

# Client Setup

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## 1 - Abstract

As there are two different types of certificates, there are two individual tasks to setup a client.

- Host Certificate
- Client Certificate

If one would like to use only one certificate, execute the corresponding subtask.

### Configuration paths

There are two different options to tell the ssh daemon about the certificate: 'user based' (recommended) or 'global'

- 'user based': The certificate is valid for one specific user on the client.

```
SSH_CERTIFICATES=$HOME/.ssh/netdef
SSH_CONFIG=$HOME/.ssh/config
SSH_KNOWNHOSTS=$HOME/.ssh/known_hosts
```

- 'global': The certificate is valid for each user on the client.

```
SSH_CERTIFICATES=/etc/ssh/netdef
SSH_CONFIG=/etc/ssh/ssh_config
SSH_KNOWNHOSTS=/etc/ssh/ssh_known_hosts
```

## 2 - Client Certificate

### Step 1 - Sign client's public key

The instructions how to signed a clients public key can be found [here](#).

The CA provides a zip file where all signed keys are stored.

```
helloworld-1234567890-1-cert.pub
helloworld-1234567890-2-cert.pub
...
helloworld-1234567890-N-cert.pub
```

### Step 2 - Copy all certificates to netdef folder

Copy all certificates that can be found in the provided tar file to the folder '\$SSH\_CERTIFICATES'.

```
mkdir -p $SSH_CERTIFICATES
cp *cert.pub $SSH_CERTIFICATES
```

### Step 3 - Edit the config file

Add the following lines to '\$SSH\_CONFIG'. The name of the certificate as well as '\$SSH\_CERTIFICATES' must be replaced with the correct file name and the correct path to the folder respectively.

```
Host *.netdef.org
    CertificateFile `$$SSH_CERTIFICATES`/helloworld-1234567890-1-cert.pub
    CertificateFile `$$SSH_CERTIFICATES`/helloworld-1234567890-2-cert.pub
    ...
    CertificateFile `$$SSH_CERTIFICATES`/helloworld-1234567890-N-cert.pub
```