

Procedure to Transfer Text Files Between Two Virtual Machines (Linux)

Requirements:

- Both VMs are on the same network or reachable via SSH.
- You have SSH access from VM1 to VM2 (or vice versa).
- You know the IP address and username of the destination VM.

Procedure (Using `scp`):

1. Create two text files on VM1:

```
echo "This is file1 before transfer." > file1.txt
```

```
echo "This is file2 before transfer." > file2.txt
```

2. Display contents of the files (Before Transfer):

```
echo "Contents of file1.txt:"
```

```
cat file1.txt
```

```
echo "Contents of file2.txt:"
```

```
cat file2.txt
```

3. Transfer files from VM1 to VM2 using `scp`:

```
scp file1.txt file2.txt username@<VM2_IP>:/home/username/
```

(Replace `username` with the actual username on VM2, and `<VM2_IP>` with the actual IP address of VM2.)

4. Log in to VM2 to verify transfer:

```
ssh username@<VM2_IP>
```

5. Display contents of the files on VM2 (After Transfer):

```
cd ~
```

```
echo "Contents of file1.txt on VM2:"
```

```
cat file1.txt
```

```
echo "Contents of file2.txt on VM2:"
```

```
cat file2.txt
```

6. Edit the files on VM2:

```
echo "This text is added on VM2." >> file1.txt
```

```
echo "Another line added on VM2." >> file2.txt
```

7. Display modified files on VM2:

```
cat file1.txt
```

```
cat file2.txt
```

8. Transfer back modified files from VM2 to VM1 (optional):

On VM2:

```
scp file1.txt file2.txt username@<VM1_IP>:/home/username/
```

Then on VM1:

```
cat file1.txt
```

```
cat file2.txt
```

Notes:

- If you frequently transfer files between VMs, consider setting up SSH key authentication.
- If the VMs are on different cloud providers (AWS, GCP, etc.), ensure firewall rules allow SSH access.