

Web Hosting (Login Webpage)

Software Security – Assignment 2.1

COHDSE182F-024 - Ishanka Withanage

Steps

1. `sudo apt-get update`
2. `sudo apt-get install apache2` & `sudo apt-get install php`

```
iishwithz@iishwithz-virtual-machine:~$ sudo apt-get install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
0 upgraded, 9 newly installed, 0 to remove and 309 not upgraded.
Need to get 1,713 kB of archives.
After this operation, 6,920 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://222.165.177.102:80/data/043cece26ab85f9c/us.archive.ubuntu.com/ubuntu bionic/main amd64 libapr1 amd64 1.6.3-2 [90.9 kB]
Get:2 http://222.165.177.38:80/data/043ce3e20ab94bae/us.archive.ubuntu.com/ubuntu bionic/main amd64 libaprutil1 amd64 1.6.1-2 [84.4 kB]
Get:3 http://222.165.177.38:80/data/043c62e21fbacf3/us.archive.ubuntu.com/ubuntu bionic/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-2 [10.6 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu bionic/main amd64 libaprutil1-ldap amd64 1.6.1-2 [8,764 B]
Get:5 http://222.165.177.38:80/data/043c34e28abca5d8/us.archive.ubuntu.com/ubuntu bionic/main amd64 liblua5.2-0 amd64 5.2.4-1.1build1 [108 kB]
Get:6 http://222.165.177.102:80/data/043cfde289bdf8ed/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-bin amd64 2.4.29-1ubuntu4.4 [1,071 kB]
Get:7 http://222.165.177.38:80/data/043c2be2fcbf6a29/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-utils amd64 2.4.29-1ubuntu4.4 [83.5 kB]
Get:8 http://222.165.177.38:80/data/043cf6e2d2c0e588/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-data all 2.4.29-1ubuntu4.4 [160 kB]
Get:9 http://222.165.177.38:80/data/043c53e281c2a817/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2 amd64 2.4.29-1ubuntu4.4 [65.4 kB]
```

```
iishwithz@iishwithz-virtual-machine:~$ sudo apt-get install php
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php7.2 php-common php7.2 php7.2-cli php7.2-common php7.2-json php7.2-opcache php7.2-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php7.2 php php-common php7.2 php7.2-cli php7.2-common php7.2-json php7.2-opcache php7.2-readline
0 upgraded, 9 newly installed, 0 to remove and 309 not upgraded.
Need to get 3,852 kB of archives.
After this operation, 17.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://222.165.177.102:80/data/043c4fe455821308/us.archive.ubuntu.com/ubuntu bionic/main amd64 php-common all 1:60ubuntu1 [12.1 kB]
Get:2 http://222.165.177.38:80/data/043caae4f483e71c/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-common amd64 7.2.10-0ubuntu0.18.04.1 [878 kB]
Get:3 http://222.165.177.38:80/data/043c8fe4f1840e2e/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-json amd64 7.2.10-0ubuntu0.18.04.1 [18.8 kB]
Get:4 http://222.165.177.38:80/data/043c5ae4f5852b73/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-opcache amd64 7.2.10-0ubuntu0.18.04.1 [165 kB]
Get:5 http://222.165.177.38:80/data/043ca3e4d786c0c9/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-readline amd64 7.2.10-0ubuntu0.18.04.1 [12.1 kB]
Get:6 http://222.165.177.38:80/data/043c56e440885a49/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-cli amd64 7.2.10-0ubuntu0.18.04.1 [1,405 kB]
Get:7 http://222.165.177.102:80/data/043c21e4ec894fce/us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libapache2-mod-php7.2 amd64 7.2.10-0ubuntu0.18.04.1 [1,349 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2 all 7.2.10-0ubuntu0.18.04.1 [50.2 kB]
Get:9 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php all 7.2.10-0ubuntu0.18.04.1 [50.2 kB]
```

3. `sudo adduser star --home /home/star/ --disabled-password --shell /bin/bash`

```
ishiwitzz@ishiwitzz-virtual-machine:~$ sudo adduser star --home /home/star/ --disabled-password --shell /bin/bash
[sudo] password for ishiwitzz:
Adding user `star' ...
Adding new group `star' (1001) ...
Adding new user `star' (1001) with group `star' ...
Creating home directory `/home/star/' ...
Copying files from `/etc/skel' ...
Changing the user information for star
Enter the new value, or press ENTER for the default
  Full Name []:
  Room Number []:
  Work Phone []:
  Home Phone []:
  Other []:
Is the information correct? [Y/n] y
ishiwitzz@ishiwitzz-virtual-machine:~$
```

4.

`sudo mkdir -p /home/star/ star.lk/public_html`

`sudo chown -R star:star /home/ star / star.lk`

`sudo chmod -R 755 /home/ star / star.lk`

```
Home Phone []:
Other []:
ishiwitzz@ishiwitzz-virtual-machine:~$ sudo mkdir -p /home/star/star.lk/public_html
ishiwitzz@ishiwitzz-virtual-machine:~$ sudo chown -R star:star /home/star/star.lk
ishiwitzz@ishiwitzz-virtual-machine:~$ sudo chmod -R 755 /home/star/star.lk
```

5. Sudo cp 000-default.conf star.lk.conf

```
ishiwitzz@ishiwitzz-virtual-machine:/etc/apache2/sites-available$ ll
total 20
drwxr-xr-x 2 root root 4096 Dec  5 02:18 ./
drwxr-xr-x 8 root root 4096 Nov 22 14:26 ../
-rw-r--r-- 1 root root 1332 Jun 27 13:05 000-default.conf
-rw-r--r-- 1 root root 6338 Jun 27 13:05 default-ssl.conf
ishiwitzz@ishiwitzz-virtual-machine:/etc/apache2/sites-available$ sudo cp 000-default.conf star.lk.conf
ishiwitzz@ishiwitzz-virtual-machine:/etc/apache2/sites-available$
```

6. Sudo su vim star.lk.conf

```
<VirtualHost *:80>
    ServerName www.star.lk
    ServerAdmin admin@star.lk
    DocumentRoot /home/star/star.lk/public_html

    <directory /home/star/star.lk/public_html>
        options Indexes FollowSymlinks
        AllowOverride none
        require all granted
    </directory>

    ErrorLog ${APACHE_LOG_DIR}/star/star.lk/error.log
    CustomLog ${APACHE_LOG_DIR}/star/star.lk/access.log combined
</VirtualHost>

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

7.

sudo mkdir -p /var/log/apache2/star/star.lk

sudo chown star:star var/log/apache2/star/star.lk

```
ishiwitHz@ishiwitHz-virtual-machine:/etc/apache2/sites-available$ sudo su
root@ishiwitHz-virtual-machine:/etc/apache2/sites-available# vim star.lk.conf
root@ishiwitHz-virtual-machine:/etc/apache2/sites-available# mkdir -p /var/log/apac
he2/star/star.lk
root@ishiwitHz-virtual-machine:/etc/apache2/sites-available# chown star:star /var/l
og/apache2/star/star.lk
```

8.

Cd /home/star/star.lk/public_html/

Vim index.php

Vim welcome.php

exit

```
root@ishiwitHz-virtual-machine:/etc/apache2/sites-available# cd /home/star/star.lk/public_html
root@ishiwitHz-virtual-machine:/home/star/star.lk/public_html# vim index.php
root@ishiwitHz-virtual-machine:/home/star/star.lk/public_html# vim welcome.php
root@ishiwitHz-virtual-machine:/home/star/star.lk/public_html#
```

```
<?php
session_start();
echo"<font size='4' color='purple'>";
echo "<br/>hellow, ".$_SESSION["user"]."<br/><br/>";
echo"</font>";
if(isset($_SESSION["user"]) && time()-$_SESSION["accesstime"]<=10)
{
echo"<center><h1>Welcome To The STAR INTERNATIIONAL</h1><center><br/>";
echo"
<p>
STAR INTERNATIONAL established in 2003.In the scope of
manufuturing,treding and engineering services.
Under engineering we services in the segements of electrical machanical and civil engeneering.
Under treding we do import any goods ecoding to the customer reqrement withing local legale frame.
Services and treding gods can be viwe in products.
</p>";
}
else{header("location:index.php");}
?>
```

9.

Sudo a2ensite star.lk

Sudo service apache2 restart

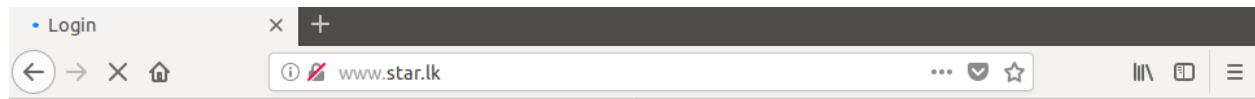
Sudo vim /etc/hosts

add line 127.0.0.1 star.lk www.star.lk

```
ishiwitHz@ishiwitHz-virtual-machine:/etc$ sudo a2ensite star.lk
Enabling site star.lk.
To activate the new configuration, you need to run:
    systemctl reload apache2
ishiwitHz@ishiwitHz-virtual-machine:/etc$ sudo service apache2 restart
ishiwitHz@ishiwitHz-virtual-machine:/etc$ sudo vim /etc/hosts
```

```
ishiwitHz@ishiwitHz-virtual-machine:/etc$ sudo cat /etc/hosts
127.0.0.1      localhost
127.0.1.1      ishiwitHz-virtual-machine
127.0.0.1 star.lk www.star.lk
# 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
ishiwitHz@ishiwitHz-virtual-machine:/etc$
```

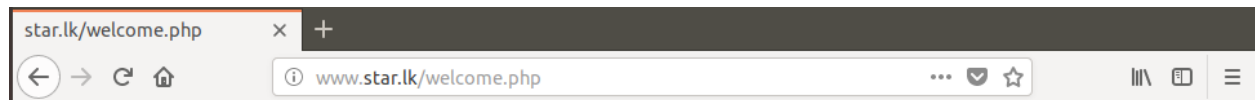
Results



User Name

Password

Login



hellow,ishi

Welcome To The STAR INTERNATIIONAL

STAR INTERNATIONAL established in 2003.In the scope of manufuturing,treding and engineering services. Under engineering we services in the segements of electrical machanical and civil engeneering. Under treding we do import any goods ecoding to the customer reqrement withing local legale frame. Services and treding gods can be viwe in products.