Admin2 Lab

1-install apache

```
radwa@radwa-VirtualBox:~$ sudo service apache2 status
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor prese>
     Active: active (running) since Thu 2023-02-23 10:24:01 EST; 1 month 13 day>
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 846 (apache2)
      Tasks: 55 (limit: 13071)
     Memory: 8.0M
        CPU: 2.320s
     CGroup: /system.slice/apache2.service
             ├─  846 /usr/sbin/apache2 -k start
             ├─55678 /usr/sbin/apache2 -k start
             └─55679 /usr/sbin/apache2 -k start

Feb 23 10:24:00 radwa-VirtualBox systemd[1]: Starting The Apache HTTP Server...
Feb 23 10:24:01 radwa-VirtualBox apachectl[835]: AH00558: apache2: Could not re>
Feb 23 10:24:01 radwa-VirtualBox systemd[1]: Started The Apache HTTP Server.
Apr 08 06:30:42 radwa-VirtualBox systemd[1]: Reloading The Apache HTTP Server...
Apr 08 06:30:42 radwa-VirtualBox apachectl[55676]: AH00558: apache2: Could not >
Apr 08 06:30:42 radwa-VirtualBox systemd[1]: Reloaded The Apache HTTP Server.
lines 1-19/19 (END)
```

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

```
radwa@radwa-VirtualBox:/var/www/html$ sudo nano myindex.html
radwa@radwa-VirtualBox:/var/www/html$ sudo mv myindex.html index.html
radwa@radwa-VirtualBox:/var/www/html$ sudo systemctl restart apache2
radwa@radwa-VirtualBox:/var/www/html$
```


hi everyone

3-install php module for apache2

```
radwa@radwa-VirtualBox:/var/www/html$ sudo apt install libapache2-mod-php
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
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
0 upgraded, 7 newly installed, 0 to remove and 106 not upgraded.
Need to get 5,118 kB of archives.
After this operation, 21.3 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 php-common all 2:92ub
untu1 [12.4 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-common
 amd64 8.1.2-1ubuntu2.11 [1,126 kB]
```

4-create new Named VirtulHost to serve new php project with special access log create simple index.php file for the php site

```
  GNU nano 6.2              /etc/apache2/sites-available/projectPhp
Configuration:
<VirtualHost *:80>
    ServerName myproject.local
    DocumentRoot /var/www/html/myproject

    ErrorLog /var/log/apache2/myproject-error.log
    CustomLog /var/log/apache2/myproject-access.log combined

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

```
radwa@radwa-VirtualBox:/var/www/html/projectPhp$ sudo nano index.php
radwa@radwa-VirtualBox:/var/www/html/projectPhp$ sudo nano /etc/apache2/sites-av
ailable/projectPhp
radwa@radwa-VirtualBox:/var/www/html/projectPhp$ sudo nano /etc/hosts
radwa@radwa-VirtualBox:/var/www/html/projectPhp$
```

← → C   ○ 🔒 projectphp.local

hi everyone

5-disable directory listing for the new virtualhost

```
  GNU nano 6.2        /etc/apache2/sites-available/projectPhp.conf *
<VirtualHost *:80>
    ServerName myproject.local
    DocumentRoot /var/www/html/myproject

    ErrorLog /var/log/apache2/myproject-error.log
    CustomLog /var/log/apache2/myproject-access.log combined

    <Directory /var/www/html/myproject>
        Options -Indexes
        AllowOverride All
        Require all granted
    </Directory>
</VirtualHost>
```