Certificate Management Via Cert Bot

1. Spin up and EC2 instance.

2. start a node JS process on port 3000 using below code. (Open port 3000 to test it)

```
const express=require('express')
const app=express()

app.get('/',(req,res)⇒{
    res.send("This endpoint is for testing certificate for https!")
})

app.listen(8080,()⇒{
    console.log("Application is running in port 8080!")
})
```

3. Install nginx on port 30 using below commands.

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

4. Configure reverse proxy on port 80 using below code.

```
events {
    # Event directives...
}

http {
    server {
        listen 80;
        server_name cert.deepak.cfd;
```

```
        location / {
            proxy_pass http://localhost:3000;
            proxy_http_version 1.1;
            proxy_set_header Upgrade $http_upgrade;
            proxy_set_header Connection 'upgrade';
            proxy_set_header Host $host;
            proxy_cache_bypass $http_upgrade;
        }
    }
}
```

5. Add SSL Certificate using cert bot.

My HTTP website is running [Nginx ▾] on [Linux (snap) ▾]

sudo apt install snapd

`sudo snap install --classic certbot`

`sudo ln -s /snap/bin/certbot /usr/bin/certbot`

`sudo certbot --nginx`

Note: It will automatically add the certificate config in /etc/nginx/nginx.conf file.

6. Test below urls:

    http://cert.deepak.cfd

    https://cert.deepak.cfd