

## Installing a SSL certificate on Apache ubuntu (import SSL)

1. Upload the certificate files on the server where your web-site is hosted.

- certificate2023.pem copy them to path /etc/ssl/certs/

- PrivateKey2023.key copy them to path /etc/ssl/private/

- IntermediateCA2023.crt copy them to path /etc/apache2/ssl.crt/

2. Edit your Apache VirtualHost file /etc/apache2/sites-available/default-ssl.conf

```
<IfModule mod_ssl.c>
  <VirtualHost _default_:443>
    ServerAdmin webmaster@localhost
    ServerName idm.sut.ac.th:443

    DocumentRoot /var/www/html

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # SSL Engine Switch:
    # Enable/Disable SSL for this virtual host.
    SSLEngine on
    SSLCertificateFile /etc/ssl/certs/certificate2023.pem
    SSLCertificateKeyFile /etc/ssl/private/PrivateKey2023.key
    SSLCertificateChainFile /etc/apache2/ssl.crt/IntermediateCA2023.crt

    <FilesMatch "\.(cgi|shtml|phtml|php)$">
      SSLOptions +StdEnvVars
    </FilesMatch>
    <Directory /usr/lib/cgi-bin>
      SSLOptions +StdEnvVars
    </Directory>

    BrowserMatch "MSIE [2-6]" \
      nokeepalive ssl-unclean-shutdown \
      downgrade-1.0 force-response-1.0
    # MSIE 7 and newer should be able to use keepalive
    BrowserMatch "MSIE [17-9]" ssl-unclean-shutdown
```

```
</VirtualHost>
</IfModule>
```

3. edit your virtualhost configuration section in `/etc/apache2/sites-available/default.conf`

```
<VirtualHost *:443>
ServerAdmin webmaster@localhost
ServerName idm.sut.ac.th
DocumentRoot /var/www/html
ErrorLog ${APACHE_LOG_DIR}/error_ssl.log
CustomLog ${APACHE_LOG_DIR}/access_ssl.log combined
```

```
  <Directory "/var/www/html">
    Options Indexes FollowSymLinks
    AllowOverride All
    Require all granted
  </Directory>
```

```
SSLEngine on
SSLCertificateFile /etc/ssl/certs/certificate2023.pem
SSLCertificateKeyFile /etc/ssl/private/PrivateKey2023.key
</VirtualHost>
```

3. restart Apache with the following command:

```
sudo service apache2 restart
```