

SKXXX - Create SSL Certificates

Purpose - Generate secured certificates for internal and external domains

Procedure

Internal Website

Creating a self-signed SSL certificate

A self-signed SSL certificate is a certificate that is signed with its own private key

```
openssl req -x509 -sha256 -nodes -days 3650 -newkey rsa:4096 -keyout /etc/httpd/ssl/<fqdn>.key -out /etc/httpd/ssl/<fqdn>.crt
```

In a VHosts configuration block

```
SSLCertificate /etc/httpd/ssl/<fqdn>.crt  
  
SSLCertificateKeyFile /etc/httpd/ssl/<fqdn>.key
```

External Website

Generate a CSR (Certificate Signing Request)

A CSR is generated and submitted to a CA (Certificate Authority)

```
openssl req -new -newkey rsa:2048 -nodes -keyout /etc/httpd/ssl/<fqdn>.key -out /etc/httpd/ssl/<fqdn>.csr
```

Once the CSR is submitted to the CA, they will return two files

```
<fqdn>.crt  
<CA>.crt
```

In a VHosts configuration block

```
SSLCertificate /etc/httpd/ssl/<fqdn>.crt  
  
SSLCertificateKeyFile /etc/httpd/ssl/<fqdn>.key  
  
SSLCertificateChainFile /etc/httpd/ssl/<CA>.crt
```

Additional Information

Refer to [shaaaaaaaaaaaaa](#) for more information