SSL in Apache2

1. ເປີດ mode_ssl

```
a2enmod ssl
systemctl restart apache2
```

ล้าๆ TLS Certificate

openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/ssl/private/chaxiong-la.key -out /etc/ssl/certs/chaxiong-la.crt

```
+....+.+..+.+...
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
Country Name (2 letter code) [AU]:LA
State or Province Name (full name) [Some-State]: Vientiane
Locality Name (eg, city) []:SIT
Organization Name (eg, company) [Internet Widgits Pty Ltd]:SIT
Organizational Unit Name (eg, section) []:<mark>IT</mark>
Common Name (e.g. server FQDN or YOUR name) []:chaxiong.la
Email Address []:cha@chaxiong.la
root@ns1:/etc/ssl/private#
```

3. ແກ້ໄຂ host

vim /etc/apache2/sites-available/web1.chaxiong.conf

```
VirtualHost *:443>
  ServerAdmin admin@chaxiong.la
   ServerName chaxiong.la
  Redirect / https://www.chaxiong.la/
  ServerAlias www.chaxiong.la
  DocumentRoot /var/www/html/vhosts/web1
      <Directory
              Options Ind
              AllowOverride All
              Require all granted
      </Directory>
  SSLEngine
  SSLCertificateFile /etc/ssl/certs/chaxiong-la.crt
  SSLCertificateKeyFile /etc/ssl/private/chaxiong-la.key
  ErrorLog /var/www/html/vhosts/web1/log/@
   CustomLog /var/www/html/vhosts/web1/log/access.log combined
```

4. Restart Services

```
apache2ctl configtest
systemctl restart apache2
ufw allow "Apache Full"
a2enmod headers
```

5. ທຶດສອບ https

