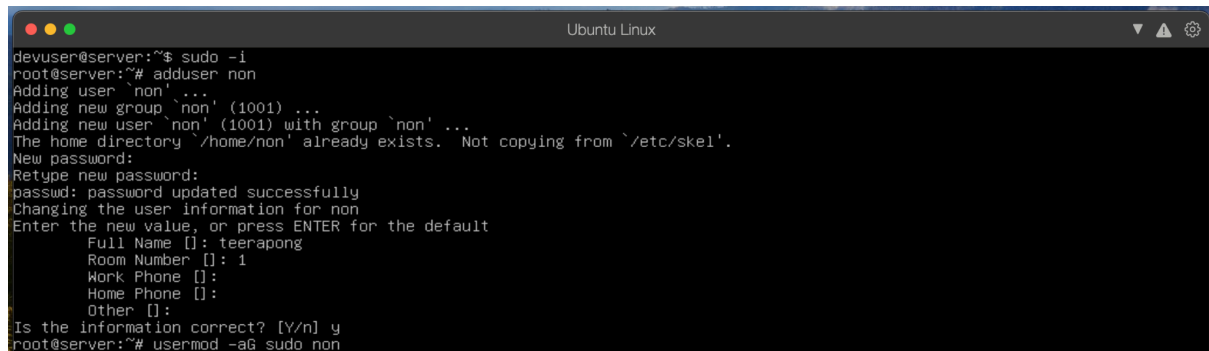


linux

sudo -i

adduser poom

usermod -aG sudo poom



```
devuser@server:~$ sudo -i
root@server:~# adduser non
Adding user `non' ...
Adding new group `non' (1001) ...
Adding new user `non' (1001) with group `non' ...
The home directory `/home/non' already exists. Not copying from `/etc/skel'.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for non
Enter the new value, or press ENTER for the default
    Full Name []: teerapong
    Room Number []: 1
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
root@server:~# usermod -aG sudo non
```

ufw allow OpenSSH

ufw enable

ufw app list

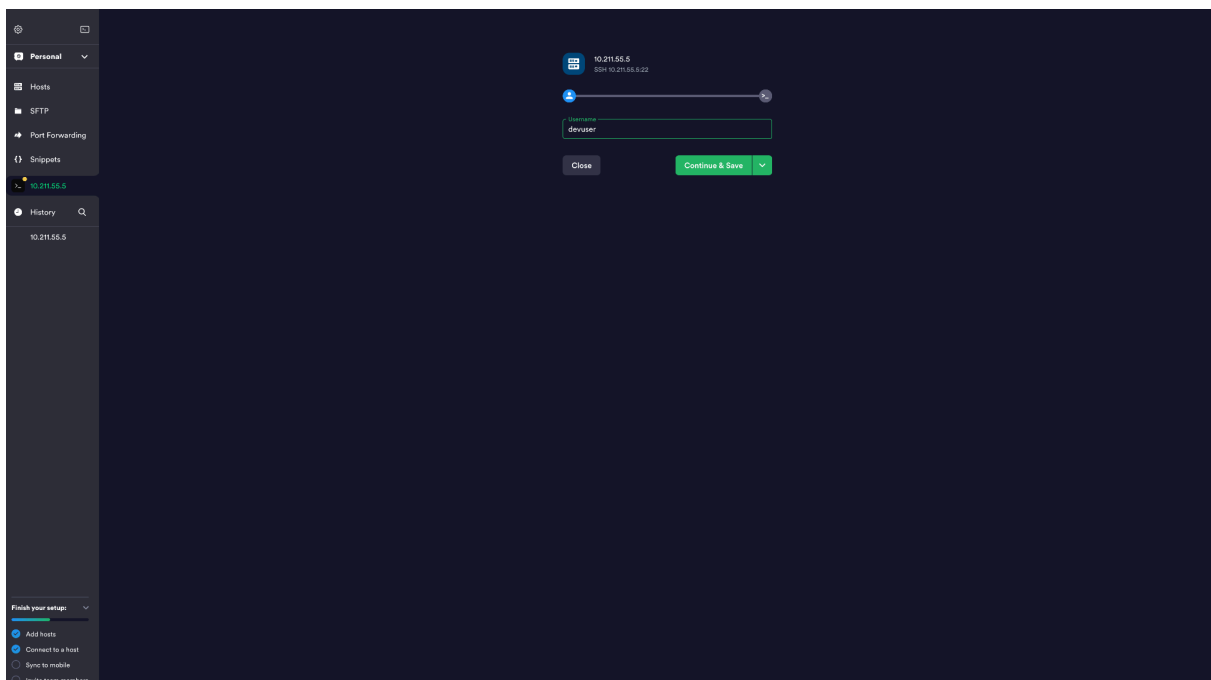
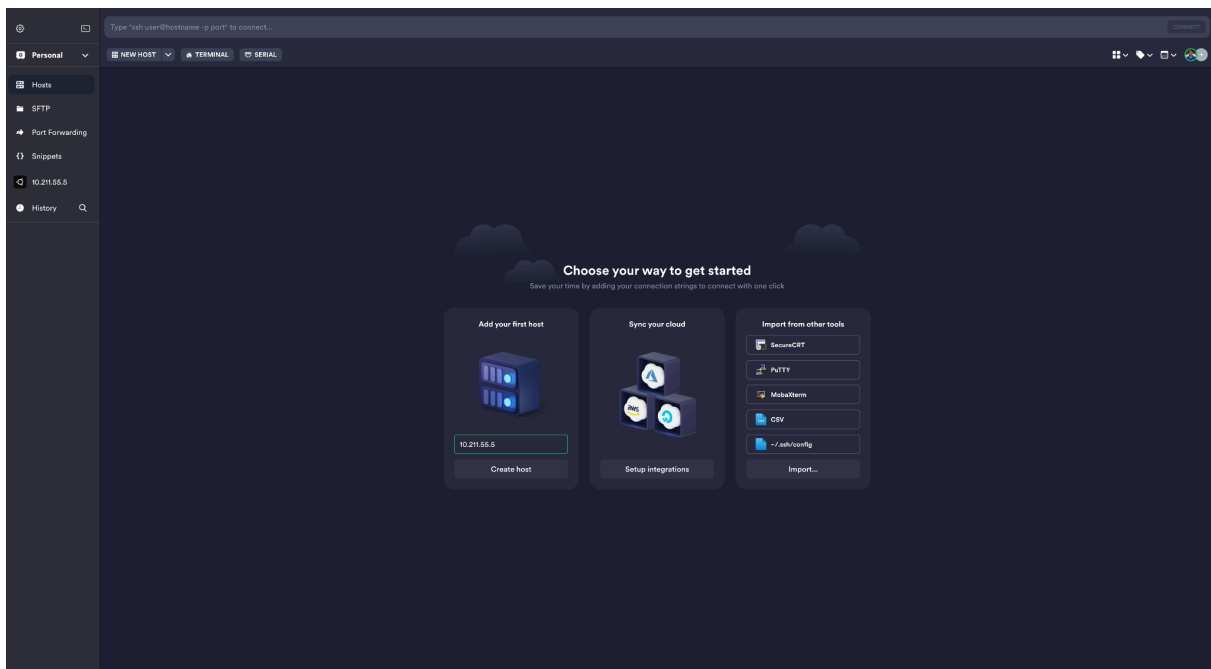
ufw status



```
root@server:~# ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  OpenSSH
root@server:~# ufw status
Status: active

To Action From
--
OpenSSH ALLOW Anywhere
Apache ALLOW Anywhere
OpenSSH (v6) ALLOW Anywhere (v6)
Apache (v6) ALLOW Anywhere (v6)
```

Terminus

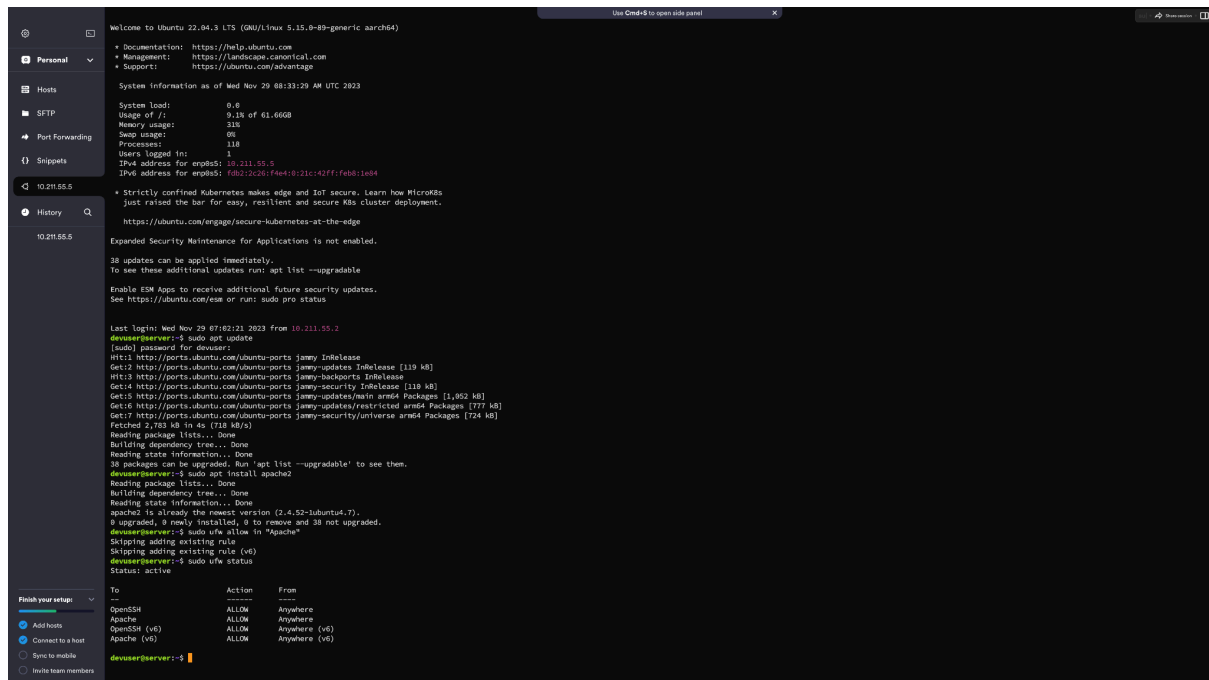


sudo apt update

sudo apt install apache2

sudo ufw allow in "Apache"

sudo ufw status



```
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-89-generic aarch64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

System information as of Wed Nov 29 08:33:29 AM UTC 2023

System load:  0.6
Usage of /:   9.1% of 61.06GB
Memory usage: 13%
Swap usage:   0%
Processes:   118
Users logged in: 1
IPV4 address for eno1: 10.211.55.2
IPV6 address for eno1: fd02:2c2b:f4e4:b21c:42ff:feb8:1a84

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
just raised the bar for easy, resilient and secure K8s cluster deployment.
https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

38 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Nov 29 07:02:21 2023 from 10.211.55.2
devuser@server:~$ sudo apt update
[sudo] password for devuser:
Hit:1 http://ports.ubuntu.com/ubuntu-ports jammy InRelease
Get:2 http://ports.ubuntu.com/ubuntu-ports jammy-updates InRelease [119 kB]
Hit:3 http://ports.ubuntu.com/ubuntu-ports jammy-backports InRelease
Get:4 http://ports.ubuntu.com/ubuntu-ports jammy-security InRelease [118 kB]
Get:5 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 Packages [1,852 kB]
Get:6 http://ports.ubuntu.com/ubuntu-ports jammy-updates/restricted arm64 Packages [777 kB]
Get:7 http://ports.ubuntu.com/ubuntu-ports jammy-security/universe arm64 Packages [724 kB]
Fetched 2,783 kB in 4s (718 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
38 packages can be upgraded. Run 'apt list --upgradable' to see them.
devuser@server:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu4.7).
0 upgraded, 0 newly installed, 0 to remove and 38 not upgraded.
devuser@server:~$ sudo ufw allow in "Apache"
Skipping adding existing rule (v6)
devuser@server:~$ sudo ufw status
Status: active

To Action From
--
OpenSSH ALLOW Anywhere
Apache ALLOW Anywhere
OpenSSH (v6) ALLOW Anywhere (v6)
Apache (v6) ALLOW Anywhere (v6)
```

Check Apache2 : http:// < ip >



Ubuntu

Apache2 Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.
- The binary is called `apache2` and is managed using `systemd`, so to start/stop the service use `systemctl start apache2` and `systemctl stop apache2`, and use `systemctl status apache2` and `journalctl -u apache2` to check status. `system` and `apache2ctl` can also be used for service management if desired. **Calling `/usr/bin/apache2` directly will not work** with the default configuration.

Document Roots

By default, Ubuntu does not allow access through the web browser to *any* file outside of those located in `/var/www`, `public_html` directories (when enabled) and `/usr/share` (for web applications). If your site is using a web document root located elsewhere (such as in `/srv`) you may need to whitelist your document root directory in

`sudo apt install mysql-server`

sudo mysql

```
ALTER USER 'root'@'localhost' IDENTIFIED WITH  
mysql_native_password BY 'P@ssw0rd';  
exit
```

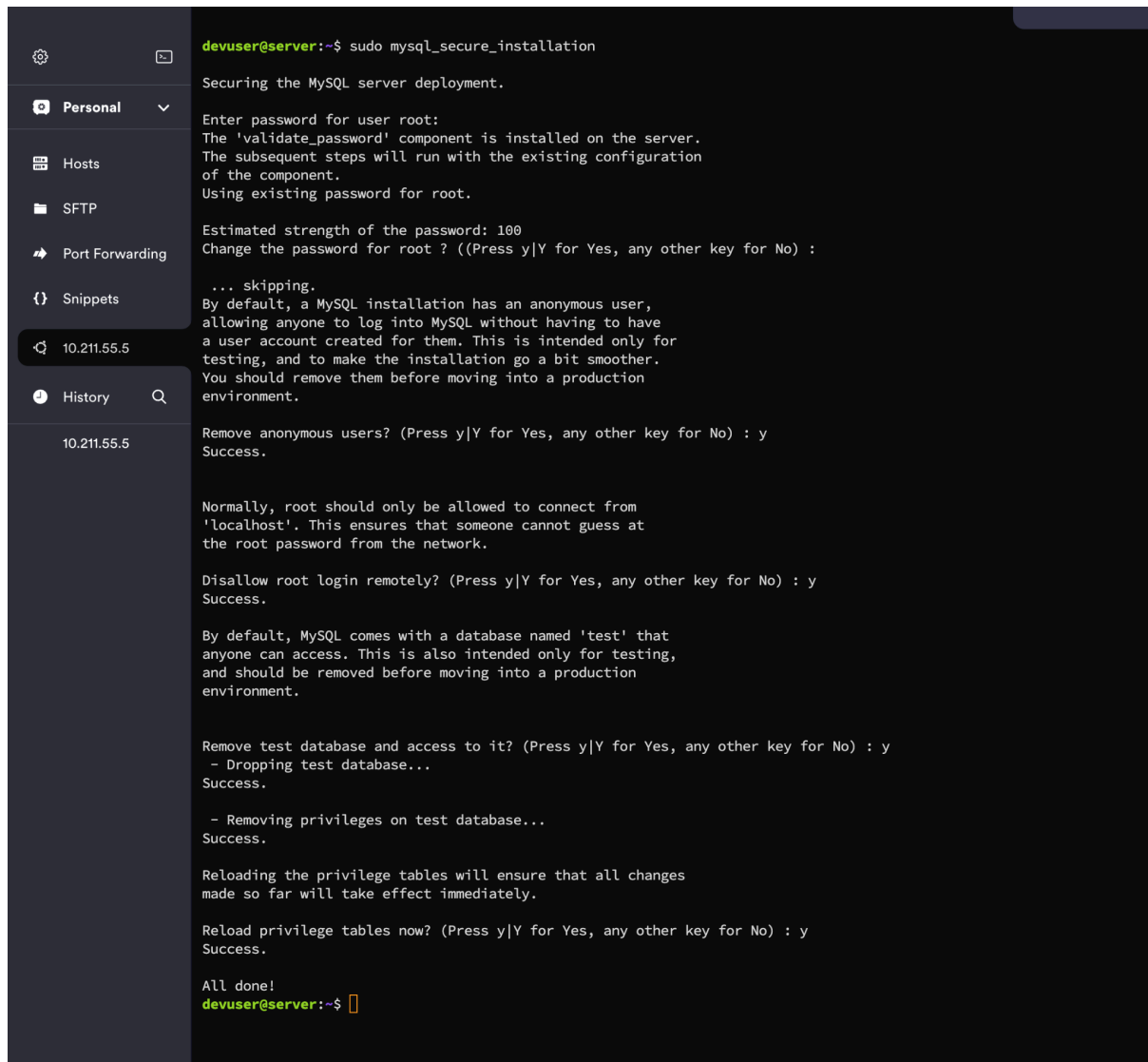
```
devuser@server:~$ sudo apt install mysql-server  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
mysql-server is already the newest version (8.0.35-0ubuntu0.22.04.1).  
0 upgraded, 0 newly installed, 0 to remove and 38 not upgraded.  
devuser@server:~$ sudo mysql
```

```
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 13  
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2023, Oracle and/or its affiliates.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'P@ssw0rd';  
Query OK, 0 rows affected (0.02 sec)  
  
mysql> exit  
Bye  
devuser@server:~$
```

login mysql : sudo mysql -u root -p

```
devuser@server:~$ sudo mysql -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 13  
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2023, Oracle and/or its affiliates.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

sudo mysql_secure_installation



```
devuser@server:~$ sudo mysql_secure_installation

Securing the MySQL server deployment.

Enter password for user root:
The 'validate_password' component is installed on the server.
The subsequent steps will run with the existing configuration
of the component.
Using existing password for root.

Estimated strength of the password: 100
Change the password for root ? ((Press y|Y for Yes, any other key for No) :
... skipping.
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : y
Success.

Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y
Success.

By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y
- Dropping test database...
Success.

- Removing privileges on test database...
Success.

Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

All done!
devuser@server:~$
```

sudo apt install php libapache2-mod-php php-mysql

php -v

```
devuser@server:~$ sudo apt install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libapache2-mod-php is already the newest version (2:8.1+92ubuntu1).
php is already the newest version (2:8.1+92ubuntu1).
php-mysql is already the newest version (2:8.1+92ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 38 not upgraded.
devuser@server:~$ php -v
PHP 8.1.2-1ubuntu2.14 (cli) (built: Aug 18 2023 11:41:11) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.1.2, Copyright (c) Zend Technologies
    with Zend OPcache v8.1.2-1ubuntu2.14, Copyright (c), by Zend Technologies
devuser@server:~$
```

cd /var/www/

sudo mkdir Lab2

sudo chown -R \$USER:\$USER Lab2

sudo nano info.php

more info.php

```
devuser@server:~$ cd /var/www/
devuser@server:/var/www$ sudo mkdir Lab2
devuser@server:/var/www$ sudo chown -R $USER:$USER Lab2
devuser@server:/var/www$ sudo nano info.php
devuser@server:/var/www$ more info.php
<?php
phpinfo();
devuser@server:/var/www$
```

sudo nano /etc/apache2/sites-available/your_domain.conf

```
devuser@server:~$ sudo nano /etc/apache2/sites-available/Lab2.conf
devuser@server:~$
```

<VirtualHost *:80>

ServerName Lab2

ServerAlias www.Lab2.com

ServerAdmin webmaster@localhost

DocumentRoot /var/www/Lab2

ErrorLog \${APACHE_LOG_DIR}/error.log

CustomLog \${APACHE_LOG_DIR}/access.log combined

</VirtualHost>

```
GNU nano 6.2
<VirtualHost *:80>
    ServerName Lab2
    ServerAlias www.Lab2.com
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/Lab2
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

sudo a2ensite lab2

sudo nano /etc/apache2/sites-available/000-default.conf (don't edit)

sudo a2dissite 000-default

sudo apache2ctl configtest

systemctl reload apache2

nano /var/www/lab2/index.html

```
devuser@server:~$ nano /var/www/Lab2/index.html
devuser@server:~$
```

```
<html>
<head>
  <title>your_domain website</title>
</head>
<body>
  <h1>Hello World!</h1>
```

```
  <p>This is the landing page of
<strong>your_domain</strong>.</p>
</body>
</html>
```

```
GNU nano 6.2
<html>
  <head>
    <title>Lab2 website</title>
  </head>
  <body>
    <h1>Hello World!</h1>

    <p>This is the landing page of <strong>Lab2</strong>.</p>
  </body>
</html>
```

sudo nano /etc/apache2/mods-enabled/dir.conf

```
devuser@server:~$ sudo nano /etc/apache2/mods-enabled/dir.conf
devuser@server:~$
```

```
GNU nano 6.2
<IfModule mod_dir.c>
    DirectoryIndex index.php index.html index.cgi index.pl index.php index.xhtml index.htm
</IfModule>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

sudo mysql -u root -p

CREATE DATABASE Lab2;

CREATE USER 'user'@'%' IDENTIFIED BY 'P@ssw0rd';

GRANT ALL ON Lab2.* TO 'user'@'%';

exit

```
devuser@server:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE lab2;
Query OK, 1 row affected (0.01 sec)

mysql> CREATE USER 'user'@'%' IDENTIFIED BY 'P@ssw0rd';
Query OK, 0 rows affected (0.02 sec)

mysql> GRANT ALL ON Lab2.* TO 'user'@'%';
Query OK, 0 rows affected (0.00 sec)

mysql> exit
Bye
devuser@server:~$
```

mysql -u user -p

“SHOW DATABASE”

```
CREATE TABLE Lab2.todo_list (item_id INT
AUTO_INCREMENT,content VARCHAR(255),PRIMARY
KEY(item_id));
```

```
INSERT INTO example_database.todo_list (content) VALUES
("My 1 important item");
```

```
INSERT INTO example_database.todo_list (content) VALUES
("My 2 important item");
```

```
INSERT INTO example_database.todo_list (content) VALUES
("My 3 important item");
```

```
SELECT * FROM Lab2.todo_list;
```

```
exit
```

```
nano /var/www/Lab2/todo_list.php
```

```
devuser@server:~$ mysql -u user -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| Lab2     |
| information_schema |
| performance_schema |
+-----+
3 rows in set (0.01 sec)

mysql> CREATE TABLE Lab2.todo_list ( item_id INT AUTO_INCREMENT, content VARCHAR(255), PRIMARY KEY(item_id) );
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO Lab2.todo_list (content) VALUES ("My 1 important item");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Lab2.todo_list (content) VALUES ("My 2 important item");
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Lab2.todo_list (content) VALUES ("My 3 important item");
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM Lab2.todo_list;
+-----+-----+
| item_id | content |
+-----+-----+
| 1       | My 1 important item |
| 2       | My 2 important item |
| 3       | My 3 important item |
+-----+-----+
3 rows in set (0.00 sec)

mysql> exit
Bye
devuser@server:~$ nano /var/www/Lab2/todo_list.php
devuser@server:~$
```

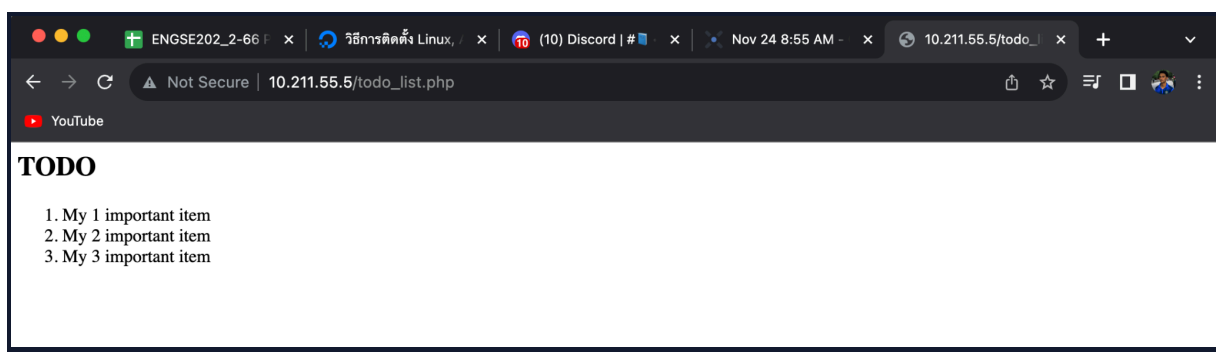
```
<?php
$user = "user";
$password = "P@ssw0rd";
$database = "Lab2";
$table = "todo_list";

try {
    $db = new PDO("mysql:host=localhost;dbname=$database",
    $user, $password);
    echo "<h2>TODO</h2><ol>";
    foreach($db->query("SELECT content FROM $table") as
    $row) {
        echo "<li>" . $row['content'] . "</li>";
    }
    echo "</ol>";
} catch (PDOException $e) {
    print "Error!: " . $e->getMessage() . "<br/>";
    die();
}
```

```
GNU nano 6.2
<?php
$user = "user";
$password = "P@ssw0rd";
$database = "Lab2";
$table = "todo_list";

try {
    $db = new PDO("mysql:host=localhost;dbname=$database", $user, $password);
    echo "<h2>TODO</h2><ol>";
    foreach($db->query("SELECT content FROM $table") as $row) {
        echo "<li>" . $row['content'] . "</li>";
    }
    echo "</ol>";
} catch (PDOException $e) {
    print "Error!: " . $e->getMessage() . "<br/>";
    die();
}
```

http://10.211.55.5/todo_list.php



สร้างไฟล์ Lab2-1_xxx และ Lab2-2_xxx และตรวจเช็ค

```
devuser@ubuntusever:~$ sudo mkdir -p /var/www/lab2-1_008/public_html
[sudo] password for devuser:
devuser@ubuntusever:~$ sudo mkdir -p /var/www/lab2-2_008/public_html
devuser@ubuntusever:~$ ls /var/www
html  lab2  lab2-1_008  lab2-2_008
devuser@ubuntusever:~$
```

เปลี่ยน Owner ของ Domain ที่สร้างให้เป็น user

```
devuser@ubuntusever:~$ sudo mkdir -p /var/www/lab2-1_008/public_html
[sudo] password for devuser:
devuser@ubuntusever:~$ sudo mkdir -p /var/www/lab2-2_008/public_html
devuser@ubuntusever:~$ ls /var/www
html  lab2  lab2-1_008  lab2-2_008
devuser@ubuntusever:~$ sudo chown -R $USER:$USER /var/www/lab2-1_008/public_html
devuser@ubuntusever:~$ sudo chown -R $USER:$USER /var/www/lab2-2_008/public_html
devuser@ubuntusever:~$ sudo chmod -R 755 /var/www
```

```
GNU nano 6.2 /var/www/lab2-2_008/public_html/index.html
<html>
  <head>
    <title>Welcome to lab2-1!</title>
  </head>
  <body>
    <h1>Success! The lab2-1 virtual host is working!</h1>
  </body>
</html>
```

สร้างไฟล์ Nano ชื่อ index.html แล้วก็อปไป Lab2-2

```
devuser@ubuntusever:~$ nano /var/www/lab2-1_008/public_html/index.html
devuser@ubuntusever:~$ cp /var/www/lab2-1_008/public_html/index.html /var/www/lab2-2_008/public_html/index.html
```

Nano index.html ในไฟล์ lab2-2

```
<html>
  <head>
    <title>Welcome to lab2-2!</title>
  </head>
  <body>
    <h1>Success! The lab2-2 virtual host is working!</h1>
  </body>
</html>
```

เข้าไปที่ lab2-1 แล้วเข้าไปแก้ไข lab2-1.conf

```
devuser@ubuntusever:~$ sudo cp /etc/apache2/sites-available/000-default.conf  
/etc/apache2/sites-available/lab2-1_008.conf  
devuser@ubuntusever:~$ sudo nano /etc/apache2/sites-available/lab2-1_008.con  
f
```

```
GNU nano 6.2 /etc/apache2/sites-available/lab2-1_008.conf *  
<VirtualHost *:80>  
    # The ServerName directive sets the request scheme, hostname and po  
    # the server uses to identify itself. This is used when creating  
    # redirection URLs. In the context of virtual hosts, the ServerName  
    # specifies what hostname must appear in the request's Host: header  
    # match this virtual host. For the default virtual host (this file)  
    # value is not decisive as it is used as a last resort host regardl  
    # However, you must set it for any further virtual host explicitly.  
    #ServerName www.example.com  
  
    ServerAdmin admin@lab2-1_008  
    ServerName lab2-1_008  
    ServerAlias www.lab2-1_008  
    DocumentRoot /var/www/lab2-1_008/public_html  
  
    # Available loglevels: trace8, ..., trace1, debug, info, notice, wa  
    # error, crit, alert, emerg.  
    # It is also possible to configure the loglevel for particular  
    # modules, e.g.  
    #LogLevel info ssl:warn  
  
    ErrorLog ${APACHE_LOG_DIR}/error.log  
    CustomLog ${APACHE_LOG_DIR}/access.log combined  
  
    # For most configuration files from conf-available/, which are  
    # enabled or disabled at a global level, it is possible to  
    # include a line for only one particular virtual host. For example  
    # following line enables the CGI configuration for this host only  
    # after it has been globally disabled with "a2disconf".  
    #Include conf-available/serve-cgi-bin.conf  
</VirtualHost>
```

ก๊อปปี้ ไฟล์จาก config lab2-1 ไป lab2-2 แล้วแก้ไข

```
devuser@ubuntusever:~$ sudo cp /etc/apache2/sites-available/lab2-1_008.conf  
/etc/apache2/sites-available/lab2-2_008.conf  
[sudo] password for devuser:  
devuser@ubuntusever:~$ sudo nano /etc/apache2/sites-available/lab2-2_008.con  
f
```



```

GNU nano 6.2 /etc/apache2/sites-available/lab2-2_008.conf *
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header
    # match this virtual host. For the default virtual host (this file)
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin admin@lab2-2_008
    ServerName lab2-2_008
    ServerAlias www.lab2-2_008
    DocumentRoot /var/www/lab2-2_008/public_html

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>

```

เปิดใช้งาน Virtualhost files

```

devuser@ubuntusever:~$ sudo a2ensite lab2-1_008.conf
Enabling site lab2-1_008.
To activate the new configuration, you need to run:
    systemctl reload apache2
devuser@ubuntusever:~$ sudo a2ensite lab2-2_008.conf
Enabling site lab2-2_008.
To activate the new configuration, you need to run:
    systemctl reload apache2
devuser@ubuntusever:~$

```

testconfig

```
devuser@ubuntusever:~$ sudo a2dissite 000-default.conf
Site 000-default already disabled
devuser@ubuntusever:~$ sudo apache2ctl configtest
AH00558: apache2: Could not reliably determine the server's fully qualified
domain name, using 127.0.1.1. Set the 'ServerName' directive globally to sup
press this message
Syntax OK
```

Restart apache และเช็ค status

```
devuser@ubuntusever:~$ sudo systemctl restart apache2
devuser@ubuntusever:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor p>
   Active: active (running) since Wed 2023-12-06 12:55:53 UTC; 10s ago
     Docs: https://httpd.apache.org/docs/2.4/
  Process: 1854 ExecStart=/usr/sbin/apachectl start (code=exited, status=>
 Main PID: 1859 (apache2)
    Tasks: 6 (limit: 4558)
   Memory: 10.2M
      CPU: 40ms
   CGroup: /system.slice/apache2.service
           └─1859 /usr/sbin/apache2 -k start
             └─1860 /usr/sbin/apache2 -k start
               └─1861 /usr/sbin/apache2 -k start
                 └─1862 /usr/sbin/apache2 -k start
                   └─1863 /usr/sbin/apache2 -k start
                     └─1864 /usr/sbin/apache2 -k start

Dec 06 12:55:53 ubuntusever systemd[1]: Starting The Apache HTTP Server...
Dec 06 12:55:53 ubuntusever apachectl[1857]: AH00558: apache2: Could not re>
Dec 06 12:55:53 ubuntusever systemd[1]: Started The Apache HTTP Server.
lines 1-20/20 (END)
```

sudo nano /etc/hosts

```
GNU nano 6.2 /etc/hosts~ *
127.0.0.1 localhost
127.0.1.1 ubuntu-sever
192.168.56.102 lab2-1_008
192.168.56.102 lab2-2_008
```

test

