Install apache2 server

And start apache2

```
nehad@nehad-VirtualBox:~$ sudo apt install apache2
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:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi i965-va-driver
  intel-media-va-driver libaacs0 libaom3 libass9 libavcodec58 libavformat58
  libavutil56 libbdplus0 libbluray2 libbs2b0 libchromaprint1 libcodec2-1.0
  libdav1d5 libflite1 libgme0 libgsm1 libgstreamer-plugins-bad1.0-0
  libigdgmm12 liblilv-0-0 libllvm15 libmfx1 libmysofa1 libnorm1 libopenmpt0
  libpgm-5.3-0 libpostproc55 librabbitmq4 librubberband2 libserd-0-0
  libshine3 libsnappy1v5 libsord-0-0 libsratom-0-0 libsrt1.4-gnutls
  libssh-gcrypt-4 libswresample3 libswscale5 libudfread0 libva-drm2
  libva-wayland2 libva-x11-2 libva2 libvdpau1 libvidstab1.1 libx265-199
  libxvidcore4 libzimg2 libzmq5 libzvbi-common libzvbi0 mesa-va-drivers
  mesa-vdpau-drivers pocketsphinx-en-us va-driver-all vdpau-driver-all
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 208 not upgraded.
nehad@nehad-VirtualBox:~$ sudo systemctl start apache2
```

Replace the default index content with your own content

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

Install php module for apache2

```
nehad@nehad-VirtualBox:/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 required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi i965-va-driver
  intel-media-va-driver libaacs0 libaom3 libass9 libavcodec58 libavformat58
  libavutil56 libbdplus0 libbluray2 libbs2b0 libchromaprint1 libcodec2-1.0
  libdav1d5 libflite1 libgme0 libgsm1 libgstreamer-plugins-bad1.0-0
  libigdgmm12 liblilv-0-0 libllvm15 libmfx1 libmysofa1 libnorm1 libopenmpt0
  libpgm-5.3-0 libpostproc55 librabbitmq4 librubberband2 libserd-0-0
  libshine3 libsnappy1v5 libsord-0-0 libsratom-0-0 libsrt1.4-gnutls
  libssh-gcrypt-4 libswresample3 libswscale5 libudfread0 libva-drm2
  libva-wayland2 libva-x11-2 libva2 libvdpau1 libvidstab1.1 libx265-199
  libxvidcore4 libzimg2 libzmq5 libzvbi-common libzvbi0 mesa-va-drivers
  mesa-vdpau-drivers pocketsphinx-en-us va-driver-all vdpau-driver-all
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
```

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

```
nehad@nehad-VirtualBox:/etc/apache2/sites-available$ ls
000-default.conf   001-default.conf   Admin4.conf   default-ssl.conf
nehad@nehad-VirtualBox:/etc/apache2/sites-available$ sudo cp 001-default.conf 0
01-nehad.com
nehad@nehad-VirtualBox:/etc/apache2/sites-available$ ls
000-default.conf   001-nehad.com   default-ssl.conf
001-default.conf   Admin4.conf
nehad@nehad-VirtualBox:/etc/apache2/sites-available$
```

```
  GNU nano 6.2                              /etc/hosts
127.0.0.1          localhost
127.0.1.1          nehad.com

# 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
```

create simple index.php file for the php site

```
nehad@nehad-VirtualBox:/var/www/html$ sudo nano index.php
```

```
echo '<?php
echo "Hello";'>
```

configure /etc/hosts for php site.

```
nehad@nehad-VirtualBox:/var/www/html$ cat /etc/hosts
127.0.0.1          localhost
127.0.1.1          nehad.com

# 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
```

disable directory listing for the new virtualhost

<Directory>Option-indexes</Directory>