

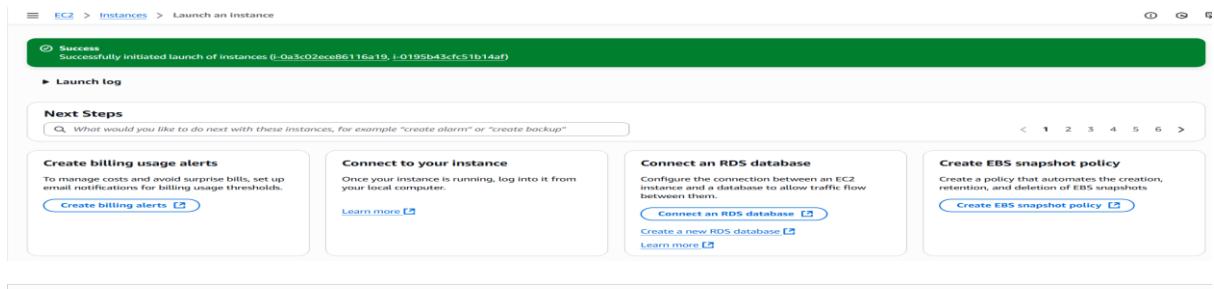
Name: Busola Odufuwa

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

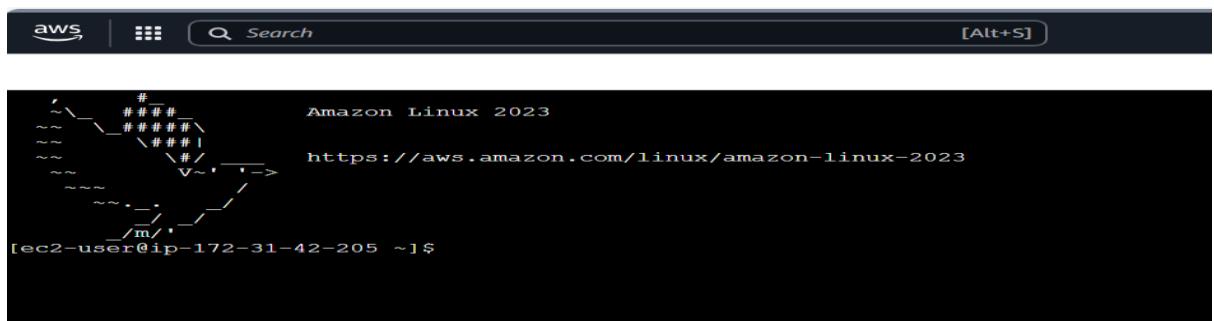
Connection established



The screenshot shows the AWS EC2 Instances launch success screen. It displays a green success message: "Successfully initiated launch of instances i-0a3c02ece86116a19, i-0195b43cf51b14af". Below this, there are four cards: "Create billing usage alerts", "Connect to your instance", "Connect an RDS database", and "Create EBS snapshot policy". At the bottom, the "Instances (1/2) Info" table shows two instances: "FirstLinux" (i-0a3c02ece86116a19, t3.micro, Running, eu-west-1b, ec2-34-25) and another "FirstLinux" (i-0195b43cf51b14af, t3.micro, Running, eu-west-1b, ec2-3-250).

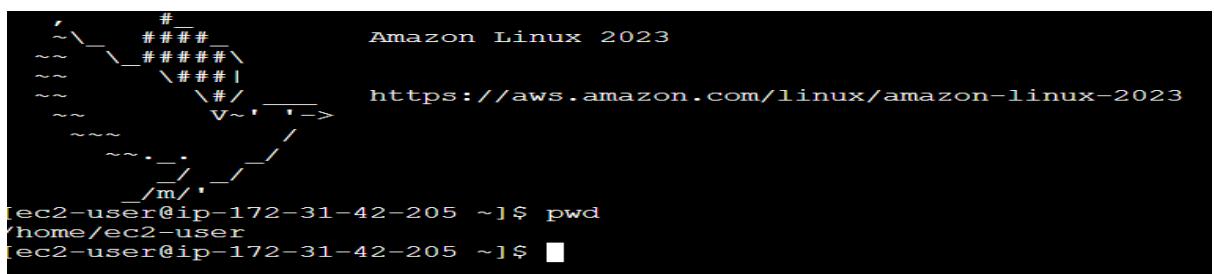
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
FirstLinux	i-0a3c02ece86116a19	Running	t3.micro	3/3 checks passed	View alarms +	eu-west-1b	ec2-34-25
FirstLinux	i-0195b43cf51b14af	Running	t3.micro	3/3 checks passed	View alarms +	eu-west-1b	ec2-3-250

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 ~]$ █
```

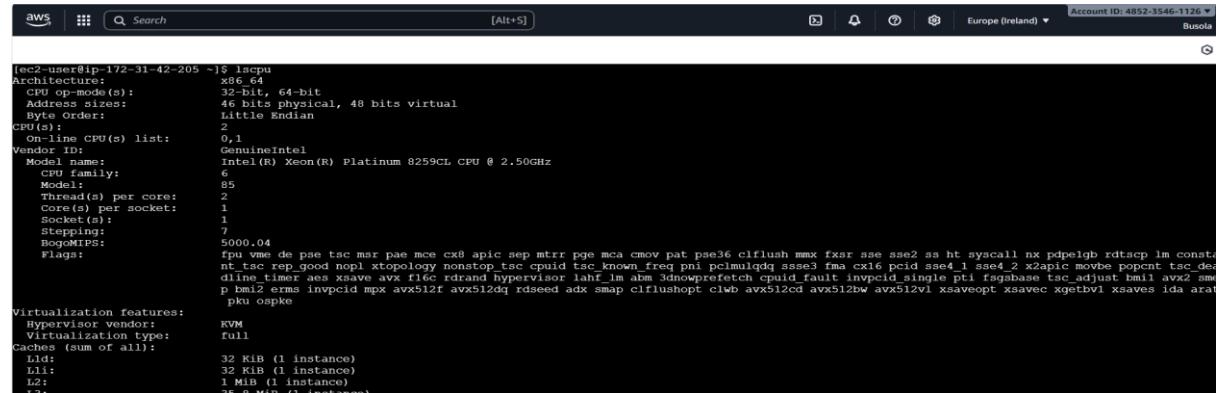
Task 5- Check how much disk space is being used and how much is available on your system

```
[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



The screenshot shows a CloudWatch Metrics dashboard with a single metric named 'CPU'. The chart displays CPU usage over time, with a red line indicating the average CPU utilization. The Y-axis ranges from 0% to 100%, and the X-axis shows time intervals. The legend indicates the series is 'CPU'.

```
[ec2-user@ip-172-31-42-205 ~]$ lscpu
Architecture:           x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:          48 bits physical, 48 bits virtual
Byte Order:             Little Endian
CPU(s):                2
On-line CPU(s) list:   0,1
Vendor ID:              GenuineIntel
Model name:             Intel(R) Xeon(R) Platinum 8259CL CPU @ 2.50GHz
CPU family:             6
Model:                 85
Thread(s) per core:    2
Core(s) per socket:    1
Socket(s):              1
Stepping:               7
BogomIPS:              5000.04
Flags:                 fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr ase ase2 ss ht syscall nx pdpe1gb rdtscp lm consta
nt_tsc rep_good nopl xtstopology nonstop_tsc cpuid tsc_known_freq pnpi clmulqdq ssse3 fma cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt tsc deadline_timer aes xsave avx f16c rdrand hypervisor lahf_lm abm 3dnowprefetch cpuid_fault invpcid_single pti fsgsbase tsc_adjust bmi1 avx2 sm
p bmi2 erms invpcid mpx avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl xsaveopt xsaves ida arat
pku ospe
Virtualization features:
Hypervisor vendor: KVM
Virtualization type: full
Caches (sum of all):
L1d:            32 KIB (1 instance)
L1i:            32 KIB (1 instance)
L2:             1 MIB (1 instance)
L3:            48.0 MiB (1 instance)
```

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_prempt]
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 [kauditfd]
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/nvmeOn1]

root	771	0.0	0.0	0	0	?	I<	22:29	0:00	[xfs-conv/nvmeOn1]
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/nvmeOn1]
root	780	0.0	0.0	0	0	?	I<	22:29	0:00	[xfs-cil/nvmeOn1]
root	781	0.0	0.0	0	0	?	S	22:29	0:00	[xfsaaid/nvmeOn1p1]
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	[xpriod]
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/lsmad -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	?	Ss	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	tty50	Ss+	22:29	0:00	/sbin/agetty -o -p -- \u --keep-baud 115200,57600,38400,
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

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

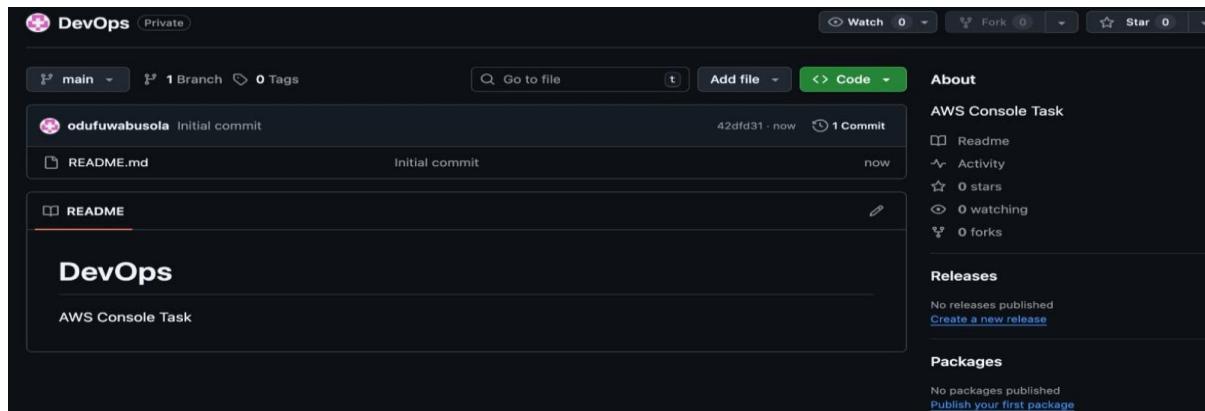
```
[ec2-user@ip-172-31-33-127 ~]$ uptime
23:08:29 up 39 min, 1 user, load average: 0.00, 0.00, 0.00
[ec2-user@ip-172-31-33-127 ~]$
```

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 audit[3153]: 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]: 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 23:09:55 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

A screenshot of a Windows terminal window titled 'MINGW64:/c/Users/user'. The command 'git --version' is run, and the output 'git version 2.51.0.windows.1' is displayed. The terminal window has a standard Windows title bar and a close button.