

## **Lab4 Objectives:**

### **1. Using apt install apache2 server**

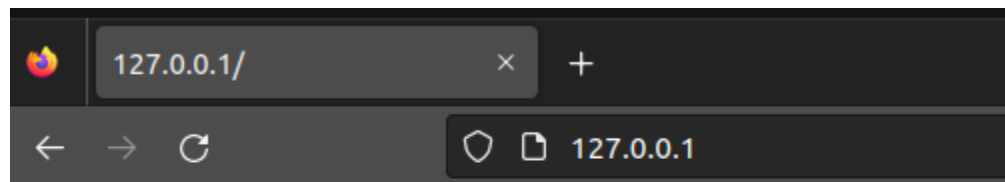
- command:
  - Using apt install apache2 server
  - sudo systemctl start apache2
- screen shot:

```
mariam@mariam-VirtualBox:~/Desktop$ sudo apt install apache2  
[sudo] password for mariam:
```

```
mariam@mariam-VirtualBox:~/Desktop$ sudo systemctl start apache2
```

### **2. Replace the default index.html content with your own content**

- commands:
  - cd /var/www/html
  - sudo nano myFile.html
  - sudo mv myFile.html index.html
  - sudo systemctl restart apache2
- screen shot:



# **Hello World !!**

**Matiam Mokhtar**

### 3. install php module for apache2

- commands:
  - `sudo apt install libapache2-mod-php`
- screen shot:

```
mariam@mariam-VirtualBox:/var/www/html$ sudo apt install libapache2-mod-php
```

### 4. create new Named VirtualHost to serve new php project with special access log

### 5. create simple index.php file for the php site

### 6. configure /etc/hosts for php site.

- commands:
  - `sudo mkdir ITI_admin_2_Lab4`
  - `sudo nano ITI_admin_2_Lab4/index.php`
  - `sudo nano /etc/apache2/sites-available/ITI_admin_2_Lab4.conf`
  - `sudo a2ensite ITI_admin_2_Lab4.conf`
  - `sudo systemctl reload apache2`
- screen shot:

```
mariam@mariam-VirtualBox: /var/www/html
GNU nano 6.2 ITI_admin_2_Lab4/index.php
<?php
echo "Hello World !";?>
```

```
mariam@mariam-VirtualBox: /var/www/html
GNU nano 6.2 /etc/apache2/sites-available/ITI_admin_2_Lab4.conf
configuration:
<VirtualHost *:80>
    ServerName ITI_admin_2_Lab4.local
    DocumentRoot /var/www/html/ITI_admin_2_Lab4

    ErrorLog /var/log/apache2/ITI_admin_2_Lab4.error.log
    CustomLog /var/log/apache2/ITI_admin_2_Lab4.access.log combined

    <Directory /var/www/html/ITI_admin_2_Lab4>
        AllowOverride All
        Require all granted
    </Directory>
</VirtualHost>
```

```

mariam@mariam-VirtualBox:/var/www/html$ sudo mkdir ITI_admin_2_Lab4
mariam@mariam-VirtualBox:/var/www/html$ sudo nano ITI_admin_2_Lab4/index.php
mariam@mariam-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/ITI_admin_2_Lab4.conf
mariam@mariam-VirtualBox:/var/www/html$ sudo a2ensite ITI_admin_2_Lab4.conf
Enabling site ITI_admin_2_Lab4.
To activate the new configuration, you need to run:
  systemctl reload apache2
mariam@mariam-VirtualBox:/var/www/html$ sudo systemctl reload apache2
Job for apache2.service failed.
See "systemctl status apache2.service" and "journalctl -xeu apache2.service" for details.

```



## 7. disable directory listing for the new virtualhost

- commands:
  - `sudo nano /etc/apache2/sites-available/ITI_admin_2_Lab4.conf`
- screen shot:

```

mariam@mariam-VirtualBox: /var/
GNU nano 6.2 /etc/apache2/sites-available/ITI
configuration:
<VirtualHost *:80>
  ServerName ITI_admin_2_Lab4.local
  DocumentRoot /var/www/html/ITI_admin_2_Lab4

  ErrorLog /var/log/apache2/ITI_admin_2_Lab4.error.log
  CustomLog /var/log/apache2/ITI_admin_2_Lab4.access.log combined

  <Directory /var/www/html/ITI_admin_2_Lab4>
    AllowOverride All
    Require all granted
  </Directory>
</VirtualHost>

```