

# Install an SSL certificate on Ubuntu

It's important to use SSL any time sensitive data is involved such as personal information, and authentication credentials such as passwords. Your Linux system should be:

- running Ubuntu
- accessible over the internet
- using a valid DNS entry that points to your Linux system

1. Add SSL support in Apache. (Enable SSL only if it is not enabled already)

```
> sudo a2enmod ssl
```

2. Copy the SSL certificate provided by your certification provider and SSL private key file to the apache directory. The certificate file is renamed as server.crt and intermediate chain file renamed to server-ca.crt and private key file is renamed as server.key

```
> sudo mkdir -p /etc/apache2/ssl
> sudo cp server.crt /etc/apache2/ssl
> sudo cp server-ca.crt /etc/apache2/ssl
> sudo cp server.key /etc/apache2/ssl
```

3. Modify your webserver configuration (**/etc/apache2/sites-enabled/000-default.conf**) to use the issued ssl certificate. (NOTE: The ServerName must match the server name in the SSL certificate)

## Ubuntu 14.04 or older

```
<VirtualHost *:443>
# Admin email, Server Name (domain name) and any aliases
ServerAdmin support@xyz.com
ServerName server1.xyz.com
# Index file and Document Root (where the public files are located)
DirectoryIndex index.php
DocumentRoot /var/www
<Directory /var/www/>
Options Indexes FollowSymLinks MultiViews
AllowOverride All
Order allow,deny
allow from all
</Directory>

ErrorLog ${APACHE_LOG_DIR}/error.log
# Possible values include: debug, info, notice, warn, error, crit,
# alert, emerg.
LogLevel warn
CustomLog ${APACHE_LOG_DIR}/access.log combined

SSLEngine On
SSLCertificateFile /etc/apache2/ssl/server.crt
SSLCertificateChainFile /etc/apache2/ssl/server-ca.crt
SSLCertificateKeyFile /etc/apache2/ssl/server.key

</VirtualHost>
```

## Ubuntu 16.04

```
<VirtualHost *:443>
# Admin email, Server Name (domain name) and any aliases
ServerAdmin support@xyz.com
ServerName server1.xyz.com
# Index file and Document Root (where the public files are located)
DirectoryIndex index.php
DocumentRoot /var/www/html
<Directory /var/www/html>
Options Indexes FollowSymLinks MultiViews
AllowOverride All
Order allow,deny
allow from all
</Directory>

ErrorLog ${APACHE_LOG_DIR}/error.log
# Possible values include: debug, info, notice, warn, error, crit,
# alert, emerg.
LogLevel warn
CustomLog ${APACHE_LOG_DIR}/access.log combined

SSLEngine On
SSLCertificateFile /etc/apache2/ssl/server.crt
SSLCertificateChainFile /etc/apache2/ssl/server-ca.crt
SSLCertificateKeyFile /etc/apache2/ssl/server.key

</VirtualHost>
```

4. Ensure that /etc/apache2/ports.conf has Listen 443 (Should already be there)
5. Restart Apache.

```
> sudo /etc/init.d/apache2 restart
```