**STEP 1 :GO TO LOCATION WHERE YOUR JAR FILE IS PLACED**

C:\Users\ML Lab\Documents\BIG DATA ganesh jaggineni\21761A0590>

**STEP 2: COPY THE JAR FILE INTO STUDENT CLOUD**

scp matrixjarfile.jar [student@172.16.10.14:/home/student/VI\_CSE\_B/21761A0590](mailto:student@172.16.10.14:/home/student/VI_CSE_B/21761A0590)

* student@172.16.10.14's password: LbrceStudent

OUTPUT

matrixjarfile.jar 100% 5203 1.8MB/s 00:00

**STEP 3: LOGIN INTO STUDENT**

student@172.16.10.14's password: LbrceStudent

OUTPUT

Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-153-generic x86\_64) \* Documentation: https://help.ubuntu.com \* Management: https://landscape.canonical.com \* Support: https://ubuntu.com/advantage System information as of Tuesday 09 January 2024 02:35:53 PM IST System load: 0.75 Processes: 1467 Usage of /home: 40.8% of 117.15GB Users logged in: 2 Memory usage: 23% IPv4 address for docker0: 172.17.0.1 Swap usage: 0% IPv4 address for eno1np0: 172.16.10.14 Temperature: 37.0 C IPv4 address for virbr0: 192.168.100.1 => /u1 is using 87.6% of 253.34GB \* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s just raised the bar for easy, resilient and secure K8s cluster deployment. https://ubuntu.com/engage/secure-kubernetes-at-the-edge Expanded Security Maintenance for Applications is not enabled. 304 updates can be applied immediately. 274 of these updates are standard security updates. To see these additional updates run: apt list --upgradable 51 additional security updates can be applied with ESM Apps. Learn more about enabling ESM Apps service at https://ubuntu.com/esm New release '22.04.3 LTS' available. Run 'do-release-upgrade' to upgrade to it.

**STEP 4 : COPY THE JAR FILE FROM STUDENT TO HDUSER**

* cd VI\_CSE\_B/21761A0590
* scp matrixjarfile.jar [hduser@192.168.100.20:/home/hduser/VI\_CSE\_B/21761A0590](mailto:hduser@192.168.100.20:/home/hduser/VI_CSE_B/21761A0590)
* hduser@192.168.100.20's password: ipc

OUTPUT

matrixjarfile.jar 100% 5203 3.9MB/s 00:00

**STEP 5:CHANGE INDEX OF MATRIX**

Now again export jar file after changing the index to 4

**STEP 6: PERFROM SAME STEPS**

scp matrix4x4jarfile.jar student@172.16.10.14:/home/student/VI\_CSE\_B/21761A0590

ssh student@172.16.10.14

student@172.16.10.14's password:LbrceStudent

matrix4x4jarfile.jar 100% 5201 1.7MB/s 00:00

cd VI\_CSE\_B/21761A0590

scp matrix4x4jarfile.jar hduser@192.168.100.20:/home/hduser/VI\_CS

E\_B/21761A0590

hduser@192.168.100.20's password:

matrix4x4jarfile.jar 100% 5201 4.5MB/s 00:00

ssh hduser@192.168.100.20 hduser@192.168.100.20's password: ipc

**STEP 7 :CREATE INDEX 2,4 MATRIX’s**

cat matinput2.txt

M,0,0,1

M,0,1,2

M,1,0,3

M,1,1,4

N,0,0,1

N,0,1,2

N,1,0,3

N,1,1,4

Matinput4.txt

M,0,0,1 M,0,1,2 M,1,0,3 M,1,1,4 N,0,0,1 N,0,1,2 N,1,0,3 N,1,1,4 M,0,0,1 M,0,1,2 M,1,0,3 M,1,1,4 N,0,0,1 N,0,1,2 N,1,0,3 N,1,1,4