Apache Virtual Hosting Lab

Hosting web site by Created User

To host web site Apache server in a Linux machine by the Created user, we should create the user account.

```
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```

**In the above command we create user called "cohdse182f005" and the home directory is "/home/nibm/" and disabled the user password and default shell is "/bin/bash"

Then we create directory for hosting web file and grant privileges to created user

```
rcjay@rcjay-virtual-machine:~$ sudo mkdir -p /home/nibm/nibm.lk/public_html
[sudo] password for rcjay:
rcjay@rcjay-virtual-machine:~$ chown -R cohdse182f005:cohdse182f005 /home/nibm/nibm.lk
chown: changing ownership of '/home/nibm/nibm.lk/public_html': Operation not permitted
chown: changing ownership of '/home/nibm/nibm.lk': Operation not permitted
rcjay@rcjay-virtual-machine:~$ sudo chmod -R 755 /home/nibm/nibm.lk
rcjay@rcjay-virtual-machine:~$
```

After that we install apache2, sql-server and php

```
cohdse182f-005@ubuntu:~

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cohdse182f-005@ubuntu:~$ sudo apt-get install php mysql-server
```

After that Create a copy of **"/etc/apache2/sites-available/ooo-default.conf"** as nibm.lk.conf in /etc/apache2/sites-available/

```
rcjay@rcjay-virtual-machine:~

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rcjay@rcjay-virtual-machine:/etc/apache2/sites-available$ sudo cp 000-default.conf nibm.lk.conf
```

Make the below changes to "/etc/apache2/sites-available/nibm.lk.conf"

```
rcjay@rcjay-virtual-machine:~$ sudo vim /etc/apache2/sites-available/nibm.lk.conf
[sudo] password for rcjay:
_
```

```
<VirtualHost *:80>
          \ensuremath{\mathtt{\#}} 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
          ServerName www.nibm.lk
          ServerAdmin admin@nibm.lk
          DocumentRoot /home/nibm/nibm.lk/public_html
          <Directory /home/nibm/nibm.lk/public_html>
          Options Indexes FollowSymLinks
          AllowOverride None
          Require all granted
          </Directory>
          # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
          # It is also possible to configure the loglevel for particular
          # modules, e.g.
#LogLevel info ssl:warn
          ErrorLog ${APACHE_LOG_DIR}/nibm/nibm.lk/error.log
          CustomLog ${APACHE_LOG_DIR}/nibm/nibm.lk/access.log combined
          # enabled or disabled at a global level, it is possible to
```

Creating Log Directory and change permission

Then create the log directory for nibm.lk as /var/log/apache2/nibm/nibm.lk/apache's main log directory is /var/log/apache2



```
rcjay@rcjay-virtual-machine:~

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rcjay@rcjay-virtual-machine:~$ sudo chown cohdse182f005:cohdse182f005 /var/log/apache2/nibm/nibm.lk
```

Hosting the web page

Create the /home/nibm/nibm.lk/public_html/index.php with below content.

```
rday@rday.virtual-machine:-

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rcjay@rcjay-virtual-machine:~$ vim /home/nibm/nibm.lk/public_html/index.php
```

Enable Site

Check configurations

```
rcjay@rcjay-virtual-machine:-
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rcjay@rcjay-virtual-machine:~$ apachectl 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
```

Add a hostname to ip mapping into the hosts file

Add the below entry to /etc/hosts file

```
rcjay@rcjay-virtual-machine:-

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rcjay@rcjay-virtual-machine:~$ sudo vim /etc/hosts
```

browse nibm.lk using a web browser

