

Lab 5

1. Using apt , install nginx

```
sudo apt update
sudo apt install nginx
```

```
hager@ubuntu22:~$ sudo systemctl start nginx
hager@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
hager@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 14:55:47 EET; 48s ago
     Docs: man:nginx(8)
    Main PID: 2800 (nginx)
      Tasks: 2 (limit: 4621)
    Memory: 3.4M
       CPU: 23ms
```

2. Enable port 80 on the firewall

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

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

```
hager@ubuntu22:~$ cd /var/www/html
hager@ubuntu22:/var/www/html$ sudo nano index.html
hager@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:
   Active: active (running) since Tue 2023-04-11 14:55:47 EET; 1h 55m
```

4. Install php-fpm package

```
hager@ubuntu22:/var/www/html$ sudo apt install php-fpm
```

5. configure main site to enable php-fpm

```
hager@ubuntu22:/var/www/html$ sudo nano /etc/nginx/sites-available/default
#}
location ~ \.php$ {
    include snippets/fastcgi-php.conf;
    fastcgi_pass unix:/var/run/php/php8.1-fpm.sock;
}
# deny access to .htaccess files, if Apache's document root
```

6. create index.php file and test it.

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

```
GNU nano 6.2 /var/www/html/index.php
?php echo "hager khaled"; ?>
```

hager@ubuntu22: ~

