



# Qlik Deployment Console (QDC)

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Qlik Sense®

2.2

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# 1 Introduction

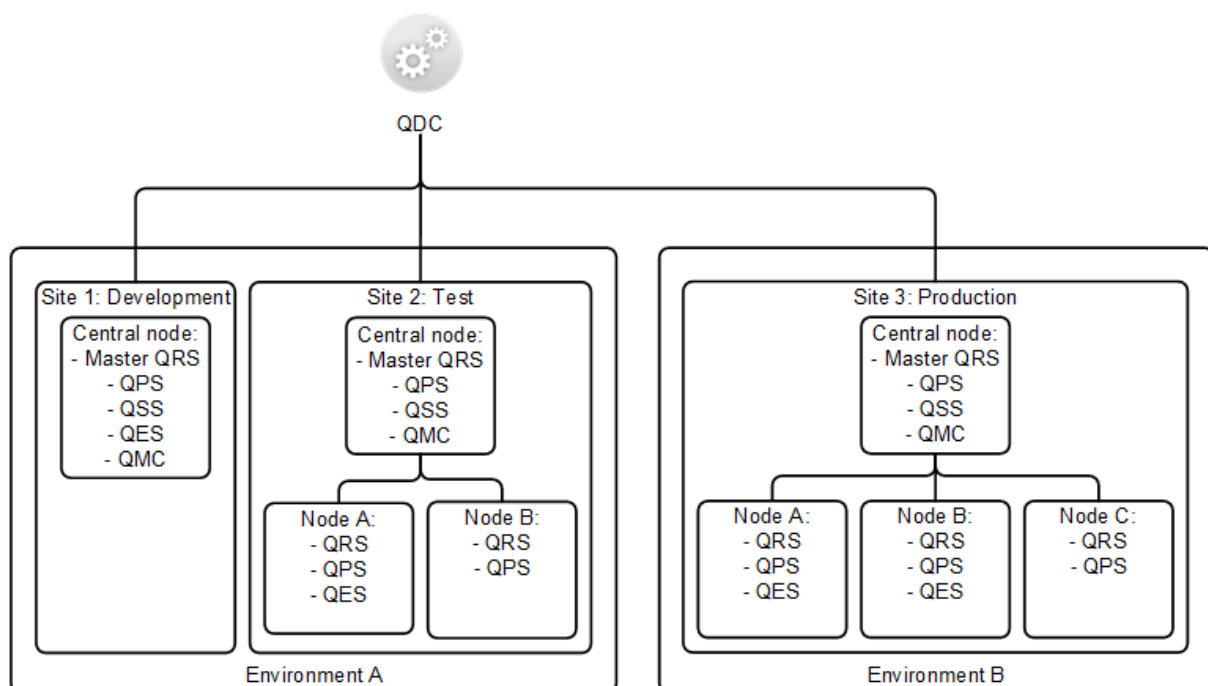
This guide describes the Qlik Deployment Console (QDC), which is used to create and manage Qlik Sense sites that are deployed in cloud computing environments.

This document is derived from the online help for Qlik Sense. It is intended for those who want to read parts of the help offline or print pages easily, and does not include any additional information compared with the online help.

Using the QDC, you can:

- Create and manage Qlik Sense sites
- Incorporate existing sites for use in the QDC
- Create, manage, clone, and delete nodes in Qlik Sense sites that are deployed in cloud computing environments
- Monitor the status of sites
- Manage the plug-ins that are used to provide different cloud computing environments for your Qlik Sense sites
- Create tasks that are used to transfer apps between sites
- Manage different versions of the Qlik Sense setup files, which allows different sites to use different versions of Qlik Sense
- Create and manage objects that contain different settings for the plug-ins and cloud computing environments

The example below shows how the QDC can be used to manage multiple sites that are deployed in different cloud computing environments. The sites are logically separated from each other.



Short form	Description
QRS	Qlik Sense Repository Service
QPS	Qlik Sense Proxy Service
QSS	Qlik Sense Scheduler Service
QES	Qlik Sense Engine Service
QMC	Qlik Management Console

See Plan Qlik Sense deployments for detailed information on the Qlik Sense architecture.

## 1.1 Qlik Deployment Console conventions

The following conventions are used in the description of the Qlik Deployment Console (QDC).

### Style coding

- Menu commands and dialog options are written in **bold**.
- Filenames and paths are written in *Italics*.
- Sample code is written in `Lucida Console`.

### Environment variables

The paths used in the description of the QDC may use environment variables. The variables and the equivalent paths in the Microsoft Windows operating system are listed below.

Environment variable	Microsoft Windows
<code>%LocalAppData%</code>	<i>C:\Users\&lt;&lt;username&gt;\AppData\Local</i>
<code>%ProgramData%</code>	<i>C:\ProgramData</i>
<code>%ProgramFiles%</code>	<i>C:\Program Files</i>
<code>%UserProfile%</code>	<i>C:\Users\&lt;&lt;username&gt;</i>

## 1.2 Additional documentation

Besides this document, the following documentation is available for the Qlik Deployment Console (QDC):

- AWS plug-in: Describes the Amazon Web Services (AWS) plug-in, including the parts in the QDC that are specific to the AWS plug-in.
- vSphere plug-in: Describes the VMware vSphere plug-in, including the parts in the QDC that are specific to the vSphere plug-in.
- Plan Qlik Sense deployments: Describes Qlik Sense and provides reference information on the architecture, security, logging, and licensing.

## 2 Qlik Deployment Console system requirements

This section lists the system requirements for the Qlik Deployment Console (QDC) and the Qlik Sense nodes, respectively.

### 2.1 Qlik Deployment Console

This section lists the requirements that must be fulfilled by the target system in order to successfully install and run the QDC.

<b>Platforms</b>	Microsoft Windows 7 (64-bit version only) Microsoft Windows 8.1 (64-bit version only) Microsoft Windows 10 Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2
<b>Processors (CPUs)</b>	Intel Core 2 Duo or higher
<b>Memory</b>	4 GB minimum
<b>Disk space</b>	500 MB total required to install
<b>.NET framework</b>	4.5.2
<b>Windows PowerShell</b>	3.0 or higher

### 2.2 Local user group

The Qlik Deployment Console (QDC) client and server are by default installed on the same machine and communicate using the HTTP protocol.

All QDC users must be members of a local user group, Qlik Deployment Administrators, in Microsoft Windows on the machine where the QDC server is deployed.

#### Group membership

The following table describes how the Qlik Deployment Administrators group is handled by the QDC.

## 2 Qlik Deployment Console system requirements

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Group status	Group membership
The group does not exist	The group is created when the QDC client calls the QDC server for the first time. The user that runs the client automatically becomes a member of the group. Additional members are added using the <b>Local Users and Groups</b> snap-in in the Microsoft Management Console (MMC).
The group exists, but is empty	The user that runs the QDC client when the client calls the server for the first time automatically becomes a member of the group. Additional members are added using the <b>Local Users and Groups</b> snap-in in the Microsoft Management Console (MMC).
The group exists and contains users	The user is authorized to use the QDC, if the user is a member of the group. Additional members are added using the <b>Local Users and Groups</b> snap-in in the Microsoft Management Console (MMC).

### Creating the local user group before installing the QDC

The Qlik Deployment Administrators group can be created and populated before the QDC is installed. Proceed as follows:

1. Start the Microsoft Management Console (MMC).
2. Select **File>Add/Remove Snap-in**.
3. Select **Local Users and Groups** in the **Available snap-ins** list.
4. Select **Add >**.
5. Select **Local computer** and then click **Finish**.  
The **Local users and groups** snap-in is displayed in the **Selected snap-ins** list.
6. Click **OK**.
7. Expand **Local Users and Groups (Local)**.
8. Right-click **Groups** and select **New Group**.
9. Create a new user group called *Qlik Deployment Administrators* and add all QDC users to the new group.
10. Click **Create** and then **Close**.
11. Check that the new group is displayed in the list of groups.
12. All users in the Qlik Deployment Administrators group need to log off and then log on again for the group membership to take effect.

### 2.3 Qlik Sense nodes

The requirements for nodes might differ between different versions of Qlik Sense.



## 2 Qlik Deployment Console system requirements

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See the Install and upgrade Qlik Sense for Qlik Sense for information on the requirements that must be fulfilled by a node in a Qlik Sense site).

### 2.4 Ports

The following ports are used for communication by the QDC:

- 23580: HTTP protocol
- 23581: HTTPS protocol
- 23582: SignalRPort

Make sure that the ports are available for the QDC to use.

# 3 Installing the Qlik Deployment Console

Proceed as follows to install the Qlik Deployment Console (QDC):

1. Double-click the QDC installation file.  
The Qlik Deployment Console setup wizard starts.
2. Click **Next**.  
The End-user license agreement is displayed.
3. Check the **I accept the terms in the License Agreement** box.
4. Click **Next**.
5. Click **Install**.  
The QDC is installed.
6. Click **Finish**.

## 4 Starting the Qlik Deployment Console

To start the Qlik Deployment Console (QDC) after installation, go to **Start menu>Qlik Sense>Qlik Deployment Console**.



The user that runs the QDC must be a member of the Qlik Deployment Administrators group. See *Local user group* (page 7).

### See also:

- Cannot start the Qlik Deployment Console (page 37)

### 4.1 Qlik Deployment Console start page

The Qlik Deployment Console (QDC) start page provides an overview of the Qlik Sense cloud computing environment.

**A** The top bar is always displayed.

Click **Q Qlik Deployment Console** to refresh the start page or go to it, if it is not currently displayed.

Select **Help > Help** to open the QDC help in the default browser.

Select **Help > About** to display version information and the third-party software used in the QDC.

## 4 Starting the Qlik Deployment Console

<b>B</b>	The left panel is always displayed and contains shortcuts to the resources that can be managed in the QDC. Select a resource to display detailed information on it.
<b>C</b>	<p>The work area provides information on the Qlik Sense cloud computing environment.</p> <p><b>Sites</b> A Qlik Sense site is a collection of one or more nodes connected to a common logical repository or central node.</p> <p>The <b>Sites</b> view provides an overview of the Qlik Sense sites that are maintained by the Qlik Deployment Console (QDC). (x) indicates the current number of sites.</p> <p><b>Plug-ins</b> Plug-ins are used in the Qlik Deployment Console (QDC) to deploy Qlik Sense sites in different cloud computing environments. A plug-in consists of one or more modules, each of which includes certain functionality (for example, credentials) related to the cloud computing environment.</p> <p>The <b>Plug-ins</b> view provides an overview of the plug-ins that are registered in the Qlik Deployment Console (QDC). (x) indicates the current number of plug-ins.</p> <p><b>Tasks</b> Tasks are used to transfer apps from one site and stream to another site in the Qlik Deployment Console (QDC).</p> <p>The <b>Tasks</b> view provides an overview of the tasks that have been created in the QDC. (x) indicates the current number of tasks.</p> <p><b>Qlik Sense setup files</b> The Qlik Deployment Console (QDC) supports the use of multiple versions of Qlik Sense, which means that different sites can use different versions of Qlik Sense. This is accomplished by uploading different versions of the Qlik Sense setup file to the QDC.</p> <p>The <b>Qlik Sense setup files</b> view provides an overview of the setup files that have been uploaded to the Qlik Deployment Console (QDC). (x) indicates the current number of Qlik Sense versions available.</p> <p><b>Objects</b> An object is used to hold a certain type of information related to a specific plug-in or cloud computing environment.</p> <p>The <b>Objects</b> view provides an overview of the objects that are available in the Qlik Deployment Console (QDC). (x) indicates the current number of objects.</p> <p>Select a resource to display detailed information on it.</p>

### See also:

- ▢ [Sites \(page 13\)](#)
- ▢ [Plug-ins \(page 25\)](#)
- ▢ [Tasks \(page 27\)](#)
- ▢ [Qlik Sense setup files \(page 30\)](#)
- ▢ [Objects \(page 33\)](#)

## 5 Sites

A Qlik Sense site is a collection of one or more nodes connected to a common logical repository or central node. App data and all necessary meta-data are synchronized between the central node and the other nodes using asynchronous communication.

See Plan Qlik Sense deployments for detailed information on the Qlik Sense architecture.

### 5.1 Sites view

The **Sites** view provides an overview of the Qlik Sense sites that are maintained by the Qlik Deployment Console (QDC).



Each site is displayed with the central node in the middle. Any additional nodes are placed around the central node.

The color of a node indicates the status of the node:

- Green: The node is up and running.
- Red: There is a problem with the node.
- Gray: The site is starting up.

Select a site to display detailed information on it.


See: *Site details view (page 14)*

Click **Create new site** to create a new site.

See: *Creating sites (page 18)*

Click  to clone a site.

See: *Cloning sites (page 20)*

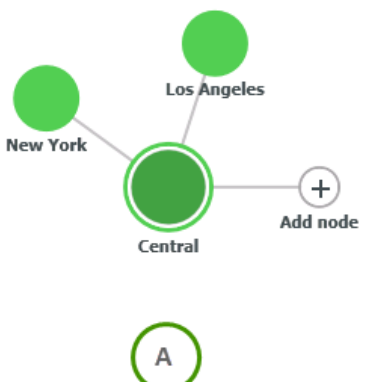
Click  to delete a site.

See: *Deleting sites (page 21)*

## 5.2 Site details view

< Site details

**America**  
2.1.0.0



**Properties**

Created  
2015-07-02 15:28

Environment name  
Amazon Cloud Environment B

Public IP  
52.18.51.57

Public DNS  
ec2-52-18-51-57.eu-west-1.compute.amazon

Remote desktop

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**▼ Services**

Proxy	▶	Running	
Repository	▶	Running	C
Engine	▶	Running	
Scheduler	▶	Running	

**▶ Configuration** D

Deploy site
Open QMC

Delete
Clone

<b>A</b>	<p>This area provides details on the selected site.</p> <p>The name of the site and the Qlik Sense version used to deploy the site are displayed at the top.</p> <p>If there is a problem with a node, the node is displayed in red.</p> <p>To return to the <b>Sites</b> view, click &lt;.</p> <p>See: <i>Sites (page 13)</i></p> <p>Click <b>Add node</b> to add a new node.</p> <p>See: <i>Adding new nodes (page 22)</i></p> <p>Click <b>Deploy site</b> to implement any changes. The button is disabled when there are no changes that can be deployed.</p> <p>Click <b>Open QMC</b> to open the Qlik Management Console (QMC) on the selected node.</p> <p>See: <i>Starting the Qlik Management Console (page 24)</i></p>								
<b>B</b>	<p>The <b>Properties</b> area displays the properties of the selected node.</p> <table data-bbox="319 963 1356 1164"><tr><td><b>Created</b></td><td>The date and time when the node was created.</td></tr><tr><td><b>Environment name</b></td><td>The name of the plug-in that was used to deploy the site and node.</td></tr><tr><td><b>Public IP</b></td><td>The IP number of the machine on which the node is deployed.</td></tr><tr><td><b>Public DNS</b></td><td>The DNS of the machine on which the node is deployed.</td></tr></table> <p>Click <b>Remote desktop</b> to open a remote desktop to the machine on which the node is deployed.</p> <p>See: <i>Connecting to a remote desktop (page 24)</i></p>	<b>Created</b>	The date and time when the node was created.	<b>Environment name</b>	The name of the plug-in that was used to deploy the site and node.	<b>Public IP</b>	The IP number of the machine on which the node is deployed.	<b>Public DNS</b>	The DNS of the machine on which the node is deployed.
<b>Created</b>	The date and time when the node was created.								
<b>Environment name</b>	The name of the plug-in that was used to deploy the site and node.								
<b>Public IP</b>	The IP number of the machine on which the node is deployed.								
<b>Public DNS</b>	The DNS of the machine on which the node is deployed.								

**C**

This area displays the status of the Qlik Sense services running on the selected node.

Use ► and ▼ to show and hide information.

**Services**

**Proxy** The status of the Qlik Sense Proxy Service (QPS) as reported by the QRS on the central node.

**Repository** The status of the Qlik Sense Repository Service (QRS) as reported by the QRS on the central node.




The status may indicate problems if:

- The repository database is unavailable or incorrect
- A refresh is needed
- The IP number is incorrect
- The port is incorrect or closed
- The certificate is incorrect or missing

**Engine** The status of the Qlik Sense Engine Service (QES) as reported by the QRS on the central node.

**Scheduler** The status of the Qlik Sense Scheduler Service (QSS) as reported by the QRS on the central node.

The icons indicate the status of the Qlik Sense services running on the node:

-  (running): The service is up and running.
-  (not running): The service is not up and running.
-  (error): An error occurred when deploying the service on the machine.



**D** This area displays the configuration of the selected node.



*This area is empty for sites that have been incorporated into the QDC using Incorporating sites (page 19).*

Use ► and ▼ to show and hide information.

The configuration information differs depending on whether the node is a central node or not.

### Central node

The first fields are common for all central nodes.

<b>Site name</b>	The name of the site.
<b>License</b>	The name of the Qlik Sense license object used.

The rest of the fields are specific for the cloud computing environment and depend on the plug-in used. For information specific to your plug-in, see the documentation for the plug-in.

### Other nodes

The first fields are common for all nodes that are not central nodes.

<b>Node name</b>	The name of the node.
<b>Node type</b>	The type of node: <ul style="list-style-type: none"> <li>• Complete: A complete node that includes all Qlik Sense services.</li> <li>• Proxy: A node that is used to manage Qlik Sense authentication, session handling, and load balancing.</li> <li>• Engine: A node that provides the analytical power of Qlik Sense.</li> <li>• Proxy &amp; Engine: A node that is a combination of the Proxy and Engine types listed above.</li> <li>• Scheduler: A node that is used to manage scheduled reloads of Qlik Sense apps and other types of reload triggering.</li> </ul>

The rest of the fields are specific for the cloud computing environment and depend on the plug-in used. For information specific to your plug-in, see the documentation for the plug-in.

Click **Delete** to delete the selected node.

See: *Deleting nodes (page 24)*

Click **Clone** to clone the selected node.

See: *Cloning nodes (page 23)*

## 5.3 Creating sites



*This procedure is used to create a new central node.*

Proceed as follows to create a Qlik Sense site that is deployed in a cloud computing environment:

1. Select **Sites** in the left panel.
2. Click **Create new site** to create a new site.
3. Select the plug-in to use when creating the site.
4. Fill in the fields in the **Site configuration** section.

*See: Site configuration (page 18)*

To return to the **Sites** view, click <.

5. Review and, if needed, edit the fields in the remaining sections.

The fields depend on the plug-in selected. For information specific to your plug-in, see the documentation for the plug-in.

6. If needed, add additional nodes to the site:

- a. Click **Add node** to add a new node.
- b. Review and, if needed, edit the fields in the **Node configuration** section.

*See: Node configuration (page 23)*

- c. Review and, if needed, edit the fields in the remaining sections.

The fields depend on the plug-in selected. For information specific to your plug-in, see the documentation for the plug-in.

7. Click **Deploy site** to implement any changes.

The deployment is initiated. For details on the progress of a specific node, select the node and check the **Deployment progress** section in the **Properties** area.

### See also:

- ▢ *Adding new nodes (page 22)*

## Site configuration

Proceed as follows to fill in the fields in the **Site configuration** section when creating a new site.

<b>Site name</b>	Enter a name for the Qlik Sense site.
------------------	---------------------------------------

<b>License</b>	<p>Select a Qlik Sense license object in the drop-down list.</p> <p>If the list is empty, you need to add an object.</p> <p>See: <i>Creating objects (page 33)</i></p>
<b>Qlik Sense version</b>	<p>Select a Qlik Sense version in the drop-down list.</p> <p>See: <i>Qlik Sense setup files view (page 30)</i></p> <p>If you select a version that corresponds to an update file, the update file and its corresponding baseline setup file are installed.</p> <p>See: <i>Qlik Sense setup files (page 30)</i></p>

## 5.4 Incorporating sites

Existing Qlik Sense sites that have been installed and deployed outside of the Qlik Deployment Console (QDC) can be incorporated for use in the QDC. This simplifies scaling of existing sites.



*To incorporate a site in the QDC, the certificates for the site are needed. Use the Qlik Management Console (QMC) for the site to export the certificates.*

Proceed as follows to incorporate an existing site in the QDC:

1. Select **Sites** in the left panel.
2. Click **Create new site**.
3. Select the **Physical environment** plug-in.  
The Incorporate existing site wizard starts.
4. Fill in the fields in the first step, **Site connection**, of the wizard.  
See: *Site connection (page 19)*  
Click **Next** to proceed to the next step. Click **Cancel** to exit the wizard.
5. Review the **Site summary** and then click **Incorporate site** to incorporate the site in the QDC.  
Click **Back** to return to the previous step. Click **Cancel** to exit the wizard.

### Site connection

Proceed as follows to fill in the fields in the first step, **Site connection**, of the Incorporate existing site wizard.

<b>Site name</b>	Enter the name to use for the site in the Qlik Deployment Console (QDC).
------------------	--


<b>Host name</b>	Enter the host name (for example, <i>host.domain.com</i> ) of the central Qlik Sense Repository Service (QRS) for the site.
<b>Certificate location</b>	Browse to a ZIP file that contains the certificates for the site.
<b>Certificate password</b>	Enter the password for the Qlik Sense certificate.
<b>Qlik Sense user directory and root admin user name</b>	Enter the Qlik Sense user directory and root admin user name in <i>&lt;domain&gt;\&lt;user&gt;</i> format.
<b>Qlik Sense license</b>	<p>Select a Qlik Sense license object in the drop-down list.</p> <p>If the list is empty or if you want to add a new license object, click <b>+</b>.</p> <p>Proceed as follows to fill in the fields for a Qlik Sense license object.</p> <p><b>Name</b> Enter a name for the license object.</p> <p><b>Owner name</b> Enter the user name of the Qlik Sense product owner.</p> <p><b>Owner organization</b> Enter the name of the organization of which the Qlik Sense product owner is a member.</p> <p><b>Serial number</b> Enter the serial number assigned to the Qlik Sense software.</p> <p><b>Control number</b> Enter the control number assigned to the Qlik Sense software.</p> <p>Click <b>Save</b> to save the object. Click <b>Cancel</b> to exit without saving.</p>

## 5.5 Cloning sites



*This procedure is used to clone already existing sites. Note that only the deployment configuration of the site is cloned, not the site content.*

Proceed as follows to clone a Qlik Sense site:

1. Select **Sites** in the left panel.
2. Click  to clone a site.
3. For each node in the cloned site, review and, if needed, edit the fields:



*If the original site was created using a previous version of the Qlik Deployment Console (QDC), the fields may be empty.*

- a. On the central node, review and, if needed, edit the **Site configuration** section and then the fields in the remaining sections.

See: *Site configuration (page 18)*

The fields depend on the plug-in selected. For information specific to your plug-in, see the documentation for the plug-in.

- b. For each rim node (if any), review and, if needed, edit the **Node configuration** section and then the fields in the remaining sections.

See: *Node configuration (page 23)*

The fields depend on the plug-in selected. For information specific to your plug-in, see the documentation for the plug-in.

To return to the **Sites** view, click <.

4. If needed, add additional nodes to the site:

- a. Click **Add node** to add a new node.

- b. Review and, if needed, edit the fields in the **Node configuration** section.

See: *Node configuration (page 23)*

- c. Review and, if needed, edit the fields in the remaining sections.

The fields depend on the plug-in selected. For information specific to your plug-in, see the documentation for the plug-in.

5. Click **Deploy site** to implement any changes.

The deployment is initiated. For details on the progress of a specific node, select the node and check the **Deployment progress** section in the **Properties** area.


---

**See also:**

- ▢ *Creating sites (page 18)*

## 5.6 Deleting sites

Proceed as follows to delete a Qlik Sense site from a cloud computing environment:

1. Select **Sites** in the left panel.
2. Click  to delete a site.



*Any nodes that are connected to the site are deleted. However, any tasks that are connected to the site must be deleted before the site can be deleted.*

3. Click **Yes** to confirm the deletion.

**See also:**

- ▢ [Deleting tasks \(page 29\)](#)

## 5.7 Adding new nodes



*This procedure is used to add new nodes in an existing Qlik Sense site.*

Proceed as follows to add a new node in a Qlik Sense site:

1. Select **Sites** in the left panel.
2. Select a Qlik Sense site.
3. Click **Add node** to add a new node.  
To return to the **Sites** view, click <.
4. If you add a node to a site that has been incorporated into the Qlik Deployment Console (QDC), select the plug-in to use when creating the node.  
See: [Incorporating sites \(page 19\)](#)
5. Review and, if needed, edit the fields in the **Node configuration** section.  
See: [Node configuration \(page 23\)](#)
6. Review and, if needed, edit the fields in the remaining sections.  
The fields depend on the plug-in selected. For information specific to your plug-in, see the documentation for the plug-in.
7. If you want to add another node, return to step 3.
8. If you want to clone a node, select a node and then click **Clone**:
  - a. Review and, if needed, edit the fields in the **Node configuration** section.  
See: [Node configuration \(page 23\)](#)
  - b. Review and, if needed, edit the fields in the remaining sections.  
The fields depend on the plug-in selected. For information specific to your plug-in, see the documentation for the plug-in.
9. Click **Deploy site** to implement any changes.  
The deployment is initiated. For details on the progress of a specific node, select the node and check the **Deployment progress** section in the **Properties** area.

**See also:**

- ▢ [Cloning nodes \(page 23\)](#)

## Node configuration

Proceed as follows to fill in the fields in the **Node configuration** section when adding a new node.

<b>Node name</b>	Enter a name for the new node.
<b>Node type</b>	<p>Select the type of node to add:</p> <ul style="list-style-type: none"> <li>• Complete: A complete node that includes all Qlik Sense services.</li> <li>• Proxy: A node that is used to manage Qlik Sense authentication, session handling, and load balancing.</li> <li>• Engine: A node that provides the analytical power of Qlik Sense.</li> <li>• Proxy &amp; Engine: A node that is a combination of the Proxy and Engine types listed above.</li> <li>• Scheduler: A node that is used to manage scheduled reloads of Qlik Sense apps and other types of reload triggering.</li> </ul>

## 5.8 Cloning nodes



*Central nodes cannot be cloned.*

Proceed as follows to clone an already existing node:

1. Select **Sites** in the left panel.
  2. Select a Qlik Sense site.
  3. Select a node in the site.
- To return to the **Sites** view, click <.
4. Click **Clone** to clone the selected node.
  5. Review and, if needed, edit the fields in the **Node configuration** section.

See: [Node configuration \(page 23\)](#)

6. Review and, if needed, edit the fields in the remaining sections.

The fields depend on the plug-in selected. For information specific to your plug-in, see the documentation for the plug-in.

7. If you want to clone another node, return to step 3.
8. Click **Deploy site** to implement any changes.

The deployment is initiated. For details on the progress of a specific node, select the node and check the **Deployment progress** section in the **Properties** area.

---

### See also:

- [Adding new nodes \(page 22\)](#)

## 5.9 Deleting nodes

Proceed as follows to delete a node from a Qlik Sense site:

1. Select **Sites** in the left panel.
2. Select a Qlik Sense site.
3. Select a node in the site.
4. Click **Delete** to delete a node.
5. Click **Yes** to confirm the deletion.

## 5.10 Starting the Qlik Management Console

Proceed as follows to start the Qlik Management Console (QMC) on the selected node:

1. Select **Sites** in the left panel.
2. Select a Qlik Sense site.
3. Select a node in the site.
4. Click **Open QMC** to open the Qlik Management Console (QMC) on the selected node.

## 5.11 Connecting to a remote desktop

Proceed as follows to connect to a remote desktop on a node:

1. Select **Sites** in the left panel.
2. Select a Qlik Sense site.
3. Select a node in the site.
4. Click **Remote desktop** to open a remote desktop to the machine on which the node is deployed.



## 6 Plug-ins

Plug-ins are used in the Qlik Deployment Console (QDC) to deploy Qlik Sense sites in different cloud computing environments. A plug-in consists of one or more modules, each of which includes certain functionality (for example, credentials) related to the cloud computing environment.




*Plug-ins are developed outside of the Qlik Deployment Console (QDC).*

### 6.1 Plug-ins view

The **Plug-ins** view provides an overview of the plug-ins that are registered in the Qlik Deployment Console (QDC).

The screenshot displays the 'Plug-ins' view in the QDC. On the left, a list of registered plug-ins is shown, with 'QDC Standard Plugin' selected. On the right, detailed information for the selected plug-in is displayed, including its name and version. A license field is also visible. A 'Register plug-in' button is located at the bottom of the interface. Callouts A, B, and C are used to highlight specific parts of the interface.

- A** A list of the plug-ins that are registered in the QDC.  
 Select a plug-in to display detailed information on it.  
 Click **Register plug-in** to register a new plug-in.  
 See: *Registering plug-ins (page 26)*  
 Click  to delete a plug-in.  
 See: *Deleting plug-ins (page 26)*

- B** This area provides details on the selected plug-in.  
**Plug-in name** The name of the plug-in.  
**Plug-in version** The version number of the plug-in.

<b>C</b>	A list of the modules that are included in the selected plug-in.  Use ► and ▼ to show and hide information.
----------	---


## 6.2 Registering plug-ins

Proceed as follows to register a plug-in for use in the Qlik Deployment Console (QDC):

1. Select **Plug-ins** in the left panel.
2. Click **Register plug-in** to register a new plug-in.
3. Click  in the **Browse for a plug-in** field and browse to the ZIP file that contains the plug-in.
4. Click **Register** to register the plug-in or **Cancel** to exit without registering.

## 6.3 Deleting plug-ins

Proceed as follows to delete a plug-in from the Qlik Deployment Console (QDC):

1. Select **Plug-ins** in the left panel.
2. Click  to delete a plug-in.
3. Click **Yes** to confirm the deletion.

## 7 Tasks

Tasks are used to transfer apps from one site and stream to another site in the Qlik Deployment Console (QDC).

### 7.1 Tasks view

The **Tasks** view provides an overview of the tasks that have been created in the QDC.

**Tasks**

✓ Intercontinental
🗑️

A

Transfer all apps in a specific stream

---

**Identification**

Name Intercontinental B

---

**Source**

Site Europe C

Stream Monitoring apps

---

**Destination**

Site America D

---


**Latest execution**

✓ The task was successfully executed E  
 Task duration: 0 hours, 0 minutes, and 14 seconds.  
 Number of transferred apps: 2

Result	Name	Comment	Date
✓	License Monitor		2015-05-18 13:13
✓	Operations Monitor		2015-05-18 13:13

➕ Create new task

Start

<b>A</b>	<p>A list of the tasks that have been created in the QDC.</p> <p>The icon indicates the status of the task.</p> <ul style="list-style-type: none"> <li>✓ (successful execution): The last execution of the task was successful.</li> <li>ⓘ (never executed): The task has never been executed.</li> <li>✘ (unsuccessful execution): The last execution of the task was unsuccessful.</li> </ul> <p>Select a task to display detailed information on it.</p> <p>Click <b>Create new task</b> to create a new task.</p> <p>See: <i>Creating tasks (page 28)</i></p> <p>Click  to delete a task.</p> <p>See: <i>Deleting tasks (page 29)</i></p>
<b>B</b>	The name of the task.
<b>C</b>	<p>The location from which to transfer apps.</p> <p><b>Site</b>                      The site from which to transfer apps.</p> <p><b>Stream</b>                      The stream from which to transfer apps.</p>
<b>D</b>	<p>The location to which to transfer the apps.</p> <p><b>Site</b>                      The site to which to transfer the apps.</p>
<b>E</b>	<p>The result of the latest execution of the task.</p> <p>Click <b>Start</b> to start the transfer operation.</p> <p>See: <i>Transferring apps (page 29)</i></p>

## 7.2 Creating tasks


Proceed as follows to create a new task:

1. Select **Tasks** in the left panel.
2. Click **Create new task** to create a new task.
3. Enter a name for the task in the **Name** field.
4. Select the site to transfer apps from in the **Site** drop-down list under **Source**.
5. Select the stream to transfer apps from in the **Stream** drop-down list under **Source**.
6. Select the site to transfer the apps to in the **Site** drop-down list under **Destination**.
7. Click **Save** to save the task or **Cancel** to exit without saving.

---

## 7.3 Deleting tasks

Proceed as follows to delete a task:

1. Select **Tasks** in the left panel.
2. Click  to delete a task.
3. Click **Yes** to confirm the deletion.

## 7.4 Transferring apps

Proceed as follows to transfer apps from one Qlik Sense site and stream to another site:

1. Select **Tasks** in the left panel.
2. Select a task in the list of available tasks.
3. Click **Start** to start the transfer operation.



*If the apps already exist on the site to which they are transferred, they are stored with a different ID.*



*The apps are still available in the site and stream listed under **Source** after the transfer operation.*

4. See **Latest execution** for the result of the latest execution of the task.

---

### See also:

- ▢ [Creating tasks \(page 28\)](#)

## 8 Qlik Sense setup files

The Qlik Deployment Console (QDC) supports the use of multiple versions of Qlik Sense, which means that different sites can use different versions of Qlik Sense.

This is accomplished by uploading different versions of the Qlik Sense setup file to the QDC.


### 8.1 Qlik Sense setup files view

The **Qlik Sense setup files** view provides an overview of the setup files that have been uploaded to the Qlik Deployment Console (QDC).

The screenshot displays the 'Qlik Sense setup files' view. At the top, there is a header 'Qlik Sense setup files'. Below it, a list of files is shown. One file, 'Qlik\_Sense\_setup', is selected and highlighted in green, with its version '2.1.0.0' and a delete icon. To the right of the list, a detailed view of the selected file is shown. This view includes the following information:

- Installation file name: Qlik\_Sense\_setup.exe
- Installation type: Baseline
- Qlik Sense version: 2.1.0.0
- Qlik Sense communication version: 1.0.0.0
- Date uploaded: 2015-07-21 12:27
- Qlik Sense sites that use the setup file: America, Europe

At the bottom of the view, there is a button labeled 'Upload setup file'.

- A** A list of the Qlik Sense setup files that have been uploaded to the QDC.
- Select a setup file to display detailed information on it.
- Click **Upload setup file** to upload a new setup file.
- See: *Uploading Qlik Sense setup files (page 31)*
- Click  to delete a Qlik Sense setup file.
- See: *Deleting Qlik Sense setup files (page 31)*

<b>B</b>	<p>This area provides details on the selected Qlik Sense setup file.</p> <p><b>Installation file name</b>      The name of the setup file.</p> <p>The tooltip for this field provides the path to the setup file in the QDC folder structure. Note that the file is stored under a QDC-internal name.</p> <p><b>Installation type</b>      The type of setup file:</p> <ul style="list-style-type: none"> <li>• Baseline: A setup file that contains a full Qlik Sense installation.</li> <li>• Update: A setup file that contains an update to a baseline file. An update file can only be uploaded if the corresponding baseline file has been uploaded.</li> </ul> <p><b>Qlik Sense version</b>      The file version of the setup file.</p> <p><b>Qlik Sense communication version</b>      The Qlik Sense version layer to use when communicating with the setup file.</p> <p><b>Date uploaded</b>      The date and time when the setup file was uploaded to the QDC.</p> <p><b>Qlik Sense sites that use the setup file</b>      A list of the sites that use the setup file.</p>
----------	--

## 8.2 Uploading Qlik Sense setup files

Proceed as follows to upload a Qlik Sense setup file for use in the Qlik Deployment Console (QDC):

1. Select **Qlik Sense setup files** in the left panel.
2. Click **Upload setup file** to upload a new setup file.
3. Click  in the **Browse for a Qlik Sense setup file** field and browse to the file to upload.




*The selected file must be a setup file for Qlik Sense (typically named Qlik\_Sense\_setup.exe).*

4. Select the Qlik Sense version layer to use when communicating with the setup file in the **Qlik Sense communication version** drop-down list.
5. Click **Upload** to upload the setup file or **Cancel** to exit without uploading any file.

## 8.3 Deleting Qlik Sense setup files

Proceed as follows to delete a Qlik Sense setup file from the Qlik Deployment Console (QDC):

1. Select **Qlik Sense setup files** in the left panel.
2. Click  to delete a Qlik Sense setup file.



*You cannot delete a setup file that is used by one or more sites.*



*You cannot delete a baseline file if there are update files connected to it. To delete the baseline file, delete the update files first.*

3. Click **Yes** to confirm the deletion.

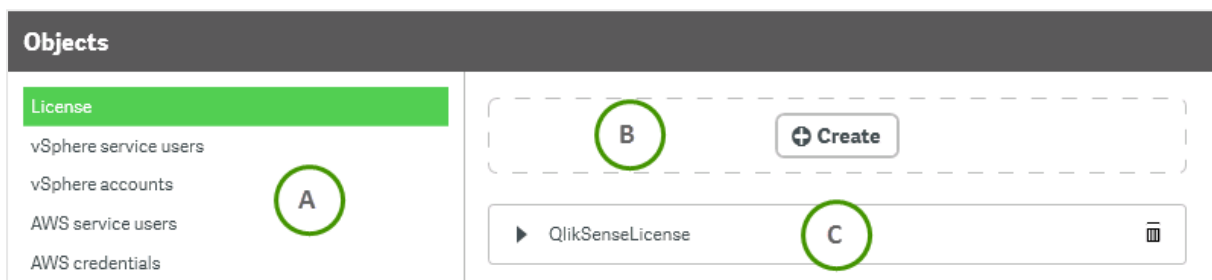


## 9 Objects

An object is used to hold a certain type of information related to a specific plug-in or cloud computing environment. Qlik Deployment Console (QDC) provides native support for some object types. Other types, referred to as “third-party object types” below, are added in the QDC as part of plug-ins.

### 9.1 Objects view

The **Objects** view provides an overview of the objects that are available in the Qlik Deployment Console (QDC).



<b>A</b>	A list of the object types that are available in the QDC. Select an object type to display detailed information on it.
<b>B</b>	Click <b>Create</b> to create an object of the selected object type. See: <i>Creating objects (page 33)</i>
<b>C</b>	This area provides details on the existing objects of the selected object type.  Use ► and ▼ to show and hide information. The fields for the object depend on the selected object type: <ul style="list-style-type: none"> <li>• License object type (included in the QDC delivery): See <i>License object (page 34)</i>.</li> <li>• Third-party object types: See the documentation for the plug-in and object type.</li> </ul> The fields can be edited. Click <b>Save</b> to save any changes or <b>Reset</b> to revert any changes.  Click 🗑️ to delete an object.

### 9.2 Creating objects

Proceed as follows to create an object:

1. Select **Objects** in the left panel.
2. Select an object type.
3. Click **Create** to create an object of the selected object type.

4. Fill in the fields. The fields differ depending on the object type selected:
  - License object type (included in the QDC delivery): See *License object* (page 34).
  - Third-party object types: See the documentation for the plug-in and object type.
5. Click **Save** to save the object. Click **Cancel** to exit without saving.


## License object

Proceed as follows to fill in the fields for a Qlik Sense license object.

<b>Name</b>	Enter a name for the license object.
<b>Owner name</b>	Enter the user name of the Qlik Sense product owner.
<b>Owner organization</b>	Enter the name of the organization of which the Qlik Sense product owner is a member.
<b>Serial number</b>	Enter the serial number assigned to the Qlik Sense software.
<b>Control number</b>	Enter the control number assigned to the Qlik Sense software.

### 9.3 Deleting objects

Proceed as follows to delete an object:

1. Select **Objects** in the left panel.
2. Select an object type.
3. Click  to delete an object.
4. Click **Yes** to confirm the deletion.

## 10 Qlik Deployment Console logging

The log messages produced by the Qlik Deployment Console (QDC) provide important information that can be used to detect security incidents, operational problems, and policy violations.

The QDC uses the same logging framework as Qlik Sense. See the Plan Qlik Sense deployments for more information.

### 10.1 Storage

This section describes where the Qlik Deployment Console (QDC) log files are stored by default.

#### Qlik Deployment Console server log files

The QDC server log files are by default stored in the following location:

```
%ProgramData%\Qlik\Sense\Log\Server
```

#### Qlik Deployment Console client log files

The QDC client log files are by default stored in the following location:

```
%ProgramData%\Qlik\Sense\Log\Client
```

### 10.2 Naming

The Qlik Deployment Console (QDC) log files are named in accordance to the following file rollover procedure:

1. The log is stored in a file named *<Machine>\_<Facility>\_<Server or Client>.txt*.
2. When the file is full or a pre-defined amount of time has passed, the file extension is automatically changed to *.log* and a time stamp is appended to the filename for uniqueness and archiving. This means that the new filename becomes *<Machine>\_<Facility>\_<Server or Client>\_<YYYY-MM-DDTHH.mm.ssZ>.log*.
3. A new log file, named *<Machine>\_<Facility>\_<Server or Client>.txt*, is created.

The format of the filename is as follows:

- *<Machine>* = Name of the machine where the log was created.
- *<Facility>* = One of the following:
  - Application: Log events that are related to an application.
  - Audit: Log events that provide an audit trail of a user's activities and administration.
  - Performance: Log events that are related to the performance.
- *<Server or Client>* = Indicates if the log was created by the server or client side of the QDC.

- `<YYYY-MM-DDTHH.mm.ssZ>` = Time stamp for when the log file was closed for new entries, where:

- *YYYY*: Year
- *MM*: Month
- *DD*: Day in month
- *T*: Delimiter, time designator
- *HH*: Hour
- *mm*: Minutes
- *ss*: Seconds
- *Z*: UTC designator, indicates that the time stamp is in UTC format

# 11 Troubleshooting - Qlik Deployment Console

This section describes problems that can occur when using the Qlik Deployment Console (QDC).

## 11.1 Cannot start the Qlik Deployment Console

### Possible cause

You cannot start the QDC after installation or the QDC hangs when starting it.

### Proposed action

Check that you are member of the local QDC user group, Qlik Deployment Administrators, in Microsoft Windows on the machine where the QDC server is deployed.



*Changing group membership or adding a user to a group requires the user to log off and then on again for the group membership to take effect.*

See: *Local user group (page 7)*

If the above does not help, proceed as follows:

1. Delete all sub-folders in `C:\QDC`.



*This step is only needed if the QDC has previously been installed on the machine.*

2. Delete all files and folders in `%ProgramData%\Qlik\Deployment Console`.



*This step is only needed if the QDC has previously been installed on the machine.*

3. Check for any port conflicts.

The following ports are used for communication by the QDC:

- 23580: HTTP protocol
- 23581: HTTPS protocol
- 23582: SignalRPort

Proceed as follows to make the QDC use another port:

- a. Start the Windows Task Manager.
- b. Stop the QlikDeploymentService from running.
- c. Open the QDC server configuration file,  
`%ProgramFiles%\Qlik\DeploymentConsole\Server\QlikDeploymentServer.exe.config`.

- d. Change the port numbers (value) for the affected keys:  

```
<add key="HttpServicePort" value="23580" />
```

```
<add key="HttpsServicePort" value="23581" />
```

```
<add key="SignalRPort" value="23582" />
```
- e. Save the changes.
- f. Open the QDC client configuration file,  
*%ProgramFiles%\Qlik\DeploymentConsole\Client\QlikDeploymentConsole.exe.config*.
- g. Change the port numbers (value) for the affected keys to the same values as for the server:  

```
<add key="HttpServicePort" value="23580" />
```

```
<add key="HttpsServicePort" value="23581" />
```

```
<add key="SignalRPort" value="23582" />
```
- h. Save the changes.
- i. Start the QlikDeploymentService again.

### 11.2 Repairing the Qlik Deployment Console

#### Possible cause

The QDC installation has become corrupt.

#### Proposed action

Use the repair option in the QDC installer to restore all missing files, shortcuts, registry values, and services.

Proceed as follows:

1. Double-click the QDC installation file.  
The Qlik Deployment Console setup wizard starts.
2. Click **Next**.
3. Click **Repair**.
4. Click **Repair**.  
The QDC installation is repaired.
5. Click **OK**, if you are prompted that a reboot is required to complete the setup.
6. Click **Finish**.
7. Reboot the system (if prompted to do so in step 5).

# 12 Uninstalling the Qlik Deployment Console

Proceed as follows to uninstall the Qlik Deployment Console (QDC):

1. Double-click the QDC installation file.  
The Qlik Deployment Console setup wizard starts.
2. Click **Next**.
3. Click **Remove**.
4. Click **Remove**.  
The QDC is uninstalled.
5. Click **Finish**.