LINUX NETWORKING MODULE 1 AND 2 ASSESSMENT SOLUTIONS

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1. Consider a case, a folder has multiple files and how would copy it to destination machine path (Try using SCP, cp options in Linux)

Local Copy with cp

Command:

```
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:-$ cp -r "/home/sakthi-kumar-s/test_folder/" "/home/sakthi-kumar-s/Networking Assesments/Module1,2/"
```

```
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:-$ ls -l "/home/sakthi-kumar-s/Networking Assesments/Module1,2/"
total 4
drwxr-xr-x 2 sakthi-kumar-s sakthi-kumar-s 4096 Feb 25 17:17 test_folder
```

Remote Copy with scp:

- ➤ Source Folder: /home/sakthi-kumar-s/test folder
- > Destination Path on EC2: /home/ubuntu
- > EC2 Public IP: 54.172.71.17
- ➤ PEM File: /home/sakthi-kumar-s/Downloads/aws-key.pem
- ➤ Username on EC2: ubuntu

A remote cloud VM instance is taken to perform SCP

1)sending to cloud VM from VBox:

```
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:-$ chmod 400 "/home/sakthi-kumar-s/Downloads/aws-key.pem"
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:-$ scp ·i "/home/sakthi-kumar-s/Downloads/aws-key.pem" ·r "/home/sakthi-kumar-s/test_folder" ubuntu@54.172.71.17:/home/ubuntu/
file1.txt 100% 0 0.0KB/s 00:00
file2.txt 100% 26 0.0KB/s 00:00
```

Output of SCP on Ubuntu EC2 Instance:

```
ubuntu@ip-172-31-80-49:-$ ls
test_folder
ubuntu@ip-172-31-80-49:-$ cd test_folder
ubuntu@ip-172-31-80-49:-/test_folder$ ls
file1.txt file2.txt
```

2) Receiving from cloud VM to VBox:

```
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:-$ scp -i "/home/sakthi-kumar-s/Downloads/aws-key.pem" ubuntu@54.172.71.
17:/home/ubuntu/test_folder/file1.txt "/home/sakthi-kumar-s/"
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:-$ ls -l /home/sakthi-kumar-s/
total 64
drwxr-xr-x 2 sakthi-kumar-s sakthi-kumar-s 4096 Jan 20 15:25 Desktop
drwxr-xr-x 2 sakthi-kumar-s sakthi-kumar-s 4096 Jan 20 15:25 Documents
drwxr-xr-x 4 sakthi-kumar-s sakthi-kumar-s 4096 Feb 25 16:53 Downloads
-rwxr-xr-x 1 sakthi-kumar-s sakthi-kumar-s 0 Feb 25 17:15 file1.txt
```