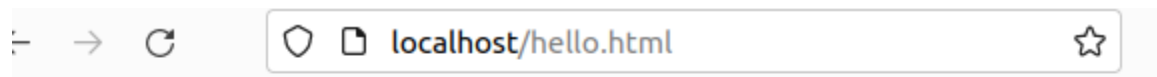


## 1-Install apache2 server

```
samar@samar-VirtualBox:~$ sudo apt install apache2
[sudo] password for samar:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
The following packages will be upgraded:
  apache2 apache2-bin apache2-data apache2-utils
4 upgraded, 0 newly installed, 0 to remove and 255 not upgraded.
Need to get 1,697 kB of archives.
After this operation, 0 B 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 apache2 amd64 2.4.18-0ubuntu1 [1,697 kB]
```

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

```
samar@samar-VirtualBox:~$ cd /var/www/html
samar@samar-VirtualBox:/var/www/html$ sudo nano hello.html
samar@samar-VirtualBox:/var/www/html$ sudo mv hello.html index.html
samar@samar-VirtualBox:/var/www/html$
```



**Hello, I'm Samar**

## 3-install php module for apache2

```
samar@samar-VirtualBox:/var/www/html$ sudo apt install libapache2-mod-php
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php8.1 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-php libapache2-mod-php8.1 php-common php8.1-cli
  php8.1-common php8.1-opcache php8.1-readline
0 upgraded, 7 newly installed, 0 to remove and 255 not upgraded.
Need to get 5,118 kB of archives.
After this operation, 21.3 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eg.archive.ubuntu.com/ubuntu jammy/main amd64 php-common all 2:92u
buntu1 [12.4 kB]
Get:2 http://eg.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-commo
```

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

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

6- configure `/etc/hosts` for php site.



```
Processing triggers for php8.1-etc (8.1.2-1ubuntu2.11) ...  
Processing triggers for libapache2-mod-php8.1 (8.1.2-1ubuntu2.11) ...  
samar@samar-VirtualBox:/var/www/html$ sudo mkdir lab4  
samar@samar-VirtualBox:/var/www/html$ sudo nano lab4/index.php
```

```
GNU nano 6.2 lab4/index.php  
<?php echo "Hello,I'am Samar";?>
```

```
samar@samar-VirtualBox:/var/www/html$ sudo nano lab4/index.php  
samar@samar-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/lab4.conf  
samar@samar-VirtualBox:/var/www/html$ sudo a2ensite lab4.conf  
Enabling site lab4.  
To activate the new configuration, you need to run:  
    systemctl reload apache2  
samar@samar-VirtualBox:/var/www/html$ systemctl reload apache2  
Job for apache2.service failed.  
See "systemctl status apache2.service" and "journalctl -xeu apache2.service" for details.
```

```
Configuration:  
<VirtualHost *:80>  
    ServerName lab4.local  
    DocumentRoot /var/www/html/lab4  
  
    ErrorLog /var/log/apache2/lab4-error.log  
    CustomLog /var/log/apache2/lab4-access.log combined  
  
    <Directory /var/www/html/lab4>  
        AllowOverride All  
        Require all granted  
    </Directory>  
</VirtualHost>
```



  localhost/lab4/

Hello,I'am Samar