- Using `apt` , install `nginx`

```
muhammad@muhammad-Virtual-Machine:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  apache2-bin apache2-data apache2-utils dctrl-tools dmeventd dmraid
  dpkg-repack gir1.2-timezonemap-1.0 gir1.2-xkl-1.0 kpartx kpartx-boot libaio1
  libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  libdebian-installer4 libdevmapper-event1.02.1 libdmraid1.0.0.rc16
  libdpkg-perl libfile-fcntllock-perl liblvm2cmd2.03 libqt5designer5
  libqt5help5 libqt5positioning5 libqt5sensors5 libqt5test5 libqt5webchannel5
  libqt5webkit5 libtimezonemap-data libtimezonemap1 lvm2
  python3-dbus.mainloop.pyqt5 python3-icu python3-pam python3-pyqt5
  python3-pyqt5.qtsvg python3-pyqt5.qtwebkit python3-pyqt5.sip rdate
  thin-provisioning-tools
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx-common nginx-core
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter
```

- Enable port 80 on the firewall

```
muhammad@muhammad-Virtual-Machine:~$ sudo ufw enable
Firewall is active and enabled on system startup
muhammad@muhammad-Virtual-Machine:~$ sudo ufw allow 80/tcp
Rule added
Rule added (v6)
muhammad@muhammad-Virtual-Machine:~$
```

- Create `index.html` file on root directory of the server section and test it


```
muhammad@muhammad-Virtual-Machine: /var/www/html
muhammad@muhammad-Virtual-Machine:~$ sudo systemctl start nginx
muhammad@muhammad-Virtual-Machine:~$ cd /var/www/html
muhammad@muhammad-Virtual-Machine:/var/www/html$ sudo nano index.html
muhammad@muhammad-Virtual-Machine:/var/www/html$
```



```
muhammad@muhammad-Virtual-Machine: /var/www/html
  GNU nano 6.2                        index.html
<h1> Hi i am Muhammad Ashraf </h1>




                           [ Read 1 line ]
^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

Hi i am Muhammad Ashraf

- Install php-fpm package

```
muhammad@muhammad-Virtual-Machine:/var/www/html$ sudo apt install php-fpm
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  apache2-bin apache2-data apache2-utils dctrl-tools dmeventd dmraid dpkg-repack
  gir1.2-timezonemap-1.0 gir1.2-xkl-1.0 kpartx kpartx-boot libaio1 libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libdebian-installer4 libdevmapper-event1.02.1
  libdmraid1.0.0.rc16 libdpkg-perl libfile-fcntllock-perl liblvm2cmd2.03 libqt5designer5
  libqt5help5 libqt5positioning5 libqt5sensors5 libqt5test5 libqt5webchannel5
  libqt5webkit5 libtimezonemap-data libtimezonemap1 lvm2 python3-dbus.mainloop.pyqt5
  python3-icu python3-pam python3-pyqt5 python3-pyqt5.qtsvg python3-pyqt5.qtwebkit
  python3-pyqt5.sip rdate thin-provisioning-tools
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  php-common php8.1-cli php8.1-common php8.1-fpm php8.1-opcache php8.1-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  php-common php-fpm php8.1-cli php8.1-common php8.1-fpm php8.1-opcache php8.1-readline
0 upgraded, 7 newly installed, 0 to remove and 456 not upgraded.
Need to get 5,193 kB of archives.
```

- configure main site to enable `php-fpm`

```
muhammad@muhammad-Virtual-Machine:/var/www/html$ sudo nano /etc/nginx/sites-available/default
muhammad@muhammad-Virtual-Machine:/var/www/html$
```

```
  GNU nano 6.2                    /etc/nginx/sites-available/default
        # pass PHP scripts to FastCGI server
        #
        location ~ \.php$ {
                include snippets/fastcgi-php.conf;
        #
        #       # With php-fpm (or other unix sockets):
                fastcgi_pass unix:/run/php/php8.1-fpm.sock;
        #       # With php-cgi (or other tcp sockets):
        #       fastcgi_pass 127.0.0.1:9000;
        }

        # deny access to .htaccess files, if Apache's document root
        # concurs with nginx's one
        #
        #location ~ /\.ht {
        #       deny all;
        #}
}
                              [ Wrote 91 lines ]
^G Help        ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location
^X Exit        ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line
```
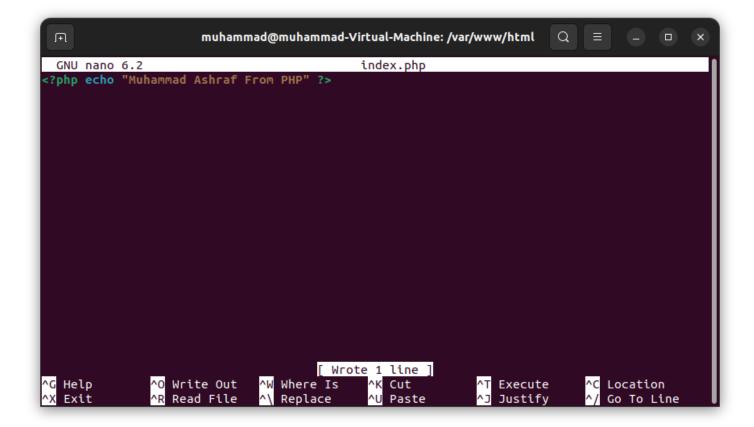
- create `index.php` file and test it.

Muhammad Ashraf From PHP