

# Configure Apache22 SSL in FreeBSD

This tutorial is about configuring Apache 22 SSL in FreeBSD

## Step 1. Compile and install Apache

```
-----  
cd /usr/ports/www/apache22  
make install clean
```

## Step 2. Add the following lines to /etc/rc.conf

```
-----  
apache22_enable="YES"  
apache22_flags="-DSSL"
```

## Step 3. Create dirs to store Apache SSL keys

```
-----  
mkdir /usr/local/etc/apache22/ssl.key  
mkdir /usr/local/etc/apache22/ssl.crt  
  
chmod 0700 /usr/local/etc/apache22/ssl.key  
chmod 0700 /usr/local/etc/apache22/ssl.crt
```

## Step 4. Create certificates

```
-----  
# create certificate  
cd /root  
openssl genrsa -des3 -out server.key 1024  
  
# create a Certificate Signing Request (CSR)  
openssl req -new -key server.key -out server.csr  
  
# self sign the certificate  
openssl x509 -req -days 730 -in /root/server.csr -signkey /root/server.key -out /root/server.crt
```

## Step 5. Copy certificate files to apache config directory

```
-----  
cp /root/server.key /usr/local/etc/apache22/ssl.key/  
cp /root/server.crt /usr/local/etc/apache22/ssl.crt/
```

## Step 6. Set proper permission for certificate files

```
-----  
chmod 0400 /usr/local/etc/apache22/ssl.key/server.key  
chmod 0400 /usr/local/etc/apache22/ssl.crt/server.crt
```

## Step 7. Add certificate to your Apache config

Add the following lines to your VirtualHost section in httpd.conf:

```
SSLEngine on  
SSLCertificateFile /usr/local/etc/apache22/ssl.crt/server.crt  
SSLCertificateKeyFile /usr/local/etc/apache22/ssl.key/server.key
```

## Step 8. Remove SSL Password

Remove SSL Password from certificate, otherwise you will have to input password every time you start Apache.

```
cd /usr/local/etc/apache22/ssl.key
```

```
cp server.key server.key.orig  
openssl rsa -in server.key.orig -out server.key
```

Step 9. Allow access to Directory where your files are located

-----  
Place the following lines to /usr/local/etc/apache22/httpd.conf file

```
order allow,deny  
allow from all
```

in between your <Directory "/your\_path\_to\_http\_files"> </Directory> tags.