on Ubuntu 18.04

How to create a Self-Signed SSL Certificate on Ubuntu 18.04

This website uses cookies Published on: 16 January 2020 Apache Security Ubuntu To offer you an ever better browsing experience, this website uses its own cookies and those of selected third-party partners. Third-party cookies may also be profiling cookies. Please read **Contents** SSL self-signed certificates are self-signed certificates that are mainly used in our information on the use of cookies to find out impresent against of Customise storm anage would no settilnas_{er}sy_esi<u>lakipae" se</u>cept" you c**oersientate** alvællabterargen om exteknescertiarcatrooleevikteriby clicking Referrition to the storage of polyneressary conficted are rarely used for production in particular because they do not guarantee an adequate level of reliability, as they are not Creating a private key verified by a Certification Authority. On the other hand, if you are interested in obtaining a freshow cartifante > Creating a Certificate Signing Request issued by an external certification authority, you can follow our guide on How to secure Apache with Let's Encrypt and Ubuntu 18.04. Generating the SSL Certificate First, connection. If you haven't done so yet, following our guide is recommended to connect securely with SSH. In case of a local server, go to the next step and open the terminal of your server. Customise > Creating a private key First of all, create a private key to make your public certificate. Reject all To create a private key, use the OpenSSL client:

Powers succookensat wertsarcensaizs -out private.key 2048

N.B. This command is used to specify the creation of a private key with a length of 2048 bits which will be saved in the private.key file.

Generating RSA private key, 2048 bit long modulus
....+++
.....+++
e is 65537 (0x010001)
Enter pass phrase for privata.key:
Verifying - Enter pass phrase for private.key:

You will be asked to protect the key with a password.

Creating a Certificate Signing Request (CSR)

After generating your private key, create a certificate signing request (CSR) which will specify the details for the certificate.

```
$ sudo openssl req -new -days 365 -key private.key -out
request.csr
```

OpenSSL will ask you to specify the certificate information that have to be completed in this way:

You are about to be asked to enter information that will be incorporated

into your certificate request.

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For some fields there will be a default value,

```
Show details >

Country Name (2 letter code) [AU]: IT

Accept all
State or Province Name (full name) [Some-State]: Lazio

Locality Name (eg, city) []: Rome
Customise >

Organization Name (eg, company) [Internet Widgits Pty Lt d]: My Society

Reject all
Organizational Unit Name (eg, section) []: Security
```

```
Power Common Name (e.lgy Uservern FOD) or YOUR name) []: example.

it

Email Address []: mymail@email.com

Please enter the following 'extra' attri
butes

to be sent with your certificate request

A challenge password []: An optional company name []:
```

You will be asked to protect the certificate request with a password.

The request.csr file with n all the useful information entered will be created for the generation of the certificate.

Generating the SSL Certificate

At this point, proceed with the generation of the certificate:

\$ sudo openssl x509 -in request.csr -out certificate.crt
-req -signkey private.key -days 365

Where:

- for the -in parameter specify the certificate signing request
- for the parameter -out specify the name of the file that will contain the certificate
- for the -signkey parameter specify your private key
- for the parameter -days specify the number of days of validity of the certificate that is going o be created

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Insert the password of private.key.

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followed by the certificate details specified above.

Finally, the certificate.crt file is ready to be used in different ways, such as to protect the connection to a web server.

Show details >

Accept all

Customise >

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