

System Admin II Lab

Lab Objectives:

- Using apt install apache2 server

```
omarwalid@omarwalid-VirtualBox:~$ sudo apt install apache2
[sudo] password for omarwalid:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu4.4).
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2 libllvm13
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 16 not upgraded.
```

- Replace the default index.html content with your own content



Welcome to system admin lab4

- install php module for apache2

```
omarwalid@omarwalid-VirtualBox:~$ sudo apt install libapache2-mod-php
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2 libllvm13
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libapache2-mod-php8.1 php-common php8.1-cli php8.1-common php8.1-opcache
  php8.1-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php8.1 php-common php8.1-cli
  php8.1-common php8.1-opcache php8.1-readline
```

- create new Named VirtualHost to serve new php project with special access log

```
GNU nano 6.2                                omar1.conf
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) the
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html
```

- create simple index.php file for the php site

```
GNU nano 6.2                                index.php *
<? php
echo"welcome from system admin lab4";
?>
```

- configure /etc/hosts for php site.

```
127.0.0.1                                systemadmin.local
```

- disable directory listing for the new virtualhost

```
GNU nano 6.2                                systemAdmin.conf
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the Server
    # specifies what hostname must appear in the request's Host: header
    # match this virtual host. For the default virtual host (this file)
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerName www.systemadmin.local
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html/systemadmin

    Options -Indexes
```