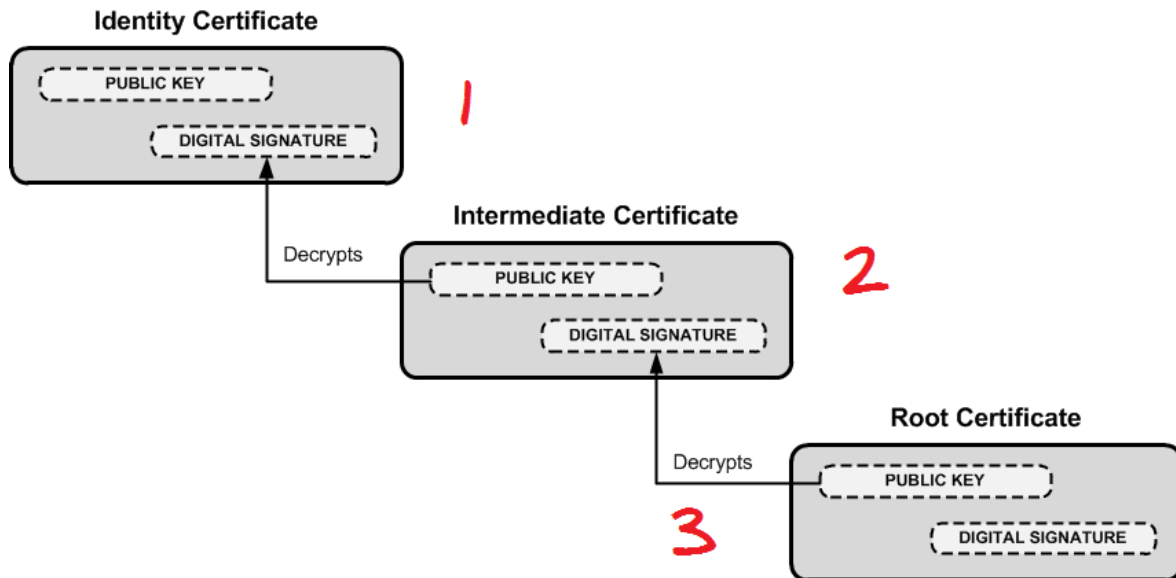


How to install / add new root certificates on Debian, Ubuntu, Mint Linux

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How to add / Installing a root/CA Certificate on Debian, Ubuntu, Mint Linux

Because of various auditing failures and other security issues, the CAcert root certificate set is slowly disappearing from the Ubuntu and Debian 'ca-certificates' package.

That's really tricky because if you're a system administrator or have a bunch of programmers whose needs is to install a new set of root certificates for their freshly developed Application or you have to make a corporate certificates added to debian rootca, then the good news is it is quite easy to install new certificates to deb based distributions.

Given a CA certificate file foo.crt, follow these steps to install it on Debian / Ubuntu:

Create a directory for extra CA certificates in */usr/share/ca-certificates*:

```
debian:~# mkdir /usr/share/ca-certificates/extra-certificates
```

Copy the CA .crt file to this directory:

```
debian:~# cp foo.crt /usr/share/ca-certificates/extra-certificates/foo.crt
```

Let **Debian / Ubuntu** add the .crt file's path relative to **/usr/share/ca-certificates** to **/etc/ca-certificates.conf** (the file lists certificates that you wish to use or to ignore to be installed in **/etc/ssl/certs**)

```
debian:~# dpkg-reconfigure ca-certificates
```

In case you want to include a .pem file to the list of trustable certificates on **Debian / Ubuntu**, it must *first be converted to a .crt file first, you can do that with:*

```
debian:~# openssl x509 -in foo.pem -inform PEM -out foo.crt
```

Lets say you want to add some custom Root certificate for exapmle **cacert.org**

```
debian:~# mkdir /usr/local/share/ca-certificates/cacert.org
debian:~# cd /usr/local/share/ca-certificates/cacert.org
debian:~# mkdir /usr/local/share/ca-certificates/cacert.org
debian:~# wget -P /usr/local/share/ca-certificates/cacert.org
http://www.cacert.org/certs/root.crt http://www.cacert.org/certs/class3.crt
```

Then once again update the ca certificates bundle

```
debian:~# update-ca-certificates
```