

Lab 5 System Admin 2

- Using apt , install nginx.

```
vboxuser@Ubuntu:~$ sudo systemctl stop apache2
[sudo] password for vboxuser:
vboxuser@Ubuntu:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
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
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx nginx-common nginx-core
0 upgraded, 9 newly installed, 0 to remove and 259 not upgraded.
Need to get 696 kB of archives.
After this operation, 2,395 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 nginx-common
  all 1.18.0-6ubuntu14.3 [40.0 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnginx-mod
  -http-geoip2 amd64 1.18.0-6ubuntu14.3 [11.9 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnginx-mod
  -http-image-filter amd64 1.18.0-6ubuntu14.3 [15.4 kB]
```

- Enable port 80 on the firewall.

```
vboxuser@Ubuntu:~$ sudo ufw allow 80/tcp
Rule added
Rule added (v6)
vboxuser@Ubuntu:~$
```

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

```
vboxuser@Ubuntu:/var/www/html$ sudo nano index.html
vboxuser@Ubuntu:/var/www/html$
```

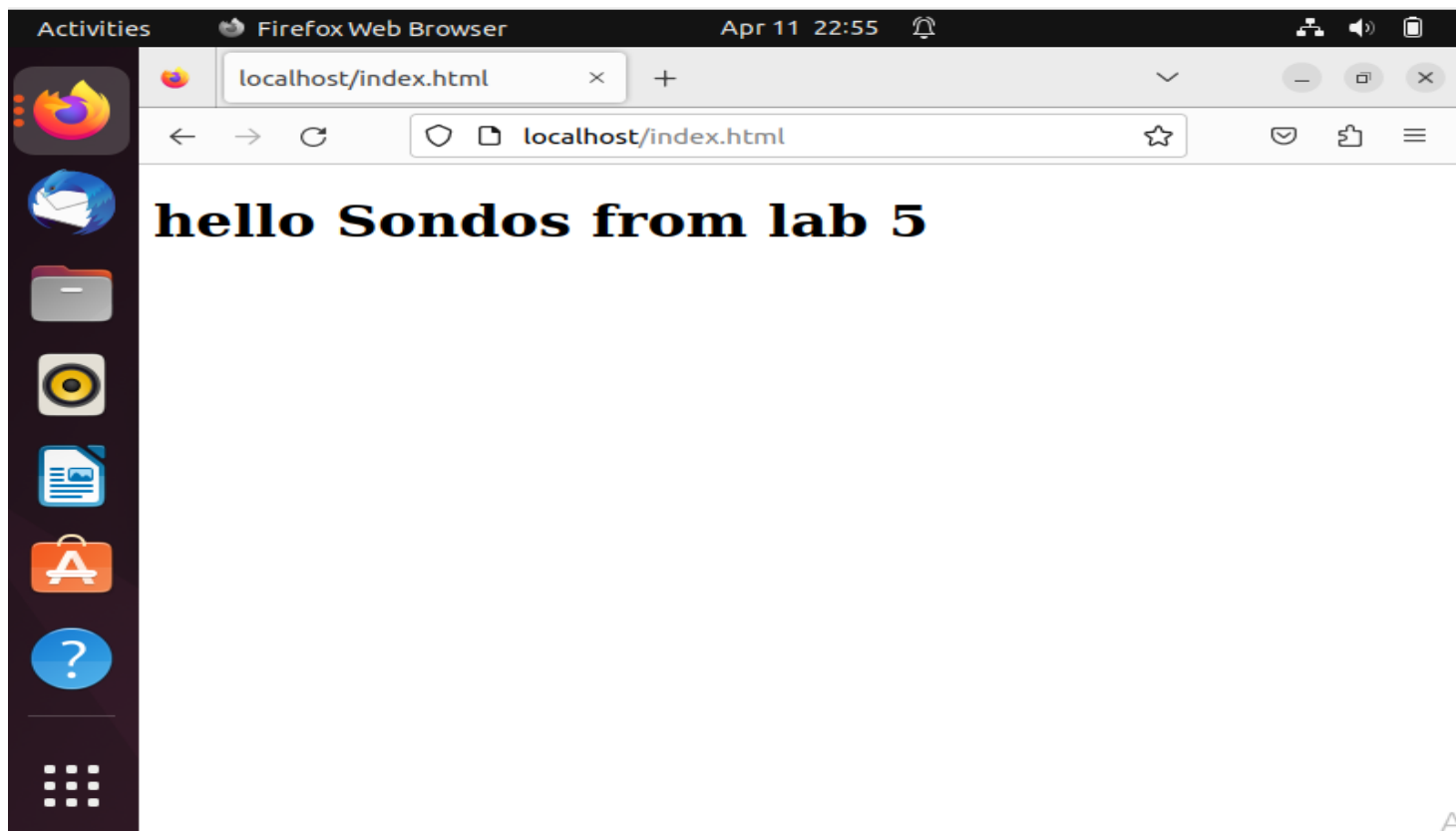
Activities Terminal Apr 11 22:56

vboxuser@Ubuntuu: /var/www/html

```
GNU nano 6.2 index.html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/1999/xhtml">
<html xmlns="http://www.w3.org/1999/xhtml">
  <!--
    Modified from the Debian original for Ubuntu
    Last updated: 2022-03-22
    See: https://launchpad.net/bugs/1966004
  -->
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title></title>
  </head>
  <body>
    <h1> hello Sondos from lab 5 </h1>
  </body>
</html>
```

[Read 15 lines]

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify



- Install php-fpm package.

```
vboxuser@Ubuntu:/var/www/html$ sudo apt install php-fpm
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  php8.1-fpm
Suggested packages:
  php-pear
The following NEW packages will be installed:
  php-fpm php8.1-fpm
0 upgraded, 2 newly installed, 0 to remove and 259 not upgraded.
Need to get 1,843 kB of archives.
After this operation, 5,634 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 php8.1-fpm amd64 8.1.2-1ubuntu2.11 [1,840 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 php-fpm all 2:8.1+92ubuntu1 [2,838 B]
Fetched 1,843 kB in 2s (1,081 kB/s)
Selecting previously unselected package php8.1-fpm.
(Reading database ... 233160 files and directories currently installed.)
Preparing to unpack .../php8.1-fpm_8.1.2-1ubuntu2.11_amd64.deb ...
Unpacking php8.1-fpm (8.1.2-1ubuntu2.11) ...
Selecting previously unselected package php-fpm.
Preparing to unpack .../php-fpm_2%3a8.1+92ubuntu1_all.deb ...
Unpacking php-fpm (2:8.1+92ubuntu1) ...
```

- configure main site to enable php-fpm.

```
vboxuser@Ubuntu:/var/www/html$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
vboxuser@Ubuntu:/var/www/html$
```

- create index.php file and test it.

A screenshot of a web browser's address bar. The address bar shows the URL 'localhost/index.php'. To the left of the address bar are navigation icons: a back arrow, a forward arrow, and a refresh/circular arrow icon. To the right of the address bar are icons for bookmarks, downloads, tabs, and a menu (three horizontal lines).

hello Sondos from lab 5