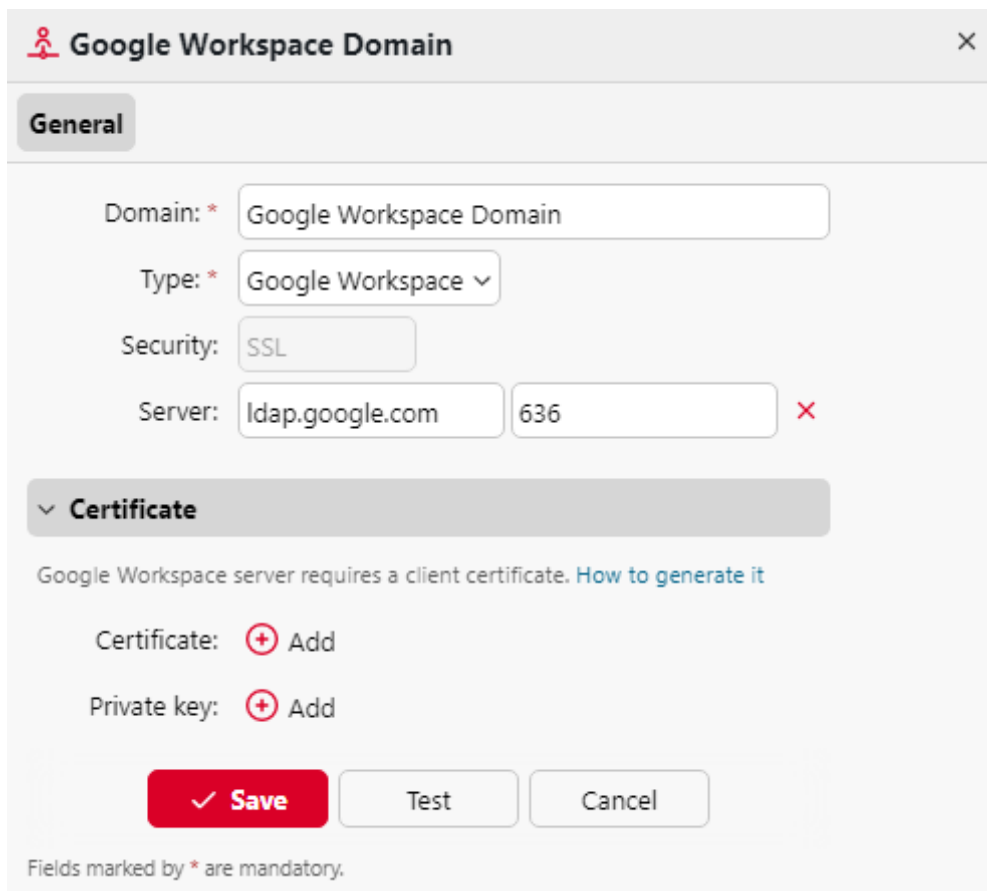
SECURE LDAP EXTERNAL IP ADDRESS  
51.144.178.118

### 9.7.6 User synchronization from Google Workspace

Google Workspace (previously named G-Suite), a set of cloud computing, productivity and collaboration tools, software and products developed by Google Cloud, can be used with MyQ Central Server (versions 8.0+). For setting up the connection to MyQ follow the short procedure below.

- Go to <https://support.google.com/a/answer/9048541?hl=en> to configure your Google Workspace Environment for working with MyQ as an LDAP Client.
  - Turn service status on or off
  - Edit access permissions
- Go to <https://support.google.com/a/answer/9048541#generate-certificateauthentication> to get a private key and a certificate.
  - Generate certificate authentication

- Generate access credentials.  
The downloaded file is a *\*zip* file containing the private key and the certificate you need for connecting to MyQ.
- After the above procedure, you need to set up the user synchronization from Google Workspace in the standard way. When setting up the **Authentication server** in MyQ, you need to make sure that the LDAP server parameters are set to the following values:
  - **Domain** - add your Google Workspace domain
  - **Type** - select *Google Workspace* from the drop-down
  - **Certificate** - click **Add** and browse to upload the downloaded certificate file (*.crt*)
  - **Private key** - click **Add** and browse to upload the downloaded private key file (*.key*)



**Google Workspace Domain** ×

**General**

Domain: \*

Type: \*

Security:

Server:   ×

▼ **Certificate**

Google Workspace server requires a client certificate. [How to generate it](#)

Certificate:

Private key:

Fields marked by \* are mandatory.

### 9.7.7 Using external authentication servers

In addition to the internal MyQ authentication methods (password, PIN or ID card), you can use two types of external authentication servers: LDAP and Radius.

With the two external methods, MyQ does not use the internal MyQ PIN or password for user authentication, but instead authenticates users against an LDAP or Radius server. After the user enters their credentials during the authentication, the

credentials are sent to be verified directly by the external server. If there is no online connection with the LDAP or Radius server, users cannot log in.

To enable this method of authentication, you have to take two steps:

1. register the external authentication servers in MyQ
2. select to use them for user authentication

To register external authentication servers in MyQ, see [Authentication Servers Settings](#).

Selecting to use the registered external authentication servers for user authentication, can be done either automatically during the user import from an LDAP server or a CSV file, or manually on the properties panels of individual users.

### Automatically selecting the external authentication option

#### Importing users from a CSV file

When you import users from a CSV file, you have two options of selecting the authentication server for the users:

1. You can select the **Use authentication server** option and select the server during the synchronization setup on the synchronization properties panel.
2. You can specify the **Authentication server** for a particular user in the **AUTHSERVER** field of the CSV file. If the field is not empty, its value has priority over the value selected on the properties panel.

For more information about importing users from CSV files, see [User synchronization from CSV files](#).

#### Importing users from an LDAP server

During the users import from an LDAP server, you can select the **Use authentication server option**, to use the current synchronization source server for users authentication. For information about importing users from LDAP servers, see [User synchronization from LDAP servers](#).

Unlike the **Use authentication server** setting for the import from a CSV file, which allows you to select the authentication server, the **Use authentication server** setting here gives you a single option — users will be authenticated against the LDAP server where they are imported from.

### Manually selecting the external authentication option

To manually select the external authentication option

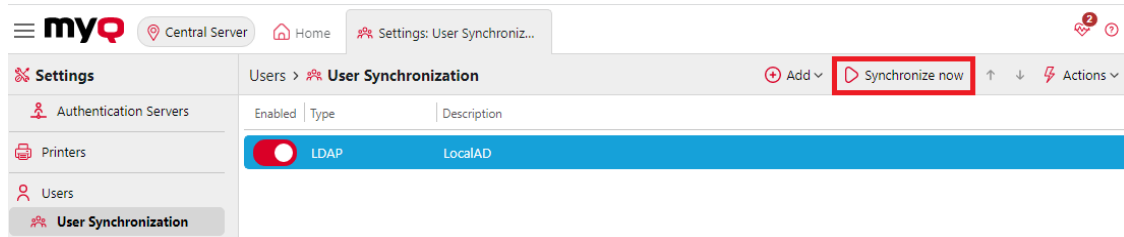
1. Open the **Users** main tab and double-click the user. The user's properties panel opens on the right side of the screen.
2. On the panel, select the **Use authentication server** option. The Authentication server setting becomes available.
3. On the Authentication server drop-down, select the server you want to use, and then click **Save** at the bottom of the panel.

## 9.7.8 Manual and scheduled synchronization run

The synchronization can be manually run on the **User Synchronization** tab of the MyQ Web Interface, or it can be set as a scheduled task on the **Task Scheduler** tab.

### Manual synchronization run

On the **User Synchronization** settings tab, enable the synchronizations that you want to run, and then click **Synchronize now** on the bar at the top of the tab.



### Scheduled synchronization run

On the **Task scheduler** settings tab, you can setup a scheduled run of the synchronization. For more information about this option, see [Task scheduler](#).

## 9.8 Users Settings

In the **Users** settings tab (**MyQ, Settings, Users**), the MyQ administrator can manage MyQ users **General** settings, the MyQ users **PIN** options, the MyQ accounts **Password complexity**, and the MyQ **Account lockout** options.

myQ Central Server Home Settings: Users

**Settings**

- License
- General
- Personalization
- Task Scheduler
- Network
- Connections
- Authentication Servers
- Printers
- Users**
  - User Synchronization
  - Rights
- Accounting
- Credit
- Data replication from sites
- Reports
- External Reports
- REST API Apps
- Log
- System Management

**Users**

**General**

Enable user profile editing:   
If enabled, user can change these properties: Full name, E-mail  
 Properties which can be changed always: Password, Default language

Show more info about user profile:   
Widget 'User profile' will contain more information

Enable deleting all ID cards:

**PIN**

User can change PIN:

Minimal PIN length: \*

Send new PIN via email:

Generate PIN for users created by synchronization or manual input:   
'Send new PIN via email' will be automatically checked

**Email with a new PIN**

Subject: \*

Message: \*   
Please contact the administrator at %admin% in case of further requests  
 %pin%, %username%, %realname%, %admin%

**Password complexity**

**Account lockout**

Fields marked by \* are mandatory.

## General section

- **Enable user profile editing** - By default, all users can change their password and their default language on their MyQ Web accounts and on some embedded terminals, while the rest of their properties can be changed only by the administrator. If the **Enable user profile editing** option is enabled, users can also change their full name and email, and select their delegates.
- **Show more info about user profile** - If enabled, the User profile widget on the MyQ web interface will contain more information.
- **Enable deleting all ID cards** - If enabled, all ID cards can be deleted.

## PIN section

The screenshot shows the MyQ User Authentication settings page. The left sidebar contains a navigation menu with categories like Settings, Printers & Terminals, Users, Accounting, and Credit. The main content area is titled 'Users > User Authentication' and is divided into several sections:

- PIN**:
  - User can change PIN:
  - Minimal PIN length:
  - Send new PIN via email:
  - Generate PIN for users created by synchronization or manual input:  (Note: 'Send new PIN via email' will be automatically checked.)
- Temporary PINs**:
  - Generate PINs as temporary:
  - Only for users in groups:
  - Validity of temporary PINs:  hours
- Email with a new PIN**:
  - Subject:
  - Message: 

Please contact the administrator at %admin% in case of further requests

Parameters: %pin%, %validity%, %username%, %realname%, %admin%
- Email with the PIN reset code**:
  - Subject:
  - Message: 

Your PIN reset code is: %code%

Go to the MyQ website, click "Lost PIN" and enter the code.

Your MyQ

Please contact the administrator at %admin% in case of further requests

Parameters: %code%, %username%, %realname%, %admin%

With the **User can change PIN** option selected, the users can generate a new PIN on their account on the MyQ Web User interface, by clicking **Generate PIN** on the **Home** screen of their user account.

The **Minimal PIN length** option determines the mandatory minimum PIN length. The number can be set between 4 and 16. If the administrator creates the PIN manually, it cannot be shorter than the value set in this field. If the PIN is generated by the system, it cannot be shorter than the value in this field, and also cannot be shorter than the minimal value enforced by the number of users, described below.

The required minimal PIN length that depends on the number of MyQ users is:

- < 1000 — 4-digit pin is required
- 1000 - 10 000 — 5-digit pin is required
- 10 000 - 100 000 — 6-digit pin is required

The required minimal length lowers the chance of randomly guessing the PIN. Also, trivial PINs, such as 1111 or 22222, are excluded from the automatic PIN generation process.

If the administrator increases the **Minimal PIN length** value, a pop-up will prompt them to generate new PINs for all the active users. If the administrator chooses to generate new PINs, the old PINs will be deleted and new PINs will be automatically sent via email to all the active users. Otherwise, the old, potentially shorter PINs will be kept.

With the **Generate PIN for users created in synchronization or manual input** option selected:

- A new PIN is generated for new, manually created users.
  - A manually created user without an email address will not receive the new PIN via email.
- During **User synchronization**, a new PIN is generated for every user that does not already have a PIN.
  - PINs are generated only for users with an email address. Users without an email address are skipped.

With the **Send new PIN via email** option selected, users are sent an email informing them about the new PIN every time a new PIN is generated. This is automatically checked if the above option (**Generate PIN for users created in synchronization or manual input**) is selected.

There are also email templates you can use for informing the users about their new PIN (**Email with a new PIN**) or for providing them with a reset code in case of a lost/forgotten PIN (**Email with the PIN reset code**). The template is editable and the values can be reset to their defaults if needed, by clicking **Revert values**.

### Temporary PIN section

With the option to **Generate PINs as temporary** selected for the user groups in the **Only for users in groups** field, the automatically generated PINs are always temporary. You can set the **Validity of temporary PINs** in hours (24 hours by default).

### Password Complexity section

In this section, the MyQ administrator manages the password complexity of MyQ users accounts.

▼ Password complexity

Minimum length: \*

Enforce password complexity: \*  of 4 rules

At least one upper-case letter  
 At least one lower-case letter  
 At least one number  
 At least one special (non-alphanumeric) character

- **Minimum length** - set the minimum character length for the password, in range 1-100 (8 by default).
- **Enforce password complexity** - set how many of the four password complexity rules are to be enforced (2 by default):
  - At least one upper-case letter
  - At least one lower-case letter
  - At least one number
  - At least one special (non-alphanumeric) character

### Account lockout section

In this section, the MyQ administrator can set the number of failed login **Attempts before lockout**, and the **Lockout time** (in minutes).



Account lockout

Attempts before lockout: \*

Lockout time: \*  minutes

## 9.9 Rights

On the **Rights** settings tab, you can provide users or groups of users with administrator rights or provide them with rights to run one or more of the MyQ agendas: they can perform actions, change settings or see information that are inaccessible under a standard user account. On the tab, you can add users or groups and provide them with the rights.

To add a new user or a group of users to the list on the **Rights** settings tab:

1. On the **Rights** settings tab, click **+Add User**. The Select user or group dialog box appears.
2. In the dialog box, select the user (or group) and click **OK**.
3. Select the user (or group) rights.
4. Click **OK**. The user (or group) appears on the list on the **Rights** settings tab.

The screenshot shows the MyQ web interface. At the top, there is a navigation bar with the MyQ logo, a 'Central Server' location indicator, and buttons for 'Home' and 'Settings: Rights'. Below this is a sidebar menu with categories like Settings, License, General, Personalization, Task Scheduler, Network, Printers, Users, Accounting, and Credit. The 'Rights' tab is selected in the sidebar.

The main content area shows the 'Users > Rights' section. It includes an 'Add User' button, a search bar, and a list of rights. A dialog box is open over the rights list, showing a 'General' section with the following options:

- Administrator
- Manage licenses
- Manage payments
- Manage reports
- Manage settings
- Manage users
- Manage vouchers
- Read Jobs
- Recharge credit
- View log
- View printers

At the bottom of the dialog box, there are two buttons: a red 'OK' button and a 'Cancel' button.

To edit a user's rights:

Double-click the user (or the group) on the list of users and groups on the **Rights** settings tab. The panel appears on the left side of the screen.

In the user rights panel, under the **General** section, you can change the user's rights. These rights are described below:

- **Administrator** - The user is provided with administrator (\*admin) rights.
- **Manage licenses** - The user can view and manage MyQ licenses on the **License** settings tab.
- **Manage payments** - The user gets access to the **Payments** main tab.
- **Manage reports** - The user can manage all reports.
- **Manage settings** - The user gets access to management of all settings on the **Settings** tab of the MyQ Web interface except for the settings on the **Rights** tab.
- **Manage users** - The user gets access to the **Users** main tab, the **Users** settings tab and the **Policies** settings tab, can add users and change their settings and rights. The user also gets access to the **Accounting** settings tab, but cannot change the settings. Access to the **Credit** settings tab is granted, but the user is only allowed to change Users and Groups.
- **Manage vouchers** - The user can get access to the **Voucher Batches** main tab.
- **Read Jobs** - The user can see other users' jobs.
- **Recharge credit** - The user gets access to the **Recharge credit** main tab.
- **View log** - The user can view the MyQ log.
- **View printers** - The user gets access to the **Printers** main tab, to monitor printers.
- **Delete Cards** - If granted, the user has the **Delete all ID cards** button available on their User profile widget in the MyQ web UI and they able to delete all their ID cards.

## 10 Credit

With the credit accounting feature activated, users can copy, print, and scan only if they have enough credit on their account in MyQ. Printing is allowed only for print jobs that do not exceed the credit, and copying is terminated immediately after the credit is exceeded. The credit system can be restricted to selected users and groups.

Users can view the current amount of credit on their accounts on the MyQ Web Interface and in the MyQ mobile application. If a printing device is equipped with an embedded terminal or a reader with an LCD display, the logged users check the current state of their credit there and are allowed to select only those jobs that do not exceed their credit.

Based on the setup and properties of the printing environment, a variety of recharge methods may be employed. The MyQ administrator can manage the credit on the MyQ Web Interface, and also provide the users with the option to recharge the credit themselves on embedded terminals, on recharging terminals, in the MyQ mobile application, via recharging vouchers, or via a third-party payment method.

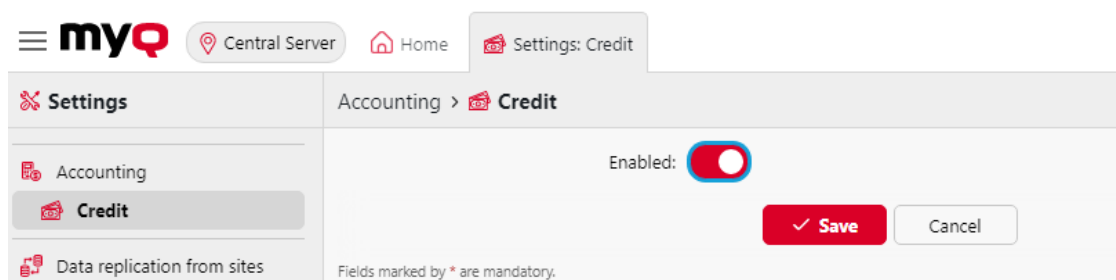
The MyQ Administrator (and authorized MyQ users) can also reset the credit to a specific amount on the MyQ Web Interface.

### 10.1 Activation and setup

The activation and setup of credit accounting is managed on the **Credit** settings tab (**MyQ, Settings, Credit**).

To set up credit accounting:

On the **Credit** settings tab, set credit accounting to **Enabled** and click **Save**:



**Activate credit for a user or for a group of users:**

- Under **Users and Groups**, click **+Add item**. A new item appears on the list of users and groups on the **Credit** settings tab. Select a **Name** (user or group) from the drop-down.
- Click **OK** to save the settings.

## Enable/disable methods of payment for credit recharge

Available payment methods:

- CASHNet
- External Payment Providers
- PayPal
- SnapScan
- TouchNet uPay
- Voucher
- WebPay

To enable any of these options (if disabled), select it in the **Payment providers** section, and then click **Enabled** on the bar at the top of the section (or right-click the item, and then click **Enabled** on the shortcut menu).

Payment providers <span style="float: right;">Edit Enabled</span>		
Enabled	Name	Type
<input type="radio"/> Disabled	CASHNet	Credit recharge
<input checked="" type="radio"/> Enabled	External Payment Providers	Credit recharge
<input type="radio"/> Disabled	PayPal	Credit recharge
<input type="radio"/> Disabled	SnapScan	Credit recharge
<input type="radio"/> Disabled	TouchNet uPay	Credit recharge
<input checked="" type="radio"/> Enabled	Voucher	Credit recharge
<input type="radio"/> Disabled	WebPay	Credit recharge

- = Make sure to refresh your browser (reload the page or press the F5 button) after enabling or disabling Credit to display/hide credit-related functions.

## 10.2 Manual Credit recharge

The administrator (and users authorized to recharge credit) can manually recharge the credit of each user to a specific value. This can be done either on the **Credit**

**Statement** main tab, or on the **Users** main tab in the MyQ Web administrator interface.

On the Credit Statement tab, you first open the credit recharge action, and subsequently select the users and groups to recharge credit.

On the Users tab, first select the users or group, and then recharge their credit.

Users' credit can be reduced by entering a negative number in the recharge credit dialog box. By entering *-100*, the credit is decreased by 100.

### 10.2.1 Providing users with rights to recharge credit

By default, the only person who can recharge credit is the administrator. However, the administrator can authorize a MyQ user to recharge credit as well. The user needs to be provided with the rights to access the credit settings and to recharge credit. This is done on the **Rights** settings tab of the MyQ Web Interface.

To authorize a user to recharge credit on the **Credit Statement** tab, you need to provide them with the right to **Recharge credit**.

To authorize a user to recharge credit on the **Users** tab, you need to provide them with the right to **Recharge credit**, and the right to **Manage Users**.

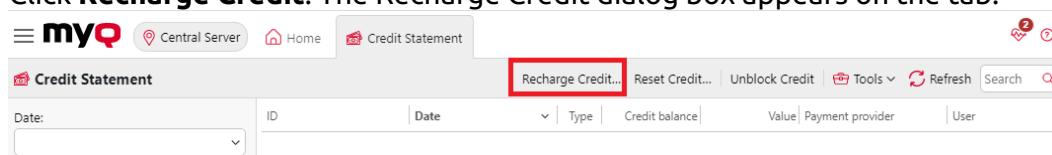
The authorized user can then recharge credit on their MyQ Web interface in the same way as the MyQ administrator.

### 10.2.2 Recharging credit on the Credit Statement tab

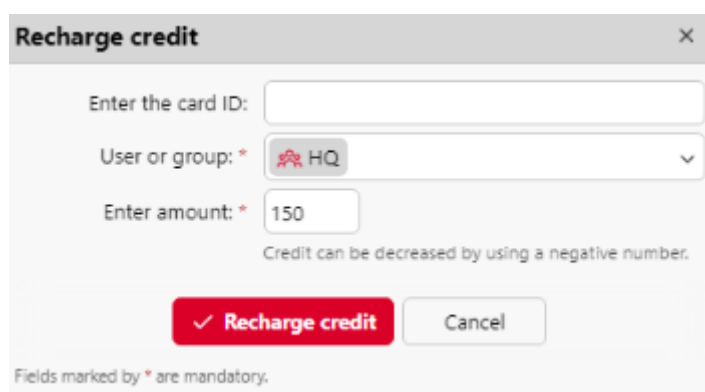
On the **Credit Statement** tab, you can overview the changes in the credit balance of MyQ users, and also recharge credit to users and groups. To open the tab on the MyQ Web administrator interface, go to **MyQ, Credit Statement**.

To recharge credit to users or groups:

1. Click **Recharge Credit**. The Recharge Credit dialog box appears on the tab.



2. In the dialog box, either **Enter the card ID** of a user card, or select the **User or group** to recharge the credit to, then **Enter amount** to be recharged, and lastly click **Recharge credit**.



**Recharge credit** [X]

Enter the card ID:

User or group: \* HQ [v]

Enter amount: \*

Credit can be decreased by using a negative number.

Fields marked by \* are mandatory.

You can also **Reset Credit** and **Unblock Credit** to users or groups, by clicking the relevant button, selecting the user or group, and the credit amount.

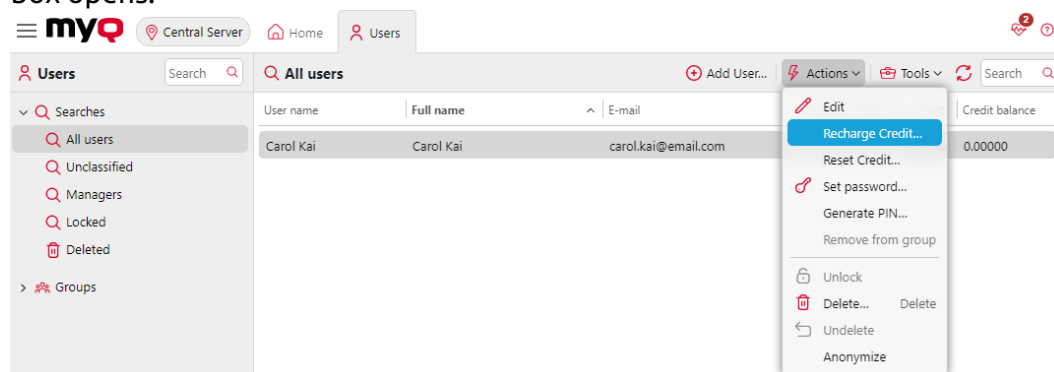
Depending on the administrator and device settings, when the server blocks credit on the account, it temporarily decreases the available balance until the user session finishes. This prevents spending the same credit multiple times resulting in a negative balance. Credit may also be blocked when there is a server or account failure while the user's session is active.

### 10.2.3 Recharging credit on the Users main tab

To open the **Users** main tab on the MyQ Web administrator interface, go to **MyQ, Users**.

To recharge credit to selected users:

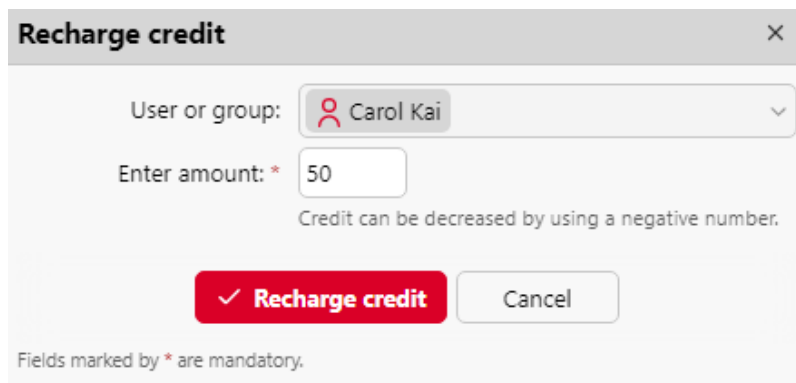
1. Select the users.
2. Click **Actions**.
3. Click **Recharge Credit** in the **Actions** drop-down. The Recharge Credit dialog box opens.



The screenshot shows the MyQ Users interface. The 'Users' tab is active, displaying a list of users. The 'Actions' menu is open, showing options like 'Edit', 'Recharge Credit...', 'Reset Credit...', 'Set password...', 'Generate PIN...', 'Remove from group', 'Unlock', 'Delete...', 'Undelete', and 'Anonymize'. The user 'Carol Kai' is selected, and the 'Recharge Credit...' option is highlighted.

User name	Full name	E-mail	Credit balance
Carol Kai	Carol Kai	carol.kai@email.com	0.00000

4. **Enter amount** to be recharged, and then click **Recharge credit**. The credit is increased by the specified amount.



**Recharge credit** ×

User or group: Carol Kai ▾

Enter amount: \*

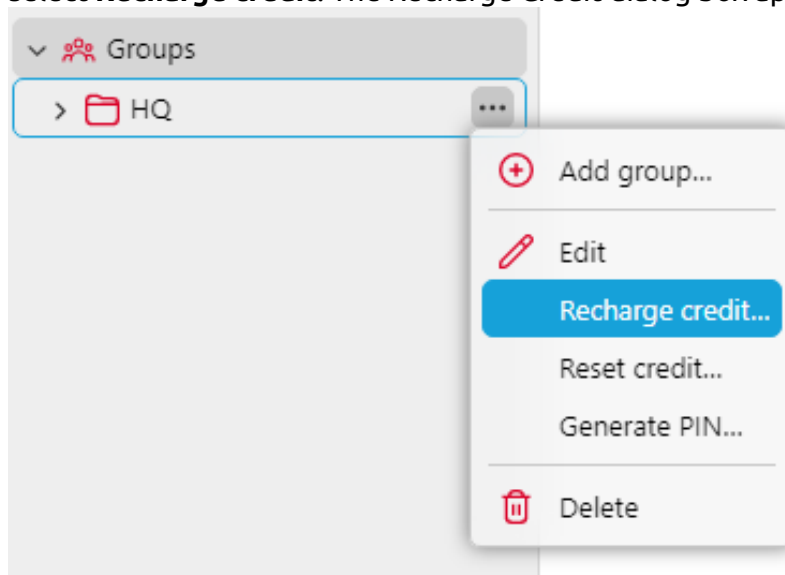
Credit can be decreased by using a negative number.

✓ **Recharge credit** Cancel

Fields marked by \* are mandatory.

To recharge credit to a group of users:

1. In the panel on the left side of the **Users** main tab, right-click the group, and select **Recharge credit**. The Recharge Credit dialog box appears.



2. In the dialog box, **Enter amount** to be recharged and click **Recharge Credit**. The credit is increased by the specified amount.

### 10.3 Recharging credit via CASHNet

The **CASHNet** payment gate enables customers to directly pay for their credit via a payment card or via a digital wallet.

To be able to integrate the **CASHNet** payment gate into MyQ, you need to have a **Checkout store** created by the service provider. For the correct setup and MyQ integration, you need to save the following data:

- **Operator ID, Password, Station, and Client Code** are necessary for logging in to the CASHNet Web User Interface.
- **Merchant name, Station, Store URL, and Item code** of the **Checkout store** are necessary for the integration into MyQ.

## 10.3.1 Setting up CASHNet

### Set up the eMarket store on the CASHNet Web User Interface

1. Log in to the **CASHNet** Web User Interface.
2. Open the **Store Setup** tab.

The screenshot shows the CASHNet Web User Interface. At the top, there is a navigation bar with tabs: Home, Cashiering, Find Transactions, Reports, and Store Setup. Below the navigation bar is a sidebar menu with the following items: Home Page, Cashiering, Checkout, Find Transactions, Reports, Online Service Manager, Imports, System Setup, Store Setup (highlighted with a yellow circle and a mouse cursor), and Fulfill Orders. The main content area displays the following information:

**Home Page**

Home Page

Cashiering Operator: MYQ Department: MAIN Station: [MYQ](#) Client: EMAR

Checkout

- Your last login was on Tuesday, July 24, 2018 at 1:27:13
- Your password expires in 89 days. Click [here](#) to change it
- To change your secret question click [here](#).

Find Transactions

Reports

Online Service Manager

Imports

**Messages**

Have a question? Email us at [support@cashnet.com](mailto:support@cashnet.com) or phone .  
Thanks!  
CASHNet Support

System Setup

Store Setup

Fulfill Orders

**Your Batches**

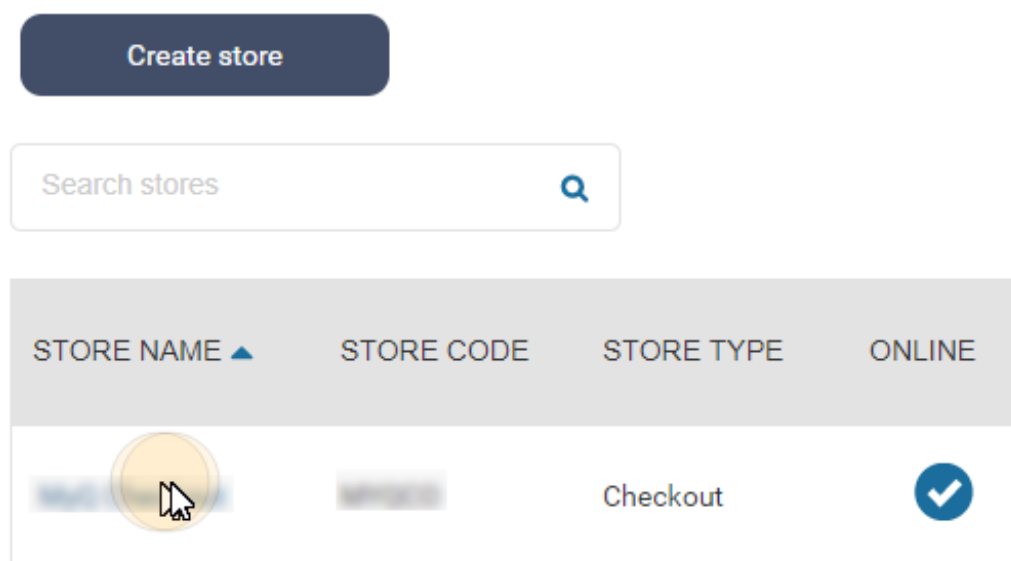
3. On the tab, click the dark blue button with the text **Click here to use new eMarket store setup for Storefronts&Checkouts**. The eMarket store setup page opens.

Click here to use the new eMarket store setup for Storefronts & Checkouts

4. On the page, double-click the **Checkout store** button to open its setup page.



## eMarket



5. On the Checkout setup page, under **End of transaction behavior**, configure the following options:
  - a. **Show receipt page:** *disable*
  - b. **Use redirect URL(s):** *enable*
  - c. **Redirect URL for successful transactions & successful online post responses:** leave empty
  - d. **Redirect URL for unsuccessful transactions or non-responsive online post attempts:** leave empty
  - e. **Append data to the redirect URL:** set to *Yes, and redirect using HTTP post*

### End of transaction behavior

Show receipt page

Use redirect URL(s)

Redirect URL for successful transactions & successful online post responses

Redirect URL for unsuccessful transactions or non-responsive online post attempts

Append data to the redirect URL  No  Yes, and redirect using HTTP get  Yes, and redirect using HTTP post

You can now leave the CASHNet Web User Interface.

### Set up the CASHNet payment option on the MyQ Web Interface

1. Open the **Credit** settings tab (**MyQ, Settings, Credit**).
2. On the tab, under **Payment providers**, double-click the **CASHNet** payment provider (or right-click the **CASHNet** payment provider, and then click **Edit** on the shortcut menu). The **CASHNet** properties panel opens on the right side of the tab.

**CASHNet** [Close]

Currency:   
3-letter currency code

Minimal amount:

▼ **CASHNet**

Merchant name:

Station:

Store URL:

Item code:

3. The value of the **Currency** setting corresponds to the currency set on the **General** settings tab of the MyQ Web Interface.
4. Type the **Minimal amount** that users will have to pay when they buy credit.
5. Enter the **Merchant name**, **Station**, **Store URL**, and **Item Code** of the Checkout store, and then click **Save**.

### 10.3.2 Recharging credit via CASHNet on the user's account on the MyQ Web Interface

First of all, the user needs to log in to their account on the MyQ Web Interface. To recharge the credit there, the user has to click **Recharge credit** under **Credit**. The Recharge credit dialog appears.

myQ Home

Home

**Quick links**

[Jobs](#) [Reports](#) | [Settings](#)

**Credit**

Account balance: **0.00**

In the dialog box, the user has to select the **CASHNet** payment provider, **enter the amount** of credit that they want to buy, and then click **Recharge Credit**.

A window with the **CASHNet** payment options opens in the web browser; the rest of the steps correspond to the standard **CASHNet** payment process.

After the payment is successfully sent to MyQ, the **Payment successful** dialog box appears.

**[-]** CASHNet tries to connect to the MyQ server via the hostname or IP address that is set on the **Network** settings tab of the MyQ Web Interface. In case a hostname is set on the tab and paying users receive the "*This site can't be reached / XYZ's server DNS address could not be found. / DNS\_PROBE\_FINISHED\_NXDOMAIN*" message. Try to replace the hostname with the IP address of your server.

## 10.4 Recharging credit via PayPal

Another way of recharging credit in MyQ is to let users directly buy the credit via PayPal on their accounts on the MyQ Web interface.

A PayPal Business account is required to receive the payments.

The currency used on the PayPal account of the paying users has to match the currency set on the MyQ server. In case someone pays in a different currency, the payment does not go through and stays in the pending transactions of the receiving PayPal account. In order to receive the payment, the administrator has to approve the transaction on the PayPal account. After this, the credit must be manually recharged on the MyQ server as the information about the payment is not sent to MyQ.

### 10.4.1 Setting up PayPal

To set up PayPal as a payment option, you have to create a new App to link your company's PayPal business account with MyQ, and then set up the PayPal payment option on the MyQ Web Interface.

#### Create a new REST API app in the PayPal Developer environment

1. Log in to the PayPal Developer environment (<https://developer.paypal.com/>) with your PayPal Business account's credentials, and then open the **Dashboard**.
2. On the **Dashboard**, under **MyApps & Credentials**, create a new REST API app. The new app's settings tab opens.

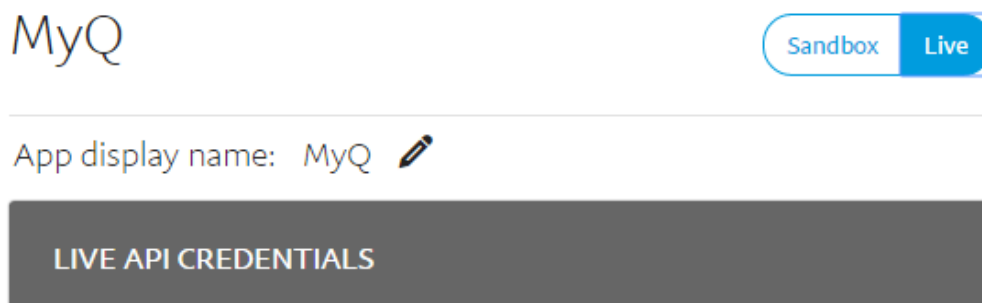
#### REST API apps

Create an app to receive REST API credentials for testing and live transactions.

**Note:** Features available for live transactions are listed in your [account eligibility](#).

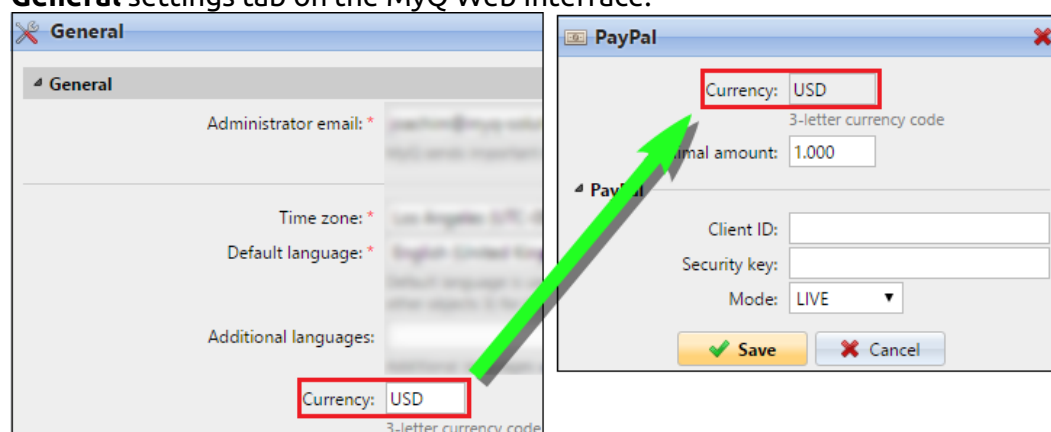


3. Select **Live** at the upper-right corner of the tab, and remember (copy) the app's **Client ID** and **Secret**. The credentials will be used to connect the account to MyQ.

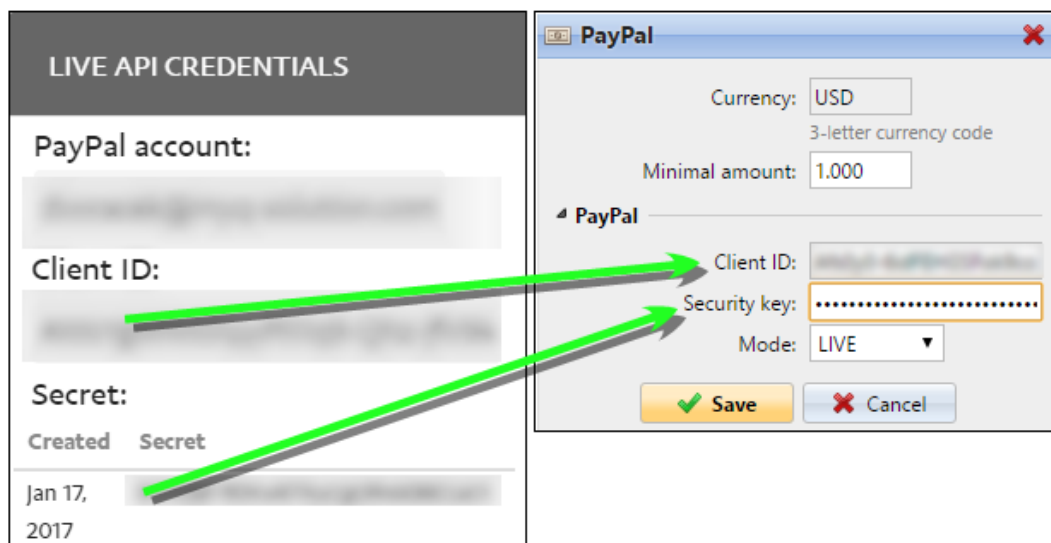


### Set up the PayPal payment option on the MyQ Web Interface

1. Open the **Credit** settings tab (**MyQ, Settings, Credit**).
2. On the tab, under **Payment providers**, double-click the **PayPal** payment provider. The **PayPal** properties panel opens on the right side of the tab.
3. The value of the **Currency** setting corresponds to the currency set on the **General** settings tab on the MyQ Web Interface.



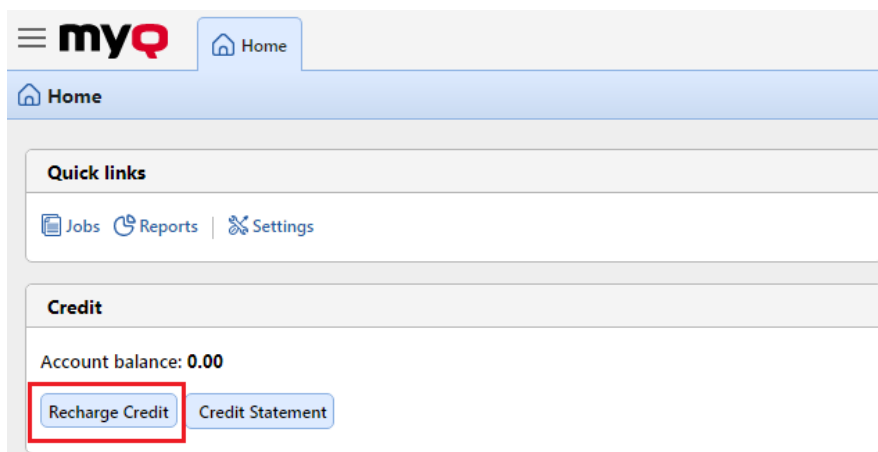
4. Type the minimal amount that users will have to pay when they buy credit.
5. Enter the **Client ID** of the REST API app into the **Client ID** text box on the PayPal properties panel and the **Secret** into the **Security key** text box below it.



6. Make sure that the *LIVE Mode* is selected, and then click **Save**. (The *SANDBOX* mode is used only for testing purposes).

### 10.4.2 Recharging credit via PayPal on the user's account on the MyQ Web Interface

First of all, the user needs to log in to their account on the MyQ Web Interface. To recharge the credit there, the user has to click **Recharge credit** under **Credit**. The Recharge credit dialog appears.



In the dialog box, the user has to select the **PayPal** payment provider, enter the amount of credit that they want to buy, and then click **Recharge Credit**.

A window with the PayPal payment options opens in the web browser; the rest of the steps correspond to the standard PayPal payment process.

After the payment is successfully sent to MyQ, the **Payment successful** dialog box appears.

- PayPal tries to connect to the MyQ server via the hostname or IP address that is set on the **Network** settings tab of the MyQ Web Interface. In case a hostname is set on the tab and paying users receive the "This site can't be reached / XYZ's server DNS address could not be found. / DNS\_PROBE\_FINISHED\_NXDOMAIN" message, try to replace the hostname with the IP address of your server.

## 10.5 Recharging credit via SnapScan

With the **SnapScan** app, users can pay for their MyQ credit via a QR code displayed in the app on their mobile phones.

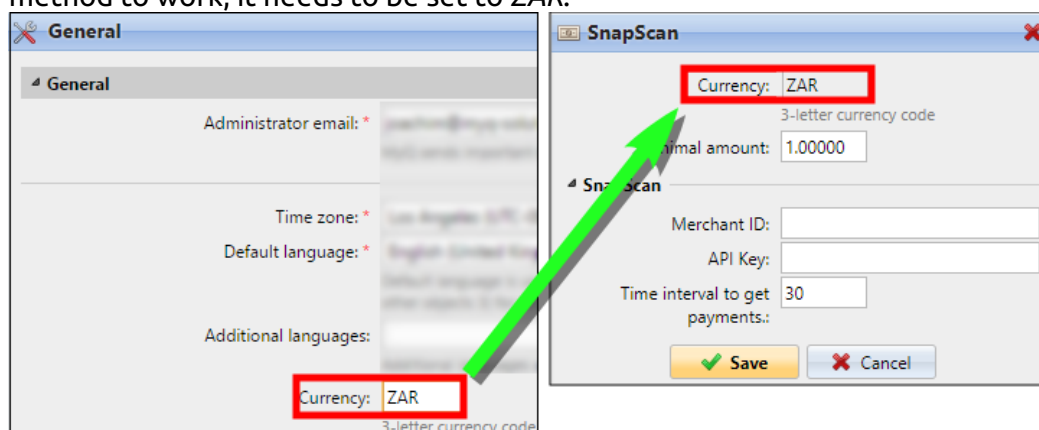
To be able to connect **SnapScan** to MyQ, you need to create a **Merchant SnapScan Account** and obtain the **Merchant Account API**. Within the setup of the connection on the MyQ Web Interface, you must enter the **Merchant ID** and the **API key** of the account.

As **SnapScan** is a South African service, users need to use a phone with a South African Mobile number (+27) to be able to scan the QR code and pay for the credit.

### 10.5.1 Setting up the SnapScan payment option

To set up the SnapScan payment option on the MyQ Web Interface:

1. Open the **Credit** settings tab (**MyQ, Settings, Credit**).
2. On the tab, under **Payment providers**, double-click the **SnapScan** payment provider. The **SnapScan** properties panel opens on the right side of the tab.
3. The value of the **Currency** setting corresponds to the currency set on the **General** settings tab of the MyQ Web Interface. For the SnapScan payment method to work, it needs to be set to **ZAR**.

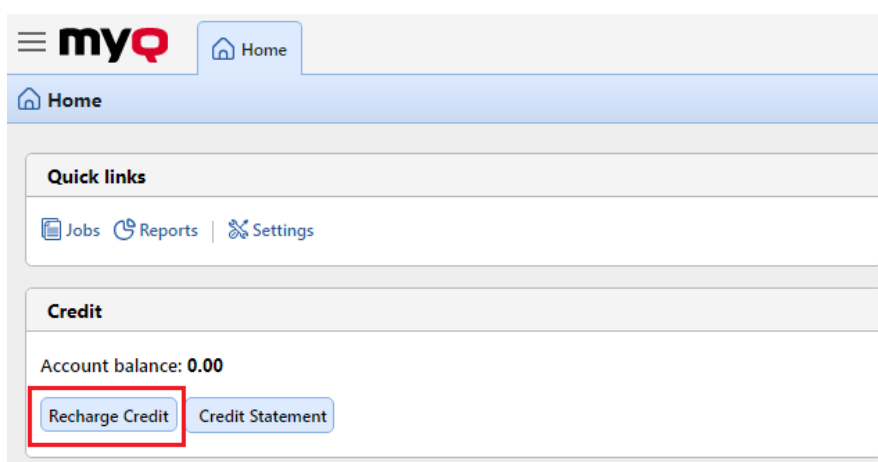


4. Type the **Minimal amount** of money that has to be paid when a user buys the credit.
5. Enter the **Merchant ID**(Company Name) and the **API key** provided by SnapScan.
6. Set the **Time interval to get payments** (in seconds), and click **Save**. The **Time interval to get payments** setting limits the time for the recharge action; if

MyQ does not receive confirmation of the payment within the interval, the credit recharge is canceled. If the payment is successful but MyQ does not receive the response within the time limit, the user has to contact the MyQ administrator, who can manually recharge the credit.

## 10.5.2 Recharging credit via SnapScan on the user's account on the MyQ Web Interface

First of all, the user needs to log in to their account on the MyQ Web Interface. To recharge the credit there, the user has to click **Recharge credit** under **Credit**. The Recharge credit dialog appears.



In the dialog box, the user has to select the **SnapScan** payment provider, **enter the amount** of credit that they want to buy, and then click **Recharge Credit**.

A window with the SnapScan payment options opens in the web browser; the rest of the steps correspond to the standard SnapScan payment process.

After the payment is successfully sent to MyQ, the **Payment successful** dialog box appears.

- = SnapScan tries to connect to the MyQ server via the hostname or IP address that is set on the **Network** settings tab of the MyQ Web Interface. In case a hostname is set on the tab and paying users receive the "*This site can't be reached / XYZ's server DNS address could not be found. / DNS\_PROBE\_FINISHED\_NXDOMAIN*" message, try to replace the hostname with the IP address of your server.

## 10.6 Recharging credit via TouchNet uPay

With partner driven recurring payments, the TouchNet Ready Partner application is the recurring engine controlling when payments take place, as well as the amount of each payment. The TouchNet Ready Partner's application links the user to the uPay payment pages where the user enters their payment information. This can be either a

credit card or a bank account. This solution is widely used on American campuses for making payments.

### 10.6.1 Setting up TouchNet uPay

To use this option in MyQ you must be a partner of TouchNet.

MyQ only supports SSL, so your MyQ application must use a secure port. The default is *8093*.

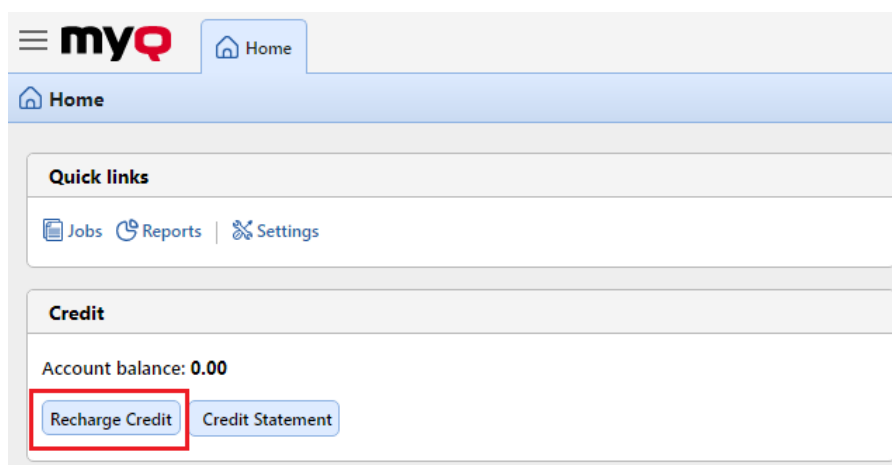
You also need to copy the following information **Client ID**, **API Key** and **uPay Site ID**.

To setup TouchNet uPay in MyQ:

1. Open the **Credit** settings tab (**MyQ, Settings, Credit**).
2. On the tab, under **Payment providers**, double-click the **TouchNet uPay** payment provider. The **TouchNet uPay** properties panel opens on the right side of the tab.
3. The value of the **Currency** setting corresponds to the currency set on the **General** settings tab on the MyQ Web Interface. TouchNet uPay uses USD as currency.
4. Type the **Minimal amount** that users will have to pay when they buy credit. Leaving it blank will accept every payment.
5. Enter the information you got from TouchNet into the mandatory fields **Client ID**, **API Key** and **uPay Site ID**.
6. Use *TEST* as **Mode** when you are not yet in production, otherwise use *PRODUCTION*.
7. Click **Save** to store your settings.

### 10.6.2 Recharging credit via TouchNet uPay on the user's account on the MyQ Web Interface

First of all, the user needs to log in to their account on the MyQ Web Interface. To recharge the credit there, the user has to click **Recharge credit** under **Credit**. The Recharge credit dialog appears.



In the dialog box, the user has to select the **TouchNet uPay** payment provider, enter the amount of credit that they want to buy, and then click **Recharge Credit**.



A window with the TouchNet uPay payment options opens in the web browser; the rest of the steps correspond to the standard TouchNet uPay payment process.

After the payment is successfully sent to MyQ, the **Payment successful** dialog box appears.

- TouchNet uPay tries to connect to the MyQ server via the hostname or IP address that is set on the **Network** settings tab of the MyQ Web Interface. In case a hostname is set on the tab and paying users receive the "*This site can't be reached / XYZ's server DNS address could not be found. / DNS\_PROBE\_FINISHED\_NXDOMAIN*" message, try to replace the hostname with the IP address of your server.

## 10.7 Recharging credit by vouchers

The MyQ administrator (and users authorized to manage vouchers) can generate and print any number of vouchers of a defined value to be distributed to users.

The vouchers can be sold to MyQ users through any standard distribution channel. Once the user has the credit voucher, they can recharge their credit on their account on the MyQ Web Interface, on embedded terminals, on MyQ TerminalPro terminals and in the MyQ mobile application.

All generated and used vouchers are logged in the MyQ database. The information about which voucher was used and for which user can be accessed on the MyQ Web administrator interface. This ensures full control and transparency and enables the administrator to prevent possible misuse.

To enable users to manage vouchers on the **Voucher Batches** main tab, provide them with the **Manage Vouchers** rights. For more information about rights and how to provide them, see [Rights](#).

### 10.7.1 Setting the voucher format

Before the vouchers are generated, it is necessary to set the format of the voucher unique code and define the text printed on the voucher. These parameters can be set and modified on the **Credit** settings tab, under **Payment providers**. Double-click the **Voucher** item (or select the item and click **Edit**) to open the **Voucher** properties panel.

The unique code format can be defined by creating a **Voucher code mask** – a predefined code template consisting of zeroes and lower case a's. Zeroes are substituted by numbers and a's are substituted by upper case letters or numbers. For example, the *00a0000aaa* mask will generate numbers such as *86D9841POE*, *03E8976E67*, etc.

Always set the code format adequate to the number of users and the frequency of the voucher generation process, to ensure a sufficient variety of codes. If the amount of the currently valid codes is large and the variety not sufficient, the chance of

randomly guessing the valid code number is high and the credit system can be easily bypassed.

The text entered in the **Voucher-custom lines 1 and 2** fields is displayed on the printed vouchers. You can enter, for example, the name of your company and additional information.

Do not forget to set the currency on the **General** settings tab, if you have not set it earlier. The currency on the printed voucher is the same as the one set in MyQ.

### 10.7.2 Custom logo for Credit Vouchers

If you want to use your own logo on MyQ credit vouchers instead of the default MyQ logo, you can import the new logo on the **Personalization** settings tab in the MyQ Web Administrator Interface.

The file with the logo has to be in the *JPG*, *JPEG*, *PNG* or the *BMP* format; the recommended size of the logo is *398px x 92px*.

To import the logo:

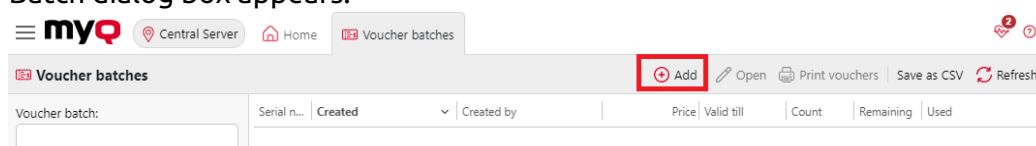
1. On the MyQ Web administrator interface, open the **Personalization** settings tab. (**MyQ, Settings, Personalization**).
2. On the tab, under **Custom application logo**, click **+Add**, browse and upload the file with the logo, and lastly click **Save** at the bottom of the tab. A preview of the new logo is displayed on the tab.

### 10.7.3 Voucher Batches

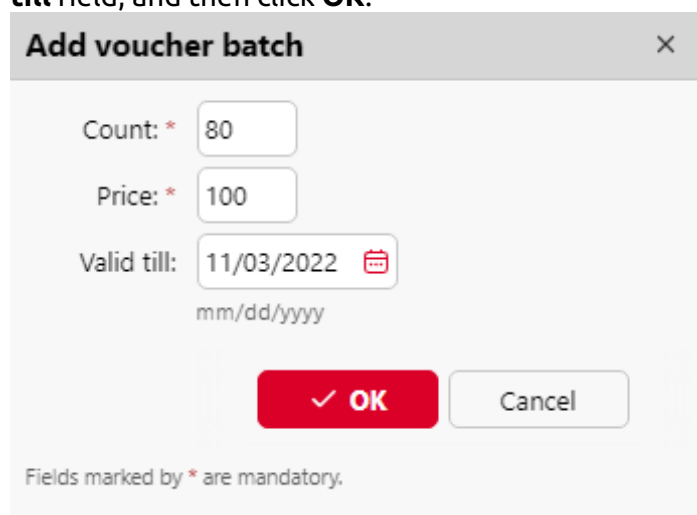
Vouchers can be generated on the **Voucher Batches** tab of the MyQ Web Interface. To open this tab, go to **MyQ, Voucher Batches**.

To generate new vouchers:

1. On the bar at top of the **Voucher Batches** tab, click **+Add**. The New Voucher Batch dialog box appears.



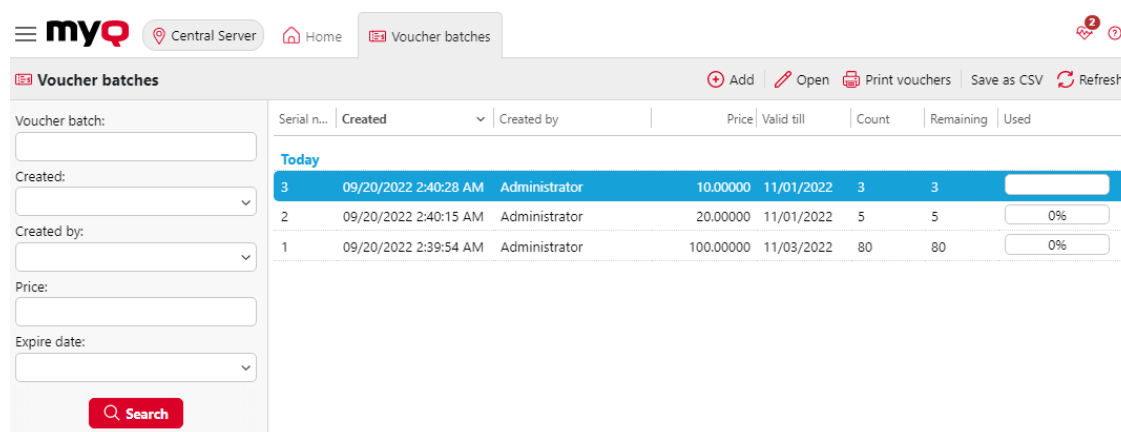
- In the dialog box, enter the number of vouchers to be generated in the **Count** field, the **Price** of the vouchers in the batch, add the validity period in the **Valid till** field, and then click **OK**.



The new voucher batch record is displayed in the voucher batches list. You can overview all of the vouchers by double-clicking this record.

## Managing Voucher Batches

Voucher batches can be filtered by serial number, date, creator, price and expire date. From the **Voucher Batches** main tab, you can export the list of voucher batches to a CSV, and display and print vouchers included in particular batches.



Serial n...	Created	Created by	Price	Valid till	Count	Remaining	Used
3	09/20/2022 2:40:28 AM	Administrator	10.00000	11/01/2022	3	3	
2	09/20/2022 2:40:15 AM	Administrator	20.00000	11/01/2022	5	5	0%
1	09/20/2022 2:39:54 AM	Administrator	100.00000	11/03/2022	80	80	0%

### 10.7.4 Vouchers usage overview

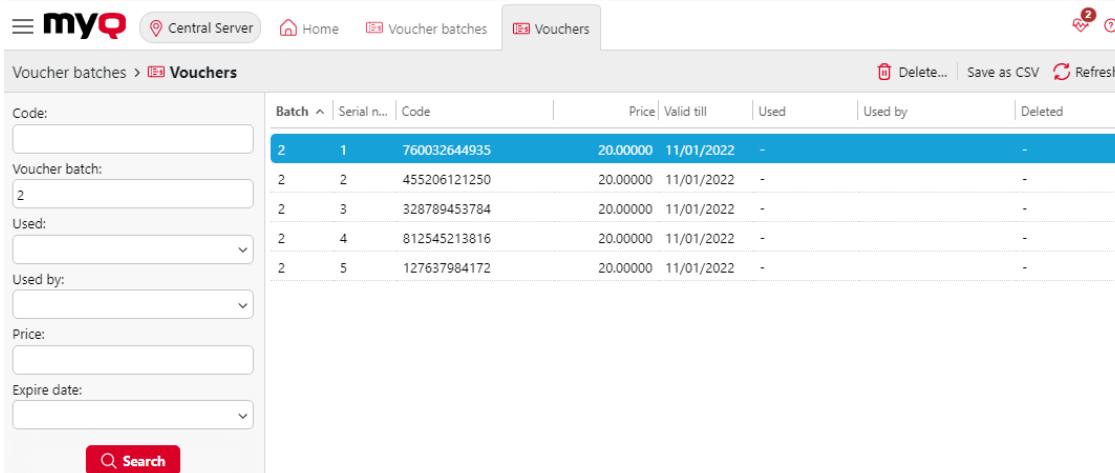
To open the table of all the vouchers generated in one batch, double-click the batch on the **Voucher Batches** main tab (or select the batch, and then click **Open** on the bar at the top of the tab).

In the table, you can see records of all of the generated vouchers with information such its unique code, price, validity, the current status of the voucher usage, etc. If

the number of records is too high to be displayed clearly, you can filter them by using filters on the left side. Vouchers can be filtered by code, voucher batch, price, etc.

To delete a voucher, select it in the table and click **Delete** on the bar at the top of the tab. When a voucher is deleted, the code on the voucher becomes invalid.

Click **Save as CSV** to download a CSV file with the vouchers usage overview.



Voucher batches > **Vouchers** Delete... Save as CSV Refresh

Code:

Voucher batch:

Used:

Used by:

Price:

Expire date:

Batch	Serial n.	Code	Price	Valid till	Used	Used by	Deleted
2	1	760032644935	20.00000	11/01/2022	-		-
2	2	455206121250	20.00000	11/01/2022	-		-
2	3	328789453784	20.00000	11/01/2022	-		-
2	4	812545213816	20.00000	11/01/2022	-		-
2	5	127637984172	20.00000	11/01/2022	-		-

## 10.8 Recharging credit via external payment providers

The external payment provider option is used for managing credit via a Recharge Terminal.

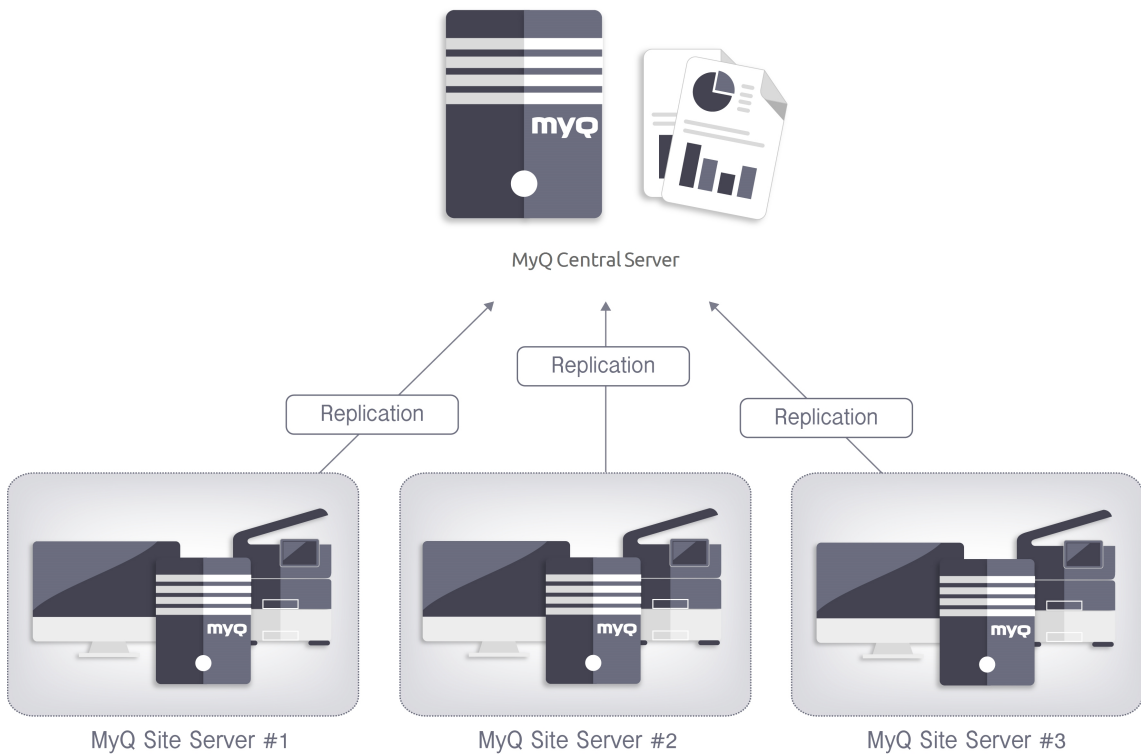
For information on how to set it up, please check the *MyQ Recharge Terminal Guide*.

If a Recharge Terminal is used, you can view the transaction info in **MyQ, Payments**.

# 11 Central Server Reports Management

On the MyQ Central server, you can create and run reports which include all sorts of information that are downloaded from the site servers and stored on the Embedded or MS SQL database. Running reports on the Central server is useful, especially if you have several branch offices and want to access overall statistics.

The process of downloading data from site servers and storing them on the MyQ Central server's database is called **Replication**. It is essential for central reporting, as all site servers that are included in reports have to be fully replicated to ensure that the data in the reports are correct and up-to-date.



## 11.1 Reports

In the MyQ web interface, on the **Reports** main tab (**MyQ, Reports**), you can create and generate reports with a variety of data concerning your printing environment. The reports can be related to users, printing devices, print jobs, etc.

Status	Run at	Report	Files	Run by
<b>Today</b>				
✓	09/20/2022 2:45:5...	My monthly summary	XLSX	Administrator
✓	09/20/2022 2:45:4...	My sessions	CSV	Administrator
✓	09/20/2022 2:45:4...	My daily summary	PDF	Administrator

Reports in MyQ are divided into two main categories: **My reports** and **Shared reports**. **My reports** show users reports created by themselves, while **Shared reports** show them reports created by the administrator or by other users.

There are three default reports: **My daily summary**, **My sessions** and **My monthly summary**. These are displayed in the **My reports** folder of the MyQ administrator, who can modify them, delete them or change their design. For all the other users, the default reports are displayed in the **Shared reports** folder and cannot be changed in any way.

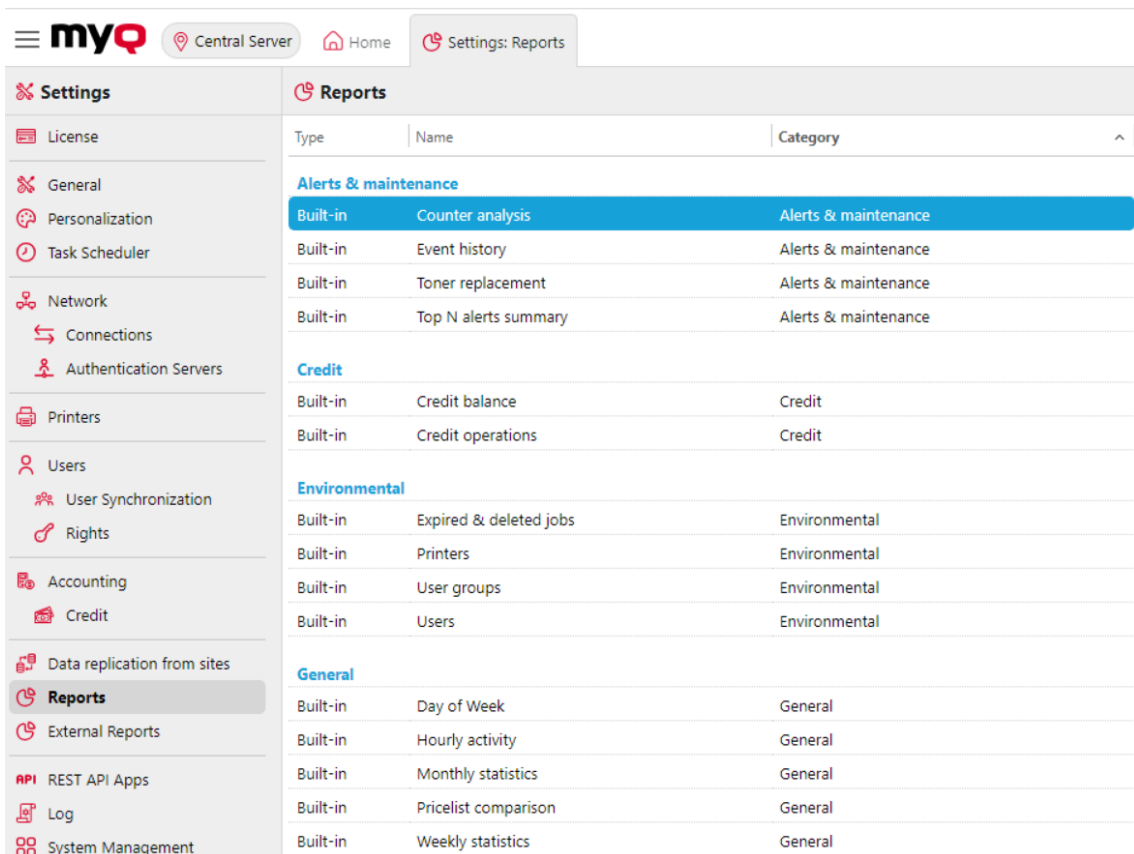
In addition to the three default reports, the administrator can create an unlimited number of reports and sort them into sub-folders of the **My reports** folder. Users can create their own reports but they are limited to use only certain report types depending on the rights granted by the administrator.

Each report can be directly displayed on the web interface and saved in any of the following formats: *PDF*, *CSV*, *XML*, *XLSX* and *ODS*. The reports can be automatically generated and stored in a predefined folder. There is no data limitation for the generated report, it includes all the data from the specified period.

All the reports have the MyQ logo displayed by default, but it can be replaced by your company's logo. To upload a custom logo go to **MyQ, Settings, Personalization**. In the **Custom application logo** section, click **+Add** next to **Custom logo** and upload your own file (supported formats - *JPG*, *JPEG*, *PNG*, *BMP* and recommended size - *398px x 92px*).

### 11.1.1 Report Types

When you are creating reports on the **Reports** main tab, you can choose from a large number of built-in report types that are sorted into multiple categories. Some of the types are included in more categories (for example, *Groups: Daily Summary*, *Print Jobs: Daily Summary*, etc.), while some of the types are particular to only one category (for example, *Device Alerts in Alerts Maintenance* or *Credit Balance in Credit*). You can overview all of the report types on the **Reports** settings tab (in **MyQ, Settings, Reports**).



### Providing users with rights to use a report

The administrator can run all the built-in reports and provide other users and groups with rights to run them as well. In **MyQ, Settings, Reports**, right-click on a report and click **Edit**. On the **General** tab, in the **Permission for running the report** field, choose users and groups from the list and click **Save**.

### Add custom reports

You can also add custom report types developed by the MyQ development team. To do so, just click **+Add**, upload the custom report definition file, select users or groups to access it, and click **OK**. For more information about custom report types, contact MyQ support.

### Report Categories

- **Alerts and Maintenance** - These reports provide information about device alerts and unusual changes on device counters.
- **Credit** - These reports contain information concerning credit, for example the remaining credit of selected users.
- **Environmental** - These reports inform about the environmental impact of printing. They show how many trees needed to be harvested, how much energy was spent and how much carbon dioxide was emitted during the production of

the paper used for printing and copying within your company's printing environment. Data sources vary in their estimations. MyQ calculations in the report are based on the following data estimates:

- **Carbon dioxide for paper production:** 12,7 gram per paper sheet
- **Energy used for production:** 48 Wh per paper sheet or 32Wh for a recycled paper sheet
- **Trees:** 8333 paper sheets are counted as 1 tree.
- **General** - These reports provide general information about the MyQ system, such as total counters statistics and printing peaks or comparison of price lists used for printers.
- **Groups** - These reports inform about groups of users. They can contain information about membership, printed pages, weekly stats etc.
- **Print Jobs** - These reports contain information about jobs printed in MyQ, such as the list of all expired and deleted jobs over a certain period.
- **Printers** - These reports inform about all the printing devices in the MyQ system (both local and network). Generated reports can contain graphs of the device usage, daily, weekly and monthly counters, etc.
- **Projects** - These reports contain information regarding projects and project accounting in MyQ, such as daily summary of projects or projects assigned to selected users over a certain period.
- **Users** - These reports can contain various information about users. They can concern their print jobs, credit statements, printed pages etc.

#### Alerts and Maintenance Reports

The reports included in the **Alerts and Maintenance** category are:

- **Counter Analysis**
- **Event History**
- **Toner replacement\*\***
- **Top N alerts summary**

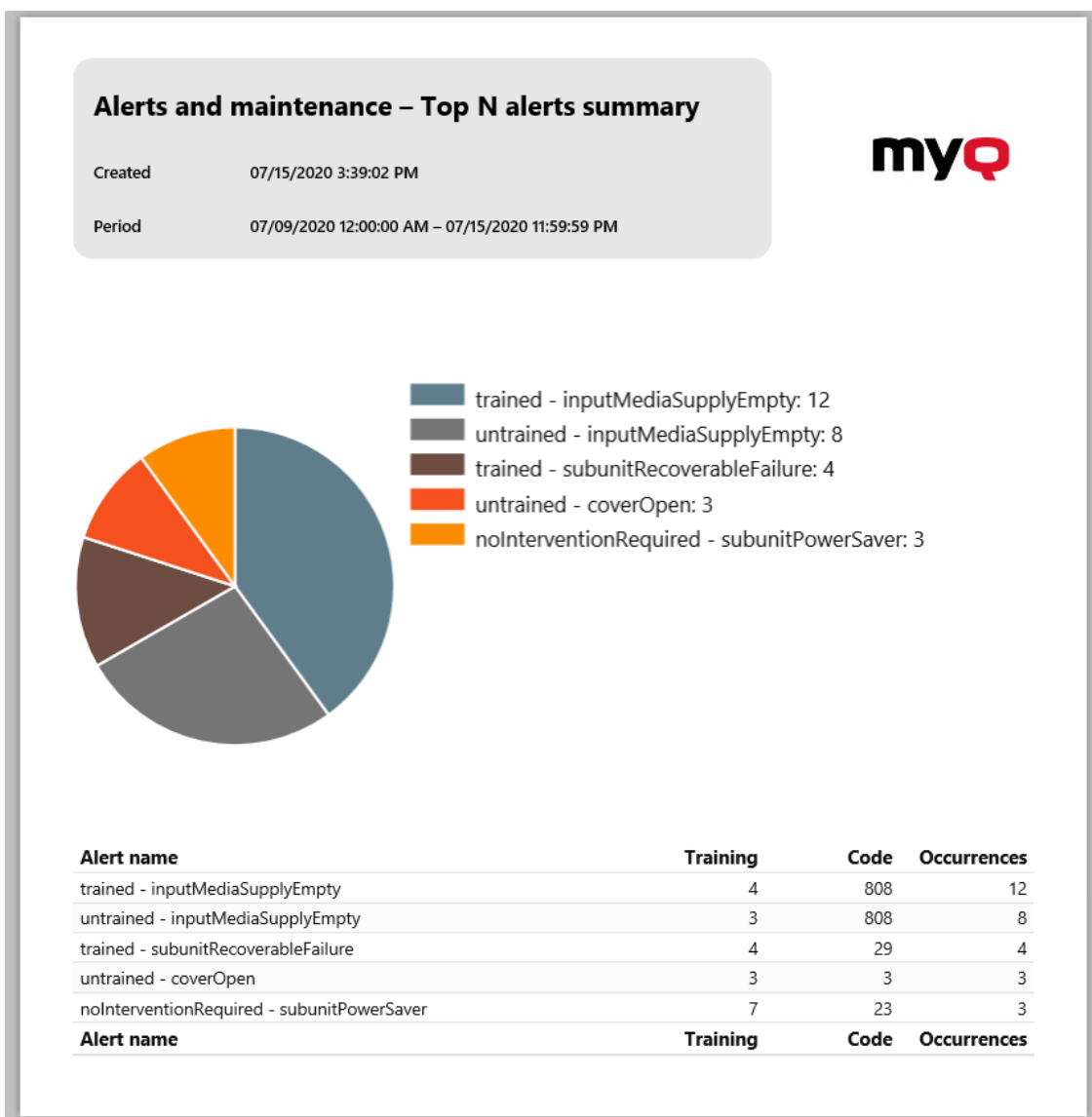
Parameters, filters, and columns available:



Name	Parameters	Filters	Default Columns	Group by
<b>Counter Analysis</b>	Period Page counter	Printer name User name User group Page counter value (<, =, >) Site	Site Printer name Full name Session finish date Page counter B&W pages Color pages Total pages Scans Total price (additional column: Administrator price)	User name
<b>Event History</b>	Period	Event name Event type Printer name Site	Site Event name Event type Printer name Created Resolved	
<b>Toner replacement</b>	Period	Printer name Site	Site Printer name Toner color Installed Replaced Pages printed Total counters	
<b>Top N Alerts Summary</b>	Period N	Printer name Site	Site Alert name Alert training level Alert code Occurrences	Alert name

The above reports don't support aggregate columns.

Charts are not available, except for the **Top N alerts summary** report where a *Pie*, *Doughnut* or *Bar* chart can be selected with the **Alert name** and **Occurrences** values.



**\*\* Toner replacement report addendum**

The number displayed in the Toner replacement report in the Pages printed and Total counters columns depends on the toner it relates to:

- **Pages printed** - The number of pages printed with the replaced toner. Only color pages for color toners (CMY) and all pages for black toners (K) are considered.
- **Total counters** - Total counters of the printer related to the replaced toner. Color pages for color toners (CMY) and all pages for black toners (K) are considered.

**Credit Reports**

The reports included in the **Credit** category are:

- **Credit balance**

- **Credit operations**

Parameters, filters and columns available:

Name	Parameters	Filters	Default Columns	Additional Columns
<b>Credit balance</b>		User name User group	User name Full name User group Credit balance	Personal number Phone Email Notes
<b>Credit operations</b>	Period	User name User group	Full name User group Created (date & time) Credit charge Credit balance Operation type Charge method Charger name Voucher code	Personal number Phone Email Notes

The above reports don't support aggregate columns, they are all grouped by the **User name** parameter and charts are not available.

### Environmental Reports

The reports included in the **Environmental** category are:

- **Expired and deleted jobs**
- **Printers**
- **User groups**
- **Users**

Parameters, filters, and columns available:

Name	Parameters	Filters	Default Columns	Additional Columns
<b>Expired and deleted jobs</b>	Period	User name Queue name Site	Site Queue name Job name Created (date & time) Job size (KB) B&W pages Color pages Total pages Job owner user name Job owner full name Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	
<b>Printers</b>	Period	Printer name Site	Site Printer name Total pages Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	
<b>User groups</b>	Period	Printer name User name User group Site	Site User group Total pages Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	

Name	Parameters	Filters	Default Columns	Additional Columns
<b>Users</b>	Period	Printer name User name User group Site	Site User name Full name Total pages Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	Personal number Phone Email Notes

*1 tree = 8333 pages / 1 page = 12.7g of CO2 / 1 page = 48Wh of energy / 1 recycled page = 32Wh of energy*

The above reports don't support aggregate columns or charts.

**General Reports**

The reports included in the **General** category are:

- **Day of week**
- **Hourly activity**
- **Monthly statistics**
- **Pricelist comparison**
- **Weekly statistics**

Parameters, filters, and columns available:

Name	Parameters	Filters	Default Columns	Chart
<b>Day of week</b>	Period Page counter	Printer name User name User group Site	Period (Day) B&W pages Color pages Total pages Scans Total price Administrator price	Pie, Doughnut or Bar <b>Category:</b> Day of the week <b>Values:</b> Page counter

Name	Parameters	Filters	Default Columns	Chart
<b>Hourly activity</b>	Period Page counter	Printer name User name User group Site	Period (Hour) B&W pages Color pages Total pages Scans Total price Administrator price	Pie, Doughnut or Bar <b>Category:</b> Daily hours <b>Values:</b> Page counter
<b>Monthly statistics</b>	Period	Printer name User name User group Site	Site Period (Year - Month) B&W pages Color pages Total pages Scans Total price <b>(Additional columns:</b> Administrator price Simplex Duplex)	Line <b>X-axis:</b> Month & year <b>Y-axis:</b> Page counter
<b>Pricelist comparison</b>	Pricelist Item	Printer name	Site Printer name B&W price Color price	Bar <b>Category:</b> Printers <b>1st value:</b> Pricelist item

Name	Parameters	Filters	Default Columns	Chart
<b>Weekly statistics</b>	Period	Printer name User name User group Site	Site Period (Year - Week) B&W pages Color pages Total pages Scans Total price <b>(Additional columns:</b> Administrator price Simplex Duplex)	Line <b>X-axis:</b> Month & year <b>Y-axis:</b> Page counter

The above reports don't support aggregate columns.

### Groups Reports

The reports included in the **Groups** category are:

- **Counters by function and duplex(BETA)**
- **Counters by function and paper format(BETA)**
- **Counters by paper format and duplex(BETA)**
- **Daily summary**
- **Day of the week**
- **Monthly summary**
- **Top N**
- **Total summary**
- **User group membership**

Parameters, filters, and columns available:

Name	Filters	Default Columns	Additional Columns	Group by
<b>Counters by function and duplex(BET A)</b>	Printer name User name User group Project name Accounting group Site	Site Group name User name Full name Print B&W Simplex Print Color Simplex Print B&W Duplex Print Color Duplex Print Sheets Copy B&W Simplex Copy Color Simplex Copy B&W Duplex Copy Color Duplex Copy Sheets	Notes Personal Number Email Incoming Fax B&W Simplex Incoming Fax B&W Duplex Fax Sheets	Group name User name
<b>Counters by function and paper format(BET A)</b>	Printer name User name User group Project name Accounting group Site	Site Group name User name Full name Print A4 B&W Print A4 Color Copy A4 B&W Copy A4 Color Print A3 B&W Print A3 Color Copy A3 B&W Copy A3 Color	Notes Personal Number Email Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W Copy A5 Color Incoming Fax A5 B&W Print B4 B&W Print B4 Color Copy B4 B&W Copy B4 Color Incoming Fax B4 B&W Print B5 B&W	Group name User name



Name	Filters	Default Columns	Additional Columns	Group by
			Print B5 Color Copy B5 B&W Copy B5 Color Incoming Fax B5 B&W Print Ledger B&W Print Ledger Color Copy Ledger B&W Copy Ledger Color Incoming Fax Ledger B&W Print Letter B&W Print Letter Color Copy Letter B&W Copy Letter Color Incoming Fax Letter B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy	

Name	Filters	Default Columns	Additional Columns	Group by
			Statement Color Incoming Fax Statement B&W	
<b>Counters by paper format and duplex(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Group name User name Full name A4 B&W Simplex A4 Color Simplex A4 B&W Duplex A4 Color Duplex A3 B&W Simplex A3 Color Simplex A3 B&W Duplex A3 Color Duplex A4 Sheets A3 Sheets	Notes Personal Number Email Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W Copy A5 Color Incoming Fax A5 B&W Print B4 B&W Print B4 Color Copy B4 B&W Copy B4 Color Incoming Fax B4 B&W Print B5 B&W Print B5 Color Copy B5 B&W Copy B5 Color Incoming Fax B5 B&W Print Ledger B&W Print Ledger Color Copy Ledger B&W Copy Ledger Color Incoming Fax Ledger B&W Print Letter B&W Print Letter	Group name User name

Name	Filters	Default Columns	Additional Columns	Group by
			Color Copy Letter B&W Copy Letter Color Incoming Fax Letter B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Incoming Fax Statement B&W	
<b>Daily summary</b>	Printer name User name User group Site	Site Date B&W pages Color pages Total pages Scans Total price	Administrator price B&W prints B&W copies Color prints Color copies Single color copy A4 paper A3 paper A5 paper B4 paper	Group name

Name	Filters	Default Columns	Additional Columns	Group by
			B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&W cost Color cost Color pages (L1) Color cost (L1) Color pages (L2) Color cost (L2) Color pages (L3) Color cost (L3) Print color pages(L1) Copy color pages (L1) Cost color pages(L1) Print color pages(L2) Copy color pages (L2) Cost color pages(L2) Print color pages(L3) Copy color pages (L3) Cost color pages(L3) Simplex Duplex	

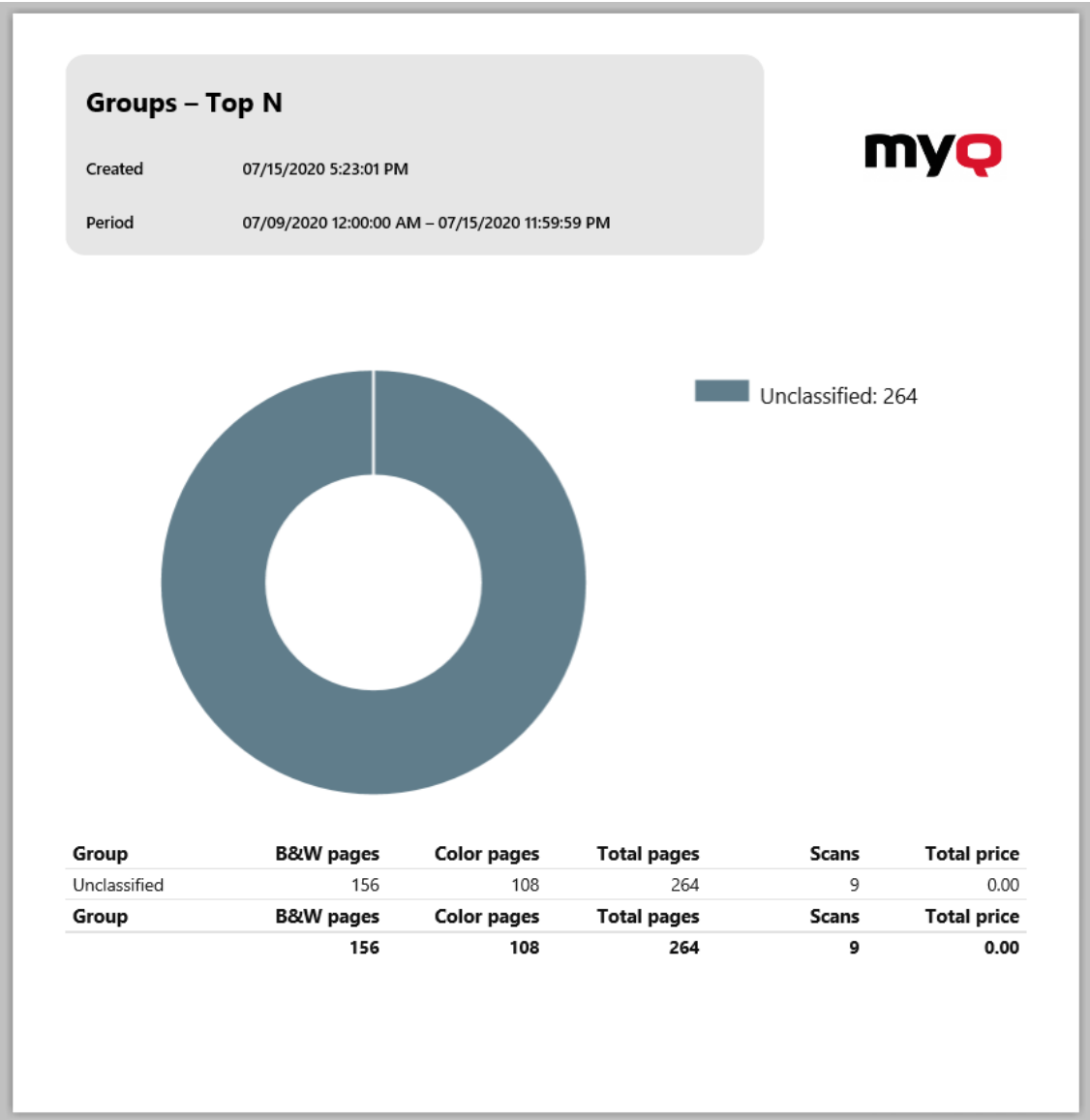
Name	Filters	Default Columns	Additional Columns	Group by
<b>Day of the week</b>	Printer name User name User group Site	Site Day B&W pages Color pages Total pages Scans Total price	Same as Daily summary + Day number	Group name
<b>Monthly summary</b>	Printer name User name User group Site	Site Period (Year - Month) B&W pages Color pages Total pages Scans Total price	Same as Daily summary	Group name Month & Year
<b>Top N</b>	Printer name User name User group Site	Site Group name B&W pages Color pages Total pages Scans Total price	Administrator price	
<b>Total summary</b>	Printer name User name User group Accounting group Site	Site Full name User name Group name Period (Year & Month) B&W print B&W copies Color print Color copies Total pages Scans Total price	Same as Daily summary	Accounting group

Name	Filters	Default Columns	Additional Columns	Group by
<b>User group membership</b>	User group Accounting group Managed group Site	Site User name Full name Group name Accounting group Managed group	Personal number Phone Email Notes	

The above reports all have the *Period* parameter, except for the **Top N** report that has the *Period, Page counter, N, Add remaining sum* parameters.

The above reports don't support aggregate columns except for the **Monthly summary** report.

Charts are not available, except for the **Top N** report, where a Pie, Doughnut or Bar chart can be selected with the **Groups** and **Page Counter** values.



**Print Jobs Reports**

The reports included in the **Print Jobs** category are:

- **Daily summary**
- **Expired and deleted jobs**
- **Printed jobs summary**

Parameters, filters and columns available:

Name	Filters	Default Columns	Additional Columns	Group by
<b>Daily summary</b>	User name Job name Site	Site Full name Created (date & time) Printed (date & time) Job name Document time	Queue name Personal number Phone Email Notes Total pages B&W pages Color pages	User name
<b>Expired and deleted jobs</b>	User name User group Queue name Site	Site Full name User name Job name Created (date & time) Document type Duplex Job size (KB) Total pages B&W pages Color pages	Personal number Phone Email Notes Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	Queue name
<b>Printed jobs summary</b>	User name User group Job name Site	Site Full name Period Queue name Printed (date & time) Job name Document type	Personal number Phone Email Notes Total pages B&W pages Color pages	User name Month & Year

All the reports use the **Period** parameter.

Charts are not available.

The reports don't support aggregate columns except for the **Expired and deleted jobs** reports, where aggregate columns are available.

### Printers Reports

The reports included in the **Printers** category are:

- **Counters by function and duplex(BETA)**
- **Counters by function and paper format(BETA)**
- **Counters by paper format and duplex(BETA)**



- **Daily summary**
- **Day of the week**
- **Meter reading via SNMP**
- **Monthly summary**
- **Top N**
- **Total summary**

Parameters, filters, and columns available:

Name	Filters	Default Columns	Additional Columns	Group by
<b>Counters by function and duplex(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Printer Name Serial Number Group name User name Full name Print B&W Simplex Print Color Simplex Print B&W Duplex Print Color Duplex Print Sheets Copy B&W Simplex Copy Color Simplex Copy B&W Duplex Copy Color Duplex Copy Sheet	Notes Personal Number Email Incoming Fax B&W Simplex Incoming Fax B&W Duplex Fax Sheets	Printer name User name

Name	Filters	Default Columns	Additional Columns	Group by
<b>Counters by function and paper format(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Printer name Serial number Group name User name Full name Print A4 B&W Print A4 Color Copy A4 B&W Copy A4 Color Print A3 B&W Print A3 Color Copy A3 B&W Copy A3 Color	Notes Personal Number Email Location IP address Brand Model MAC Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W Copy A5 Color Incoming Fax A5 B&W Print B4 B&W Print B4 Color Copy B4 B&W Copy B4 Color Incoming Fax B4 B&W Print B5 B&W Print B5 Color Copy B5 B&W Copy B5 Color Incoming Fax B5 B&W Print Ledger B&W	Printer name User name

Name	Filters	Default Columns	Additional Columns	Group by
			Print Ledger Color Copy Ledger B&W Copy Ledger Color Incoming Fax Ledger B&W Print Letter B&W Print Letter Color Copy Letter B&W Copy Letter Color Incoming Fax Letter B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Incoming Fax Statement B&W	

Name	Filters	Default Columns	Additional Columns	Group by
<b>Counters by paper format and duplex(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Printer name Serial number Group name User name Full name A4 B&W Simplex A4 Color Simplex A4 B&W Duplex A4 Color Duplex A3 B&W Simplex A3 Color Simplex A3 B&W Duplex A3 Color Duplex A4 Sheets A3 Sheets	Notes Personal Number Email Location IP Address Brand Model MAC A5 B&W Simplex A5 Color Simplex A5 B&W Duplex A5 Color Duplex A5 Sheets B4 B&W Simplex B4 Color Simplex B4 B&W Duplex B4 Color Duplex B4 Sheets B5 B&W Simplex B5 Color Simplex B5 B&W Duplex B5 Color Duplex B5 Sheets Folio B&W Simplex Folio Color Simplex Folio B&W Duplex Folio Color Duplex Folio Sheets	Printer name User name

Name	Filters	Default Columns	Additional Columns	Group by
			Ledger B&W Simplex Folio Color Simplex Folio B&W Duplex Folio Color Duplex Folio Sheets Ledger Color Simplex Ledger B&W Duplex Ledger Color Duplex Ledger Sheets Letter Color Simplex Letter B&W Duplex Letter Color Duplex Letter Sheets Legal Color Simplex Legal B&W Duplex Legal Color Duplex Legal Sheets Statement Color Simplex Statement B&W Duplex Statement Color Duplex Statement Sheets Other Color Simplex Other B&W Duplex	

Name	Filters	Default Columns	Additional Columns	Group by
			Other Color Duplex Other Sheets	
<b>Daily summary</b>	Printer name User name User group Site	Site User name Full name Date B&W pages Color pages Total pages Scans Total price	Administrator price B&W prints B&W copies Color prints Color copies Single color copy A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper paper formats Fax B&W cost Color cost Color pages (L1) Color cost (L1) Color pages (L2) Color cost (L2) Color pages (L3) Color cost (L3) Print color	Printer name

Name	Filters	Default Columns	Additional Columns	Group by
			pages(L1) Copy color pages (L1) Cost color pages(L1) Print color pages(L2) Copy color pages (L2) Cost color pages(L2) Print color pages(L3) Copy color pages (L3) Cost color pages(L3) Simplex Duplex	
<b>Day of the week</b>	Printer name User name User group Site	Site Day B&W pages Color pages Total pages Scans Total price	Same as Daily summary + Day number	Printer name

Name	Filters	Default Columns	Additional Columns	Group by
<b>Meter reading via SNMP</b>	Printer name Site	Site Printer name IP address Serial number MAC address Model Location Terminal ID B&W prints B&W copies Color prints Color copies Scans Fax counter	A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Start Mono Start Color Finish Mono Finish Color Printer ID Printer Group Finish M Print Finish C Print Finish M Copy Finish C Copy Finish Scan	
<b>Monthly summary</b>	Printer name User name User group Site	Site IP address Serial number MAC address Model Location B&W pages Color pages Total pages Scans Total price	Same as Daily summary	Printer name Month & Year



Name	Filters	Default Columns	Additional Columns	Group by
<b>Top N</b>	Printer name User name User group Site	Site Printer name B&W pages Color pages Total pages Scans Total price	Administrator price Printer ID Printer Group	
<b>Total summary</b>	Printer name User name User group Site	Site Printer name User group User name Full name Total pages B&W prints B&W copies Color prints Color copies Scans Total price	Same as Daily summary	Printer name

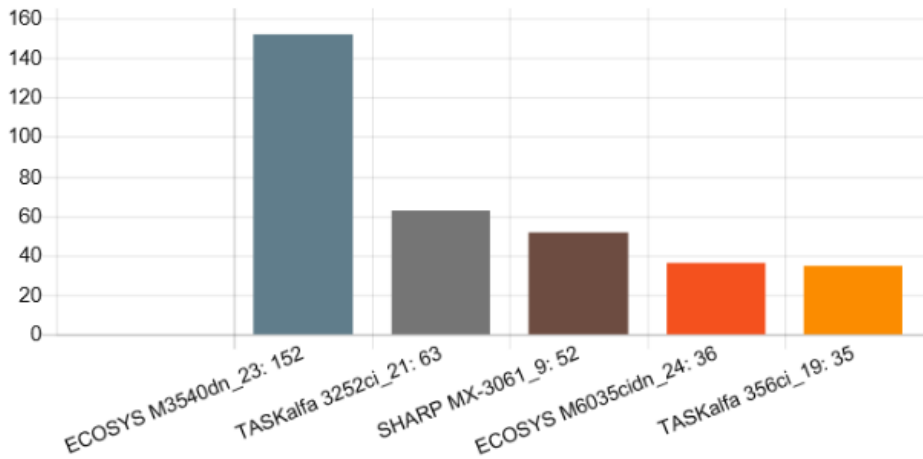
The above reports all have the *Period* parameter, except for the **Top N** report that has the *Period, Page counter, N, Add remaining sum* parameters.

Aggregate columns are supported in the above reports, except for the **Top N** and the **Monthly summary** reports.

Charts are not available, except for the **Top N** report, where a Pie, Doughnut or Bar chart can be selected with the **Printers** and **Page Counter** values.

**Printers – Top N**

Created 07/16/2020 9:57:11 AM  
 Period 07/10/2020 12:00:00 AM – 07/16/2020 11:59:59 PM



Printer	B&W pages	Color pages	Total pages	Scans	Total price
ECOSYS M3540dn_23	152	0	152	0	0.00
TASKalfa 3252ci_21	7	56	63	0	0.00
SHARP MX-3061_9	41	11	52	5	0.00
ECOSYS M6035cidn_24	17	19	36	0	0.00
TASKalfa 356ci_19	0	35	35	0	0.00
<b>Printer</b>	<b>B&amp;W pages</b>	<b>Color pages</b>	<b>Total pages</b>	<b>Scans</b>	<b>Total price</b>
	217	121	338	5	0.00

**Projects Reports**

The reports included in the **Projects** category are:

- **Counters by function and duplex(BETA)**
- **Counters by function and paper format(BETA)**
- **Counters by paper format and duplex(BETA)**
- **Daily summary**
- **Day of the week**
- **Monthly summary**
- **Print jobs per project**
- **Project groups total summary**
- **Projects per user**

- **Top N**
- **User project assignment**
- **User Session details**
- **Users per project**

Parameters, filters, and columns available:

Name	Filters	Default Columns	Additional Columns	Group by
<b>Counters by function and duplex(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Project name Project code Group name User name Full name Print B&W Simplex Print Color Simplex Print B&W Duplex Print Color Duplex Print Sheets Copy B&W Simplex Copy Color Simplex Copy B&W Duplex Copy Color Duplex Copy Sheets	Notes Personal Number Email Incoming Fax B&W Simplex Incoming Fax B&W Duplex Fax Sheets	Project name User name

Name	Filters	Default Columns	Additional Columns	Group by
<b>Counters by function and paper format(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Project name Project code Group name User name Full name Print A4 B&W Print A4 Color Copy A4 B&W Copy A4 Color Print A3 B&W Print A3 Color Copy A3 B&W Copy A3 Color	Notes Personal Number Email Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W Copy A5 Color Incoming Fax A5 B&W Print B4 B&W Print B4 Color Copy B4 B&W Copy B4 Color Incoming Fax B4 B&W Print B5 B&W Print B5 Color Copy B5 B&W Copy B5 Color Incoming Fax B5 B&W Print Ledger B&W Print Ledger Color Copy Ledger B&W Copy Ledger	Project name User name

Name	Filters	Default Columns	Additional Columns	Group by
			Color Incoming Fax Ledger B&W Print Letter B&W Print Letter Color Copy Letter B&W Copy Letter Color Incoming Fax Letter B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Incoming Fax Statement B&W	

Name	Filters	Default Columns	Additional Columns	Group by
<p><b>Counters by paper format and duplex(BETA)</b></p>	<p>Printer name User name User group Project name Accounting group Site</p>	<p>Site Project name Project code Group name User name Full name A4 B&amp;W Simplex A4 Color Simplex A4 B&amp;W Duplex A4 Color Duplex A3 B&amp;W Simplex A3 Color Simplex A3 B&amp;W Duplex A3 Color Duplex A4 Sheets A3 Sheets</p>	<p>Notes Personal Number Email Incoming Fax A4 B&amp;W Incoming Fax A4 B&amp;W Print A5 B&amp;W Print A5 Color Copy A5 B&amp;W Copy A5 Color Incoming Fax A5 B&amp;W Print B4 B&amp;W Print B4 Color Copy B4 B&amp;W Copy B4 Color Incoming Fax B4 B&amp;W Print B5 B&amp;W Print B5 Color Copy B5 B&amp;W Copy B5 Color Incoming Fax B5 B&amp;W Print Ledger B&amp;W Print Ledger Color Copy Ledger B&amp;W Copy Ledger</p>	<p>Project name User name</p>

Name	Filters	Default Columns	Additional Columns	Group by
			Color Incoming Fax Ledger B&W Print Letter B&W Print Letter Color Copy Letter B&W Copy Letter Color Incoming Fax Letter B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Incoming Fax Statement B&W	

Name	Filters	Default Columns	Additional Columns	Group by
<b>Daily summary</b>	Project name Printer name User name User group Site	Site Date B&W pages Color pages Total pages Scans Total price	Administrator price B&W prints B&W copies Color prints Color copies Single color copy A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&W cost Color cost Color pages (L1) Color cost (L1) Color pages (L2) Color cost (L2) Color pages (L3) Color cost (L3) Print color pages(L1) Copy color pages (L1) Cost color pages(L1)	Project name



Name	Filters	Default Columns	Additional Columns	Group by
			Print color pages(L2) Copy color pages (L2) Cost color pages(L2) Print color pages(L3) Copy color pages (L3) Cost color pages(L3) Simplex Duplex	
<b>Day of the week</b>	Project name Printer name User name User group Site	Date B&W pages Color pages Total pages Scans Total price	Same as Daily summary + Day number	Project name
<b>Monthly summary</b>	Project name Printer name User name User group Site	Site Period (year - month) B&W pages Color pages Total pages Scans Total price	Same as Daily summary	Project name Month & Year
<b>Print jobs per project</b>	Project name Job name User name Site	Site Job name Printed (date & time) Document type		Project name

Name	Filters	Default Columns	Additional Columns	Group by
<p><b>Project groups total summary</b></p>	<p>Project name Site</p>	<p>Site Project name B&amp;W pages Color pages Total pages Scans Total price</p>	<p>Administrator price Group Phone Email Notes Color cost B&amp;W cost Simplex Duplex A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&amp;W prints B&amp;W copies Color prints Color copies Color pages (L1) Color cost (L1) Color pages (L2) Color cost (L2) Color pages (L3) Color cost (L3)</p>	<p>Project name</p>

Name	Filters	Default Columns	Additional Columns	Group by
<b>Projects per user</b>	Project name Printer name User name User group Site	Site Full name Personal number Project name B&W pages Color pages Total pages Scans Total price	Same as Daily summary	User name
<b>Top N</b>	Project name Printer name User name User group Site	Site Project name B&W pages Color pages Total pages Scans Total price	Administrator price	
<b>User project assignment</b>	Project name Printer name User name User group Site	Site Full name Personal number Project name B&W pages Color pages Total pages Scans Total price	Personal number Phone Email Notes	Project name

Name	Filters	Default Columns	Additional Columns	Group by
<b>User Session details</b>	Project name User name Accounting group Printer name Site	Site Project Code Project Name Date Job Name User name B&W Print B&W Copy Color Print Color Copy Simplex Duplex B&W Pages Color Pages Scans B&W Cost Color Cost Total Cost	Fax	Project name

Name	Filters	Default Columns	Additional Columns	Group by
<b>Users per project</b>	Project name Printer name User name User group Site	Site User name Full name Project name	Administrator price Group Phone Email Notes Color cost B&W cost Simplex Duplex A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&W prints B&W copies Color prints Color copies Color pages (L1) Color cost (L1) Color pages (L2) Color cost (L2) Color pages (L3) Color cost (L3)	User name

The above reports all have the *Period* parameter, except for the **Top N** report that has the *Period*, *Page counter*, *N*, *Add remaining sum* parameters.

Aggregate columns are supported in the above reports, except for the **Print jobs per project**, **Top N** and the **User project assignment** reports.

Charts are not available, except for the **Top N** report where a Pie, Doughnut or Bar chart can be selected with the **Page Counter** values.

### Users Reports

The reports included in the **Users** category are:

- **Counters by function and duplex(BETA)**
- **Counters by function and paper format(BETA)**
- **Counters by paper format and duplex(BETA)**
- **Daily summary**
- **Day of the week**
- **Monthly summary**
- **Session details**
- **Top N**
- **Total summary**
- **User Rights**

Parameters, filters, and columns available:

Name	Filters	Default Columns	Additional Columns	Group by
<b>Counters by function and duplex(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Group name User name Full name Printer name Serial Number Print B&W Simplex Print Color Simplex Print B&W Duplex Print Color Duplex Print Sheets Copy B&W Simplex Copy Color Simplex Copy B&W Duplex Copy Color Duplex Copy Sheets	Notes Personal Number Email Location IP Address Brand Model Mac Incoming Fax B&W Simplex Incoming Fax B&W Duplex Fax Sheets	User name Printer name
<b>Counters by function and paper format(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Group name User name Full name Printer name Serial Number Print A4 B&W Print A4 Color Copy A4 B&W Copy A4 Color Print A3 B&W Print A3 Color Copy A3 B&W Copy A3 Color	Notes Personal Number Email Location IP Address Brand Model Mac Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W	User name Printer name

Name	Filters	Default Columns	Additional Columns	Group by
			Copy A5 Color Incoming Fax A5 B&W Print B4 B&W Print B4 Color Copy B4 B&W Copy B4 Color Incoming Fax B4 B&W Print B5 B&W Print B5 Color Copy B5 B&W Copy B5 Color Incoming Fax B5 B&W Print Ledger B&W Print Ledger Color Copy Ledger B&W Copy Ledger Color Incoming Fax Ledger B&W Print Letter B&W Print Letter Color Copy Letter B&W Copy Letter Color Incoming Fax Letter	



Name	Filters	Default Columns	Additional Columns	Group by
			B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Incoming Fax Statement B&W	

Name	Filters	Default Columns	Additional Columns	Group by
<b>Counters by paper format and duplex(BETA)</b>	Printer name User name User group Project name Accounting group Site	Site Group name User name Full name Printer name Serial Number A4 B&W Simplex A4 Color Simplex A4 B&W Duplex A4 Color Duplex A3 B&W Simplex A3 Color Simplex A3 B&W Duplex A3 Color Duplex A4 Sheets A3 Sheets	Notes Personal Number Email Location IP Address Brand Model Mac A5 B&W Simplex A5 Color Simplex A5 B&W Duplex A5 Color Duplex A5 Sheets B4 B&W Simplex B4 Color Simplex B4 B&W Duplex B4 Color Duplex B4 Sheets B5 B&W Simplex B5 Color Simplex B5 B&W Duplex B5 Color Duplex B5 Sheets Folio B&W Simplex Folio Color Simplex Folio B&W Duplex Folio Color Duplex Folio Sheets	User name Printer name

Name	Filters	Default Columns	Additional Columns	Group by
			Ledger B&W Simplex Folio Color Simplex Folio B&W Duplex Folio Color Duplex Folio Sheets Ledger Color Simplex Ledger B&W Duplex Ledger Color Duplex Ledger Sheets Letter Color Simplex Letter B&W Duplex Letter Color Duplex Letter Sheets Legal Color Simplex Legal B&W Duplex Legal Color Duplex Legal Sheets Statement Color Simplex Statement B&W Duplex Statement Color Duplex Statement Sheets Other Color Simplex Other B&W Duplex	

Name	Filters	Default Columns	Additional Columns	Group by
			Other Color Duplex Other Sheets	
<b>Daily summary</b>	Printer name User name User group Site	Site Full name Date B&W pages Color pages Total pages Scans Total price	Administrator price B&W cost Color cost Personal number Phone Email Notes B&W prints B&W copies Color prints Color copies Single color copy A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&W cost Color cost Color pages (L1) Color cost (L1) Color pages (L2)	User name

Name	Filters	Default Columns	Additional Columns	Group by
			Color cost (L2) Color pages (L3) Color cost (L3) Print color pages(L1) Copy color pages (L1) Cost color pages(L1) Print color pages(L2) Copy color pages (L2) Cost color pages(L2) Print color pages(L3) Copy color pages (L3) Cost color pages(L3) Simplex Duplex	
<b>Day of the week</b>	Printer name User name User group Site	Site Full name Day B&W pages Color pages Total pages Scans Total price	Same as Daily summary + Day number	User name

Name	Filters	Default Columns	Additional Columns	Group by
<b>Monthly summary</b>	Printer name User name User group Site	Site Full name Period (year-month) B&W pages Color pages Total pages Scans Total price	Same as Daily summary	User name Month & Year
<b>Session details</b>	Printer name User name User group Site	Site User group Full name Printer name Job name Date Total pages Scans	Same as Daily summary except for Administrator price	User name
<b>Top N</b>	Printer name User name User group Site	Site User name Full name B&W pages Color pages Total pages Scans Total price		

Name	Filters	Default Columns	Additional Columns	Group by
<b>Total summary</b>	Printer name User name User group Site	Site User name Full name B&W prints B&W copies Color prints Color copies Total pages Scans Total price	Administrator price Single color copy Personal number Phone Email Notes B&W pages Color pages A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Simplex Duplex	User name
<b>User Rights</b>	User Access Rights Site	Site IP/Hostname User name Full name Assign access rights	Aliases Email Personal number Phone	User name Server site

The above reports all have the *Period* parameter, and they don't support aggregate columns.

Charts are not available, except for the **Top N** report where a Pie, Doughnut or Bar chart can be selected with the **Users** and **Page Counter** values.

## Creating new aggregated columns

For some types of reports, you can create any number of custom aggregated (summary) columns. An aggregated column can display either the sum or the average of a selection of any number of other columns available for the type.

To create a new aggregated column for a report:

1. Go to **MyQ, Reports**. On the list of reports on the right side, select the report and click **Edit** on the ribbon (or right-click, edit). The report properties panel opens on the right side of the screen.
2. Go to the **Design** tab on the properties panel.
3. In the **Table** section, click **+Add** and select **+Add aggregated column**. The properties panel of the new column opens.



myQ Home Reports Monthly summary

Reports > Monthly summary

General **Design** ✓ Save Preview

**Options**

Orientation: Portrait

Show filters in the final report:

**Filters and parameters**

User: All users

Accounting Group:

Printer: All printers

Period: \* Last 3 month(s)

Fields marked by \* are mandatory.

**Table**

Column	Width	Order	Aggregate
Group	Auto	Auto	No
Period	Auto	Auto	None
B&W pages	Auto	Auto	Sum
Color pages	Auto	Auto	Sum
Total	Auto	Auto	Sum
Scans	Auto	Auto	Sum
Total price	Auto	Auto	Sum

- In the panel, set the columns properties, select the **Aggregate operation** you want to use (*Sum* or *Average*), and click **Save**. The new aggregated column is listed with the other table columns, and you can double-click on it to edit it.

**Add aggregated column**
✕

Column: \*

Width:   
Leave empty for an automatic width

Alignment: \* Auto ▼

Summary: \* None ▼

---

Columns: \*   ▼

Aggregate operation: \* Sum ▼

✓ Save
Cancel

Fields marked by \* are mandatory.

### Supported types of reports for aggregated columns

The aggregated (summary) columns can be created for the following types of reports:

- From the **Groups** category: Monthly summary
- From the **Print jobs** category: Expired and deleted jobs
- From the **Printers** category: Daily summary, Day of the week, Meter reading via SNMP
- From the **Projects** category: Daily summary, Day of the week, Monthly summary, Project groups total summary, Projects per user, Users per project.

### 11.1.2 Reporting sources

Accounting in MyQ depends on the MyQ server version, the MyQ embedded terminal version and the printing device. MyQ 8.0+ currently uses the user-session architecture. The values in every report are based on user sessions (except for the **Meter reading via SNMP** printers report, described below).

- Counters are calculated in the following way:
  - B&W pages = B&W prints + B&W copies + Fax
  - Color pages = Color prints + Color copies + Single color copy
  - Total Pages = B&W pages + Color pages
  - Total prints = B&W prints + Color prints
  - Total copies = B&W copies + Color copies
- Price related columns include discounts.
- Any printers monitored via MyQ Desktop Client are included in the reports.
- Any non-MyQ users activity (\*unauthenticated) is included in the reports.

- MyQ does not track deleted printers. If a deleted printer is later added and activated in MyQ, the reports will not include any activity during the time the device was deleted.
- If a printer is deactivated but not deleted, the reports include information about the period it was inactive only after it is reactivated. In that case, after the reactivation, all the activity is accounted to users not authenticated in a single session. The reports cannot include printers' data while they are deactivated.
- When an embedded terminal is installed on the printing device, accounting is also done for any direct/tandem print queues of the device.
- When an embedded terminal is not installed or a device is used with a MyQ Hardware terminal, accounting is done via SNMP by the MyQ Print Server (depends on provided data via SNMP from the device).

### Values calculation in the Meter reading via SNMP printers report

The values in this report are based on counters read directly from the printers.

- Any printers monitored via MyQ Desktop Client are **not** included in the reports.
- The highest and lowest values are compared for a selected period and printer/group of printers.
- The total value displayed in the report is the summary of all the subtotal values, without *Pages printed* while the device was deactivated.

### 11.1.3 Report values description

Description of values in the reports' default and additional columns and how they are accounted.

These values are accounted as page counts in the following way: 2 clicks for the A3/ Ledger page format and 1 click for the rest (A4 etc.); in case of Duplex, it is 4 clicks for the A3 / Ledger format and 2 clicks for the rest (A4 etc.). L formats are coverage counters.

- B&W prints
- B&W copies
- Color prints
- Color copies
- Single color copy
- Total prints
- Total copies
- Fax
- Color pages (L1)
- Color cost (L1)
- Color pages (L2)
- Color cost (L2)
- Color pages (L3)
- Color cost (L3)
- Print color pages (L1)
- Copy color pages (L1)

- If discounts are used, they are not applied to all "cost" values in reports, e.g. "Color cost (L1)", "Color cost (L2)" or "Color cost (L3)". However, "Total cost", "Color cost" do reflect discounts.

These values are accounted as paper sheets in the following way : 1x A3 / 1x A4 etc.

- A4 paper
- A3 paper
- A5 paper
- B4 paper
- B5 paper
- Other paper
- Folio paper
- Ledger paper
- Legal paper
- Letter paper
- Statement paper
- Rest of the paper formats

These values are accounted as paper sheets as well, however, when a printing device is used without an installed Embedded terminal, this counter is specified via SNMP and depends on the counter used from the printing device.

- Simplex
- Duplex

- Terminals version 7 and lower might have reported Duplex values differently depending on the vendor – either as the number of images (e.g. 1 page printed duplex as Duplex=2) or the number of sheets (Duplex=1). Since Terminals 8.2, these values are unified as the number of sheets. The combination of data from older Terminals with Terminals 8.2 in Reports may cause an inconsistency in the Duplex values.

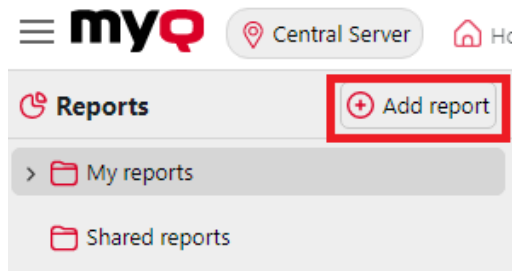
A job printed in 1x A3 monochrome sheet, on both sides in duplex mode, on a device where an Embedded terminal is installed, is accounted in MyQ as 1x A3 paper + 4x print monochrome and 1x duplex. In the MyQ log it will look like this:

*PM=4, A3=1, Duplex=1*

### 11.1.4 Creating and editing reports

You can create a new report in a few steps:

1. At the top-right corner of the **Reports** main tab, click **+Add report**. The Add report dialog box appears.



2. In the box, select the type of the new report and the folder to place it, and then click **OK**. The editing panel of the new report opens. On the panel, edit and save the report.

 The screenshot shows a modal dialog box titled 'Add report' with a close button (X) in the top right. It contains two dropdown menus: 'Type: \*' with the selected value 'Groups - Daily summary' and 'Folder:' with the selected value 'My reports'. Below the dropdowns are two buttons: a red 'OK' button with a checkmark and a white 'Cancel' button. At the bottom left, there is a small note: 'Fields marked by \* are mandatory.'

## Editing a report

1. On the **General** tab of the report's editing tab, you can change the report's **Name**, add a **Description**, select **Sharing** rights, meaning the users or groups who will have the rights to **Run** the report and those who will have the rights to **Edit** the report. You can also click **Schedule** to set its scheduled run. Once done, click **Design** to open the Design tab of the report.

Reports > **Daily summary**

**General** | Design | Save | Preview

▼ **General**

Name: \*

Description:

▼ **Sharing**

You can always run and edit this report.

Run:

Edit:

▼ **Scheduled run**

This report is not scheduled.

Fields marked by \* are mandatory.

2. On the **Design** tab, you can set the report's layout, select the items (Users, Printers, etc.) to be included in the report, add or remove columns and change their order.

### Options

- **Orientation:** Select either the **Portrait**, or the **Landscape** orientation.

**Options**

Orientation:

Show filters in the final report:

- **Show filters in the final report:** Mark the checkbox if you want filters to be visible in the final report.

### Filters and parameters

Available filters and parameters differ depending on the report type. These are the main parameters available for most of the standard reports types:

**Filters and parameters**

Site:

User: All users

Group:

Printer: All printers

Period: \*

▼ **Exclude data**

User:

Fields marked by \* are mandatory.

- **Site:** Select the Site to be included in the report.
- **User:** Select the users to be included in the report. If you select the **Me** option and share this report with all users, each user can only see just the data that concern themselves; this way you can make personalized reports for each user.
- **Accounting Group:** Select the accounting groups of users to be included in the report.
- **Printer:** Select the printers to be included in the report.
- **Period:** Select the time period to be covered by the report.
- **Exclude data - User:** Select the users to be excluded from the report (only available in reports where *User* is one of the filters used).

**Table**

Here you can enable and disable the table option.

Table <span style="float: right;"> <input checked="" type="checkbox"/> Add ▼                </span>				
Column	Width	Alignment	Summary	Aggregate
Group	Auto	Left	None	No
Date	Auto	Auto	None	No
B&W pages	Auto	Auto	Sum	No
Color pages	Auto	Auto	Sum	No
Total	Auto	Auto	Sum	No
Scans	Auto	Auto	Sum	No
Total price	Auto	Auto	Sum	No

You can also add and remove columns to the table, edit them and change their order. For each column, you can change the width, alignment and the type of summary that will be shown on the final (bottom) row (Sum, Average or None).

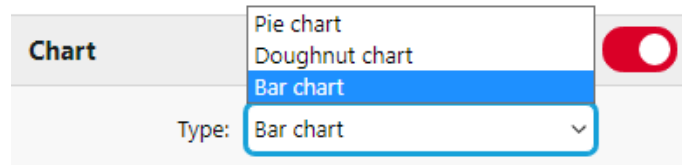
To add a new column, click **+Add**. To open the editing options of an existing column, double-click it (or select it, and then click **Edit**). To remove a column, select it and click **X**. To move a column up or down the order, select it, and then use the up/down arrows.

Period	B&W pages	Color Pages	Total	Scans	Total price
2017-3	5,621	9,189	14,810	5,506	\$5,440.000
2017-4	1,211	569	1,780	1,234	\$7,072.000
Period	B&W pages	Color Pages	Total	Scans	Total price
	6,832	9,758	16,590	6,740	\$12,512.000

Some reports do not include the option to use tables and their data can be displayed only in the chart form.

### Chart

Here you can enable and disable the chart option.

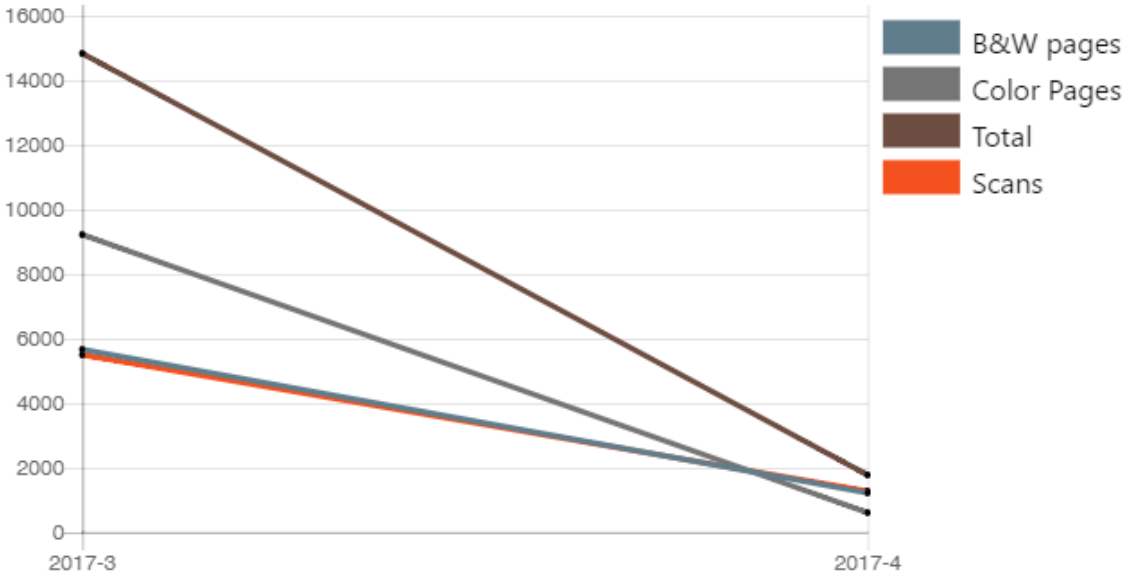


You can also select from the **Bar**, **Pie** and **Doughnut** chart types. Furthermore, you can add and remove data types to be shown on the chart and select colors for each data type (depending on the report type).

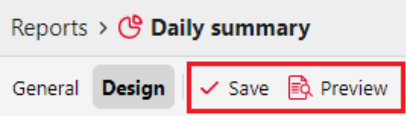
To add a data type, click **+Add**. To open editing options of a data type, double-click it (or select it, and then click **Edit**). To remove a data type, select it and click **X**. To move a data type up or down the order, select it, and then use the up/down arrows.

Some reports do not include the option to use charts and their data can be displayed only in the table form.





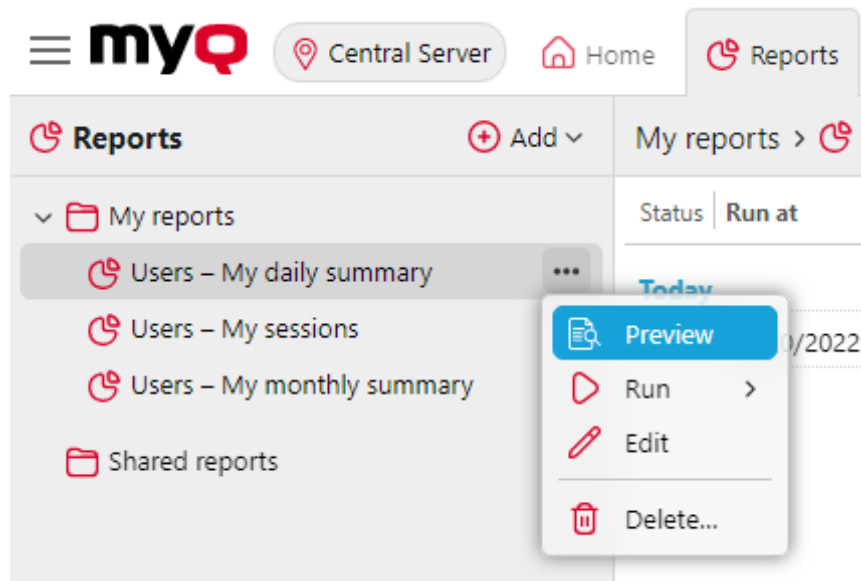
Designing your own reports can be a bit tricky, since it always depends on many factors - amount of data included (columns), length of column names and values, report orientation etc. To get the best result, you can click **Preview** anytime during the report's creation to check what the new design will look like. Only after you are satisfied with the layout, click **Save** to save the report.



### 11.1.5 Generating reports

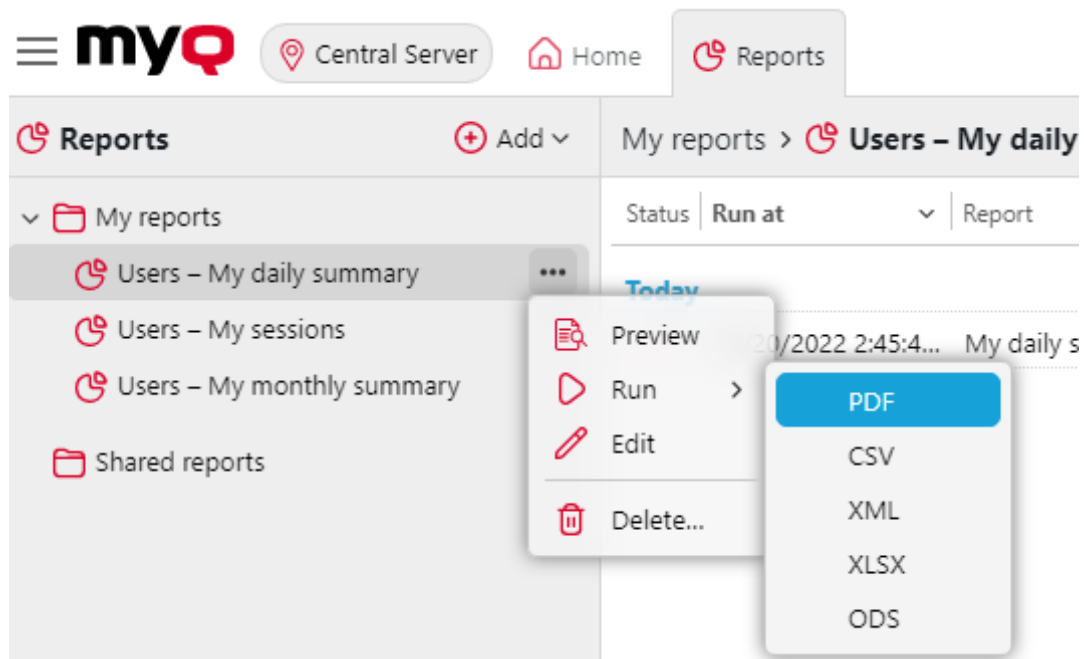
#### To preview a report

Select the report and click **Preview** (or right-click it and click **Preview** on its shortcut menu). The report is shown in HTML format and the number of included data is limited. You can switch between Graphical view and Grid view.



### To run a report

Select the report and click **Run**. (Or right-click it and click **Run** on its shortcut menu). The report runs in the specified format (*PDF, CSV, XML, XLSX* or *ODS*) with no data limitation.



### To export the displayed report

After the report is generated, click on the report's format link in the file column to download it.

My reports				
Status	Run at	Report	Files	Run by
<b>Today</b>				
✓	09/15/2022 5:14:1...	My monthly summary	ODS	Administrator
✓	09/15/2022 5:14:0...	My sessions	XLSX	Administrator
✓	09/15/2022 5:13:5...	My daily summary	CSV	Administrator
✓	09/15/2022 4:38:1...	My monthly summary	PDF	Administrator
✓	09/15/2022 4:37:5...	My sessions	PDF	Administrator
✓	09/15/2022 4:37:4...	My daily summary	PDF	Administrator

## 12 Connection to BI tools

Starting from version 8.1(patch 2), MyQ Central Server exposes data to be analyzed with external BI tools (Business Intelligence tools).

The below information refers to the setup and use of Power BI by Microsoft, along with a MyQ setup.

For further information about Power BI, visit:

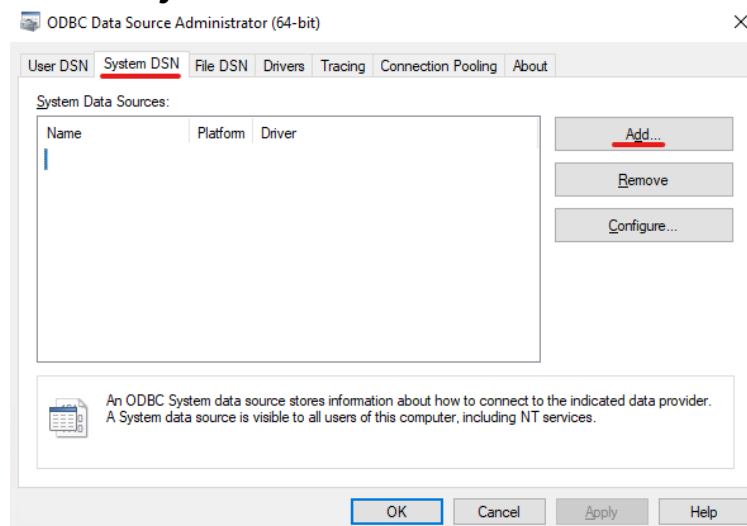
<https://docs.microsoft.com/en-us/power-bi/fundamentals/desktop-getting-started>

### 12.1 Embedded Database Connection Configuration

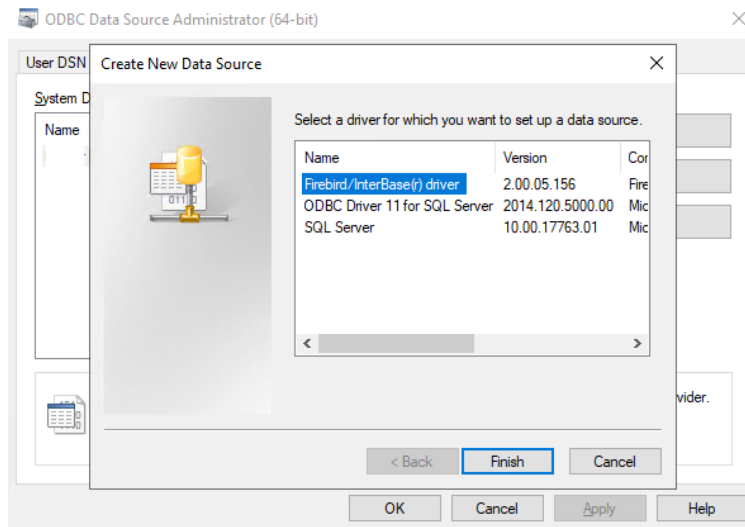
Power BI can access the MyQ Embedded Database via ODBC. In order to create an ODBC data source:

- Power BI will only let you connect to a ODBC data source that is available on the local PC it is running within. Your data source should be created on the same PC that Power BI desktop run.

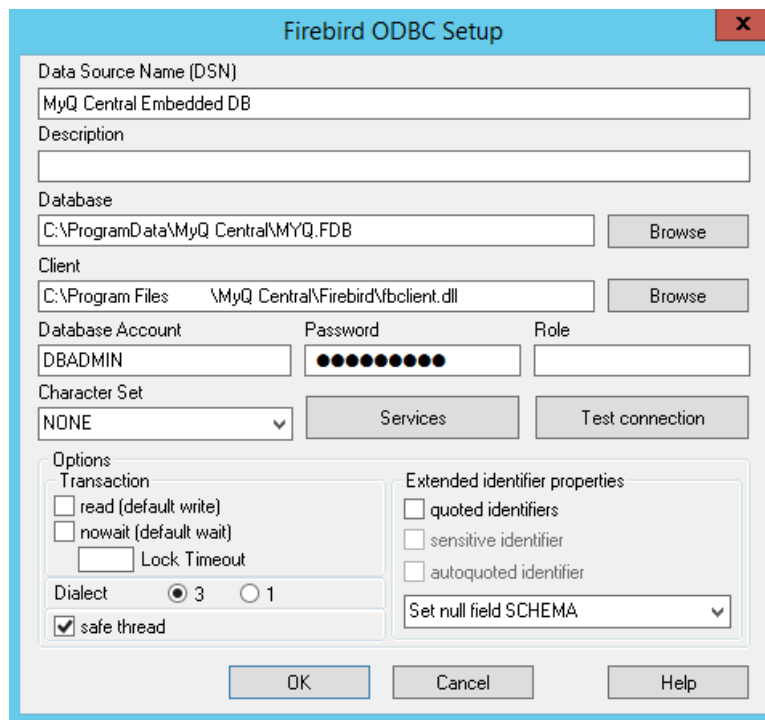
1. Download and install the latest ODBC driver for Firebird from:  
<https://firebirdsql.org/en/odbc-driver/>
2. Once installed, open the **ODBC Data Sources** application from the Windows Apps menu.
3. Go to the **System DSN** tab and click **Add**.



4. In the Create New Data Source window, select *Firebird/InterBase(r) driver* and click **Finish**.



5. In the Firebird ODBC Setup tab, enter the connection details:
  - a. **Data Source Name (DSN):** Add a name as an identifier for the connection
  - b. **Database:** Add the path to your database file (C:\ProgramData\MyQCentral\MYQ.FDB by default)
  - c. **Client:** Add the path to the Firebird library client used for the connection. It is recommended to use the MyQ Central Server client, found in C:\Program Files\MyQ Central\Firebird\fbclient.dll by default
  - d. **Database Account:** Add the Database Account user name. The default one is SYSDBA, but it is highly recommended not to use the default database account, but enable and use the **database read-only account** available in the [External Reports](#) settings tab
  - e. **Password:** Add the Database Account password. In case you are using the default database account (not recommended) and you haven't changed the password in MyQ Central Easy Config, the default one is *masterkey*.
  - f. The rest of the fields can be left unchanged. Click **Test Connection** and if successful, click **OK**.



## 12.2 Creating Reports

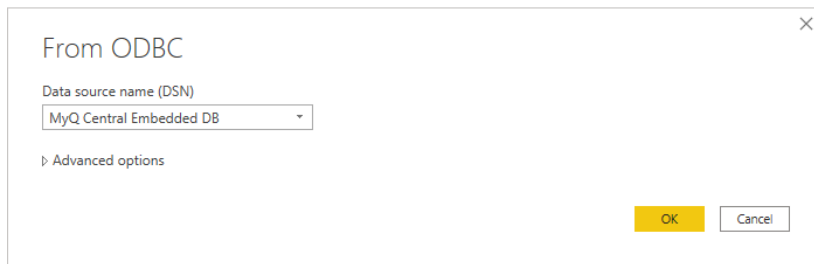
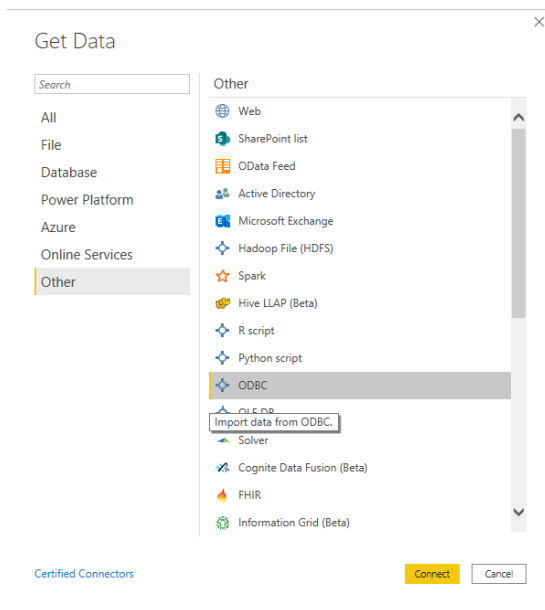
Reports can be created according to each customer's specific requirements. It is possible to create the reports manually, or use the Power BI template created by MyQ and available in the MyQ Community, in order to generate reports quickly.

- [Manual reports creation](#)
- [Reports creation via template import](#)
- [Report examples](#)
- [Database Views description](#)

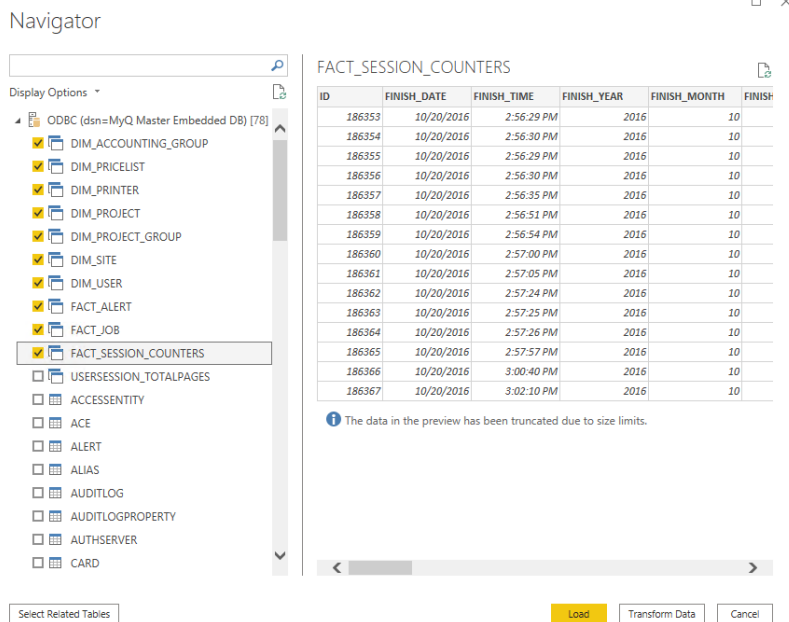
### 12.2.1 Manual Reports Creation

To manually create the reports, open Power BI and:

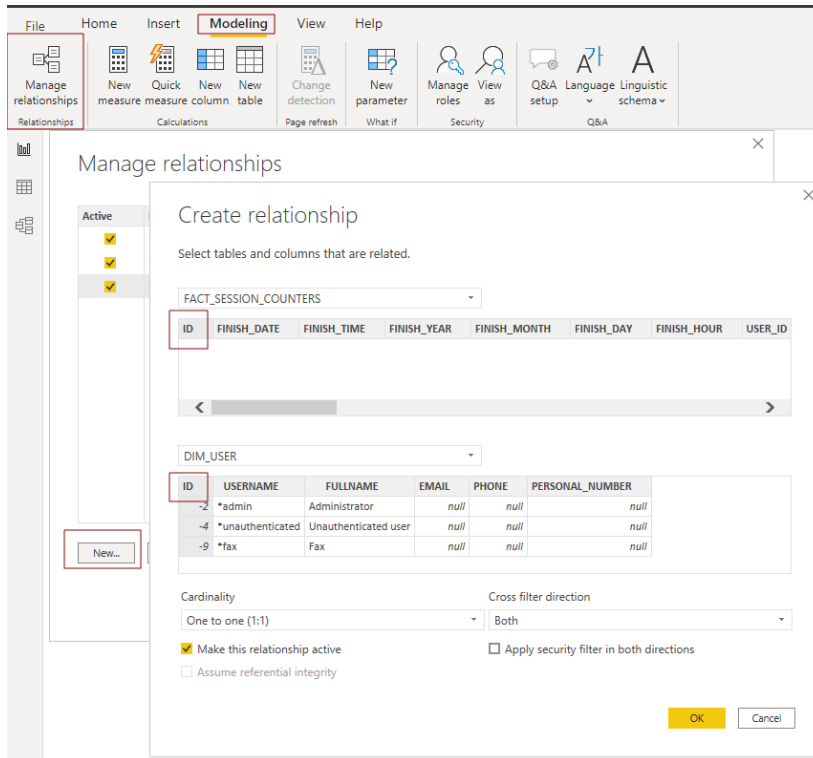
1. Establish the connection to your database:
  - a. For direct connection (**only for MS SQL servers**), click **Get data, SQL Server** and add the server and database name.
  - b. For ODBC, click **Get data, More...** In the new window, select **Other**, click on **ODBC** on the list, and click **Connect**. In the new prompt, select the Data source name (DSN) you created in the ODBC Data Sources app and click **OK**.



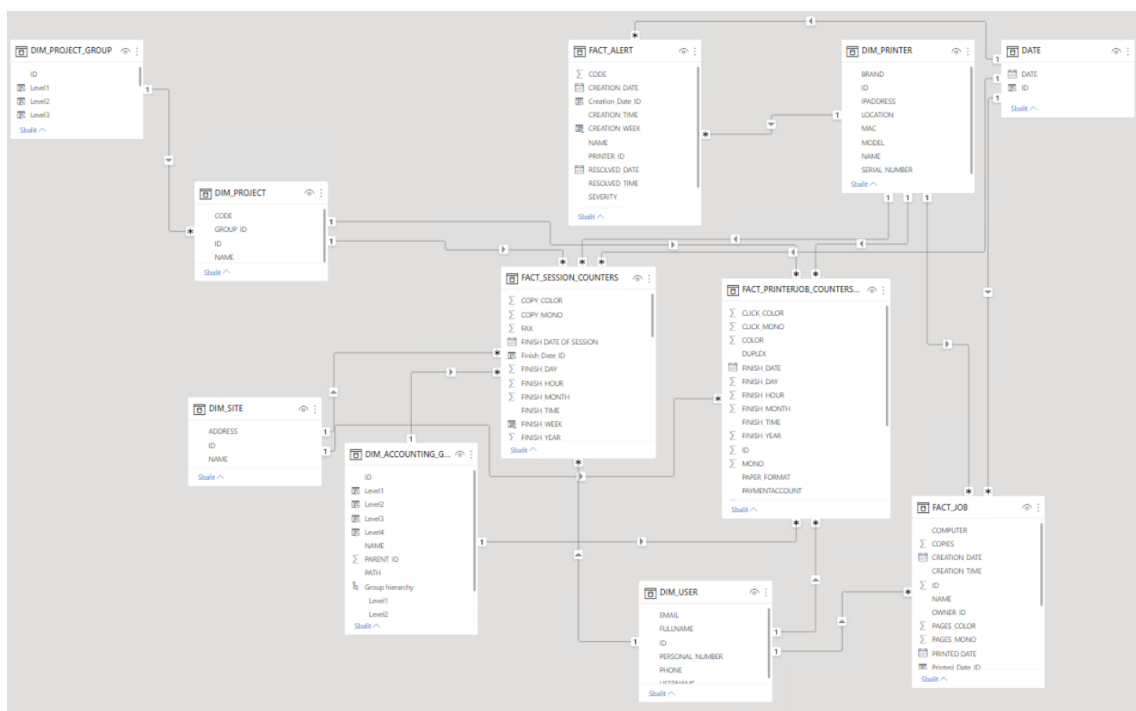
2. In the Navigator window, select all the options with the **DIM\_** and **FACT\_** prefixes and click **Load** (see [Database Views description](#)).



3. Power BI loads the data, however the relationships between them must be created manually, since Power BI cannot extract them:
  - a. Go to the Modeling menu and click on **Manage relationships**
  - b. Click **New...** and create the relationships between the views, selecting the IDs in each of them. Click **OK** once done.



4. Your model has been created and you can add visualizations to the report.

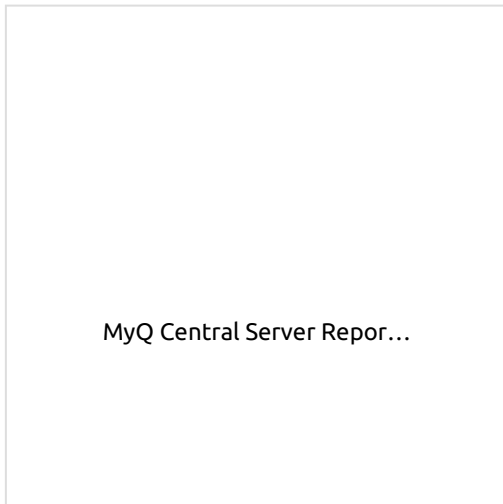




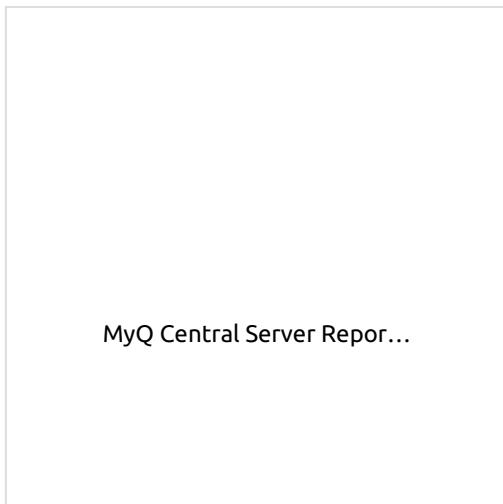
## 12.2.2 Reports creation via template import

There are two template versions, one to be used with an Embedded database and one to be used with an SQL server. An ODBC DSN for either an SQL Server or Firebird must be configured before using the template.

- ODBC template

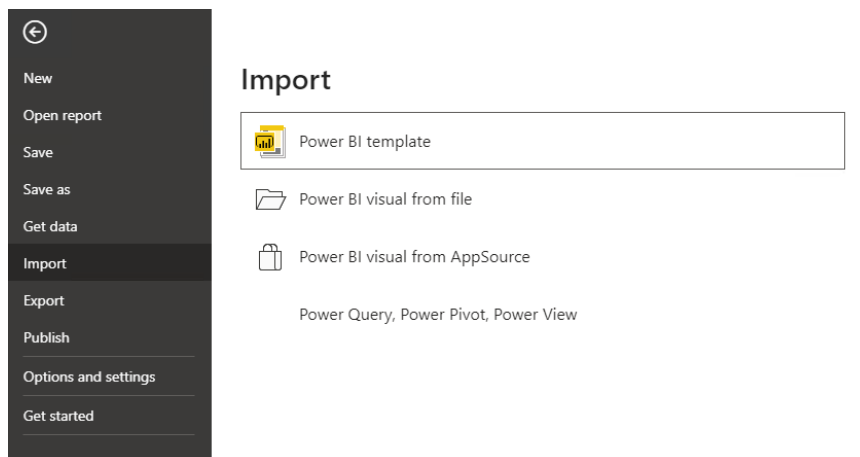


- SQL template



To import the template provided by MyQ , open Power BI and:

1. Open the **File** menu, select **Import**, and click on **Power BI template**. Find and open the correct template according to your database.



2. Establish the connection to your database:
  - a. For direct connection to an MS SQL server, add the **SQL Server** and **Database name** and click **Load**.

- b. For ODBC, add the **Data source name (DSN)** you created in the ODBC Data Sources app and click **Load**.

3. Power BI imports the data. The reports can be edited; the changes are saved in a different file so the template can be reused.

### 12.2.3 Report examples

The examples below were generated using the MyQ templates.



SAVINGS

PRINTED JOBS IN COLOR

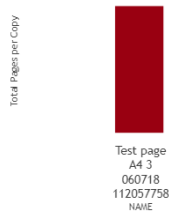
PRINTED JOBS IN B&W

**1984**  
Total pages

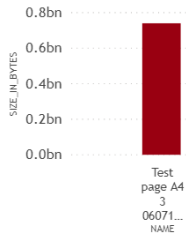
**247**

**55**

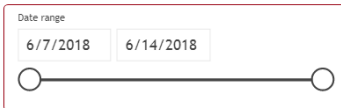
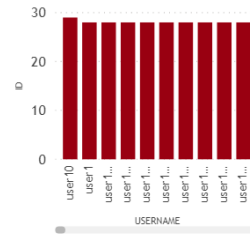
TOP JOBS BY TOTAL PAGES



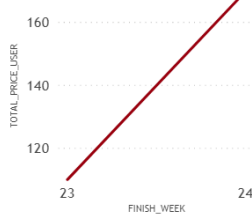
TOP JOBS BY SIZE



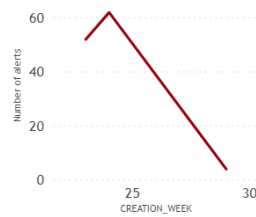
TOP USERS BY NUMBER OF JOBS PRINTED



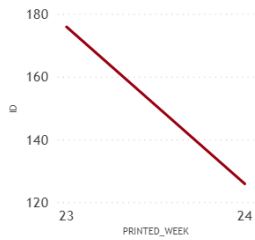
TOTAL COST PER WEEK



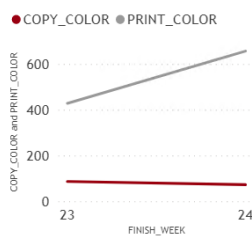
NUMBER OF ALERTS PER WEEK



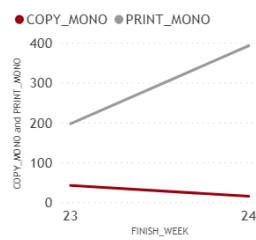
NUMBER OF JOBS PRINTED PER WEEK

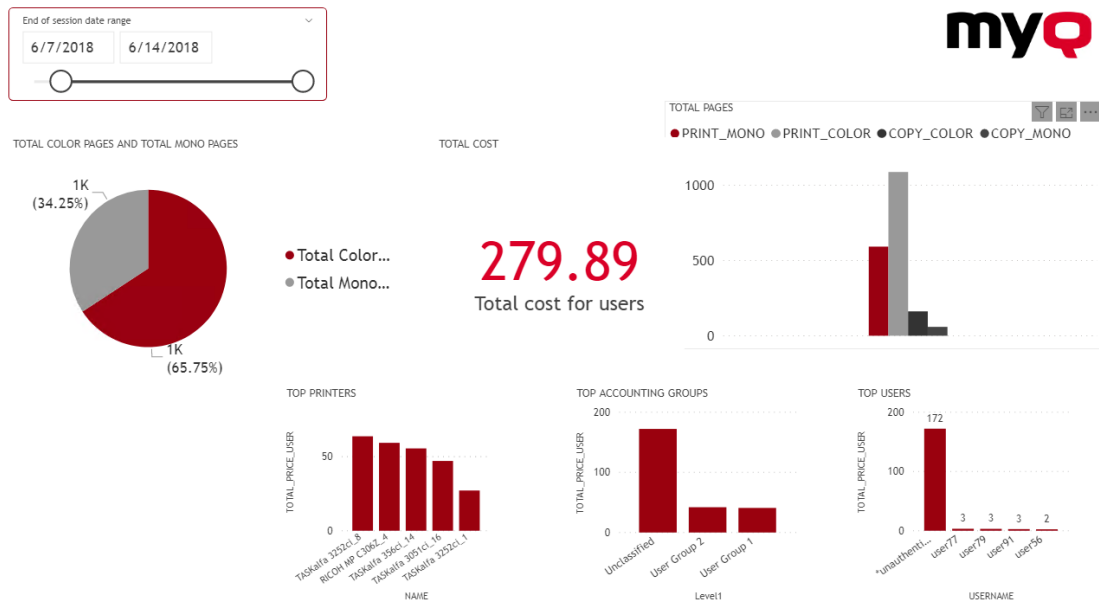


COLOR PAGES PER WEEK



MONO PAGES PER WEEK





### 12.2.4 Database Views description

There are two groups of views; **dimensions** and **facts**. The fact views contain measures, numeric data which can be used in calculations for reports. The dimension views contain descriptive information used for the measures in the facts. Dimension views have the **dim\_** prefix and fact views have the **fact\_** prefix.

The IDs in the views are internal MyQ IDs and can be used to establish relationships between views.

#### Printer Dimension (dim\_PRINTER\_V2) - Information about the printer

Field Name	Description
ID	Printer ID
Name	Printer name
IP_Address	Printer IP address
MAC	Printer MAC address
Brand	Printer brand
Model	Printer model

Field Name	Description
Location	Printer location
Serial_Number	Printer serial number
ASSET_NUMBER	Printer asset number
CONTACT	Printer contact info
NOTES	Printer notes (memo text)
MODE	Printer mode. Values: <b>1 = Offline</b> , <b>2 = Online</b> , <b>8 = Local</b>
IS_COLOR	Color printing. Values: <b>1 = Color print available</b> , <b>0 = Monochrome print only</b>
IS_COPIER	Copier function. Values: <b>1 = Copier</b> , <b>0 = Copier function is not available</b>
IS_A3	A3 paper format support. Values: <b>1 = A3 format is supported</b> , <b>0 = No A3 format support</b>
COPIER_COLOR_COUNTER	Total counter of color copies
COPIER_MONO_COUNTER	Total counter of monochrome copies
PRINTER_COLOR_COUNTER	Total counter of printed color pages
PRINTER_MONO_COUNTER	Total counter of printed monochrome pages
SCANNER_COUNTER	Total counter of scanned pages

Field Name	Description
FAX_COUNTER	Total counter of fax pages

**User Dimension (dim\_User)** - Information about the user

Field Name	Description
ID	User ID
USERNAME	MyQ username
FULLNAME	User's name and surname
EMAIL	User's email
PHONE	User's phone number
PERSONAL_NUMBER	User's MyQ personal number
CREDIT	Credit amount ( <b>null</b> - if credit is disabled for user)
LANGUAGE	User language
NOTES	Notes (memo text) to users account

**Printer Events Fact (fact\_PRINTER\_EVENTS)** - Information about printer events.

Field name	Description
Name	Name of the event
Type	Type of the event ( <b>alert</b> or <b>tonerLevel</b> or <b>totalCounter</b> or <b>tonerReplacement</b> )
Created	Date and time in which the event was created

Field name	Description
Closed	Date and time in which the event was closed
Data	Data of the event (JSON example: <pre>{   "TONER_K.LEVEL": "8",   "EVENT.TONER.INFO": "TK-8305Y",   "TONER_C.LEVEL": "6",   "TONER_K.INFO": "TK-8305K",   "TONER_C.INFO": "TK-8305C",   "TONER_M.INFO": "TK-8305M",   "TONER_M.LEVEL": "0",   "TONER_Y.INFO": "TK-8305Y",   "TONER_Y.LEVEL": "6",   "SUPPLY.INFO": "TK-8305C;TK-8305M;TK-8305Y;TK-8305K",   "EVENT.TONER.LEVEL": "6" }</pre>
Printer_id	ID of the printer where the event was raised

**Toner replacements (fact\_TONER\_REPLACEMENTS)** - It provides certain data about printer toners that have been replaced and currently installed. This view combines the results of **V\_TONERS\_REPLACED** and **V\_TONERS\_INSTALLED** into one view.

**V\_TONERS\_REPLACED**

Field name	Description
Name	Name of the toner
Type	Type of the toner ( <b>cyan</b> or <b>magenta</b> or <b>yellow</b> or <b>black</b> )
Installed	Date and time in which the toner was installed
Replaced	Date and time in which the toner was replaced
Counters	Total number of pages printed with the toner type of the toner until the toner was replaced

Field name	Description
Period	Number of days from the toner installation to the toner replacement
Pages	Number of pages printed by the toner
Printer_Id	ID of the printer where the toner was installed

### V\_TONERS\_INSTALLED

Field name	Description
Name	Name of the toner
Type	Type of the toner ( <b>cyan</b> or <b>magenta</b> or <b>yellow</b> or <b>black</b> )
Installed	Date and time in which the toner was installed
Replaced	NULL
Counters	Total number of pages printed with the toner type since the toner type installation
Period	Number of days since the toner installation
Pages	Number of pages printed by the toner
Printer_Id	ID of the printer where the toner was installed

**Printer jobs counter fact (fact\_PRINTERJOB\_COUNTERS\_V3)** - Information about printer jobs counters

Field name	Description
PRINTERJOB_ID	Printer job Id
USER_ID	User Id



Field name	Description
USER_GROUP_ID	Group of users
PRINTER_ID	Printer Id
PROJECT_ID	Project Id (-56 for jobs without project)
SITE_ID	Site id
TYPE	Job type. Values: <b>print</b> , <b>copy</b> , <b>scan</b> , <b>faxRx</b> (Incoming fax -print), <b>faxTx</b> (Outgoing fax - scan)
PAYMENTACCOUNT	Payment Account. Values <b>Credit</b> , <b>Quota</b> , <b>Cost Center</b>
FINISH_DATE	Date when job was finished
FINISH_TIME	Time when job was finished
FINISH_YEAR	Year when job was finished
FINISH_MONTH	Month when job was finished
FINISH_DAY	Day of a month when job was finished
FINISH_HOUR	Hour when job was finished
PAPER_FORMAT	Paper format
DUPLEX	Duplex print. Values: <b>Yes</b> , <b>No</b>
SHEETS	Used sheets of paper
MONO	Monochrome print job

Field name	Description
COLOR	Color print job
SINGLE	Single color print job
PRICE	Job price
CLICK_MONO	Click mono
CLICK_COLOR	Click color
SESSION_ID	User session id
JOB_ID	Job id (Reference to user's job)

**Job Fact (fact\_job)** - Information about print jobs

Field Name	Description
ID	Job ID
SESSION_ID	Session ID
NAME	Job name
OWNER_ID	Job owner ID
PRINTER_ID	Printer ID where the job was printed. Null if not printed
COMPUTER	Computer name or address where the job was sent from
SIZE_IN_BYTES	Job size in bytes
PAGES_MONO	Number of pages in black and white
PAGES_COLOR	Number of pages in color

Field Name	Description
DUPLEX	Duplex print. Values: <b>1 = Duplex</b> , <b>0 = Simplex</b>
COPIES	Number of copies
STATE	Job state. Values: <b>Ready</b> , <b>Printed</b> , <b>Expired or deleted</b>
PRINTED_DATE	Date when the job was printed
PRINTED_TIME	Time when the job was printed
CREATION_DATE	Date when the job was created
CREATION_TIME	Time when the job was created

#### Session Fact (FACT\_SESSION\_COUNTERS) - Information about sessions

Field Name	Description
ID	User session ID
FINISH_DATE	Date when session was finished
FINISH_TIME	Time when session was finished
FINISH_YEAR	Year when session was finished
FINISH_MONTH	Month when session was finished
FINISH_DAY	Day when session was finished
FINISH_HOUR	Hour when session was finished
USER_ID	User ID
PRINTER_ID	Printer id

Field Name	Description
PROJECT_ID	Project id
USER_GROUP_ID	User group id
TOTAL_PRICE_USER	Total price for the user
TOTAL_PRICE_ADMIN	Total price for the admin
TOTAL_PAGES	Total number of pages
PRINT_MONO	Printed pages in black and white
PRINT_COLOR	Printed pages in color
COPY_MONO	Copied pages in black and white
COPY_COLOR	Copied pages in color
COPY_SINGLECOLOR	Copied pages in single color
FAX	Faxed pages
SCAN	Scanned pages
PAPERA4	Pages in A4 paper format
PAPERA3	Pages in A3 paper format
PAPER_A5	Pages in A5 paper format
PAPER_B4	Pages in B4 paper format
PAPER_B5	Pages in B5 paper format
PAPER_FOLIO	Pages in folio paper format

Field Name	Description
PAPER_LEDGER	Pages in ledger paper format
PAPER_STATEMENT	Pages in statement paper format
PAPEROTHER	Pages in other paper format

**Session Environmental Impact Fact (FACT\_SESSION\_ENV\_IMPACT)** - Information about sessions' environmental impact

Field Name	Description
ID	User session ID
CREATION_DATE	Date of the session creation
FINISHDATE	Date when session was finished
TOTAL_A4	Converted to A4 paper size units total pages amount
USER_ID	User ID
GROUP_ID	User group id
PRINTER_ID	Printer id
TOTAL_TREES	Approximate amount of trees used per session
TOTAL_CO2_GRAMS	Approximate amount of CO2 was produced per session (in gram units)
TOTAL_ENERGY_WH	Approximate amount of Energy consumed per session (in watt-hour units)
TOTAL_ENERGY_WH_RECYCLED	Estimated approximate amount of Energy will be consumed to recycle used amount of paper per session (in watt-hour units)

**Printer Job Environmental Impact Fact (FACT\_PRINTERJOB\_ENV\_IMPACT)**

-Information about printer job's environmental impact

Field Name	Description
ID	Printer Job counter Id
PRINTERJOB_ID	Printer Job Id
TOTAL_TREES	Approximate amount of trees used per session
TOTAL_CO2_GRAMS	Approximate amount of CO2 was produced per session (in gram units)
TOTAL_ENERGY_WH	Approximate amount of Energy consumed per session (in watt-hour units)
TOTAL_ENERGY_WH_RECYCLED	Estimated approximate amount of Energy will be consumed to recycle used amount of paper per session (in watt-hour units)



There is a limitation that even if you are using a Job Privacy license, the data in the database are not changed by this feature and are still readable.

## 13 System health check

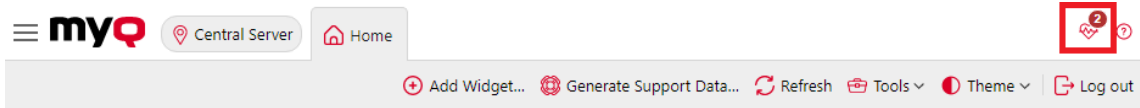
This option presents you with an overview of error messages with the level of severity added after some registered checks are done. The errors concern database health, disk space availability, PIN length settings and time zone configuration, etc. They are listed in the table below.

Code	Severity	Description
101	High	Main database health is not good; multiple messages can appear in the log
102	High	Log database health is not good; multiple messages can appear in the log
103	Medium	PIN length needs to be increased
104	High	Disk space is on warning level
105	Critical	Disk space is on critical level
106	High	Time zones misconfiguration
109	High	License subscription is going to expire
110	High	License Subscription expired
111	High	Contacting license server failed
112	High	HW code mismatch
113	High	License activation required
114	High	License expires soon

When the error message has a **Critical** severity, the administrator gets an email. Every error message with a **Low** severity is logged in the MyQ main log.

### 13.1 Using system health check

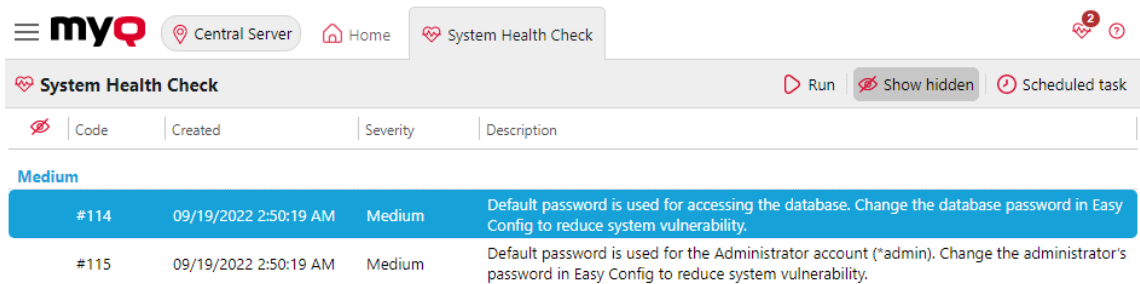
To access the system health check overview go to **MyQ, System Health Check**, or click on the system health check button on the top-right side of the window.



Click **Run** to trigger the System health check **Task schedule** to perform a check.

Click **Show hidden** to view any hidden checks on the list.

Click **Scheduled task** to open the System Health Check task in Task Scheduler, where you can view and modify it.






## 14 Updating MyQ

The MyQ update to a higher version or reinstalling the same version is performed automatically after running the installation executable file.

Before a MyQ update on Windows Server 2012/2012 R2/2016/2019 (or on Windows 8.1/10), make sure that the latest Windows updates are downloaded and installed on the server.


When upgrading or updating MyQ, ensure all antivirus exclusions are made and that there are no running scan operations on the MyQ directories structure.

It is strongly recommend to backup your database before the update.

 A direct upgrade to version 10.0 is only possible from version 8.2.

To update MyQ:

1. Run the MyQ software installation executable file. The Select Setup Language dialog box appears.
2. Select your language, and then click **Next**. The Setup dialog box appears. It informs you that there is an older version of MyQ and that the installer will start the update process.
3. Click **Yes**. The License Agreement dialog box appears.
4. Select **I accept the agreement** and click **Next**.
5. In the Ready to Install dialog, click **Install**. The rest of the update process is nearly identical to this of installing MyQ.

 In older MyQ versions, it was possible to switch between a Standalone server, a Site server, or a Central server. This is no longer available, as the MyQ Print server and MyQ Central server are different products and use separate installers. If you have such a setup and plan to upgrade it to MyQ Central server 10.0, be advised that the upgrade will not be successful. This kind of upgrade and migration is only available between MyQ Central server 8.1 and MyQ Central server 8.2. Check [here](#) for further details.

## 15 Uninstalling MyQ

To uninstall MyQ:

1. Run **unins000.exe**. You can find this file in your MyQ program folder (the default folder is: *C:\Program Files\MyQ Central Server*). The MyQ Uninstall dialog box appears.
2. Click **Yes**.

All parts of MyQ will be uninstalled except for the **Data Folder**. You can delete the folder manually. In case you install MyQ again, the installation program will ask if you want to use the old database files or replace them with new files.

## 16 Business Contacts

<b>MyQ® Manufacturer</b>	<b>MyQ® spol. s r.o.</b> Harfa Office Park, Ceskomoravska 2420/15, 190 93 Prague 9, Czech Republic MyQ® Company is registered in the Companies register at the Municipal Court in Prague, division C, no. 29842
<b>Business information</b>	<a href="http://www.myq-solution.com">www.myq-solution.com</a> <a href="mailto:info@myq-solution.com">info@myq-solution.com</a>
<b>Technical support</b>	<a href="mailto:support@myq-solution.com">support@myq-solution.com</a>
<b>Notice</b>	<p>MANUFACTURER WILL NOT BE LIABLE FOR ANY LOSS OR DAMAGE CAUSED BY INSTALLATION OR OPERATION OF THE SOFTWARE AND HARDWARE PARTS OF THE MyQ® PRINTING SOLUTION.</p> <p>This manual, its content, design and structure are protected by copyright. Copying or other reproduction of all or part of this guide, or any copyrightable subject matter without the prior written consent of MyQ® Company is prohibited and can be punishable.</p> <p>MyQ® is not responsible for the content of this manual, particularly regarding its integrity, currency and commercial occupancy. All the material published here is exclusively of informative character.</p> <p>This manual is subject to change without notification. MyQ® Company is not obliged to make these changes periodically nor announce them, and is not responsible for currently published information to be compatible with the latest version of the MyQ® printing solution.</p>
<b>Trademarks</b>	<p>MyQ®, including its logos, is a registered trademark of MyQ® company. Microsoft Windows, Windows NT and Windows Server are registered trademarks of Microsoft Corporation. All other brands and product names might be registered trademarks or trademarks of their respective companies.</p> <p>Any use of trademarks of MyQ® including its logos without the prior written consent of MyQ® Company is prohibited. The trademark and product name is protected by MyQ® Company and/or its local affiliates.</p>