

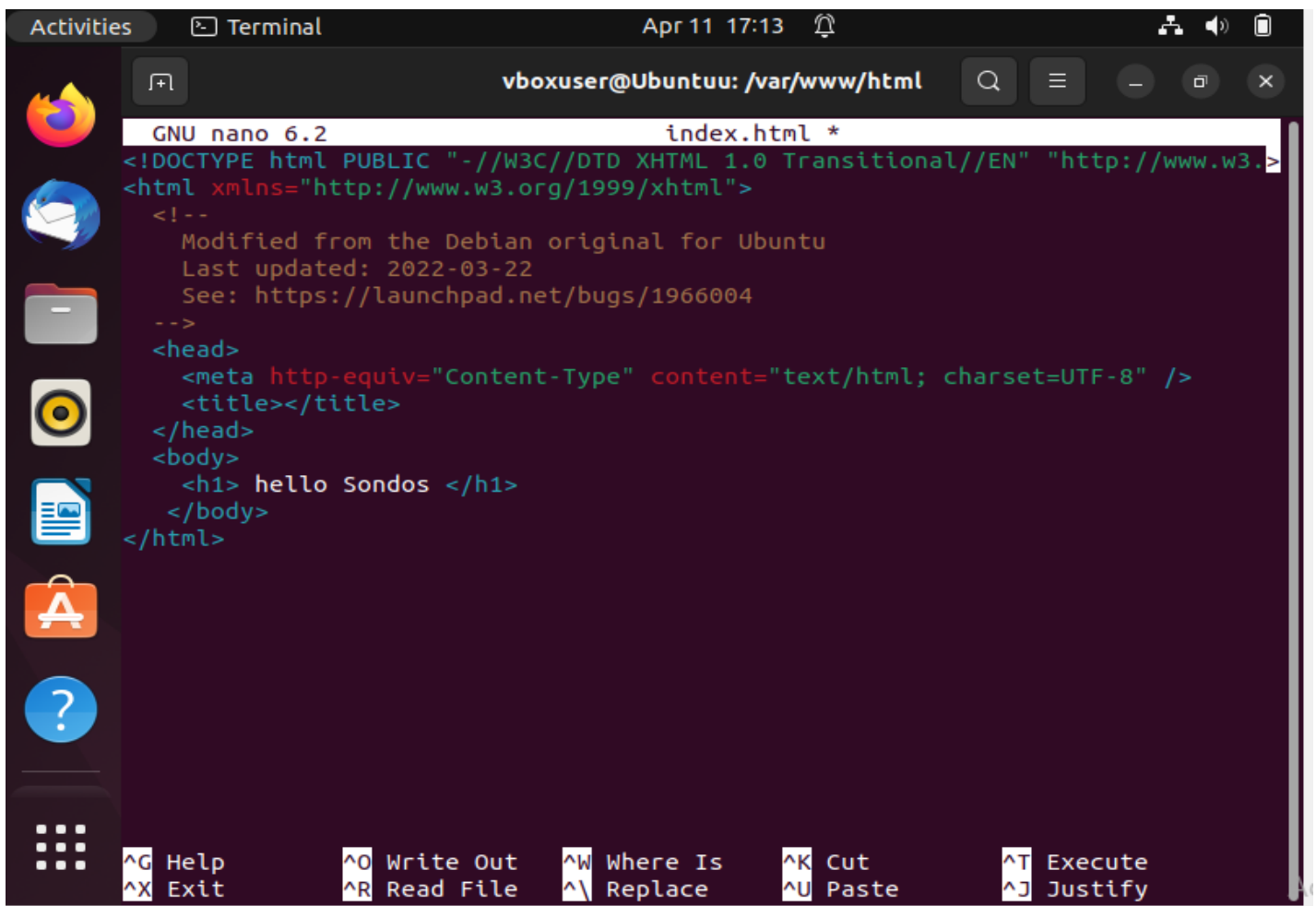
Lab 4 System Admin 2

- Using apt install apache2 server.

```
vboxuser@Ubuntu:~$ sudo apt install apache2
[sudo] password for vboxuser:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu4.3).
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 205 not upgraded.
vboxuser@Ubuntu:~$
```

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

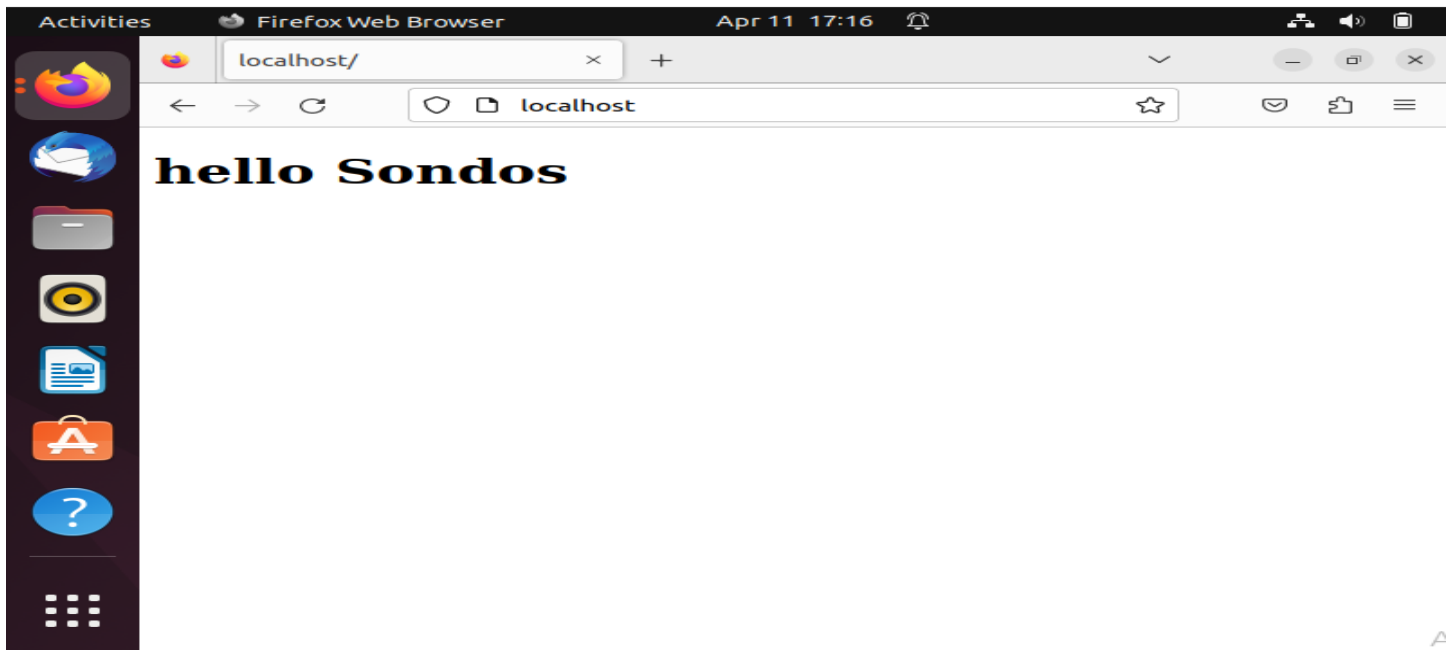
```
vboxuser@Ubuntu:/var/www/html$ ls
index.html  mywebsite
vboxuser@Ubuntu:/var/www/html$ sudo nano index.html
vboxuser@Ubuntu:/var/www/html$
```



The screenshot shows a terminal window with the nano text editor open, editing the file `index.html` in the directory `/var/www/html`. The editor's title bar reads "GNU nano 6.2 index.html *". The content of the file is as follows:

```
<!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 Sondas </h1>
  </body>
</html>
```

At the bottom of the terminal window, there is a status bar with various keyboard shortcuts: `^G Help`, `^X Exit`, `^O Write Out`, `^R Read File`, `^W Where Is`, `^K Replace`, `^C Cut`, `^U Paste`, `^T Execute`, and `^J Justify`.



- install php module for apache2.

```
vboxuser@Ubuntu:/var/www/html$ php -v
Command 'php' not found, but can be installed with:
apt install php-cli      # version 2:8.1+92ubuntu1, or
apt install php8.1-cli  # version 8.1.2-1ubuntu2.11
Ask your administrator to install one of them.
vboxuser@Ubuntu:/var/www/html$ sudo apt install libapache2-mod-php8.1
[sudo] password for vboxuser:
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:
  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-php8.1 php-common php8.1-cli php8.1-common php8.1-opcache
  php8.1-readline
0 upgraded, 6 newly installed, 0 to remove and 205 not upgraded.
Need to get 5,116 kB of archives.
After this operation, 21.2 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 2:92u
buntu1 [12.4 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-commo
n amd64 8.1.2-1ubuntu2.11 [1,126 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-opcac
```

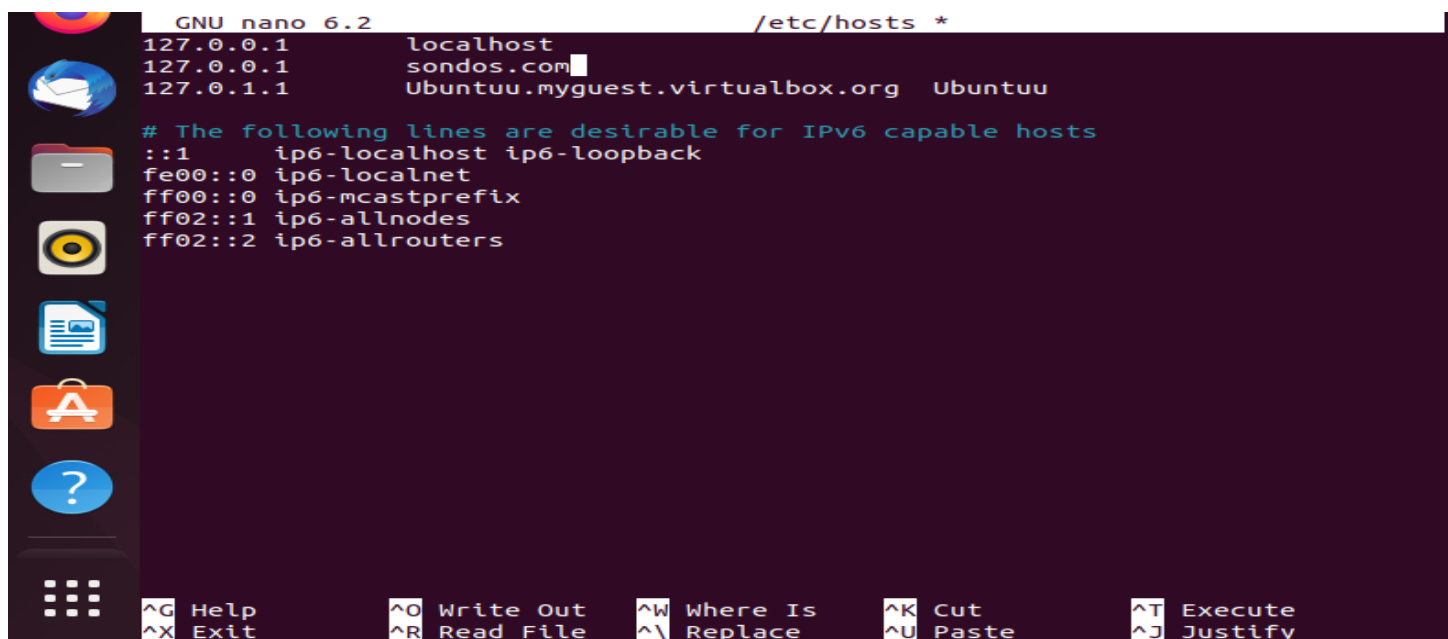
- create new Named VirtualHost to serve new php project with special access log.

```
vboxuser@Ubuntu:/etc/apache2/sites-available$ ls
000-default.conf  default-ssl.conf  gci.conf  html.conf
vboxuser@Ubuntu:/etc/apache2/sites-available$ sudo cp 000-default.conf 001-son
dos.conf
vboxuser@Ubuntu:/etc/apache2/sites-available$ ls
000-default.conf  001-sondos.conf  default-ssl.conf  gci.conf  html.conf
vboxuser@Ubuntu:/etc/apache2/sites-available$
```

```
vboxuser@Ubuntu:/var/www/html$ cat /etc/hosts
127.0.0.1      localhost
127.0.1.1      Ubuntu.myquest.virtualbox.org  Ubuntu

# 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
vboxuser@Ubuntu:/var/www/html$ sudo nano /etc/hosts
vboxuser@Ubuntu:/var/www/html$ cat /etc/hosts
127.0.0.1      localhost
127.0.0.1      sontos.com
127.0.1.1      Ubuntu.myquest.virtualbox.org  Ubuntu

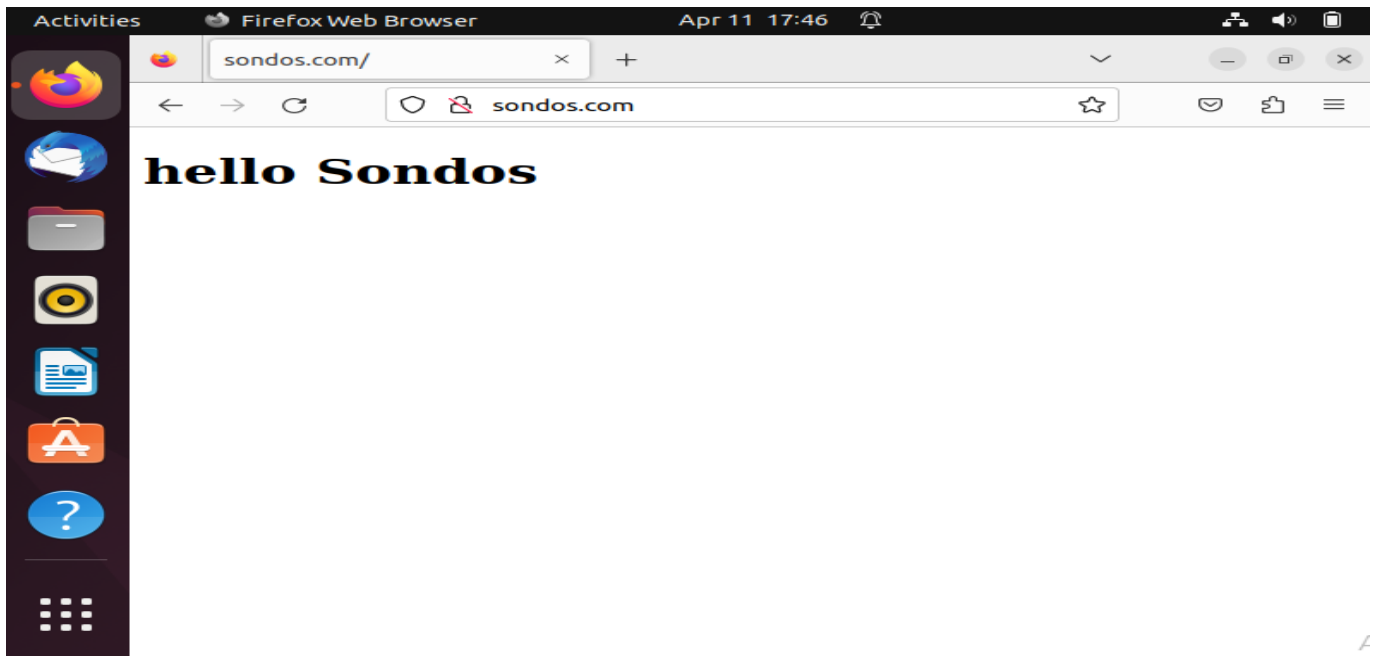
# The following lines are desirable for IPv6 capable hosts
::1          ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```



```
GNU nano 6.2 /etc/hosts *
127.0.0.1      localhost
127.0.0.1      sontos.com
127.0.1.1      Ubuntu.myquest.virtualbox.org  Ubuntu

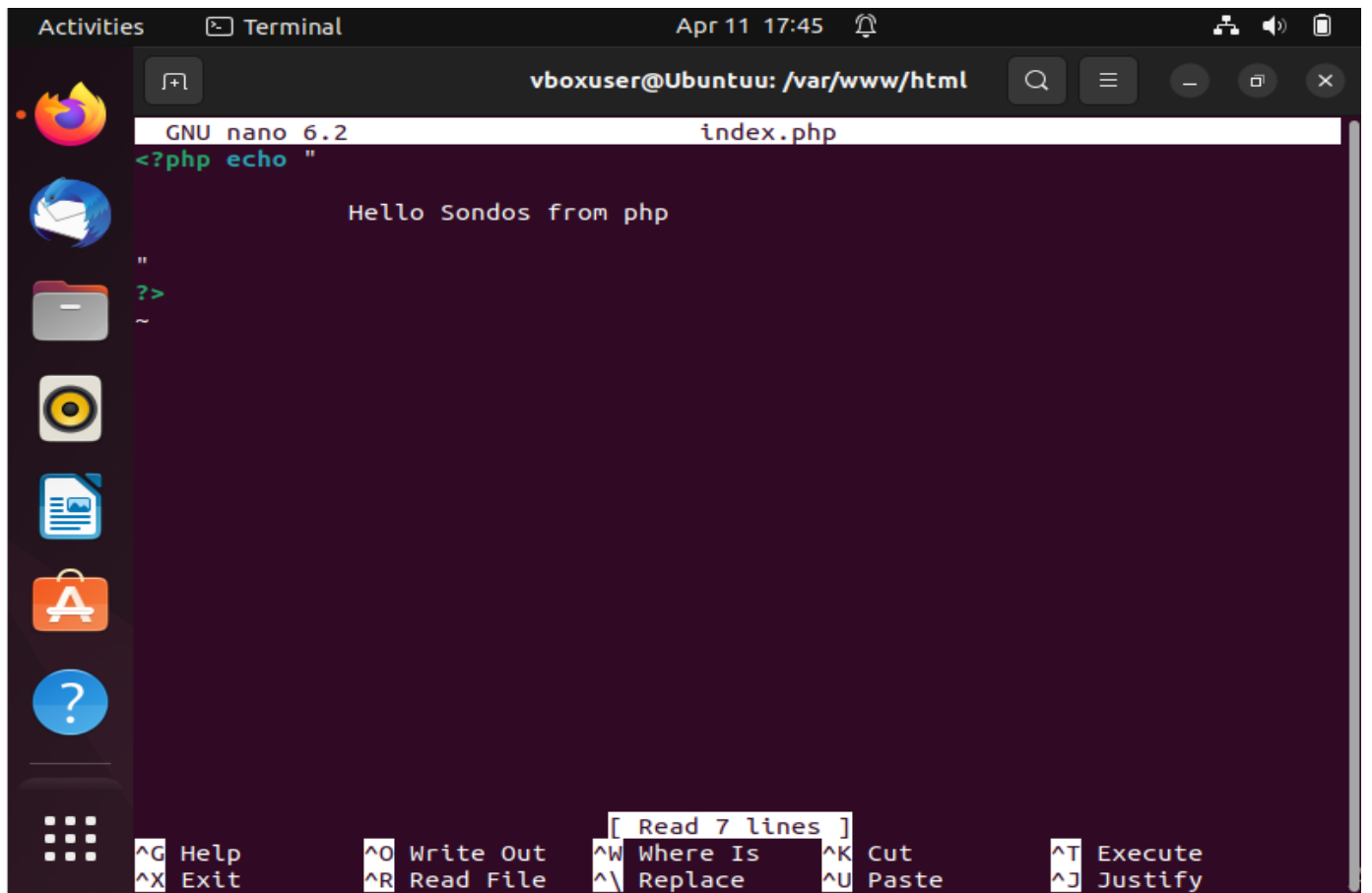
# The following lines are desirable for IPv6 capable hosts
::1          ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

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



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

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



- configure /etc/hosts for php site.

```
vboxuser@Ubuntu:/var/www/html$ cat /etc/hosts
127.0.0.1      localhost
127.0.0.1      sondos.com
127.0.1.1      Ubuntu.myguest.virtualbox.org  Ubuntu

# 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 /var/www/html/sondos>

Options-indexes

</Directory>