

สร้าง directories lab2-1_001 และ lab2- 002

```
devuser@ubuntu-server:~$ sudo mkdir -p /var/www/lab2-1_014/public_html  
[sudo] password for devuser:  
devuser@ubuntu-server:~$ sudo mkdir -p /var/www/lab2-2_014/public_html
```

เปลี่ยน Owner เป็น user ที่ Domain ที่สร้าง

```
devuser@ubuntu-server:~$ sudo chown -R $USER:$USER /var/www/lab2-1_014/public_html  
devuser@ubuntu-server:~$ sudo chown -R $USER:$USER /var/www/lab2-2_014/public_html
```

ให้ สิทธิ ของ directories

```
devuser@ubuntu-server:~$ sudo chmod -R 755 /var/www
```

สร้างไฟล์ ชื่อ index.html

```
devuser@ubuntu-server:~$ nano /var/www/lab2-1_014/public_html/index.html
```

แล้วสร้างหน้า Page lab2-1

```
GNU nano 6.2 /var/www/lab2-1_014/public_html/index.html  
<html>  
  <head>  
    <title>Welcome to lab2-1_014!</title>  
  </head>  
  <body>  
    <h1>Success! The lab2-1_014 virtual host is working!</h1>  
  </body>  
</html>
```

CopyFile index.html จาก lab2-1 ไป lab2-2

```
devuser@ubuntu-server:~$ nano /var/www/lab2-2_014/public_html/index.html  
devuser@ubuntu-server:~$ cp /var/www/lab2-1_014/public_html/index.html /var/www/lab2-2_014/public_html/index.html
```

Index.html lab2-2

```
devuser@ubuntu-server: /var/www$ nano /var/www/lab2-2_014/public_html/index.html
```

สร้างหน้า Page lab2-1

```
GNU nano 6.2 /var/www/lab2-2_014/public_html/index.html *
<html>
  <head>
    <title>Welcome to lab2-2_014!</title>
  </head>
  <body>
    <h1>Success! The lab2-2_014 virtual host is working!</h1>
  </body>
</html>
```

Copyfile 000-default.conf ไปที่ lab2-1

```
devuser@ubuntu-server: /var/www$ sudo cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/lab2-1_014.conf
```

เข้าไปที่ lab2-1.conf

```
devuser@ubuntu-server: /var/www$ sudo nano /etc/apache2/sites-available/lab2-1_014.conf
```

เปลี่ยน ServerAdmin เป็น adminlab2-1_014

เพิ่ม Servername และ ServerAlias และแก้ไข Document root

```
GNU nano 6.2 /etc/apache2/sites-available/lab2-1_014.conf *
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port that
    # 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 to
    # match this virtual host. For the default virtual host (this file) this
    # 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@lab2-1_014
    ServerName lab2-1_014
    ServerAlias www.lab2-1_014
    DocumentRoot /var/www/lab2-1_014/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>

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

Copyfile จาก config lab2-1 ไป lab2-2

```
devuser@ubuntu-server: /var/www$ sudo cp /etc/apache2/sites-available/lab2-1_014.conf /etc/apache2/sites-available/lab2-2_014.conf
```

แก้ไข lab2-2.conf

```
devuser@ubuntu-server: /var/www$ sudo nano /etc/apache2/sites-available/lab2-2_014.conf
```

เปลี่ยน lab2-1_014 เป็น lab2-2_014

```
GNU nano 6.2 /etc/apache2/sites-available/lab2-2_014.conf
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port that
    # 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 to
    # match this virtual host. For the default virtual host (this file) this
    # 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_014
    ServerName lab2-2_014
    ServerAlias www.lab2-2_014
    DocumentRoot /var/www/lab2-2_014/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>

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

เปิดใช้งาน

```
devuser@ubuntu-server: /var/www$ sudo a2ensite lab2-1_014.conf
Site lab2-1_014 already enabled
devuser@ubuntu-server: /var/www$ sudo a2ensite lab2-2_014.conf
Site lab2-2_014 already enabled
devuser@ubuntu-server: /var/www$ sudo a2dissite 000-default.conf
Site 000-default already disabled
```

Check configuration errors

```
devuser@ubuntu-server: /var/www$ 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 suppress this message
Syntax OK
devuser@ubuntu-server: /var/www$
```

ดู status

```
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2023-12-06 14:43:25 UTC; 14s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 1454 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 1458 (apache2)
```

ไปที่ sudo nano /etc/hosts แล้วเพิ่ม Domain ทั้ง 2 อัน

```
devuser@ubuntuserver:/var/www$ sudo nano /etc/hosts
```

```
GNU nano 6.2 /etc/
127.0.0.1 localhost
127.0.1.1 ubuntuserver

192.168.56.103 lab2-1_014
192.168.56.103 lab2-2_014

# 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
```

หรือแก้ไขใน Notepad++ ของทางวินโดวส์

แก้ไข ไฟล์ hosts ใน etc

```
change.log x hosts x
10 #
11 # Additionally, comments (such as these) may be inserted on individual
12 # lines or following the machine name denoted by a '#' symbol.
13 #
14 # For example:
15 #
16 #      102.54.94.97      rhino.acme.com      # source server
17 #      38.25.63.10      x.acme.com         # x client host
18
19 # localhost name resolution is handled within DNS itself.
20 #   127.0.0.1      localhost
21 #   ::1            localhost
22
23 192.168.56.103 lab2-1_014
24 192.168.56.103 lab2-2_014
25
```

ทดสอบผลลัพธ์



Success! The lab2-1_014 virtual host is working!



Success! The lab2-2_014 virtual host is working!