

Distribute Certificates

1. Root Certificate

“ The root certificate must be installed on all devices from which you want to access / browse your web server! It is therefore advisable to have your "certificate directory" connected as a drive on the respective devices!

1.1 MAC

command: "sudo security add-trusted-cert -d -r trustRoot -k
"/Library/Keychains/System.keychain" <Verzeichnis><SLD>.pem

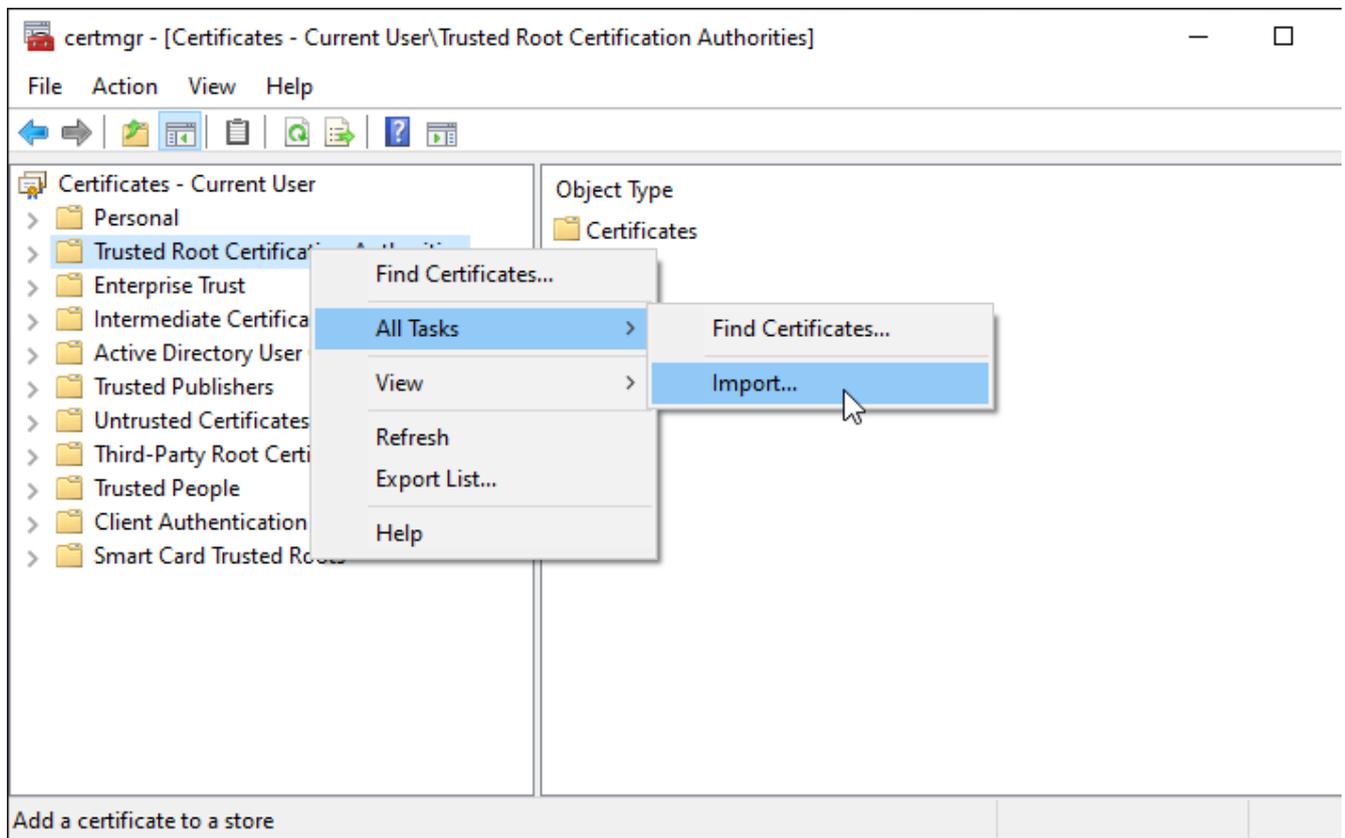
1.2 Linux

command: "sudo cp <Verzeichnis><SLD>.pem /usr/local/share/ca-certificates/<SLD>.crt"

command: "sudo update-ca-certificates"

1.3 Windows

command: "WIN + R - Eingabe: certmgr.msc" - OK



NEXT



File to Import

Specify the file you want to import.

File name:

Browse...

Note: More than one certificate can be stored in a single file in the following formats:

Personal Information Exchange- PKCS #12 (.PFX, .P12)

Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)

Microsoft Serialized Certificate Store (.SST)



Next

Cancel

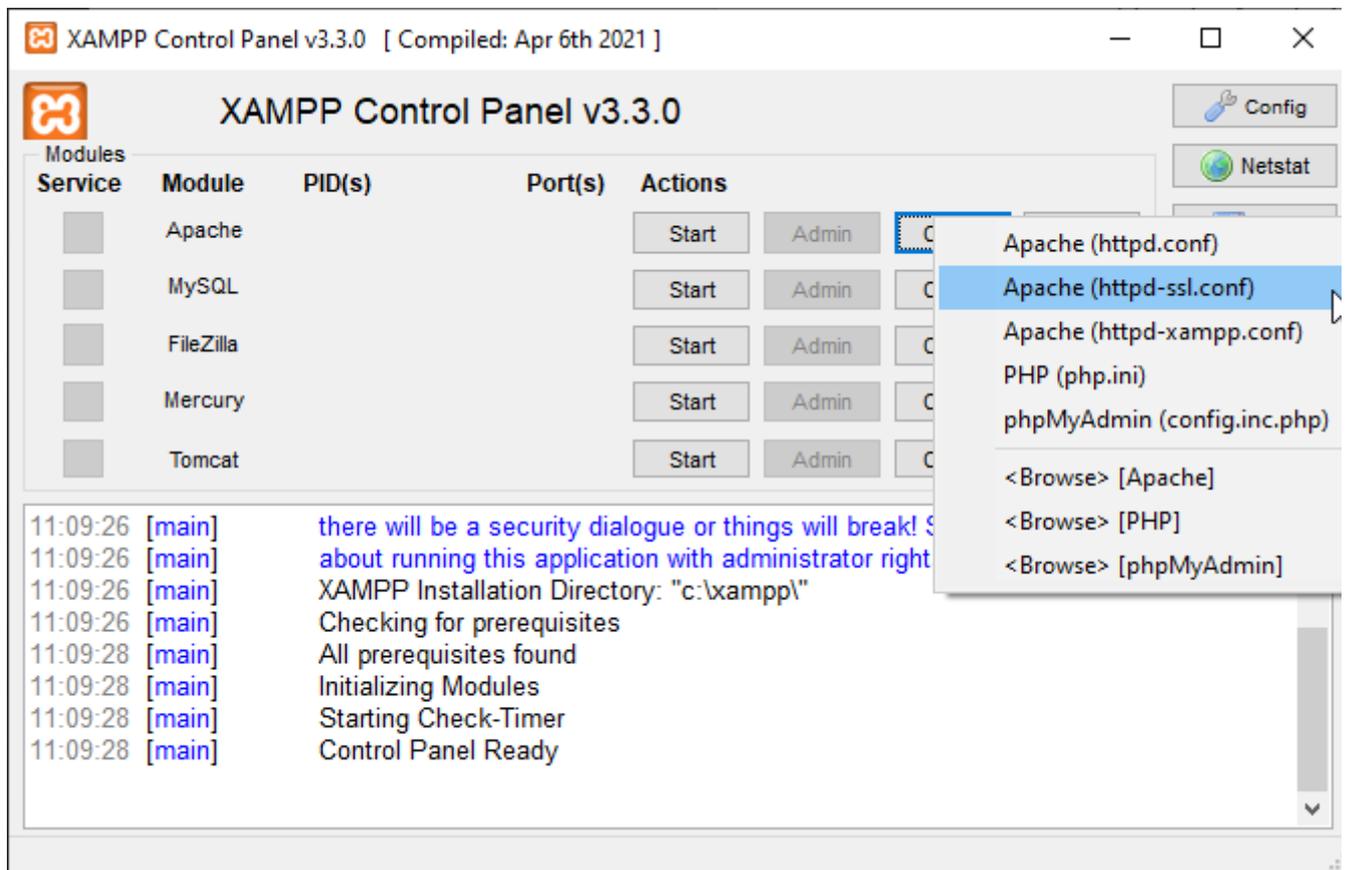
hope you can "click together" the rest yourself ! ☐☐

2. Web Server Certificate

2.1 Apache

“ Please make sure that you have activated "a2enmod ssl"!

- go to the Apache directory "sites-available" and create a .conf file (of course you can also use the default-ssl.conf). If you are running the web server with XAMPP, then:



- changes the VirtualHost directive

```
<VirtualHost *:443>
  ServerName <>
  DocumentRoot <>

  SSLEngine on
  SSLCertificateFile <Verzeichnis>/<subdomäne.SLD.TLD>.cert
  SSLCertificateKeyFile <Verzeichnis>/<subdomäne.SLD.TLD>.key
</VirtualHost>
```

- command: "a2ensite <der Dateiname>.conf"
- command: "service apache2 restart"

“ in the case of XAMPP, stop and restart Apache!

2.1 NGINX

```
server {
  listen          443 ssl;
  server_name     <subdomäne.SLD.TLS>;
```

```
ssl_certificate      <Verzeichnis><subdomäne.SLD.TLS>.cert;  
ssl_certificate_key  <Verzeichnis><subdomäne.SLD.TLS>.key;  
ssl_protocols       TLSv1.2 TLSv1.3;  
ssl_ciphers         HIGH:!aNULL:!MD5;  
...  
}
```

“ But now you've done it!!!! ☐ Please understand that this is about local certificates and not how to generate a PI or how to set up a web server or, or, or, or... The only thing left to complete the picture is the actual side issue of DNS resolvers. Even if everything has been done correctly, it can happen that your domain is not accessible in your browsers.... ☐ So here's a final chapter DNS Resolver! Hey, and of course a "Gutzi" for hanging in there. Have a look at "Gutzi" !!!!! ☐

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