

NGINX

- It is a http server that is used in many high traffic websites.
- It is designed for both web and proxy server.
- It provides Load Balancing, caching, Reverse Proxy

HOW TO INSTALL NGINX:-

```
sudo apt-get update  
sudo apt-get install nginx
```

HOW TO APPLY REVERSE PROXY:-

Once nginx is installed, then, we need to create a file within the [/etc/nginx/sites-available](#) directory that contains the reverse proxy information. We can name this [reverse-proxy.conf](#) for example.

```
server {  
    listen 80;  
    location / {  
        proxy_pass http://192.x.x.2;  
    }  
}
```

The important part here is the [proxy_pass](#) directive which is essentially telling any requests coming through the Nginx reverse proxy to be passed along to the Apache remote socket [192.x.x.2:80](#)

Once you've added the appropriate directives to your .conf file, activate it by linking to [/sites-enabled/](#) using the following command.

```
ln -s /etc/nginx/sites-available/reverse-proxy.conf  
/etc/nginx/sites-enabled/reverse-proxy.conf
```

```
ln -s /etc/nginx/sites-available/reverse-proxy.conf  
/etc/nginx/sites-enabled/reverse-proxy.conf
```

Lastly, run an Nginx configuration test and restart Nginx.

```
service nginx configtest  
service nginx restart
```

Now after this if you will type localhost in your browser then you will get the same response as it was on `http://192.x.x.2;`

Now if you want the above process to execute with a proper dns like abc.com then you need to do

```
server {
```

```
listen 80;

server_name abc.com;

location / {

    proxy_pass http://192.x.x.2;

}

}
```

Once you've added the appropriate directives to your .conf file, activate it by linking to [/sites-enabled/](#) using the following command.

```
ln -s /etc/nginx/sites-available/<filename> /etc/nginx/sites-enabled/<filename>
```

After that you to enter the server name i.e. abc.com into your host directory by using

```
sudo nano /etc/hosts/
```

```
localhost(127.0.0.1)  abc.com
```

Lastly, run an Nginx configuration test and restart Nginx.

```
service nginx configtest
service nginx restart
```

Display “Hello i am nginx” by using lua when user hits abc.hello:-

For this also you need to create a .conf file and in that file write

```
server {  
    listen 80;  
    server_name abc.hello;  
    location / {  
        return 200 "Hello i am nginx";  
        add-header Content-Type text/plain;  
    }  
}
```

Once you've added the appropriate directives to your .conf file, activate it by linking to [/sites-enabled/](#) using the following command.

```
ln -s /etc/nginx/sites-available/<filename> /etc/nginx/sites-enabled/<filename>
```

After that you to enter the server name i.e. abc.hello into your host directory by using
`sudo nano /etc/hosts/`

```
localhost(127.0.0.1)  abc.hello
```

Lastly, run an Nginx configuration test and restart Nginx.

```
service nginx configtest  
service nginx restart
```

SHOW A STATIC JSON AT PARTICULAR ENDPOINT

(EX:- abc.hello):-

```
server {  
    listen 80;  
    server_name abc.hello;  
    location / {  
        return 200 '{"fruit": "mango", "color": "yellow", "size": "large"}';  
        add_header Content-Type text/plain;  
    }  
}
```

Once you've added the appropriate directives to your .conf file, activate it by linking to [/sites-enabled/](#) using the following command.

```
ln -s /etc/nginx/sites-available/<filename> /etc/nginx/sites-enabled/<filename>
```

After that you to enter the server name i.e. abc.hello into your host directory by using
`sudo nano /etc/hosts/`

```
localhost(127.0.0.1)  abc.hello
```

Lastly, run an Nginx configuration test and restart Nginx.

```
service nginx configtest  
service nginx restart
```

NGINX HEADER TASK

```
server {  
    listen 80;  
    location /msisdn/fetch {  
        return 200 '{"msisdn": "$http_x_msisdn"}';  
        add_header Content-Type application/json;  
    }  
}
```