

How to Setup Let's Encrypt SSL with NGINX server.

1. **Install NGINX:** If you haven't already installed NGINX, you can do so using the package manager

```
$sudo apt update
$sudo apt install nginx
```

2. Copy your default configuration to the domain configuration (change `myapp.com` to your domain name)

```
$cp /etc/nginx/sites-available/default /etc/nginx/sites-available/myapp.com
```

3. Setup ssl for your domain by editing the domain configuration file, look for `server_name _;` and add your domain name in front of `server_name _;`

```
$nano /etc/nginx/sites-available/myapp.com
server_name myapp.com www.myapp.com; and save the configuration file
```

4. Unlink your default configuration file so that you can enable your domain configuration file

```
unlink /etc/nginx/sites-enabled/default
```

5. Link your domain (This automatically enable your domain configuration file)

```
ln -s /etc/nginx/sites-available/myapp.com /etc/nginx/sites-enabled/myapp.com
```

After enable the domain you can then test

```
$nginx -t
```

```
root@ip-10-73-14-228:/etc/nginx/sites-enabled# nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

```
$service nginx restart
```

6. Install Certbot for Let's encrypt SSL

```
$sudo apt-add-repository -r ppa:certbot/certbot (Press Enter)
```

```
root@ip-10-73-14-228:/etc/nginx/sites-enabled# sudo apt-add-repository -r ppa:certbot/certbot
PPA publishes dbgsym, you may need to include 'main/debug' component
Repository: 'Types: deb
URIs: https://ppa.launchpadcontent.net/certbot/certbot/ubuntu/
Suites: noble
Components: main
'
Description:
The PPA has been DEPRECATED.

To get up to date instructions on how to get certbot for your systems, please see https://certbot.eff.org/docs/install.html.
More info: https://launchpad.net/~certbot/+archive/ubuntu/certbot
Removing repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Hit:1 http://eu-west-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://eu-west-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://eu-west-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
```

```
$sudo apt install -y certbot python3-certbot-nginx
```

```
$certbot --nginx -d myapp.com -d myapp.com
```

