Lab 4

- Using `apt` install `apache2` server

```
nada@Ubuntu:~$ sudo apt install apache2
[sudo] password for nada:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nada@Ubuntu:~$ sudo systemctl start apache2
```

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

```
nada@Ubuntu:~$ cd /var/www/html
nada@Ubuntu:/var/www/html$ sudo nano newhtml.html
nada@Ubuntu:/var/www/html$ sudo mv newhtml.html index.html
nada@Ubuntu:/var/www/html$ sudo systemctl start apache2
```

- install `php` module for `apache2`

```
nada@Ubuntu:/var/www/html$ 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 requ
ired:
```

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

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

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

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

- create simple `index.php` file for the php site

```
nada@Ubuntu:~$ sudo nano /var/www/html/myproj/index.php
  GNU nano 6.2                    /var/www/html/myproj/index.php
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```

- configure `/etc/hosts` for php site.

```
nada@Ubuntu:~$ sudo nano /etc/hosts
  GNU nano 6.2                              /etc/hosts
127.0.0.1         localhost
127.0.1.1         Ubuntu.myguest.virtualbox.org     Ubuntu
127.0.0.55        mywebsite
127.0.0.1         myproj
# The following lines are desirable for IPv6 capable hosts
::1       ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

← → C   ○ ▢ 127.0.0.1

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- disable directory listing for the new virtualhos

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

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

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