Lab 5

- **Using apt , install nginx**

```
mariamkhaled@ubuntu22:~$ sudo apt update
mariamkhaled@ubuntu22:~$ sudo apt install nginx
mariamkhaled@ubuntu22:~$ sudo systemctl start nginx
mariamkhaled@ubuntu22:~$ 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
mariamkhaled@ubuntu22:~$ 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 15:24:19 EET; 2min 27s ago
       Docs: man:nginx(8)
```

- **Enable port 80 on the firewall**

```
mariamkhaled@ubuntu22:~$ sudo ufw allow 80/tcp
Rule added
Rule added (v6)
mariamkhaled@ubuntu22:~$ sudo ufw status
Status: active

To                         Action      From
--                         ------      ----
Apache                     ALLOW       Anywhere
20/tcp                     DENY        Anywhere
```

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

```
mariamkhaled@ubuntu22:~$ cd /var/www/html
mariamkhaled@ubuntu22:/var/www/html$ sudo nano index.html
mariamkhaled@ubuntu22:/var/www/html$ 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:>
```

- **Install php-fpm package**

```
mariamkhaled@ubuntu22:/var/www/html$ sudo apt install php-fpm
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
```

- **configure main site to enable php-fpm**

```
        location ~ \.php$ {
                include snippets/fastcgi-php.conf;
                fastcgi_pass unix:/var/run/php/php8.1-fpm.sock;
        }
```

- **create index.php file and test it.**

```
mariamkhaled@ubuntu22:~$ sudo systemctl restart nginx
mariamkhaled@ubuntu22:~$ sudo nano /var/www/html/index.php
mariamkhaled@ubuntu22:~$
```

```
  GNU nano 6.2                    /var/www/html/index.php *
<?php echo "Mariam"; ?>
```

← → C   ○ ▭ localhost/index.php

Mariam