

# SSL Certificate renewals in Nginx based Load-Balancer

- Login to the Nginx VM
- Execute test/dry-run command to check for any errors  
For Example: Here, renewing certificate of domain shopify.argoid.com  
`sudo certbot renew --cert-name shopify.argoid.com --dry-run`

1. If you receive any error message/logs(apart from Port 80 bind issue), then contact infra team to fix those issues
2. If you receive only Port 80 bind issue ,then stop the nginx service

```
[bala@argoid-saas-prod1-host-014 ~]$  
[bala@argoid-saas-prod1-host-014 ~]$ sudo certbot renew --cert-name shopify.argoid.com --dry-run  
Saving debug log to /var/log/letsencrypt/letsencrypt.log  
  
-----  
Processing /etc/letsencrypt/renewal/shopify.argoid.com.conf  
-----  
Cert is due for renewal, auto-renewing...  
Plugins selected: Authenticator standalone, Installer None  
Starting new HTTPS connection (1): acme-staging-v02.api.letsencrypt.org  
Simulating renewal of an existing certificate for shopify.argoid.com  
Performing the following challenges:  
http-01 challenge for shopify.argoid.com  
Cleaning up challenges  
Failed to renew certificate shopify.argoid.com with error: Problem binding to port 80: Could not bind to IPv4 or IPv6.  
  
-----  
All simulated renewals failed. The following certificates could not be renewed:  
/etc/letsencrypt/live/shopify.argoid.com/fullchain.pem (failure)  
-----  
1 renew failure(s), 0 parse failure(s)  
[bala@argoid-saas-prod1-host-014 ~]$  
[bala@argoid-saas-prod1-host-014 ~]$ sudo systemctl stop nginx  
[bala@argoid-saas-prod1-host-014 ~]$ sudo certbot renew --cert-name shopify.argoid.com
```

`sudo systemctl stop nginx`

If it is a dockerized Nginx , then stop the Nginx docker container

`sudo docker stop nginx-container-name`

- Execute renewal command  
Note: replace shopify.argoid.com argument with your domain name

`sudo certbot renew --cert-name shopify.argoid.com`

You should see a Congratulations, all renewals succeeded message after certificate renewal

```
[bala@argoid-saas-prod1-host-014 ~]$ sudo certbot renew --cert-name shopify.argoid.com  
Saving debug log to /var/log/letsencrypt/letsencrypt.log  
  
-----  
Processing /etc/letsencrypt/renewal/shopify.argoid.com.conf  
-----  
Cert is due for renewal, auto-renewing...  
Plugins selected: Authenticator standalone, Installer None  
Starting new HTTPS connection (1): acme-v02.api.letsencrypt.org  
Renewing an existing certificate for shopify.argoid.com  
Performing the following challenges:  
http-01 challenge for shopify.argoid.com  
Waiting for verification...  
Cleaning up challenges  
  
-----  
new certificate deployed without reload, fullchain is  
/etc/letsencrypt/live/shopify.argoid.com/fullchain.pem  
-----  
-----  
Congratulations, all renewals succeeded:  
/etc/letsencrypt/live/shopify.argoid.com/fullchain.pem (success)  
-----  
[bala@argoid-saas-prod1-host-014 ~]$ sudo systemctl start nginx
```

- Start back the Nginx service  
`sudo systemctl start nginx`  
If it is a dockerized Nginx , then start the Nginx docker container  
`sudo docker start nginx-container-name`