

How to Enable HTTPS in Your Domain Hosted on Linux Remote Server or VPS

Let's Encrypt is a non-profit certificate authority run by Internet Security Research Group that provides X.509 certificates for Transport Layer Security encryption at no charge.

Certbot is a free, open source software tool for automatically using Let's Encrypt certificates on manually-administrated websites to enable HTTPS.

- To Access Remote Server via SSH

Syntax:- `ssh -p PORT USERNAME@HOSTIP`

Example:- `ssh -p 1034 raj@216.32.44.12`

- Install Certbot and it's Nginx plugin

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

- Verify Web Server Ports are Open and Allowed through Firewall

```
sudo ufw status verbose
```

- Obtain an SSL certificate

```
sudo certbot --nginx -d your_domain.com -d www.your_domain.com
```

- Check Status of Certbot

```
sudo systemctl status certbot.timer
```

- Dry Run SSL Renewal

```
sudo certbot renew --dry-run
```