https://www.digitalocean.com/community/tutorials/how-to-install-nginx-on-ubuntu-18-04#step-5-%E2%80%93-setting-up-server-blocks-recommended

https://www.digitalocean.com/community/tutorials/how-to-secure-nginx-with-let-s-encrypt-on-ubuntu-18-04

<https://devanswers.co/install-lets-encrypt-ssl-cert-nginx-ubuntu-20-04/>

sudo snap install --classic certbot

cd /snap/bin/

cp certbot /usr/local/bin/

./certbot -h

./certbot certonly --manual --preferred-challenges=dns --key-type rsa

--email mavrick202@gmail.com \

--server https://acme-v02.api.letsencrypt.org/directory --agree-tos -d \*.trainingk8s.xyz

**Creating PFX using privkey.pem& fullchain.pem:**

openssl pkcs12 -inkey privkey.pem -in fullchain.pem -export -out azureb28\_xyz.pfx

cp azureb28\_xyz.pfx /tmp/azureb28\_xyz.pfx

chmod 777 /tmp/azureb28\_xyz.pfx

Copy file to local using winscp

Use ubuntu 20.04

apt update && apt install -y nginx

sudo apt update && sudo apt install certbot python3-certbot-nginx

sudo mkdir -p /var/www/awstelugu.xyz/html

sudo chown -R $USER:$USER /var/www/awstelugu.xyz/html

sudo chmod -R 755 /var/www/awstelugu.xyz

nano /var/www/awstelugu.xyz/html/index.html

<html>

<head>

<title>Welcome to awstelugu.xyz!</title>

</head>

<body>

<h1>Success! The awstelugu.xyz server block is working!</h1>

</body>

</html>

sudo nano /etc/nginx/sites-available/awstelugu.xyz

server {

listen 80;

listen [::]:80;

root /var/www/awstelugu.xyz/html;

index index.html index.htm index.nginx-debian.html;

server\_name awstelugu.xyz www.awstelugu.xyz hello1.awstelugu.xyz hello2.awstelugu.xyz;

location / {

try\_files $uri $uri/ =404;

}

}

sudo ln -s /etc/nginx/sites-available/awstelugu.xyz /etc/nginx/sites-enabled/

sudo nginx -t

sudo systemctl restart nginx

sudo certbot certonly \

--agree-tos \

--email mavrick202@gmail.com \

--manual \

--preferred-challenges=dns \

-d \*.awstelugu.xyz \

--server https://acme-v02.api.letsencrypt.org/directory

If we need to get individual ssl certs we can perform following:

certbot --nginx

listen [::]:443 ssl ipv6only=on; # managed by Certbot

listen 443 ssl; # managed by Certbot

#ssl\_certificate /etc/letsencrypt/live/awstelugu.xyz-0001/fullchain.pem; # managed by Certbot

#ssl\_certificate\_key /etc/letsencrypt/live/awstelugu.xyz-0001/privkey.pem; # managed by Certbot

ssl\_certificate /etc/letsencrypt/live/awstelugu.xyz/fullchain.pem;

ssl\_certificate\_key /etc/letsencrypt/live/awstelugu.xyz/privkey.pem

include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot

ssl\_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot

root@ip-10-40-1-213:/etc/letsencrypt/live/awstelugu.xyz# ll /etc/letsencrypt/live/awstelugu.xyz

total 12

drwxr-xr-x 2 root root 4096 Feb 15 04:24 ./

drwx------ 4 root root 4096 Feb 15 04:27 ../

-rw-r--r-- 1 root root 692 Feb 15 04:24 README

lrwxrwxrwx 1 root root 37 Feb 15 04:24 cert.pem -> ../../archive/awstelugu.xyz/cert1.pem

lrwxrwxrwx 1 root root 38 Feb 15 04:24 chain.pem -> ../../archive/awstelugu.xyz/chain1.pem

lrwxrwxrwx 1 root root 42 Feb 15 04:24 fullchain.pem -> ../../archive/awstelugu.xyz/fullchain1.pem

lrwxrwxrwx 1 root root 40 Feb 15 04:24 privkey.pem -> ../../archive/awstelugu.xyz/privkey1.pem

server {

root /var/www/awstelugu.xyz/html;

index index.html index.htm index.nginx-debian.html;

server\_name awstelugu.xyz www.awstelugu.xyz hello1.awstelugu.xyz hello2.awstelugu.xyz;

location / {

try\_files $uri $uri/ =404;

}

listen [::]:443 ssl ipv6only=on; # managed by Certbot

listen 443 ssl; # managed by Certbot

ssl\_certificate /etc/letsencrypt/live/awstelugu.xyz-0001/fullchain.pem; # managed by Certbot

ssl\_certificate\_key /etc/letsencrypt/live/awstelugu.xyz-0001/privkey.pem; # managed by Certbot

include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot

ssl\_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot

}

server {

if ($host = www.awstelugu.xyz) {

return 301 https://$host$request\_uri;

} # managed by Certbot

if ($host = hello2.awstelugu.xyz) {

return 301 https://$host$request\_uri;

} # managed by Certbot

if ($host = hello1.awstelugu.xyz) {

return 301 https://$host$request\_uri;

} # managed by Certbot

if ($host = awstelugu.xyz) {

return 301 https://$host$request\_uri;

} # managed by Certbot

listen 80;

listen [::]:80;

server\_name awstelugu.xyz www.awstelugu.xyz hello1.awstelugu.xyz hello2.awstelugu.xyz;

return 404; # managed by Certbot