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Creating an NGINX Web Server With Docker

1. Install Docker

```
sudo apt update
sudo apt install curl apt-transport-https ca-certificates software-
properties-common
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
sudo add-apt-repository "deb [arch=amd64]
https://download.docker.com/linux/ubuntu focal stable"
sudo apt update
apt-cache policy docker-ce
sudo apt install docker-ce
```

Check your installation with the command:

```
sudo systemctl status docker
```

```
billy@laptop:~$ sudo systemctl status docker

[sudo] password for billy:

docker.service - Docker Application Container Engine

Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset>
Active: active (running) since Thu 2024-10-10 09:30:02 CEST; 5 days ago

TriggeredBy: docker.socket

Docs: https://docs.docker.come to Folder

Main PID: 88213 (dockerd)

Tasks: 21

Memory: 76.8M

CGroup: /system.slice/docker.service

L88213 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/con>
```

2. Clone This Repository

```
git clone https://github.com/0xbillyyy/Docs
```

```
billy@billy:/tmp/Docs × billy@laptop:~ × ▼

billy@laptop:~$ git clone https://github.com/0xbillyyy/Docs

Cloning into 'Docs'...
remote: Enumerating objects: 66, done.
remote: Counting objects: 100% (66/66), done.
remote: Compressing objects: 100% (40/40), done.
remote: Total 66 (delta 17), reused 45 (delta 10), pack-reused 0 (from 0)

Unpacking objects: 100% (66/66), 9.56 KiB | 466.00 KiB/s, done.
billy@laptop:~$ |
```

3. Move To Folder

```
cd [Your_PATH]/Docs/Docker/Web_server/
```

4. Structure Directory

```
Docker/

└─ Web_server/

├─ src/ (This is where your script is located)

├─ Dockerfile (Here your docker build location is in the configuration)

├─ default.conf (This is where the nginx configuration is located)

├─ docker-compose.yml (Here your docker build location is in the configuration)

└─ README.md
```

5. Configuration docker-compose.yml

In the folder here edit docker-compose.yml as desired

```
services:
  web:
    container_name: web_server (Here you can edit the container name)
    image: nginx:latest
    ports:
        - '8081:80' (Port from server 8080 to docker 80, you can modify the port from)
```

```
networks:
    - internal
volumes:
    - ./src:/var/www/html
    - ./default.conf:/etc/nginx/conf.d/default.conf
```

6. Up and build docker

```
docker-compose up -d --build
```

7. How to access

Access your service at browser [Your IP/HOST]:[Port From Docker]

example: 127.0.0.1:8080

