

## Lab 5

- Using apt , install nginx.

```
nada@Ubuntu:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
nada@Ubuntu:~$ sudo systemctl start nginx
nada@Ubuntu:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /lib/systemd/
systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
nada@Ubuntu:~$ 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:
   Active: active (running) since Tue 2023-04-11 14:01:56 EET; 1min 47s ago
     Docs: man:nginx(8)
   Main PID: 4208 (nginx)
```

- Enable port 80 on the firewall.

```
nada@Ubuntu:~$ sudo ufw allow 80/tcp
Rule added
Rule added (v6)
nada@Ubuntu:~$ sudo ufw status
Status: active
```

To	Action	From
--	-----	----
20/tcp	DENY	Anywhere
2/tcp	DENY	Anywhere
21/tcp	DENY	Anywhere
2049/tcp	ALLOW	Anywhere
2049/udp	ALLOW	Anywhere
80/tcp	ALLOW	Anywhere
20/tcp (v6)	DENY	Anywhere (v6)
2/tcp (v6)	DENY	Anywhere (v6)
21/tcp (v6)	DENY	Anywhere (v6)
2049/tcp (v6)	ALLOW	Anywhere (v6)
2049/udp (v6)	ALLOW	Anywhere (v6)
80/tcp (v6)	ALLOW	Anywhere (v6)

- Create index.html file on root directory of the server section and test it.

```
nada@Ubuntu:~$ sudo systemctl restart nginx
Job for nginx.service failed because the control process exited with error code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for details.
nada@Ubuntu:~$ sudo nano /var/www/html/index.html
```

- Install php-fpm package.

```
nada@Ubuntu:~$ sudo apt install php-fpm
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

- configure main site to enable php-fpm.

```
nada@Ubuntu:~$ sudo nano /etc/nginx/sites-available/default
GNU nano 6.2 /etc/nginx/sites-available/default
##
add: location ~ /\.php$ {
    include snippets/fastcgi-php.conf;
    fastcgi_pass unix:/var/run/php/php8.1-fpm.sock;
}
# You should look at the following URL's in order to grasp a solid understanding
```

- create index.php file and test it.

```
nada@Ubuntu:~$ sudo systemctl restart nginx
Job for nginx.service failed because the control process exited with error code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for details.
nada@Ubuntu:~$ sudo nano /var/www/html/index.php
<html>
  <body>
    <h1> Hii </h1>
  </body>
</html>
```