

TASK 5

Secure File Transfer

Task: Configure SSH for secure remote access to a server. Using SCP, transfer a file from your local machine to the remote server. Document the steps involved, including setting up SSH keys for authentication and using SCP for the transfer.

For Connecting to remote server:

1. Install openssh-client:

```
sudo apt install openssh-client
```

2. Generate the ssh key:

```
sudo ssh-keygen
```

3. Connect to the remote server:

```
sudo ssh -p 1875 jainil@127.0.0.1
```

```
jainil@jainil-VirtualBox:~$ sudo ssh -p 1875 jainil@127.0.0.1
[sudo] password for jainil:
jainil@127.0.0.1's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-39-generic x86_64)

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

Expanded Security Maintenance for Applications is not enabled.

40 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: Sat Jan  6 13:03:00 2024 from 127.0.0.1
jainil@jainil-VirtualBox:~$
```

To transfer the file using scp :

```
scp lorem.txt -p 1875 jainil@127.0.0.1:/home/jainil/Desktop/Jainil_Folder
```

```
jainil@jainil-VirtualBox: ~  
jainil@jainil-VirtualBox:~$ scp  
usage: scp [-346ABCOpqRrsTv] [-c cipher] [-D sftp_server_path] [-F ssh_config]  
          [-i identity_file] [-J destination] [-l limit]  
          [-o ssh_option] [-P port] [-S program] source ... target  
jainil@jainil-VirtualBox:~$ sudo scp lorem.txt -p 1875 jainil@127.0.0.1:/home/ja  
inil/Desktop/Jainil_Folder  
[sudo] password for jainil:  
jainil@127.0.0.1's password:  
lorem.txt                                100%    0    0.0KB/s   00:00  
-p: No such file or directory  
1875: No such file or directory  
jainil@jainil-VirtualBox:~$ ls Desktop/Jainil_Folder/  
lorem.txt  
jainil@jainil-VirtualBox:~$
```