

LAB 5

- 1- Using apt , install nginx


```
tahoun@tahoun-VirtualBox:~$ sudo apt install nginx
[sudo] password for tahoun:
Reading package lists... Done
Building dependency tree... Done
```

- 2- Enable port 80 on the firewall

```
tahoun@tahoun-VirtualBox:~$ sudo ufw allow 80/tcp
[sudo] password for tahoun:
Rule added
Rule added (v6)
```

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

```
tahoun@tahoun-VirtualBox:~$ sudo systemctl start nginx
tahoun@tahoun-VirtualBox:~$ cd /var/www/html/
tahoun@tahoun-VirtualBox:/var/www/html$ nano index.html
tahoun@tahoun-VirtualBox:/var/www/html$ sudo nano index.html
tahoun@tahoun-VirtualBox:/var/www/html$
```



A screenshot of a web browser window with the address bar showing 'localhost'. The page content displays 'welcome To nginx' in a bold, black, sans-serif font.

- 4- Install php-fpm package

```
tahoun@tahoun-VirtualBox:/var/www/html$ sudo apt install php-fpm
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

- 5- configure main site to enable php-fpm

```
tahoun@tahoun-VirtualBox:/var/www/html$ sudo nano /etc/nginx/sites-available/default
#
location ~ \.php$ {
    include snippets/fastcgi-php.conf;

    #
    # With php-fpm (or other unix sockets):
    fastcgi_pass unix:/run/php/php8.1-fpm.sock;
    #
    # With php-cgi (or other tcp sockets):
    fastcgi_pass 127.0.0.1:9000;
}
```

6- create `index.php` file and test it.



The image shows a terminal window and a web browser side-by-side. The terminal window, titled 'tahoun@tahoun-VirtualBox: /var/www/html', shows the following commands and output:

```
GNU nano 6.2 index.php
<?php echo "welcome to your PHP file ";
?>
```

The web browser, showing the address '127.0.0.1/index.php', displays the output of the PHP script: 'welcome to your PHP file'.

```
tahoun@tahoun-VirtualBox: /var/www/html$ sudo nano index.php
tahoun@tahoun-VirtualBox: /var/www/html$ sudo service nginx restart
tahoun@tahoun-VirtualBox: /var/www/html$
```