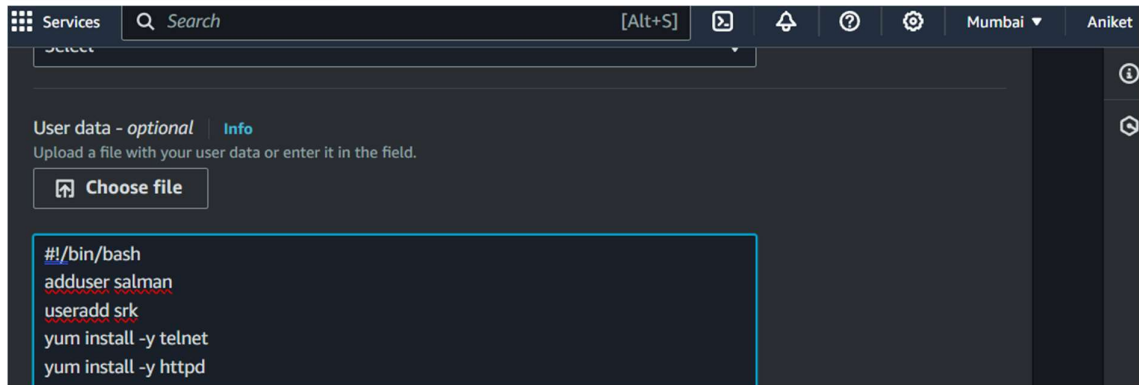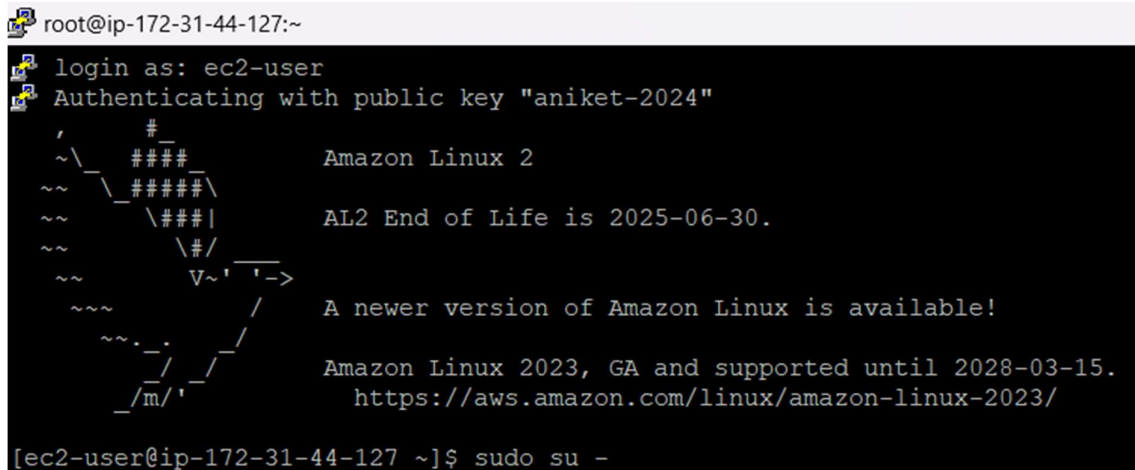# BOOTSTRAPING PRACTICAL - ANIKET THORAT
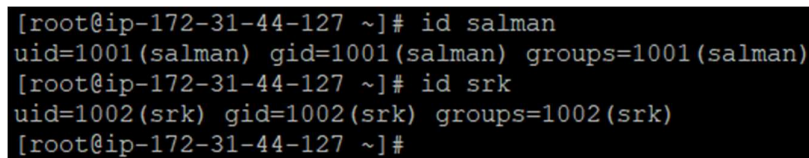
1. CREATE A EC2 INSTANCE WITH STUFFING AND INSTALLING SOME PACAKAGES

![screenshot of AWS user data field with bootstrap script]

User data - *optional* | Info
Upload a file with your user data or enter it in the field.

⬆ Choose file

```
#!/bin/bash
adduser salman
useradd srk
yum install -y telnet
yum install -y httpd
```

2. CONNECT THE INSTANCE VIA PUTTY

![PuTTY terminal showing login to Amazon Linux 2 instance]

```
login as: ec2-user
Authenticating with public key "aniket-2024"

       #_
    ~\_  ####_          Amazon Linux 2
 ~~  \_#####\
 ~~     \###|           AL2 End of Life is 2025-06-30.
 ~~     \#/ ___
  ~~     V~' '->
   ~~~       /          A newer version of Amazon Linux is available!
    ~~._.   _/
      _/ _/             Amazon Linux 2023, GA and supported until 2028-03-15.
    _/m/'                   https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-44-127 ~]$ sudo su -
```

3. CHECKED THE USER, GROUP CREATED OR NOT AS WE STUFFD

```
[root@ip-172-31-44-127 ~]# id salman
uid=1001(salman) gid=1001(salman) groups=1001(salman)
[root@ip-172-31-44-127 ~]# id srk
uid=1002(srk) gid=1002(srk) groups=1002(srk)
[root@ip-172-31-44-127 ~]#
```

4. CHECK THE MOMORY

```
[root@ip-172-31-44-127 ~]# free -m
              total        used        free      shared  buff/cache   available
Mem:            952          74         282           0         594         742
Swap:             0           0           0
```
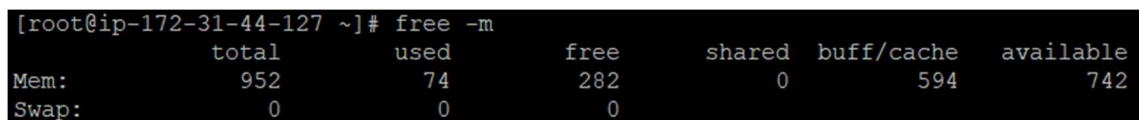
5. CHECK THE HARDISK

```
[root@ip-172-31-44-127 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        467M     0  467M   0% /dev
tmpfs           477M     0  477M   0% /dev/shm
tmpfs           477M  404K  476M   1% /run
tmpfs           477M     0  477M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.8G  6.3G  23% /
tmpfs            96M     0   96M   0% /run/user/1000
[root@ip-172-31-44-127 ~]# lsblk
NAME    MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda    202:0    0   8G  0 disk
└─xvda1 202:1    0   8G  0 part /
```

6. RUN THE TOP COMMAND TO CHECK THE RUNNING PROCESS

```
[root@ip-172-31-44-127 ~]# top
Tasks: 100 total,   1 running,  52 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.7 us,  0.0 sy,  0.0 ni, 98.6 id,  0.0 wa,  0.0 hi,  0.0 si,  0.7 st
KiB Mem :  975536 total,  290176 free,   75760 used,  609600 buff/cache
KiB Swap:       0 total,       0 free,       0 used.  761304 avail Mem
Renice PID 1 to value
  PID USER      PR  NI    VIRT    RES    SHR S %CPU %MEM     TIME+ COMMAND
    1 root      20   0  120.8m   5.4m   3.8m S  0.0  0.6   0:01.99 systemd
    2 root      20   0    0.0m   0.0m   0.0m S  0.0  0.0   0:00.00 kthreadd
    3 root       0 -20    0.0m   0.0m   0.0m I  0.0  0.0   0:00.00 rcu_gp
    4 root       0 -20    0.0m   0.0m   0.0m I  0.0  0.0   0:00.00 rcu_par_gp
    5 root      20   0    0.0m   0.0m   0.0m I  0.0  0.0   0:00.00 kworker/0:0+
    6 root       0 -20    0.0m   0.0m   0.0m I  0.0  0.0   0:00.00 kworker/0:0+
    7 root      20   0    0.0m   0.0m   0.0m I  0.0  0.0   0:00.07 kworker/u30+
    8 root       0 -20    0.0m   0.0m   0.0m I  0.0  0.0   0:00.00 mm_percpu_wq
    9 root      20   0    0.0m   0.0m   0.0m S  0.0  0.0   0:00.00 rcu_tasks_r+
   10 root      20   0    0.0m   0.0m   0.0m S  0.0  0.0   0:00.00 rcu_tasks_t+
   11 root      20   0    0.0m   0.0m   0.0m S  0.0  0.0   0:00.02 ksoftirqd/0
   12 root      20   0    0.0m   0.0m   0.0m I  0.0  0.0   0:00.12 rcu_sched
```

7. CHECK THE PACKAGE OF HTTPD &TELNET IS INSTALLED OR NOT

```
[root@ip-172-31-44-127 ~]# rpm -qa | grep telnet
telnet-0.17-65.amzn2.x86_64
[root@ip-172-31-44-127 ~]# rpm -qa
libpipeline-1.2.3-3.amzn2.0.2.x86_64
```

8. CHECK THE TOTAL NUMBER OF PACKAGES INSTALLED ON THE SYSTEM

```
[root@ip-172-31-44-127 ~]# rpm -qa | wc -l
465
[root@ip-172-31-44-127 ~]#
```