



# The Complete Guide to Understanding Qlik Sense Certificates

# 1- What is a Certificate

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A certificate is a data file that contains **keys used to encrypt communication** between **a client and a server** in a domain.

Certificates also confirm that the domain is **known to the organization** that issued the certificate.

A certificate includes information about the **identity of the owner** and the **digital signature** of an organization.

## 2- Qlik Sense certificates

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Qlik Sense uses certificates to **communicate with different Qlik products**. It also uses certificates for communication between components installed on different computers.

Qlik Sense certificates are also essential for **communicating with third-party solutions** like Qalyptus.

The architecture is based on the main **Qlik Sense Repository Service (QRS)** on the **central node** acting as a certificate manager.

Qlik Sense certificates are made up of **three certificates:**

Customer certificate (Customer)

Server certificate (Server)

Root certificate

# 3- Qlik Sense certificates and third-party solutions

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To communicate with Qlik Sense via APIs, it is necessary to use certificates in order to **secure exchanges**.

If you want to use a third-party solution like Qalyptus to extend the capabilities of Qlik Sense, it is necessary to ensure that the Qlik Sense certificates are installed on the machine **where the third-party solution is installed**.

# 4- Install certificates

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to **export** the certificates:

- Connect to the Qlik Sense QMC
- Select Certificates
- The export certificate page is displayed
- Click on Add machine name
- Type the full name of your computer or the IP address
- Enter a password in Certificate password and Retype password.
- Check the Include secret key checkbox
- Click on Export certificates
- Certificates exported

## To **install** Qlik Sense certificates with Qalyptus Server Configuration:

- Connect to your machine where Qalyptus Server is installed
- In the start menu, search Qalyptus Server Configuration
- Go to the Qlik Sense Certificates tab
- Specify the path to the previously exported files
- Click the Install Certificates button
- Delete old certificates installed and replace them with the new certificates
- After installation, a confirmation message is displayed

# 5- Recréer les certificats Qlik Sense

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In the case of a **Qlik Sense Cluster installation**, consult the Nodes menu in the QMC and check which node is marked as the **center node**.

The instructions below should be executed only on the master (central) nodes.

Do not perform the steps below in a production environment without first **backing up existing certificates**.

To **recreate** the certificates:

**1- In Certificates (Local Computer) > Trusted Root Certification Authorities > Certificates, delete all the Self-Signed certificates created by Qlik Sense, issued by HOSTNAME.domain-CA\***

**\*Where HOSTNAME is machine name of the server in question and domain is the domain the server.**

**2- In Certificates (Local Computer) > Personal > Certificates, delete all the Self-Signed certificates issued by HOSTNAME.domain-CA**

**3-In Certificates > Current User > Personal  
> Certificates, delete all the Self-Signed  
certificates named QlikClient**

**4-Go to the folder**

**C:\ProgramData\Qlik\Sense\Repository,  
delete the folder 'Exported Certificates'**

**5- Open CMD with admin privileges and  
run this command to create new  
certificates:**

**"C:\Program**

**Files\Qlik\Sense\Repository\Repository.**

**exe" -bootstrap -iscentral -**

**restorehostname**

**Note: If the script doesn't get to "Bootstrap mode has terminated. Press ENTER to exit..." start the Qlik Sense dispatcher service and it will get to the end**

**6- Verify the new certificates have been created by REFRESHING the screen for each certificate location. In addition, verify that duplicate or multiple certificates were not created. If so, the article will need to be followed again by starting with the deletion of the certificates.**

**7-Restart all Qlik Sense Services and wait few minutes.**



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