

# NGINX CONFIGURATION GUIDE

## ① UNDERSTANDING FOLDER STRUCTURE /etc/nginx/

these are the main files in nginx folder as marked below

```
root@missionyouth:/etc/nginx# ls
conf.d          koi-win        nginx.conf      sites-enabled
fastcgi.conf    mime.types     proxy_params    snippets
fastcgi_params  modules-available  scgi_params     uwsgi_params
koi-utf         modules-enabled  sites-available  win-utf
root@missionyouth:/etc/nginx#
```

- `nginx.conf` → general configuration of nginx
- `sites-available` → contains configuration of all virtual hosts
- `sites-enabled` → contains symlinks of virtual hosts

## ② ADDING A VIRTUAL HOST TO NGINX :

- ① Navigate to `/etc/nginx/sites-available/`
- ② Create a configuration file as `sudo nano frontend`
- ③ Consider following configuration as template

```

server {
    listen 443 ssl default_server;
    server_name missionyouth.jk.gov.in;

    ssl_certificate /home/admin1/Application/cert/jk.gov.in.crt;
    ssl_certificate_key /home/admin1/Application/cert/jk.gov.in.key;

    access_log /home/admin1/Application/logs/frontend/access.log;
    error_log /home/admin1/Application/logs/frontend/error.log;

    if ($request_method !~ ^(GET|POST)$ ) {
        return 401;
    }

    location / {
        proxy_pass "http://localhost:3000";
    }
}

```

→ post  
 → server name of vhost  
 → certificate path.  
 → access log dump path  
 → security feature: if req is not GET or POST then returns 401

Similarly for BACKEND PROXY :

```

server {

    listen 443 ssl;

    server_name backendmissionyouth.jk.gov.in;

    ssl_certificate /home/admin1/Application/cert/jk.gov.in.crt;
    ssl_certificate_key /home/admin1/Application/cert/jk.gov.in.key;

    access_log /home/admin1/Application/logs/backend/access.log;
    error_log /home/admin1/Application/logs/backend/error.log;

    if ($request_method ~ ^(OPTIONS)$ )
    {
        return 401;
    }

    if ($request_method ~ ^(HEAD)$ )
    {
        return 401;
    }

    location / {
        proxy_pass "http://localhost:1337";
    }
}

```



we need to install nginx-extras from apt.

After, download is complete navigate to /etc/nginx

→ sudo nano nginx.conf

```
user www-data;
worker_processes auto;
pid /run/nginx.pid;
include /etc/nginx/modules-enabled/*.conf;

events {
    worker_connections 768;
    # multi_accept on;
}

http {

    ##
    # Basic Settings
    ##

    sendfile on;
    tcp_nopush on;
    tcp_nodelay on;
    keepalive_timeout 65;
    types_hash_max_size 2048;
    server_tokens off;
    more_set_headers 'Server:Mission Youth JK';
    more_set_headers 'Allow: ';
    more_set_headers 'X-Powered-By:JaKeGA';
    # server_names_hash_bucket_size 64;
    # server_name_in_redirect off;

    include /etc/nginx/mime.types;
    default_type application/octet-stream;

    ##
```

tokens off removes the nginx version  
overrides default Server:NGINX.