

LAB 4

- **STEP-1:** Using apt install apache2 server

Commands

- `sudo apt install apache2`
- `sudo systemctl start apache2`

```
hager@hager-VirtualBox:~$ sudo apt install apache2
```

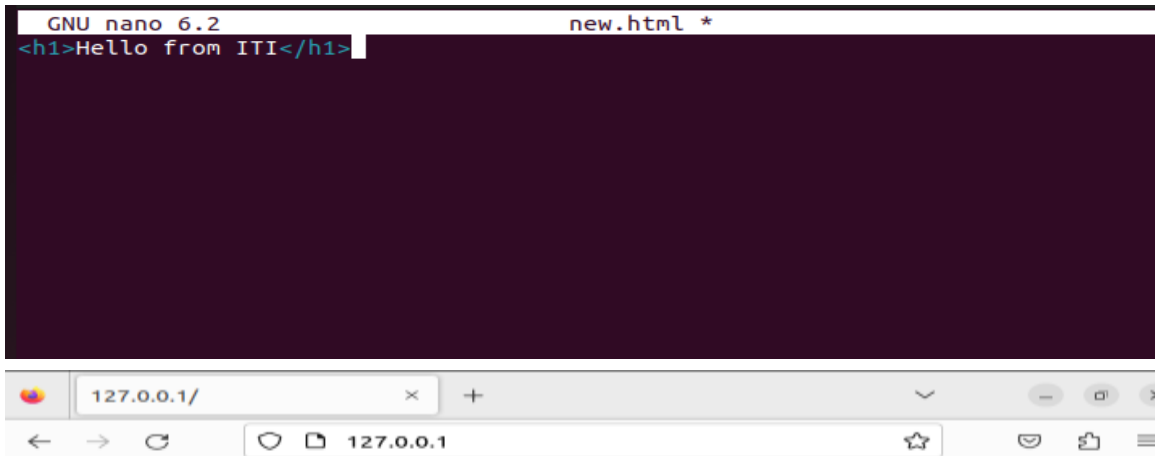
```
hager@hager-VirtualBox:~$ sudo systemctl start apache2
```

- **STEP-2:** Replace the default index.html content with your own content

Commands

- `cd /var/www/html`
- `sudo nano new.html`
- `sudo mv new.html index.html`
- `sudo systemctl restart apache2`

```
hager@hager-VirtualBox:~$ cd /var/www/html
hager@hager-VirtualBox:/var/www/html$ sudo nano new.html
hager@hager-VirtualBox:/var/www/html$ sudo mv new.html index.html
hager@hager-VirtualBox:/var/www/html$ sudo systemctl restart apache2
```



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- **STEP-3:** install php module for apache2

Commands

- `sudo apt install libapache2-mod-php`

```
hager@hager-VirtualBox:/var/www/html$ sudo apt install libapache2-mod-php
```

- **STEP-4:** create new Named VirtualHost to serve new php project with special access log , create simple index.php file for the php site and configure /etc/hosts for php site.

Commands

- `sudo mkdir ITILAB`
- `sudo nano ITILAB/index.php`
- `sudo nano /etc/apache2/sites-available/ITILAB.conf`
- `sudo a2ensite ITILAB.conf`
- `sudo systemctl reload apache2`

```
hager@hager-VirtualBox:/var/www/html$ sudo mkdir ITILAB
hager@hager-VirtualBox:/var/www/html$ sudo nano ITILAB/index.php
hager@hager-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/ITILAB.conf
hager@hager-VirtualBox:/var/www/html$ sudo systemctl reload apache2
hager@hager-VirtualBox:/var/www/html$ sudo a2ensite ITILAB.conf
Enabling site ITILAB.
To activate the new configuration, you need to run:
  systemctl reload apache2
hager@hager-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.
hager@hager-VirtualBox:/var/www/html$
```

GNU nano 6.2


ITILAB/index.php *

```
<?php echo 'Hello From ITI';?>
```

```
GNU nano 6.2 /etc/apache2/sites-available/ITILAB.conf *
Configuration:
<VirtualHost *:80>
  ServerName ITILAB.local
  DocumentRoot /var/www/html/ITILAB

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

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



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- **STEP-5:** Disable directory listing for the new virtualhost.

[Commands](#)

- `sudo nano /etc/apache2/sites-available/ITILAB.conf`

```
hager@hager-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/ITILAB.conf
```

```
GNU nano 6.2 /etc/apache2/sites-available/ITILAB.conf *
Configuration:
<VirtualHost *:80>
  ServerName ITILAB.local
  DocumentRoot /var/www/html/ITILAB

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

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