**SSL Setup in nginx server**

You first need to create a key and certificate request for your domain.

#first generate a key for your domain

openssl genrsa -out yourdomain.com.key 2048

#then generate the request

openssl req -new -key yourdomain.com.key -out yourdomain.com.csr

// mention only domain.com don't mention [www.domain.com](http://www.domain.com/)

Just fill out the requested information and you should be good to go

|  |  |
| --- | --- |
| Field | Example |
| Country Name | US (2 Letter Code) |
| State or Province | New Hampshire (Full State Name) |
| Locality Name | Portsmouth (Full City name) |
| Organization | GMO GlobalSign Inc (Entity's Legal Name) |
| Organizational Unit | Support (Optional, e.g. a department) |
| Common Name | www.globalsign.com (Domain or Entity name) |

Ref: <https://in.godaddy.com/help/nginx-generate-csrs-certificate-signing-requests-3601>

It will crate 2 files .key and .csr copy those two files to your nginx server.

In godaddy login to your account. Click on ssl sertificates. Click on mange of your certificate. Upload or copy your csr.

After some time it will generate two .crt files like 2cbaefc630a107b.crt & gd\_bundle-g2-g1.crt or any other name.

**For nginx:**

#if on nginx prepare your certificate by combining the two files given to

#you by godaddy

cat 2cbaefc630a107b.crt gd\_bundle.crt > yourdomain.com\_combined.crt

copy yourdomain.com\_combined.crt to your nginx server

#your nginx config for your server on port 443 will contain

ssl on;

ssl\_certificate /ssl\_location/yourdomain.com\_combined.crt;

ssl\_certificate\_key /ssl\_location/yourdomain.com.key;

restart your nginx server.

**For apache:**

#if you are on apache your apache config should look like this

#unlike nginx apache allows you to specify a Certificate chain

#file so you don't have to combine your certificates to make them

#appear correctly in all browsers.

SSLEngine On

SSLCertificateFile /ssl\_location/yourdomain.com.crt

SSLCertificateKeyFile /ssl\_location/yourdomain.com.key

SSLCertificateChainFile /ssl\_location/gd\_bundle.crt

**Nginx example configuration & http to https redirection:**

server {

listen 80;

listen [::]:80 default\_server ipv6only=on;

server\_name domainname.co www.domainname.co;

rewrite ^ https://$server\_name$request\_uri? permanent;

}

server {

listen 443 ssl;

#listen 443 default\_server;

server\_name portapp.co www.domainname.co;

ssl on;

ssl\_certificate /path/ssl/domainname .co\_combined.crt;

ssl\_certificate\_key /path/ssl/www.domainname.co.key;

root /var/www/path;

index index.html index.htm index.php;

charset utf-8;

location = /favicon.ico { access\_log off; log\_not\_found off; }

location = /robots.txt { access\_log off; log\_not\_found off; }

access\_log /var/log/nginx/access.log;

error\_log /var/log/nginx/error.log;

error\_page 404 /index.php;

sendfile off;

client\_max\_body\_size 100m;

location ~ /\.ht {

deny all;

}

location ~ .php$ {

fastcgi\_split\_path\_info ^(.+.php)(/.+)$;

fastcgi\_pass unix:/var/run/php5-fpm.sock;

fastcgi\_index index.php;

include fastcgi\_params;

# add the following line in for added security.

try\_files $uri =403;

}

}

Nginx bastion host redirection

server {

listen 80;

server\_name www.domainname.com domainname.com;

rewrite ^ https://$server\_name$request\_uri? permanent;

}

server {

listen 443 ssl;

server\_name www.domainname.com domainname.com;

access\_log /var/log/nginx/access.log;

error\_log /var/log/nginx/error.log;

ssl\_certificate /etc/nginx/ssl/bundle.crt;

ssl\_certificate\_key /etc/nginx/ssl\_certificate/domainname.com.key;

rewrite ^ https://$server\_name$request\_uri? permanent;

}

httpd configuration

NameVirtualHost \*:80

NameVirtualHost \*:443

<VirtualHost \*:80>

ServerName limeyard.ch

RewriteEngine on

RewriteRule ^(.\*)$ https://www.domainname.ch$1 [L,R=301,NC]

</VirtualHost>

<VirtualHost \*:443>

ServerName limeyard.ch

SSLEngine On

SSLCertificateFile /etc/httpd/ssl/c5185sdfsafebf4s8dfd74 .crt

SSLCertificateKeyFile /etc/httpd/ssl/domainname.key

SSLCertificateChainFile /etc/httpd/ssl/bundle.crt

RewriteEngine on

RewriteRule ^(.\*)$ https://www.domainname.ch$1 [L,R=301,NC]

</VirtualHost>

**or**

Bastion Host Redirection

NameVirtualHost \*:80

NameVirtualHost \*:443

<VirtualHost \*:80>

ServerName qa.limeyard.ch

RewriteEngine On

# Force HTTPS

RewriteCond %{HTTPS} !=on

RewriteCond %{HTTP:X-Forwarded-Proto} !https

RewriteRule ^.\*$ https://%{HTTP\_HOST}%{REQUEST\_URI} [R=307,NE,L]

</VirtualHost>

<VirtualHost \*:443>

ServerName domainname

DocumentRoot "/var/www/folderpath/"

ErrorLog /var/log/httpd/rror.log

LogFormat "%{X-Forwarded-For}i %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-agent}i\"" combined\_with\_forwarded\_for

CustomLog /var/log/httpd/qa-access.log combined\_with\_forwarded\_for

SSLEngine On

SSLCertificateFile /etc/httpd/ssl/c5185sdfsafebf4s8dfd74.crt

SSLCertificateKeyFile /etc/httpd/ssl/domainname.key

SSLCertificateChainFile /etc/httpd/ssl/bundle.crt

</VirtualHost>

Note :

1. Once your create & set up Godaddy SSL certificate for any subdomain. You can rekey and change to another subdomain.
2. Once you create & set up Godaddy SSL certificate for one hosting you change to another hosting. But you need to have yourdomain.com.key file. Which is created while generating csr. & Just download the keys from godaddy. Which contains two .crt files. Combine those two files to one file as mentioned above. Now configure in nginx.
3. If you want to setup ssl for unlimited sub subdomains need to purchase Wild Card SSL.
4. If you want to setup ssl for single subdomain than standard ssl is better

**domain forwarding:**

select http and domainname(Enter to which domain you want to forward)

ex: a1.com forward to a2.com

forwardtype : perminant

settings: Forwardonly(URL also forward to a2.com )

Forward with masking(URL will be same as a1.com but content will load from a2.com)

**WPENGINE DNS Pointing**

add wpengine IP as A record in godaddy. Host as @ & value as Wpengine IP

From WPENGINE

go to domains, Click on add, Enter your domain name as [www.yourdomain.com](http://www.yourdomain.com/) & yourdomain.com(without www) & click on add domain,

**Redirect domain from WPEngine**

Click on edit redirect from any one domain & select the domain name to which you want to redirect and save changes.

**Redirection for domainname/beta**

location /beta {

alias /var/www/urloop-image/beta/public;

try\_files $uri $uri/ @beta;

location ~ \.php$ {

include snippets/fastcgi-php.conf;

include fastcgi\_params;

fastcgi\_param SCRIPT\_FILENAME $request\_filename;

fastcgi\_pass unix:/var/run/php/php7.2-fpm.sock;

}

}

location @beta {

rewrite /beta/(.\*)$ /beta/index.php?/$1 last;

}