

Requesting and Installing a Certificate

Requesting an installing a certificate includes the following steps

1. [Creating a Certificate Signing Request \(CSR\)](#) on the Bridge you want to use the certificate for.
2. [Ordering an official certificate](#) from a certificate authority like e.g. VeriSign.
3. [Installing the certificate](#) on the Bridge.

Creating a Certificate Signing Request (CSR)

For the enrollment of an official certificate, you need to provide a certificate signing request (CSR). On the **Certificate** tab, all related actions can be executed, if the user has administration rights.

The screenshot shows the 'Proxy Service Certificate' page for the domain bridge.scheer-acme.com. At the top, there are tabs: 'Proxy Entries' (selected), 'Certificate', 'Configurations', and 'Configuration Template'. Below the tabs, a table displays various certificate details:

Version	3
Serial Number	3cae:b3:ce:2e:c0:7b:49
Algorithm	SHA256WITHRSA
MD5 Fingerprint	09:2d:61:86:43:7d:3a:f8:53:13:c8:a5:09:8b:98:e9
SHA1 Fingerprint	cc:b8:82:11:bd:b6:8d:64:83:dd:7d:64:85:fc:a4:2f:ff:31:8e:0d
Subject DN	O=Snake Oil,CN=bridge.scheer-acme.com
Valid Not Before	Mon Sep 23 17:10:40 CEST 2019
Valid Not After	Thu Jul 14 17:10:40 CEST 2022
Issuer DN	O=Snake Oil,CN=bridge.scheer-acme.com

At the bottom of the table, there are several buttons: 'Create CSR' (highlighted with an orange circle and a downward arrow), 'Install Certificate', 'Export', 'Import', and 'Create New Self-Signed Certificate'.

In the middle-right section of the page, there is a note: "In order to create a certificate signing request, click **Create CSR**".

Below this, a separate window titled 'Create CSR' is shown, containing fields for entering certificate details:

Common Name (CN) *	bridge.scheer-acme.com
Organizational Unit (OU)	
Organization (O) *	
Locality (L)	
State or Province (ST)	
Country (C) *	

At the bottom of the 'Create CSR' window are 'Create CSR' and 'Cancel' buttons.

Fields with an asterisk (*) are mandatory.

Field	Description
Common Name (CN) *	The common name for the server that will use the SSL certificate must be the fully qualified domain name the domain name and the host name (if applicable). For example, in bridge.scheer-acme.com , scheer-acme.com is the domain name and bridge is the host name. If your fully qualified domain name does not include a host name, simply enter the domain name. A host name will not be included in your certificate. Check the common name during the enrollment process to ensure it is correct and is not the one of another Bridge domain member. After your SSL certificate has been issued, changing the common name requires re-enrollment at the full price of the certificate.

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- [Requesting and Installing a Certificate](#)
- [Importing and Exporting Proxy Server Certificates](#)
- [Renewing the Self-signed Proxy Certificate](#)

Organisational Unit (OU)	Your department or unit within your company or organization.
Organisation (O) *	Your company or organization.
Locality (L)	City, in which your company or organization is physically located.
State or Province (ST)	State or province, in which your company or organization is physically located.
Country (C) *	Country, in which your company or organization is physically located.

Create CSR

Common Name (CN) *	bridge.scheer-acme.com
Organizational Unit (OU)	
Organization (O) *	ACME Corp.
Locality (L)	Newark
State or Province (ST)	New Jersey
Country (C) *	US

Create CSR **Cancel**

After having entered all fields, click **Create CSR**. By clicking **Cancel**, you can cancel this action and go back to the main certificate page.

Create CSR

```
—BEGIN CERTIFICATE REQUEST—
MIICtTCCAZ0CAQAwDEFMB0GA1UEAwWVnJpZGdLnNjaGVl
MBgGA1UECgwRU2NoZWVyIEFDTUUgQ29ycC4xDzANBgNVBAc
A1UECAwKTMv3IEplcnNleTELMAkGA1UEBhMCVVMwgggElMA0
A4IBDwAwggEKAoIBAQCL/k7oWQE9fvswlSoMnqOl+G3pEAzHL
cmb/m/y6uykqP622jICKccVU/gceSCQj1BjubDyLrahp7zaXS+9Pt
SR/J57SM6hAt/xkCWtseCFLkLi36RpHFXL+tj0w2E9+fXr586efT
k0j/BX2wYD7BF4p5XGU67wuUiWR5j4roPrQ9HUBZjprjauSAJzFl
cxy9Pm6p2uMvSCUEc5NMIA6KjAiddeAklnzrRSeZuxB6UMCvd
HacT6Emw65JOHp+zLoSvVm74QyT7YCJk2RXP9eQ3AgMBAAc
AqsFAAACQEA6g4LDCcVch/aoDUdjhl7pyAHh69lEE0dl80dnZB
xsaKC5SPiw5ejO+Q+KbgZOJmR49nwymzs6/awByGsEbxeoeUD
bvISVkekrTHK5CuqzDL6rKJqkheFhOp3TeSpTVY5KhZpTHFjzblt
IM1IU7dJ53/lzkkFrWXJNBd5/xVLfTUQIAkbhhEhoRWifN/DRy+
nno4TInUJK4CimvpuYfG3FzpAVSmaHoGT/bf2425+yHRyCqf3Ff
iw3+oiCpa1GRDTbSW/ZHT9Wh4l/ZfyFWVw==

—END CERTIFICATE REQUEST—
```

< > Continue

The encrypted certificate request is displayed on the next page.

Mark the complete certificate request and copy it. It will be pasted into the order form of the certificate authority application, where you will order the official certificate. After clicking **Continue**, the main certificate page will be displayed again.

Ordering an Official Certificate

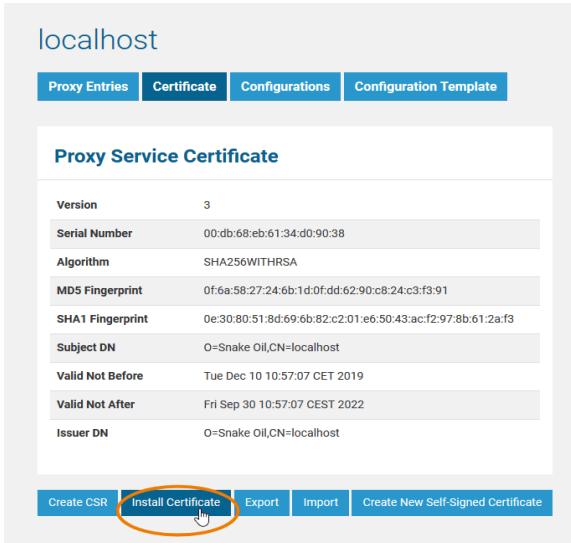
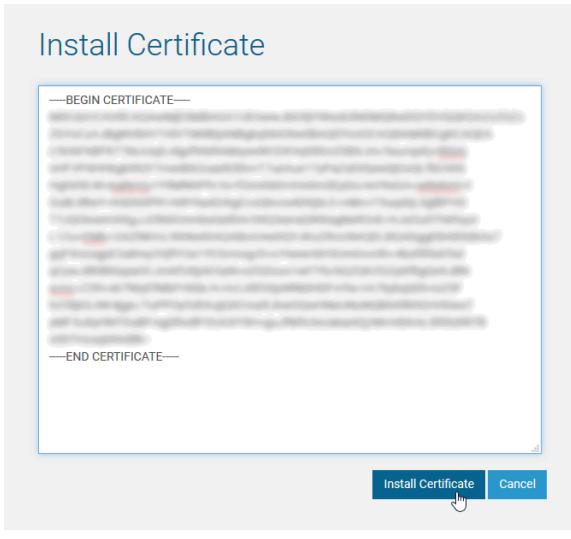
Order an official certificate from a certificate authority like VeriSign or Thawte. During ordering process you will come to a step were you have to paste the CSR that you have created before in step 1. If asked for a server platform, select **Apache**.

Once you have received the certificate from the certification company, you can continue to install the certificate on the Bridge (see further below).

Installing a Certificate

Once you received a certificate from a certificate authority, you can install it on the Bridge.

On the **Certificate** tab, all related actions can be executed, if the user has administration rights.

 <p>The screenshot shows the 'Proxy Service Certificate' page on the 'Certificates' tab. It displays various certificate details such as Version (3), Serial Number (00:db:68:eb:61:34:d0:90:38), Algorithm (SHA256WITHRSA), and Fingerprint (0f:6a:58:27:24:6b:1d:0f:dd:62:90:c8:24:c3:f3:91). The 'Install Certificate' button is highlighted with a red circle and a cursor icon.</p>	In order to install the certificate, click Install Certificate .
 <p>The screenshot shows the 'Install Certificate' dialog box. It contains a large text area with certificate content (beginning with '—BEGIN CERTIFICATE—') and ends with '—END CERTIFICATE—'. Below the text area are 'Install Certificate' and 'Cancel' buttons, with 'Install Certificate' being highlighted by a cursor icon.</p>	<p>Copy the received certificate into the field and click Install Certificate.</p> <p>i In case you want to install an intermediate certificate, paste the whole certificate chain here.</p> <p>By clicking Cancel, you can cancel the installation and go back to the main certificate page.</p>

If the installation of the certificate has been successful, the main certificate page is displayed again. It now shows the information of the official certificate.

If the certificate does not fit to the server it was enrolled for, an error message like 'Wrong or invalid certificate!' will be displayed.

Manual Certificate Installation

You can also install proxy certificates manually to the Bridge. Proxy certificate locations are stored in file <**your Bridge data directory**>/proxies/templates/virtual_host_ssl.conf. To manually add a proxy certificate, do the following:

1. Copy file **virtual_host_ssl.conf** from **<your Bridge data directory>/proxies/system_templates** to **<your Bridge data directory>/proxies/templates**.
2. Edit the file and add paths to your certificate files:

```
# virtual host ssl settings start
#
SSLEngine On
SSLCertificateFile "${SSL_CERTIFICATE}"
SSLCertificateKeyFile "${SSL_CERTIFICATE_KEY}"
#
# virtual host ssl settings end
```

Replace the placeholders \${SSL_CERTIFICATE} and \${SSL_CERTIFICATE_KEY} by valid paths to certificate / key files. The certificate file may also contain a chain of certificates.

3. Restart the Bridge proxy via the Bridge administration console.