

Procedure for Setting Up an OpenSSH Server

The Secure Shell (SSH) server is used to transfer files and folders securely between servers and client computers.

Follow these step by step instructions for setting up an Open SSH server.

1. Login to the Ubuntu server using the username and password
2. We need to add open SSH server to the Ubuntu machine

```
username@ubuntu1:~$sudo apt-get installopenssh-server
```

3. Now we will tighten openssh security. By default, the SSH Server listens on port 22, so we can change default port 22 to 2222. This will avoid automated tools logging into your server. Open the `/etc/ssh/sshd_config` file by typing :

```
username@ubuntu1:~$sudo nano /etc/ssh/sshd_config
```

On the line that says “port 22”, we should change it to “port 2222”.

4. We press CTRL – X and then “y” for yes to save the file and Enter.
5. Anyone now can login onto our server. We can tighten SSH server security even more by editing the login. This change will limit those who can login to the SSH server to those listed. Open the `/etc/ssh/sshd_config` file by typing :

```
username@ubuntu1:~$sudo nano /etc/ssh/sshd_config
```

6. Change the root login to “no”.

```
PermitRootLogin no
```

Then, we can allow users by typing:

```
AllowUsers USERNAME
```

Or, we can allow multiple users by typing:

```
AllowUsers USERNAME1 USERNAME2
```

7. We can allow groups by typing:

```
AllowGroups Group1 Group2
```

8. Users or groups can be restricted by using the DenyUsers and DenyGroups functions as shown.

```
DenyUsers USERNAME3 USERNAME4
```

Or

DenyGroups Group3 Group4

When we have edited our `/etc/ssh/sshd_config` file to show what users or groups we wish to allow or restrict, we can close the file.

9. We press CTRL – X and then “y” for yes to save the file and Enter.

10. Restart the SSH server by typing:

```
username@ubuntu1:~$ sudo /etc/init.d/ssh restart
```

11. We can logon to a SSH server by typing our username on that server at a specific IP address such as:

```
username@ubuntu1:~$ ssh username@192.168.10.200
```

We can transfer files or get information from the remote client or server.