

Lab4

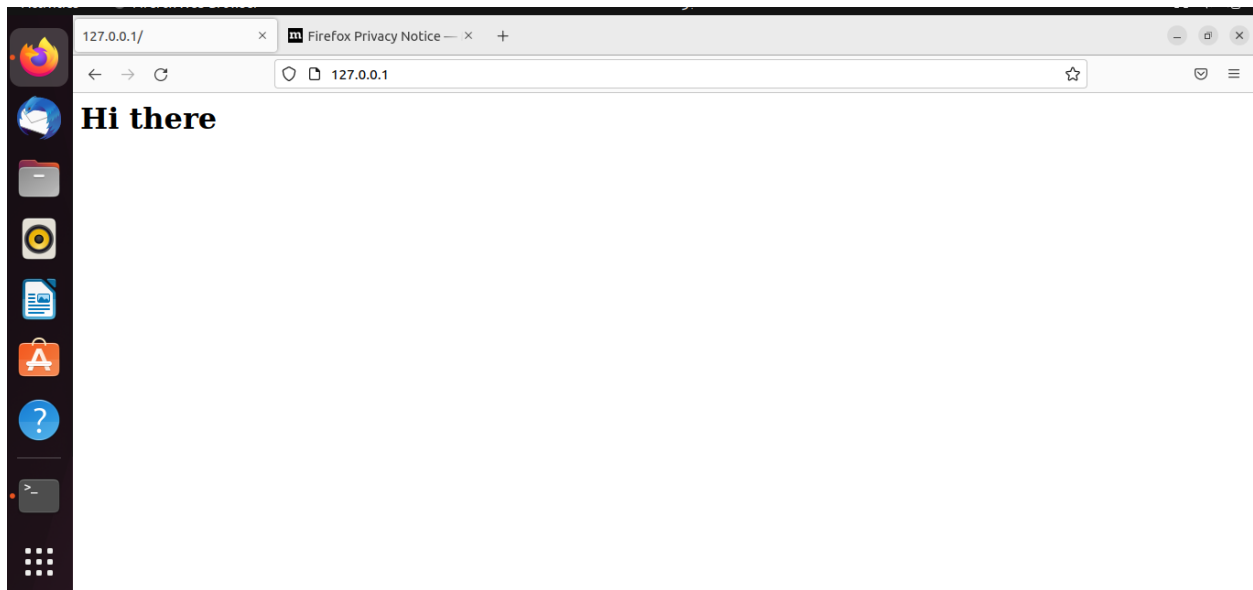
```
ahmed@ahmed-VirtualBox:~$ sudo apt install apache2
[sudo] password for ahmed:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap
0 upgraded, 8 newly installed, 0 to remove and 318 not upgraded.
Need to get 1,918 kB of archives.
After this operation, 7,706 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapr1 amd64 1.7.0-8ubuntu0.22.04.1 [108 kB]
Get:2 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1 amd64 1.6.1-Subuntu4.22.04.1 [92.6 kB]
Get:3 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-Subuntu4.22.04.1 [11.3 kB]
Get:4 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-ldap amd64 1.6.1-Subuntu4.22.04.1 [9,168 B]
Get:5 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-bin amd64 2.4.52-1ubuntu4.4 [1,345 kB]
Get:6 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-data all 2.4.52-1ubuntu4.4 [165 kB]
Get:7 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-utils amd64 2.4.52-1ubuntu4.4 [89.5 kB]
Get:8 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2 amd64 2.4.52-1ubuntu4.4 [97.8 kB]
Fetched 1,918 kB in 17s (113 kB/s)
Selecting previously unselected package libapr1:amd64.
(Reading database ... 196478 files and directories currently installed.)
Preparing to unpack .../0-libapr1_1.7.0-8ubuntu0.22.04.1_amd64.deb ...
Unpacking libapr1:amd64 (1.7.0-8ubuntu0.22.04.1) ...
```

```
ahmed@ahmed-VirtualBox:~$ sudo systemctl start apache2
ahmed@ahmed-VirtualBox:~$ cd /var/www/html
ahmed@ahmed-VirtualBox:/var/www/html$ sudo nano new.html
ahmed@ahmed-VirtualBox:/var/www/html$ sudo mv new.html index.html
ahmed@ahmed-VirtualBox:/var/www/html$ sudo systemctl restart apache2
ahmed@ahmed-VirtualBox:/var/www/html$ sudo apt install libapache2-mod-php
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:
  libapache2-mod-php8.1 php-common php8.1-cli php8.1-common php8.1-opcache
```

GNU nano 6.2

new.html *

```
<h1>Hi there</h1>
```



```
ahmed@ahmed-VirtualBox:/var/www/html$ sudo mkdir ADMINLAB
ahmed@ahmed-VirtualBox:/var/www/html$ sudo nano ADMINLAB/index.php
ahmed@ahmed-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/ADMINLAB.conf
ahmed@ahmed-VirtualBox:/var/www/html$ sudo systemctl reload apache2
ahmed@ahmed-VirtualBox:/var/www/html$ sudo a2ensite ADMINLAB.conf
Enabling site ADMINLAB.
To activate the new configuration, you need to run:
  systemctl reload apache2
ahmed@ahmed-VirtualBox:/var/www/html$ sudo systemctl reload apache2
Job for apache2.service failed.
See "systemctl status apache2.service" and "journalctl -xeu apache2.service" for details.
ahmed@ahmed-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/ADMINLAB.conf
ahmed@ahmed-VirtualBox:/var/www/html$
```

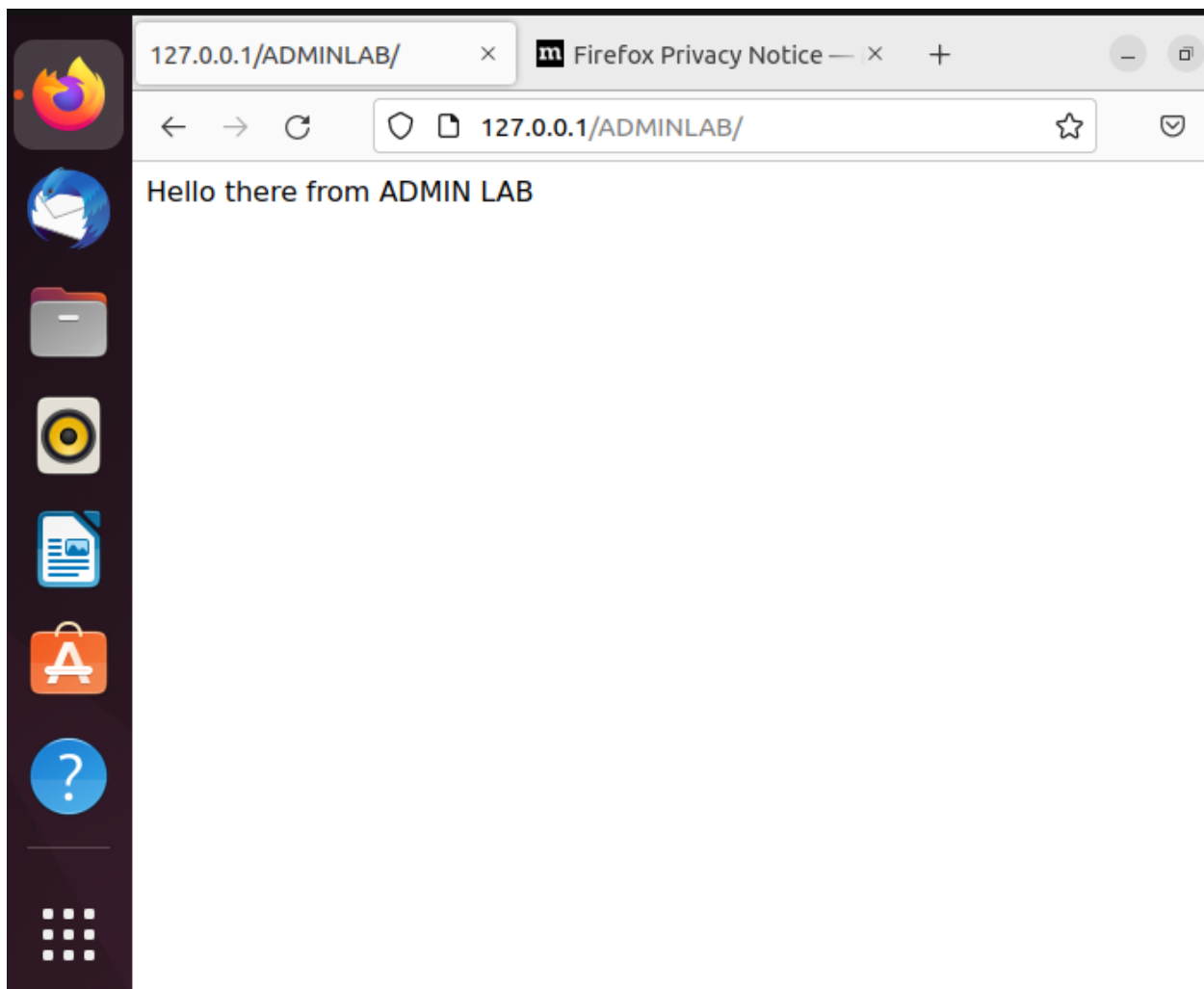


ahmed@ahmed-VirtualBox: /var/www/html

GNU nano 6.2

ADMINLAB/index.php

```
?php echo 'Hello there from ADMIN LAB';?>
```



```
ahmed@ahmed-VirtualBox: /var/www/html
GNU nano 6.2 /etc/apache2/sites-available/ADMINLAB.conf *
Confrigation:
<VirtualHost *:80>
  ServerNme ADMINLAB.local
  DocumentRoot /var/www/html/ADMINLAB

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

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

```
ahmed@ahmed-VirtualBox:/var/www/html$ sudo mkdir ADMINLAB
ahmed@ahmed-VirtualBox:/var/www/html$ sudo nano ADMINLAB/index.php
ahmed@ahmed-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/ADMINLAB.conf
ahmed@ahmed-VirtualBox:/var/www/html$ sudo systemctl reload apache2
ahmed@ahmed-VirtualBox:/var/www/html$ sudo a2ensite ADMINLAB.conf
Enabling site ADMINLAB.
To activate the new configuration, you need to run:
  systemctl reload apache2
ahmed@ahmed-VirtualBox:/var/www/html$ sudo systemctl reload apache2
Job for apache2.service failed.
See "systemctl status apache2.service" and "journalctl -xeu apache2.service" for details.
ahmed@ahmed-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/ADMINLAB.conf
ahmed@ahmed-VirtualBox:/var/www/html$
```

```
ahmed@ahmed-VirtualBox: /var/www/html
GNU nano 6.2 /etc/apache2/sites-available/ADMINLAB.conf *
Confrigation:
<VirtualHost *:80>
  ServerNme ADMINLAB.local
  DocumentRoot /var/www/html/ADMINLAB

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

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