

Lab4 Objectives:

1. Using apt install apache2 server

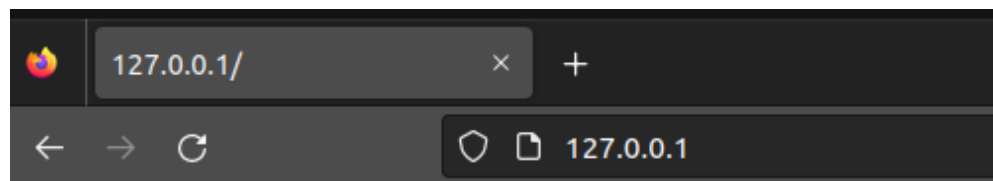
- command:
 - Using apt install apache2 server
 - sudo systemctl start apache2
- screen shot:

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

```
marian@marian-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$ sudo nano ITI_admin_2_Lab4/index.php
GNU nano 6.2 ITI_admin_2_Lab4/index.php
<?php
echo "Hello World !";?>
```

```
mariam@mariam-VirtualBox: /var/www/html$ sudo nano /etc/apache2/sites-available/ITI_admin_2_Lab4.conf
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:

```

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>
    Options -Indexes
    AllowOverride All
    Require all granted
  </Directory>
</VirtualHost>

```