ROLL N.O: 422123 SEC: A **UNIX ASSIGNMENT** Q) Write a shell script that list the memory usage and cpu usage of multiple machines. Ans: mem.sh: #!/bin/bash # Define the list of remote machines machines=("student@172.50.4.235" "student@172.50.11.107") # Iterate over each machine and retrieve memory and CPU usage for machine in "\${machines[@]}"; do echo "Memory and CPU usage for \$machine:" # SSH into the remote machine and retrieve memory usage echo "Memory Usage:" ssh "\$machine" 'free -m' # SSH into the remote machine and retrieve CPU usage echo "CPU Usage:" ssh "\$machine" 'mpstat' echo done

NAME: B RAMA KRISHNA

## **OUT PUT:**

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Memory and CPU usage for student@172.50.4.235:
Memory and CPU usage for Studenty, 12.50.

Memory Usage:
The authenticity of host '172.50.4.235 (172.50.4.235)' can't be established.

ECDSA key fingerprint is SHA256:LEXifvg3aS96w1vXBxu/+m4tEmi6AGS1krx5xB8i/pc.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '172.50.4.235' (ECDSA) to the list of known hosts.

student@172.50.4.235's password:

total used free shared buff/cache availab

15768 1680 12418 10 1669 137
                                                                                                                        shared buff/cache available
                                                                                                                                                                                     13784
 Swap:
                                    2047
                                                                                               2047
Swap.

CPU Usage:
student@172.50.4.235's password:
Linux 5.15.0-79-generic (ai-HP-ProDesk-600-G4-MT)
                                                                                                                                                                                                                       (12 CPU)
                                                                                                                                         08/04/24
                                                                                                                                                                                _x86_64_
                                                                                             %sys %iowait %irq %soft %steal %guest %gnice %idle 0.29 6.88 0.00 0.03 0.00 0.00 0.00 92.37
04:13:25 PM IST CPU %usr %nice
04:13:25 PM IST all 0.36 0.07
Memory and CPU usage for student@172.50.11.107:

Memory Usage:
The authenticity of host '172.50.11.107 (172.50.11.107)' can't be established.

ECDSA key fingerprint is SHA256:MnQ9jIhUpzrDaLciD6MB0Xl3H8mH09/poFmg/elPd4I.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '172.50.11.107' (ECDSA) to the list of known hosts.

student@172.50.11.107's password:

total used free shared buff/cache available
                                                                                             free
10082
                                                                                                                       shared buff/cache available
31 3111 12856
                            total
15768
                                                        used
2575
New: 19700
Swap: 2047 0
CPU Usage:
student@172.50.11.107's password:
Linux 5.15.0-82-generic (hp-prodesk)
                                                                                                2047
                                                                                                  08/04/24
                                                                                                                                         _x86_64_
                                                                                                                                                                                 (12 CPU)
04:13:40 PM IST CPU
04:13:40 PM IST all
                                                                                                                                                        %soft %steal %guest %gnice
0.02 0.00 0.00 0.00
                                                                            %nice
                                                                                                  %sys %iowait
                                                                                                                                          %irq
                                                                                                                                                                                                                                          %idle
                                                                            0.06
                                                                                                  0.78 6.74
                                                                                                                                          0.00
```