Certbot install

apt install certbot -y

To Generate certificate:

certbot certonly --manual --preferred-challenges=dns --key-type rsa --email tvsravya95@gmail.com --server <https://acme-v02.api.letsencrypt.org/directory> --agree-tos -d sravya.co.in -d \*.[sravya.co.in](http://sravya.co.in)

Update TXT record in route 53 given by above command : Name and value.

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One domain: can create many sub domains.

Cd /etc/nginx/sites-enabled : [docker.sravya.co.in](http://docker.sravya.co.in),

Cat [jenkins.sravya.co.in](http://jenkins.sravya.co.in).

server {

listen 80;

server\_name jenkins.sravya.co.in www.jenkins.sravya.co.in;

return 301 https://$server\_name$request\_uri;

location / {

proxy\_pass http://localhost:8080;

include proxy\_params;

}

}

server {

listen 443 ssl;

server\_name jenkins.sravya.co.in;

ssl\_certificate /etc/letsencrypt/live/sravya.co.in/fullchain.pem;

ssl\_certificate\_key /etc/letsencrypt/live/sravya.co.in/privkey.pem;

location / {

proxy\_pass http://localhost:8080;

include proxy\_params;

}

}

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Every 3 months ssl certificate will expire. So we can write auto renew using certbot as it is open source.. else we can use Amazon certificate M ..

Through CLI:

1. sudo apt update
2. sudo apt install certbot python3-certbot-dns-route53
3. sudo certbot renew --dns-route53 --email revanthrch@gmail.com --server <https://acme-v02.api.letsencrypt.org/directory> --agree-tos
4. sudo vi /etc/letsencrypt/renewal/[sravya.co](http://sravya.co).in.conf. & look for a line starting with autehnticator = manual and change it to authenticator = dns-route53
5. sudo certbot renew

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Create Jenkins pipeline for SSL certificate and automated for every 12 hours.

Through Jenkins:

Create pipeline: Poll SCM : H 0,12 \* \* \*

Execute Shell : sudo apt update

sudo certbot renew

To automatically access Ec2 from Jenkins edit :

visudo : # User privilege specification:

jenkins ALL=(ALL) NOPASSWD: ALL