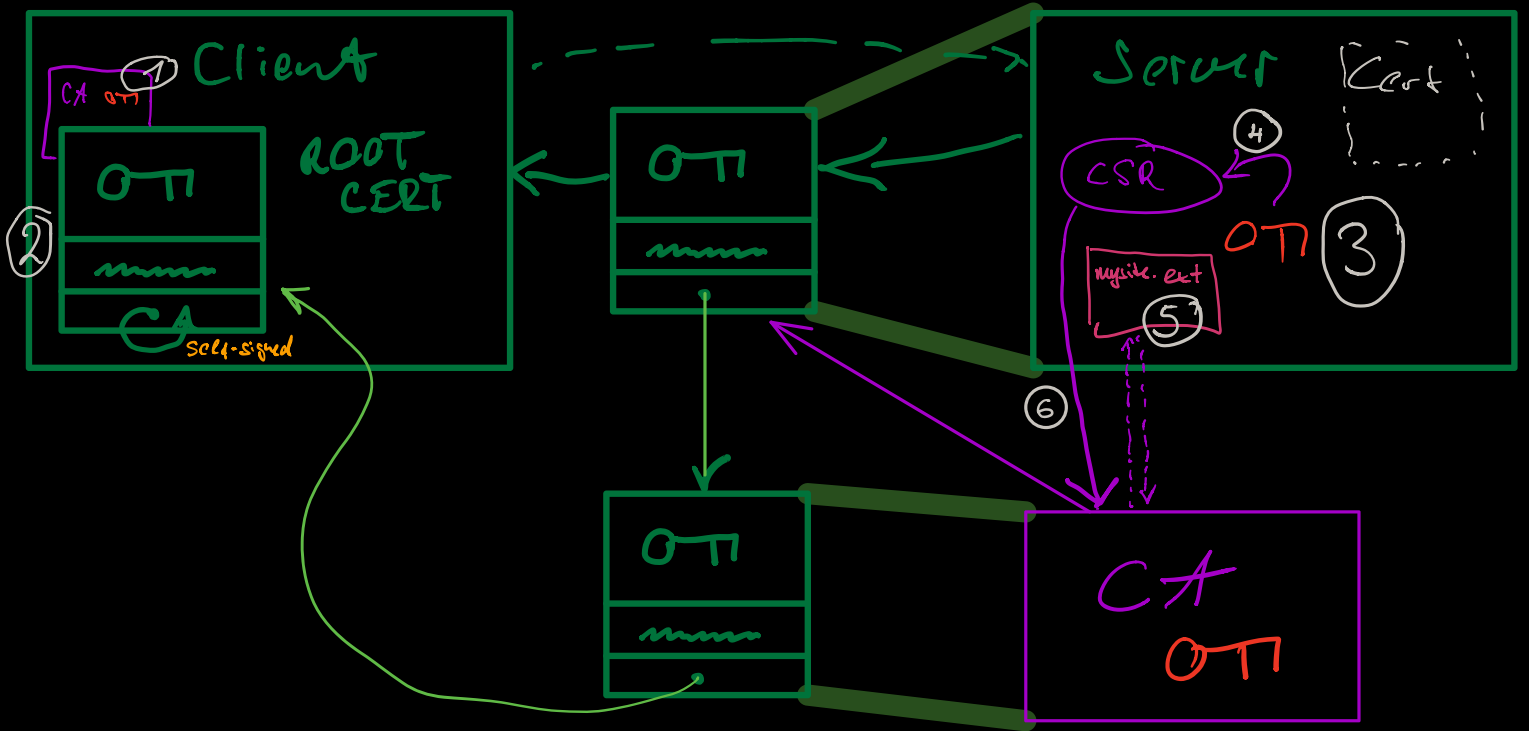


HTTPS



Setup https locally

• create own root CA:

• create private key (1)

```
openssl genrsa -des3
```

```
-out myCA.key 2048  
(do not omit password)
```

• create root certificate (2)

```
openssl req -x509 -new -nodes
```

```
-key myCA.key -sha256 -days 1825
```

- out myCA.pem

• deploy it to all machines

• System (OS trust store)

```
sudo mkdir /usr/local/share/ca-certificates/extra  
sudo cp myCA.pem /usr/local/share/ca-certificates/myCA.crt  
sudo update-ca-certificates
```

• Browser

~> **do not** make use of OS trust store, they use their own cert8.db
cert9.db

→ see deploy script

• create CA-signed certificate for the site

• create private key (3)

```
openssl genrsa -out mysite.key 2048
```

• create CSR (4)

```
openssl req -new -key mysite.key -out mysite.csr
```

• create mysite.ext (5)

• Create signed certificate (6)

```
openssl x509 -req -in mysite.csr -CA myCA.pem
```

```
-CAkey myCA.key -CAcreateserial
```

```
-out mysite.crt -days 825 -sha256
```

```
-extfile mysite.ext
```