

Ubuntu, NGINX, PHP, SQLite

Install NGINX:

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

Verify NGINX is running:

```
sudo systemctl status nginx
```

```
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running)
```

If you need to change the default port of NGINX or run the service only on localhost:

```
sudo vim /etc/nginx/sites-enabled/default

server {
    listen 127.0.0.1:8000 default_server;
    # listen [::]:80 default_server;
    port_in_redirect off;
    ...

sudo nginx -t
sudo systemctl restart nginx
```

Set `port_in_redirect off;` to prevent the port from being added to the URL after a redirect.

Install PHP:

```
sudo apt-get install php-fpm -y
```

Verify PHP is running:

```
sudo systemctl status php8.3-fpm
```

- php8.3-fpm.service - The PHP 8.3 FastCGI Process Manager

Loaded: loaded (/lib/systemd/system/php8.3-fpm.service; enabled; vendor preset: enabled)

Active: active (running)

Enable PHP in NGINX:

```
sudo vim /etc/nginx/sites-enabled/default
```

```
# Add index.php to the list if you are using PHP
index index.php index.html index.htm index.nginx-debian.html;

server_name _;

location / {
    # First attempt to serve request as file, then
    # as directory, then fall back to displaying a 404.
    try_files $uri $uri/ =404;
}

# pass PHP scripts to FastCGI server
#
location ~ \.php$ {
    include snippets/fastcgi-php.conf;
    #
    # With php-fpm (or other unix sockets):
    fastcgi_pass unix:/run/php/php8.3-fpm.sock;
    # With php-cgi (or other tcp sockets):
    # fastcgi_pass 127.0.0.1:9000;
}

# deny access to .htaccess files, if Apache's document root
# concurs with nginx's one
#
location ~ /\.ht {
    deny all;
}
```

In the default server configuration:

1. Add index.php to the index list.
2. Uncomment the location php block and fastcgi_pass for php-fpm. Ensure correct PHP version.
3. Uncomment block to deny access to .htaccess files.

Validate the NGINX configuration changes and restart NGINX.

Install SQLite3 libraries and restart NGINX:

```
sudo apt-get install php-sqlite3 sqlite3 libsqlite3-dev -y
```

Finally change the permission of the root directory:

```
sudo chmod -R 777 /var/www/html
```

References:

1. <https://www.theserverside.com/blog/Coffee-Talk-Java-News-Stories-and-Opinions/Nginx-PHP-FPM-config-example>
2. <https://forums.raspberrypi.com/viewtopic.php?t=347015>

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