

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.

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- [Renewing the Self-signed Proxy Certificate](#)

bridge.scheer-acme.com

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Proxy Service Certificate

Version	3
Serial Number	3c:ae: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

[Create CSR](#) [Install Certificate](#) [Export](#) [Import](#) [Create New Self-Signed Certificate](#)

In order to create a certificate signing request, click **Create CSR**.

Create CSR

Common Name (CN) *

bridge.scheer-acme.com

Organizational Unit (OU)

Organization (O) *

Locality (L)

State or Province (ST)

Country (C) *

Create CSR

Cancel

The form to enter all required fields is displayed.

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.

Organizational Unit (OU)	Your department or unit within your company or organization.
Organization (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 the main certificate page.

Create CSR

—BEGIN CERTIFICATE REQUEST—

MIICITCCA Z0CAQAwcDEFMB0GA1UEAwWYnJpZGdlLnNjaGVlMBBgGA1UECgwRU2NoZWVyeEFDTUUGQ29ycC4xDzANBgNVBAcA1UECAwKTmV3IEplcnNieTElMAkGA1UEBhMCVVMwggEIMA0A4IBDwAwggEKAoIBAQL/k7oWQE9fvsWSoMnqOl+G3pEAzHLcmb/my6uykqP622JICKccVU/gceSCQj1BjubDyLrahp7zaXS+9PtSR/J57SM6hAt/xkCWtseCFLkLi36RpHFXL+tj0w2E9+fXr586efTckOj/BX2wYD7BF4p5X6U67wuUIWR5j4roPrQ9HUBZjprjauSAJzFfcxy9Pm6p2uMvSCUEuc5NMA6KjAiddeAklnzrRSeZuxB6UMCvdHacT6Emw65JOHp+zL0svVm74QyTY7CJk2RXP9eQ3AgMBAAEAQsFAAOCAQEA g4LDCcVch/aoDUdjlhl7pyAHH69IEE0dl80dnZBxsaKC5SPlw5ejO+Q+KbgZOJmR49nwymzs6/awByGsEbxeoeUDbVISVkekrTHK5CuzqDL6rKJqkheFh0p3TEsPTVY5KhZpTHFjzblcIM1IU7dJ53/lzkkFrtWXJNBd5/xVLFtUQIAkbhhEhoRWifND/wry+nno4TlnUJK4CimvpuYfG3FzPzAVSmaHoGT/bf2425+yHRYCqf3Fiw3+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 where 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.

localhost

Proxy EntriesCertificateConfigurationsConfiguration Template

Proxy Service Certificate

Version	3
Serial Number	00:db:68:eb:61:34:d0:90:38
Algorithm	SHA256WITHRSA
MD5 Fingerprint	0f:6a:58:27:24:6b:1d:0f:dd:62:90:c8:24:c3:f3:91
SHA1 Fingerprint	0e:30:80:51:8d:69:6b:82:c2:01:e6:50:43:ac:f2:97:8b:61:2a:f3
Subject DN	O=Snake Oil,CN=localhost
Valid Not Before	Tue Dec 10 10:57:07 CET 2019
Valid Not After	Fri Sep 30 10:57:07 CEST 2022
Issuer DN	O=Snake Oil,CN=localhost

Create CSRI**Install Certificate**ExportImportCreate New Self-Signed Certificate

In order to install the certificate, click **Install Certificate**.

Install Certificate

—BEGIN CERTIFICATE—

—END CERTIFICATE—

Install CertificateCancel

In case you want to install an intermediate certificate, paste the whole certificate chain here.

By clicking **Cancel**, you can cancel the installation and go back to the main certificate page.

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.