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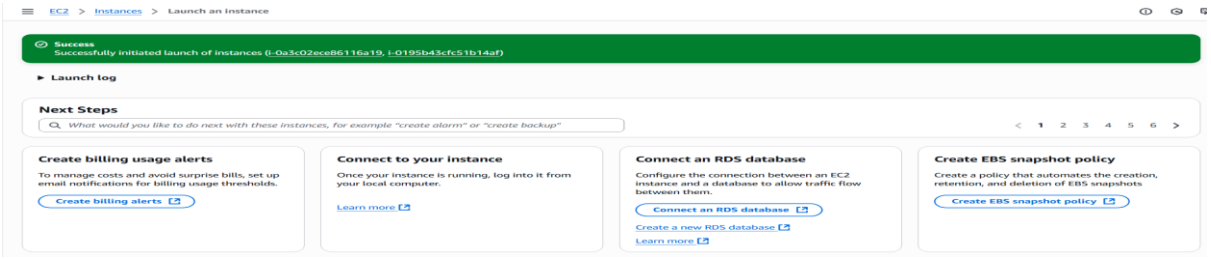
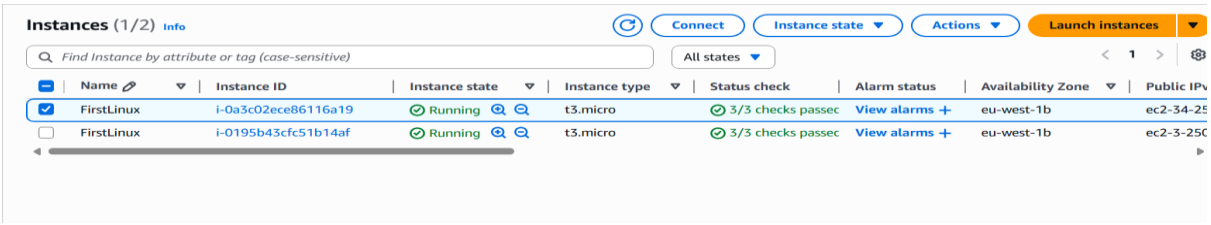
AWS Console Task: Launch Two Amazon Linux Instances

Date: 22/10/2025

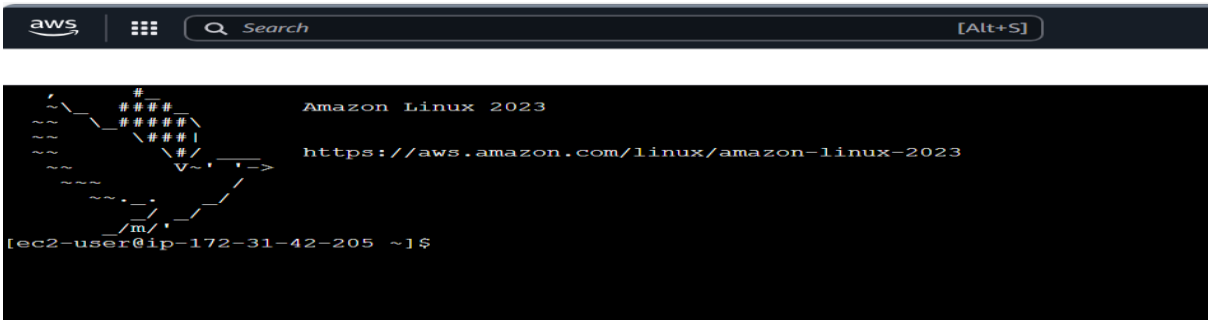
Part 1 – Two Amazon Linux EC2 instances (t2.micro or t3.micro) within the Free Tier

Connection established



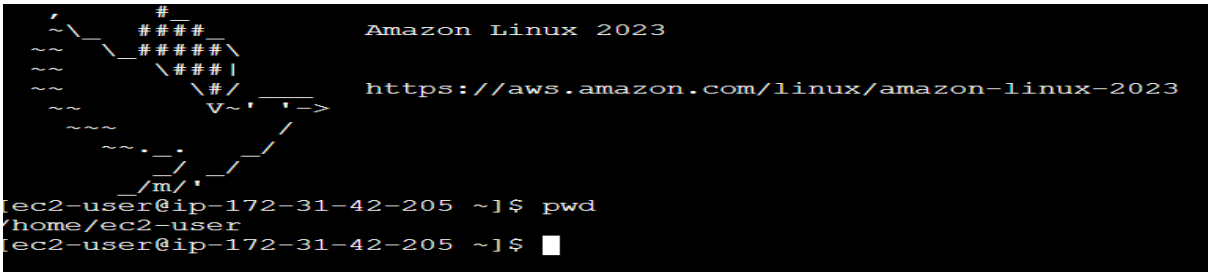


Linux Machine created



Part 2 - Linux Commands

Current working directory - /home/ec2-user



Task2 - Files and directories in the current location, including hidden files

```
[ec2-user@ip-172-31-33-127 test_folder]$ ls -a
.  ..
[ec2-user@ip-172-31-33-127 test_folder]$
```

Task 3 - New folder - test_folder

move inside it, confirm your location, and then delete the folder

```
[ec2-user@ip-172-31-42-205 ~]$ mkdir test_folder
[ec2-user@ip-172-31-42-205 ~]$ cd test_folder
[ec2-user@ip-172-31-42-205 test_folder]$ pwd
/home/ec2-user/test_folder
[ec2-user@ip-172-31-42-205 test_folder]$
```

Folder deleted

```
[ec2-user@ip-172-31-42-205 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-42-205 ~]$ cd test_folder
[ec2-user@ip-172-31-42-205 test_folder]$ ls
[ec2-user@ip-172-31-42-205 test_folder]$ pwd
/home/ec2-user/test_folder
[ec2-user@ip-172-31-42-205 test_folder]$ sudo rm -rf test_folder
[ec2-user@ip-172-31-42-205 test_folder]$ ls
[ec2-user@ip-172-31-42-205 test_folder]$ pwd
/home/ec2-user/test_folder
[ec2-user@ip-172-31-42-205 test_folder]$ ls -l
total 0
[ec2-user@ip-172-31-42-205 test_folder]$
```

```
[ec2-user@ip-172-31-33-127 test_folder]$ cd ..
[ec2-user@ip-172-31-33-127 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-33-127 ~]$ ls
test_folder
[ec2-user@ip-172-31-33-127 ~]$ rmdir test_folder
[ec2-user@ip-172-31-33-127 ~]$ ls
[ec2-user@ip-172-31-33-127 ~]$
```

Task 4- hello.txt file created

The file contains “Hello Amazon Linux”

then display its contents on the screen

```
'Hello Amazon Linux'   hello.txt   test_folder
[ec2-user@ip-172-31-42-205 ~]$ echo "Hello Amazon Linux" >> /home/ec2-user/hello.txt
[ec2-user@ip-172-31-42-205 ~]$ ls
'Hello Amazon Linux'   hello.txt   test_folder
[ec2-user@ip-172-31-42-205 ~]$ cat /home/ec2-user/hello.txt
Hello Amazon Linux
[ec2-user@ip-172-31-42-205 ~]$
```

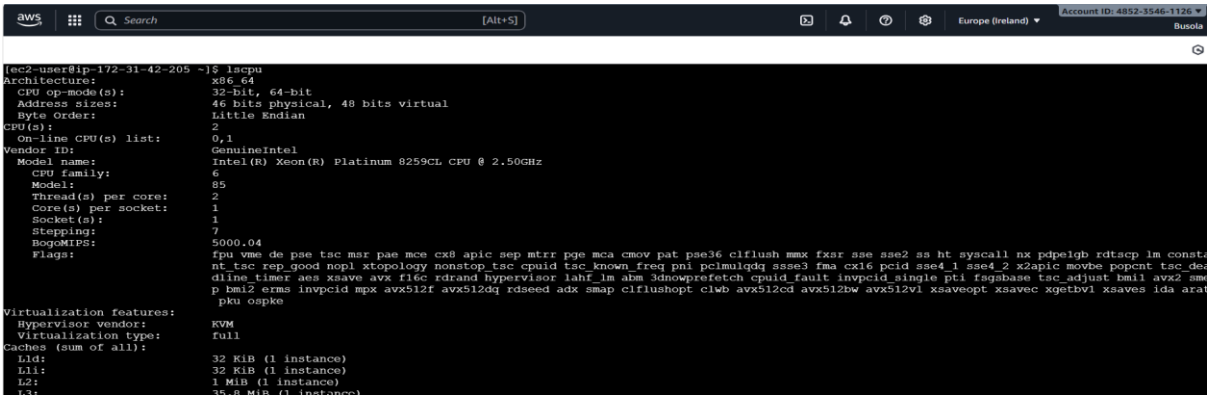
Task 5- Check how much disk space is being used and how much is available on your system

```
[ec2-user@ip-172-31-33-127 ~]$ df
Filesystem        1K-blocks     Used Available Use% Mounted on
devtmpfs                4096        0      4096   0% /dev
tmpfs                 463276        0    463276   0% /dev/shm
tmpfs                 185312      432    184880   1% /run
/dev/nvme0n1p1       8310764  1606092   6704672  20% /
tmpfs                 463276        0    463276   0% /tmp
/dev/nvme0n1p128      10202     1314      8888  13% /boot/efi
tmpfs                  92652        0     92652   0% /run/user/1000
[ec2-user@ip-172-31-33-127 ~]$
```

Task 6- Find out how much memory (RAM) is available and currently being used

```
[ec2-user@ip-172-31-42-205 ~]$ free -m
               total        used        free      shared  buff/cache   available
Mem:             904         166         522           0         215         608
Swap:              0           0           0
[ec2-user@ip-172-31-42-205 ~]$
```

Task 7- Display detailed CPU information – such as model, cores, and architecture



Task 8- Check the list of running processes on your system and identify which one uses the most CPU.

These are the list of running processes but there is no count for the CPU

```
[ec2-user@ip-172-31-33-127 ~]$ ps aux
USER         PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root           1  0.0  1.8 172372 17244 ?        Ss   22:29   0:00 /usr/lib/systemd/systemd --switched-root --system --deserialize=32
root           2  0.0  0.0      0     0 ?        S    22:29   0:00 [kthreadd]
root           3  0.0  0.0      0     0 ?        I<   22:29   0:00 [rcu_gp]
root           4  0.0  0.0      0     0 ?        I<   22:29   0:00 [rcu_par_gp]
root           5  0.0  0.0      0     0 ?        I<   22:29   0:00 [slub_flushwq]
root           6  0.0  0.0      0     0 ?        I<   22:29   0:00 [netns]
root           8  0.0  0.0      0     0 ?        I<   22:29   0:00 [kworker/0:0H-events_highpri]
root          10  0.0  0.0      0     0 ?        I<   22:29   0:00 [mm_percpu_wq]
root          11  0.0  0.0      0     0 ?        I    22:29   0:00 [rcu_tasks_kthread]
root          12  0.0  0.0      0     0 ?        I    22:29   0:00 [rcu_tasks_rude_kthread]
root          13  0.0  0.0      0     0 ?        I    22:29   0:00 [rcu_tasks_trace_kthread]
root          14  0.0  0.0      0     0 ?        S    22:29   0:00 [ksoftirqd/0]
root          15  0.0  0.0      0     0 ?        I    22:29   0:00 [rcu_preempt]
root          16  0.0  0.0      0     0 ?        S    22:29   0:00 [migration/0]
root          18  0.0  0.0      0     0 ?        S    22:29   0:00 [cpuhp/0]
root          19  0.0  0.0      0     0 ?        S    22:29   0:00 [cpuhp/1]
root          20  0.0  0.0      0     0 ?        S    22:29   0:00 [migration/1]
root          21  0.0  0.0      0     0 ?        S    22:29   0:00 [ksoftirqd/1]
root          22  0.0  0.0      0     0 ?        I    22:29   0:00 [kworker/1:0-events]
root          23  0.0  0.0      0     0 ?        I<   22:29   0:00 [kworker/1:0H-events_highpri]
root          26  0.0  0.0      0     0 ?        S    22:29   0:00 [kdevtmpfs]
root          27  0.0  0.0      0     0 ?        I<   22:29   0:00 [inet_frag_wq]
root          28  0.0  0.0      0     0 ?        S    22:29   0:00 [kauditd]
root          29  0.0  0.0      0     0 ?        S    22:29   0:00 [khungtaskd]
root          30  0.0  0.0      0     0 ?        S    22:29   0:00 [oom_reaper]
```

```
root          32  0.0  0.0      0     0 ?        I<   22:29   0:00 [writeback]
root          33  0.0  0.0      0     0 ?        S    22:29   0:00 [kcompactd0]
root          34  0.0  0.0      0     0 ?        SN   22:29   0:00 [khugepaged]
root          35  0.0  0.0      0     0 ?        I<   22:29   0:00 [cryptd]
root          36  0.0  0.0      0     0 ?        I<   22:29   0:00 [kintegrityd]
root          37  0.0  0.0      0     0 ?        I<   22:29   0:00 [kblockd]
root          38  0.0  0.0      0     0 ?        I<   22:29   0:00 [blkcg_punt_bio]
root          40  0.0  0.0      0     0 ?        I<   22:29   0:00 [tpm_dev_wq]
root          41  0.0  0.0      0     0 ?        I<   22:29   0:00 [md]
root          42  0.0  0.0      0     0 ?        I<   22:29   0:00 [edac-poller]
root          43  0.0  0.0      0     0 ?        S    22:29   0:00 [watchdogd]
root          44  0.0  0.0      0     0 ?        I<   22:29   0:00 [kworker/0:1H-kblockd]
root          67  0.0  0.0      0     0 ?        S    22:29   0:00 [kswapd0]
root          70  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfsalloc]
root          71  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfs_mru_cache]
root          74  0.0  0.0      0     0 ?        I<   22:29   0:00 [kthrotld]
root         121  0.0  0.0      0     0 ?        I<   22:29   0:00 [nvme-wq]
root         123  0.0  0.0      0     0 ?        I<   22:29   0:00 [nvme-reset-wq]
root         125  0.0  0.0      0     0 ?        I<   22:29   0:00 [nvme-delete-wq]
root         132  0.0  0.0      0     0 ?        I    22:29   0:00 [kworker/u4:4-events_unbound]
root         133  0.0  0.0      0     0 ?        I<   22:29   0:00 [mld]
root         156  0.0  0.0      0     0 ?        I<   22:29   0:00 [ipv6_addrconf]
root         172  0.0  0.0      0     0 ?        I<   22:29   0:00 [kstrp]
root         182  0.0  0.0      0     0 ?        I<   22:29   0:00 [zswap-shrink]
root         183  0.0  0.0      0     0 ?        I<   22:29   0:00 [kworker/u5:0]
root         305  0.0  0.0      0     0 ?        I<   22:29   0:00 [kworker/1:1H-kblockd]
root         769  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfs-buf/nvme0n1]
```

```
root         771  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfs-conv/nvme0n]
root         774  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfs-reclaim/nvm]
root         776  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfs-blockgc/nvm]
root         778  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfs-inodegc/nvm]
root         779  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfs-log/nvme0n1]
root         780  0.0  0.0      0     0 ?        I<   22:29   0:00 [xfs-cil/nvme0n1]
root         781  0.0  0.0      0     0 ?        S    22:29   0:00 [xfsaild/nvme0n1p1]
root         830  0.0  1.6  53524 14920 ?        Ss   22:29   0:00 /usr/lib/systemd/systemd-journald
root        1240  0.0  1.2  31972 11540 ?        Ss   22:29   0:00 /usr/lib/systemd/systemd-udevd
systemd+    1263  0.0  1.6  22548 14908 ?        Ss   22:29   0:00 /usr/lib/systemd/systemd-resolved
root        1265  0.0  0.2  21180  2296 ?        S<sl 22:29   0:00 /sbin/auditd
root        1274  0.0  0.0      0     0 ?        I<   22:29   0:00 [rpciod]
root        1277  0.0  0.0      0     0 ?        I<   22:29   0:00 [xprtiod]
root        1338  0.0  0.0      0     0 ?        I<   22:29   0:00 [ena]
root        1402  0.0  0.6  16348  6400 ?        Ss   22:29   0:00 /usr/bin/systemd-inhibit --what=handle-suspend-key:handle-hibernate-key
root        1405  0.0  0.3  81420  3160 ?        Ssl  22:29   0:00 /usr/sbin/irqbalance --foreground
libstor+    1406  0.0  0.2   2772  1980 ?        Ss   22:29   0:00 /usr/bin/lsmd -d
root        1409  0.0  0.8  16852  7944 ?        Ss   22:29   0:00 /usr/lib/systemd/systemd-homed
root        1410  0.0  1.0  18688  9900 ?        Ss   22:29   0:00 /usr/lib/systemd/systemd-logind
dbus        1432  0.0  0.4   8480  4116 ?        Ss   22:29   0:00 /usr/bin/dbus-broker-launch --scope system --audit
systemd+    1434  0.0  1.0 236940  9940 ?        Ss   22:29   0:00 /usr/lib/systemd/systemd-networkd
dbus        1436  0.0  0.3   5376  2908 ?        S    22:29   0:00 dbus-broker --log 4 --controller 9 --machine-id ec24da0932a4cf1b85bc583
root        1437  0.0  0.1   2684  1136 ?        S    22:29   0:00 /usr/sbin/acpid -f
root        1441  0.0  0.4 281944  3720 ?        Ssl  22:29   0:00 /usr/sbin/gssproxy -D
root        1569  0.0  1.9 1240436 18440 ?       Ssl  22:29   0:00 /usr/bin/amazon-ssm-agent
root        1573  0.0  0.8  14372  7884 ?        Ss   22:29   0:00 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
root        1583  0.0  0.2   4760  2592 ?        Ss   22:29   0:00 /usr/sbin/atd -f
```

```
systemd+    1434  0.0  1.0 236940  9940 ?        Ss   22:29   0:00 /usr/lib/systemd/systemd-networkd
dbus        1436  0.0  0.3   5376  2908 ?        S    22:29   0:00 dbus-broker --log 4 --controller 9 --machine-id ec24da093
root        1437  0.0  0.1   2684  1136 ?        S    22:29   0:00 /usr/sbin/acpid -f
root        1441  0.0  0.4 281944  3720 ?        Ssl  22:29   0:00 /usr/sbin/gssproxy -D
root        1569  0.0  1.9 1240436 18440 ?       Ssl  22:29   0:00 /usr/bin/amazon-ssm-agent
root        1573  0.0  0.8  14372  7884 ?        Ss   22:29   0:00 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
root        1583  0.0  0.2   4760  2592 ?        Ss   22:29   0:00 /usr/sbin/atd -f
root        1590  0.0  0.1 221360  1076 tty1     Ss+  22:29   0:00 /sbin/agetty -o -p -- \u --noclear - linux
root        1593  0.0  0.1 221404  1076 ttyS0    Ss+  22:29   0:00 /sbin/agetty -o -p -- \u --keep-baud 115200,57600,38400,9
chrony      1603  0.0  0.3  86328  3112 ?        S    22:29   0:00 /usr/sbin/chronyd -F 2
root        1752  0.0  1.1  15972 10220 ?        Ss   22:31   0:00 sshd: ec2-user [priv]
root        2083  0.0  0.7  16348  6872 ?        Ss   22:31   0:00 /usr/lib/systemd/systemd-userdbd
ec2-user    2088  0.0  1.5  21832 13932 ?        Ss   22:31   0:00 /usr/lib/systemd/systemd --user
ec2-user    2090  0.0  0.7 108172  6616 ?        S    22:31   0:00 (sd-pam)
ec2-user    2097  0.0  0.6  15972  6288 ?        S    22:31   0:00 sshd: ec2-user@pts/0
ec2-user    2098  0.0  0.5 224044  5004 pts/0    Ss   22:31   0:00 -bash
root        2223  0.0  0.0      0     0 ?        I    22:35   0:00 [kworker/0:0-events]
root        2587  0.0  0.0      0     0 ?        I    22:48   0:00 [kworker/u4:1-events_unbound]
root        2588  0.0  0.0      0     0 ?        I    22:48   0:00 [kworker/0:2-events]
root        2687  0.0  0.0      0     0 ?        I    22:51   0:00 [kworker/1:1-cgroup_free]
root        2688  0.0  0.7  16708  6808 ?        S    22:52   0:00 systemd-userwork: waiting...
root        2689  0.0  0.7  16708  6756 ?        S    22:52   0:00 systemd-userwork: waiting...
root        2690  0.0  0.7  16708  6808 ?        S    22:52   0:00 systemd-userwork: waiting...
root        2790  0.0  0.0      0     0 ?        I    22:55   0:00 [kworker/u4:0-events_unbound]
root        2791  0.0  0.0      0     0 ?        I    22:56   0:00 [kworker/0:1-events_power_efficient]
ec2-user    2792  0.0  0.3 223592  2824 pts/0    R+   22:57   0:00 ps aux
[ec2-user@ip-172-31-33-127 ~]$
```

Task 9- Find out how long the system has been running since last reboot, along with the average load.

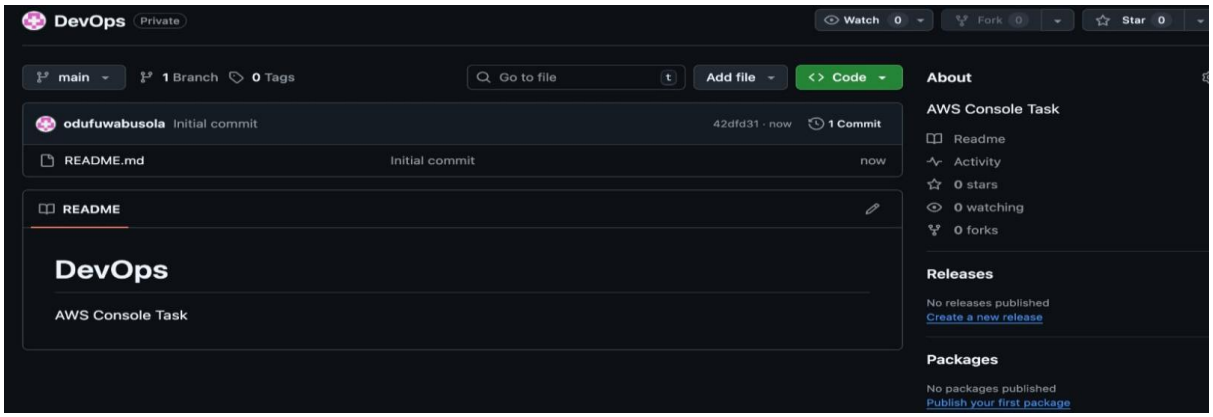
```
[ec2-user@ip-172-31-33-127 ~]$ uptime
 23:08:29 up 39 min,  1 user,  load average: 0.00, 0.00, 0.00
[ec2-user@ip-172-31-33-127 ~]$
```

Task 10- View the latest entries in the system log to observe recent activity or errors.

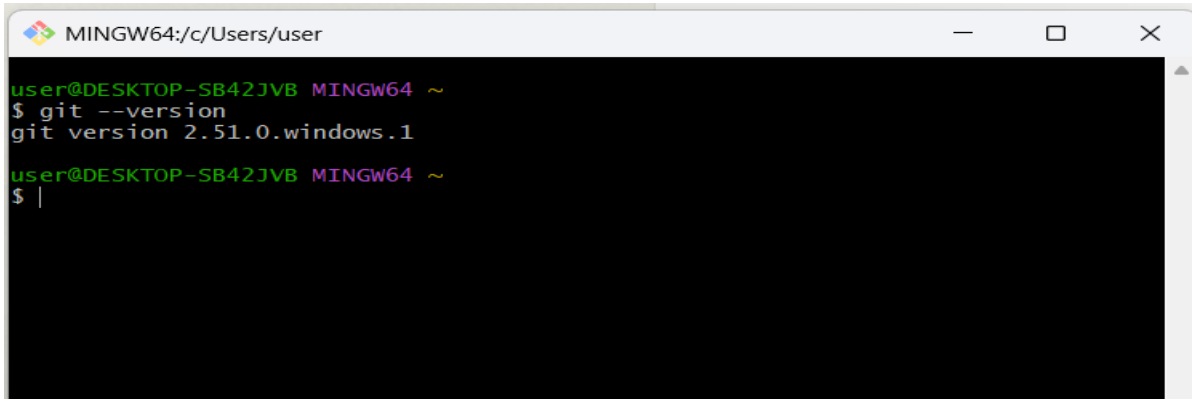
```
[ec2-user@ip-172-31-33-127 ~]$ journalctl -r
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal audit[1]: SERVICE_STOP pid=1 uid=0 auid=4294967295 ses=4294967295 subj=system_u:system_r:init_t:s0 msg='unit
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal audit[1]: SERVICE_START pid=1 uid=0 auid=4294967295 ses=4294967295 subj=system_u:system_r:init_t:s0 msg='uni
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal systemd[1]: Finished refresh-policy-routes@ens5.service - Refresh policy routes for ens5.
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal systemd[1]: refresh-policy-routes@ens5.service: Deactivated successfully.
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: No networkd reload needed
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: Called trap
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: [get_meta] Querying IMDS for network/interfaces/macs/0a:19:12:ca:05:23/local-ipv4s
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: [get_meta] Querying IMDS for mac
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: [get_meta] Querying IMDS for mac
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: Using existing cfgfile /run/systemd/network/70-ens5.network
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: [get_meta] Querying IMDS for mac
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: [get_meta] Querying IMDS for mac
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: Got IMDSv2 token for interface ens5 from http://169.254.169.254/latest via ens5
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3153]: Starting configuration refresh for ens5
Oct 21 23:11:55 ip-172-31-33-127.eu-west-1.compute.internal systemd[1]: Starting refresh-policy-routes@ens5.service - Refresh policy routes for ens5...
Oct 21 23:10:45 ip-172-31-33-127.eu-west-1.compute.internal audit[1]: SERVICE_STOP pid=1 uid=0 auid=4294967295 ses=4294967295 subj=system_u:system_r:init_t:s0 msg='unit
Oct 21 23:10:45 ip-172-31-33-127.eu-west-1.compute.internal audit[1]: SERVICE_START pid=1 uid=0 auid=4294967295 ses=4294967295 subj=system_u:system_r:init_t:s0 msg='uni
Oct 21 23:10:45 ip-172-31-33-127.eu-west-1.compute.internal systemd[1]: Finished sysstat-collect.service - system activity accounting tool.
Oct 21 23:10:45 ip-172-31-33-127.eu-west-1.compute.internal systemd[1]: sysstat-collect.service: Deactivated successfully.
Oct 21 23:10:45 ip-172-31-33-127.eu-west-1.compute.internal systemd[1]: Starting sysstat-collect.service - system activity accounting tool...
Oct 21 23:09:55 ip-172-31-33-127.eu-west-1.compute.internal audit[1]: SERVICE_STOP pid=1 uid=0 auid=4294967295 ses=4294967295 subj=system_u:system_r:init_t:s0 msg='unit
Oct 21 23:09:55 ip-172-31-33-127.eu-west-1.compute.internal audit[1]: SERVICE_START pid=1 uid=0 auid=4294967295 ses=4294967295 subj=system_u:system_r:init_t:s0 msg='uni
Oct 21 23:09:55 ip-172-31-33-127.eu-west-1.compute.internal systemd[1]: Finished refresh-policy-routes@ens5.service - Refresh policy routes for ens5.
Oct 21 23:09:55 ip-172-31-33-127.eu-west-1.compute.internal systemd[1]: refresh-policy-routes@ens5.service: Deactivated successfully.
Oct 21 23:09:55 ip-172-31-33-127.eu-west-1.compute.internal ec2net[3101]: No networkd reload needed
```

Part 3- Create a GitHub Account

Objective: Set up a free account on **GitHub** to store, manage, and share your code repositories.



Part 4 – Install Git on Your Machine

Objective: Install Git, the version-control tool used to interact with GitHub.

Windows Users