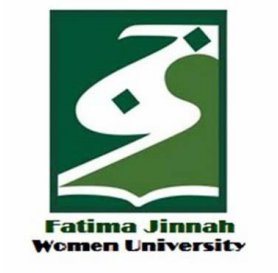
CLOUD COMPUTING



SUBMITTED TO
SIR WAQAS SALEEM

SUBMITTED BY
HAMNA MAHMOOD

2023-BSE-025

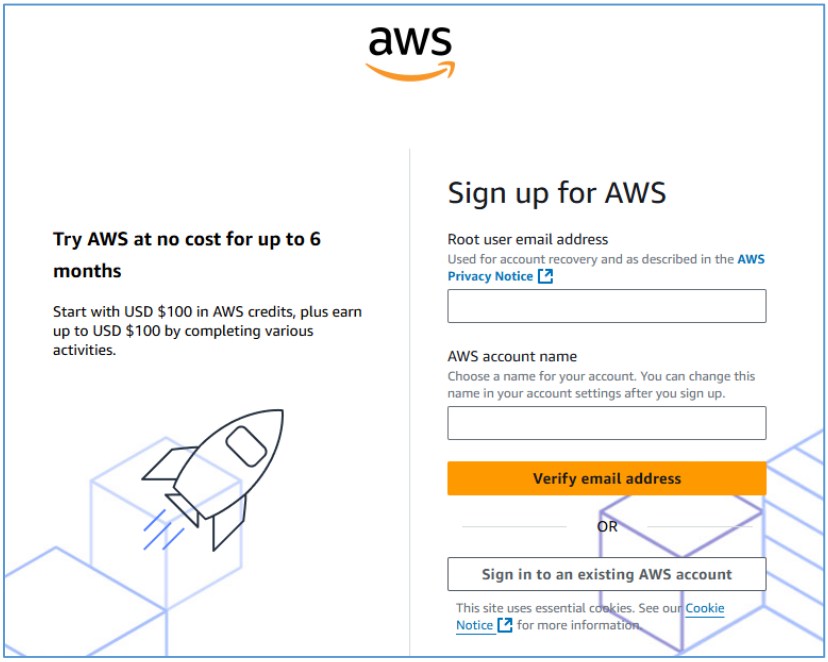
BSE V-A

Lab 08

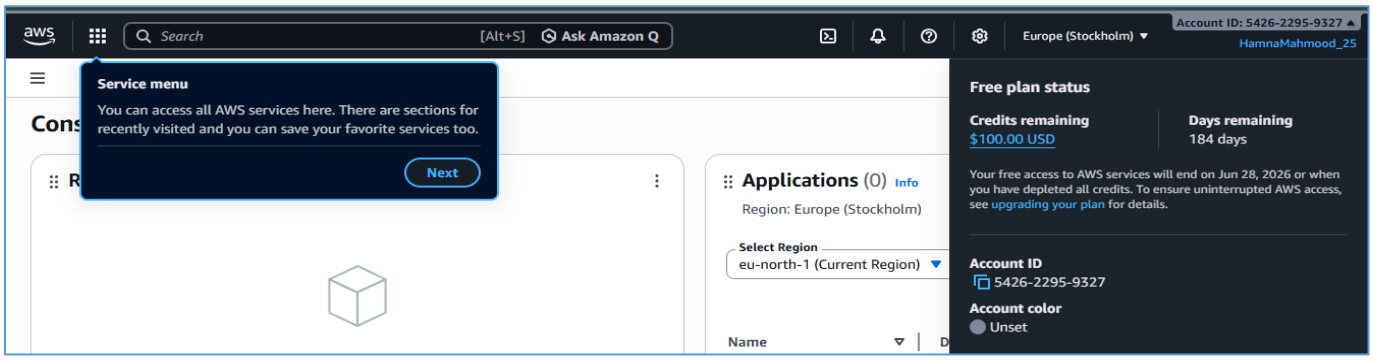
AWS: Account Setup, IAM, VPC Inventory, EC2, Docker & Gitea

Task 1 — Create an AWS account and enable UAE (me-central-1)

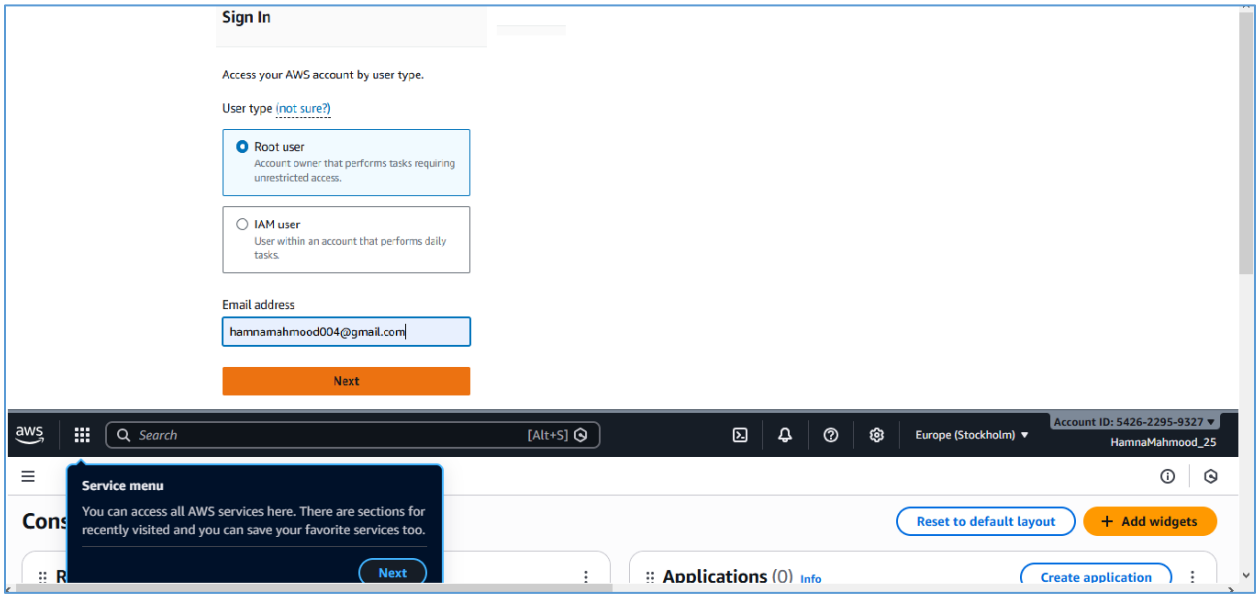
task1_open_signup_page



task1_signed_up_confirmation



task1_root_signed_in

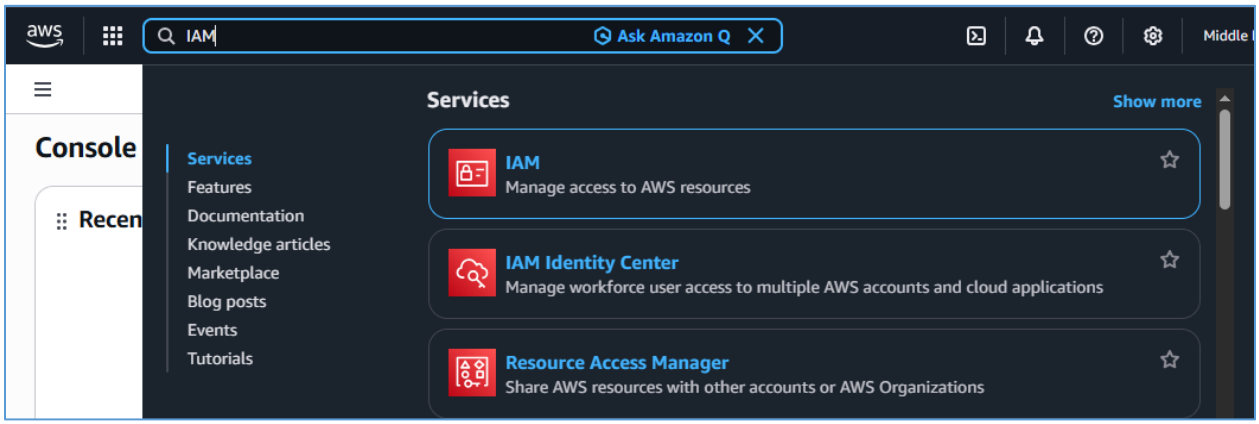


task1_enable_region_me-central-1

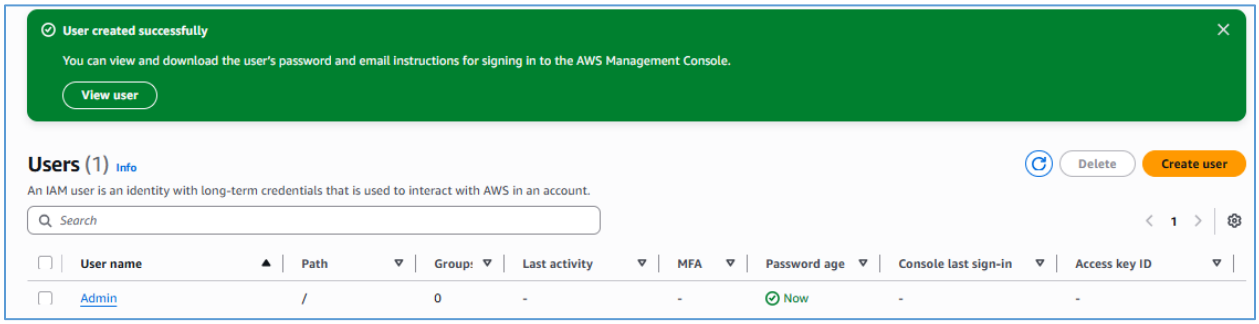
task1_summary

Task 2 — Create IAM Admin and Lab8User with console access

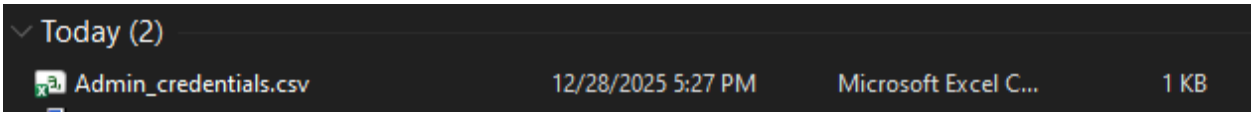
task2_open_IAM_console



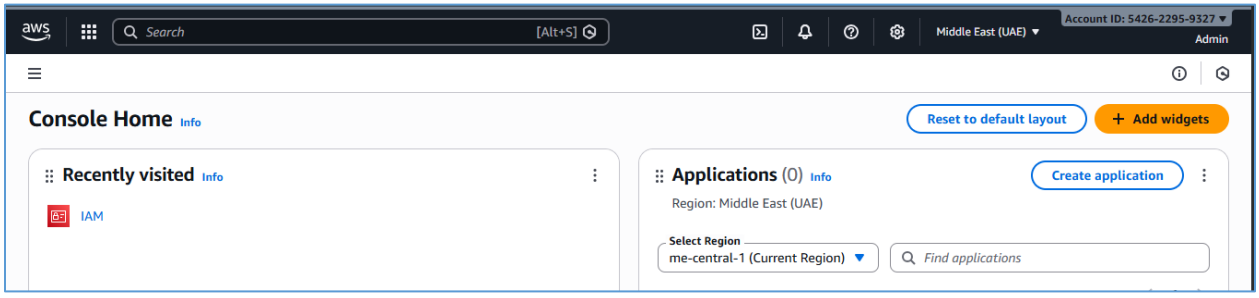
task2_admin_create_confirmation



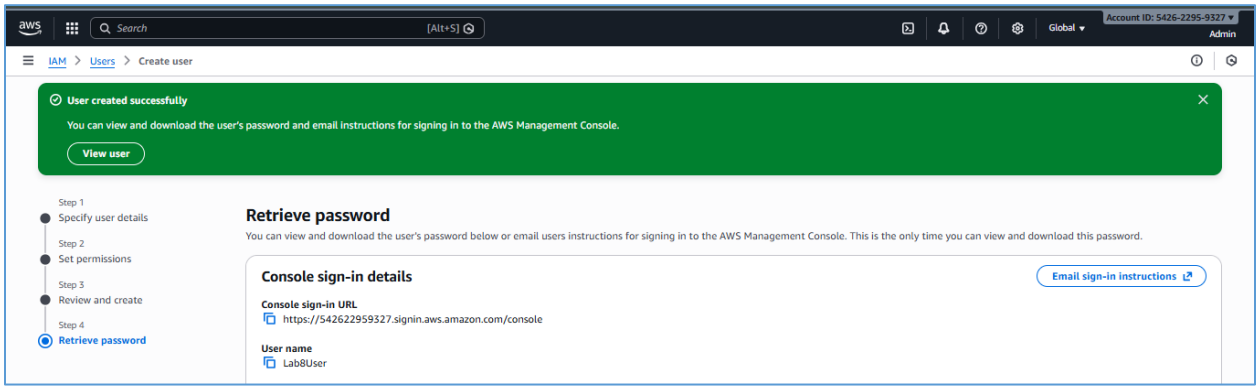
task2_admin_csv_and_signin_url



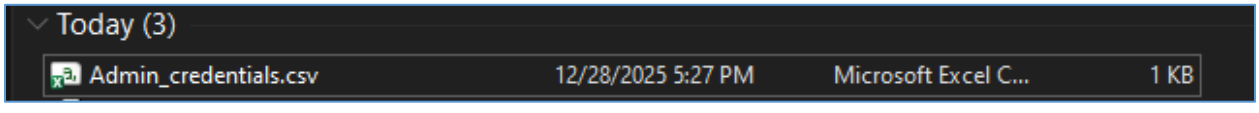
task2_admin_console_after_login



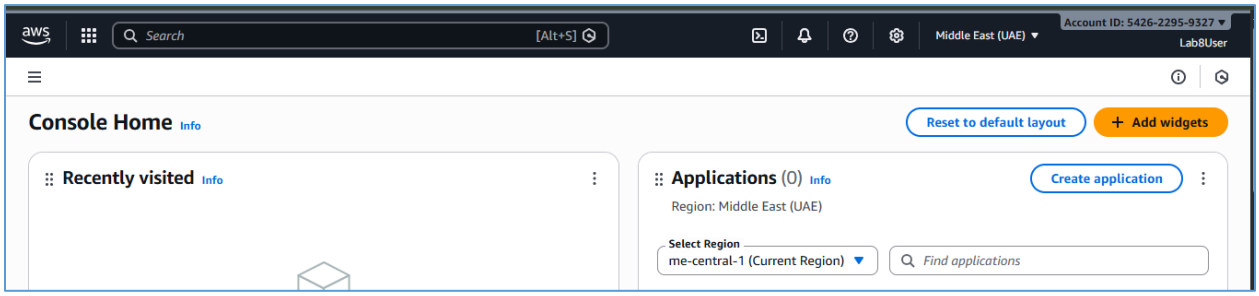
task2_create_lab8user_and_csv



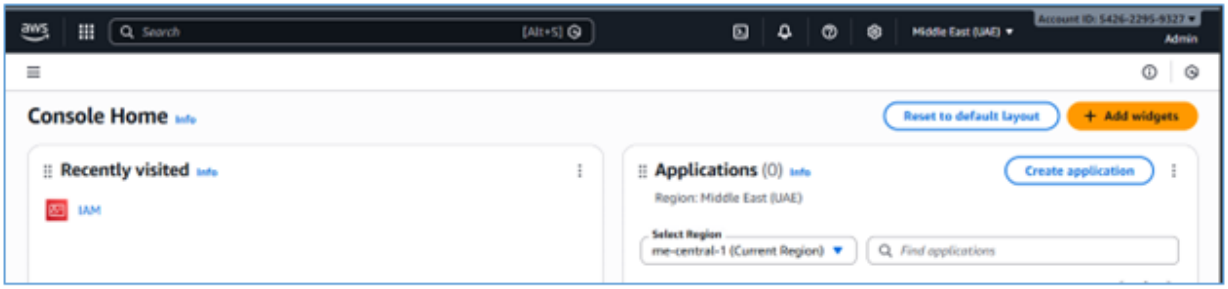
task2_lab8user_csv_saved

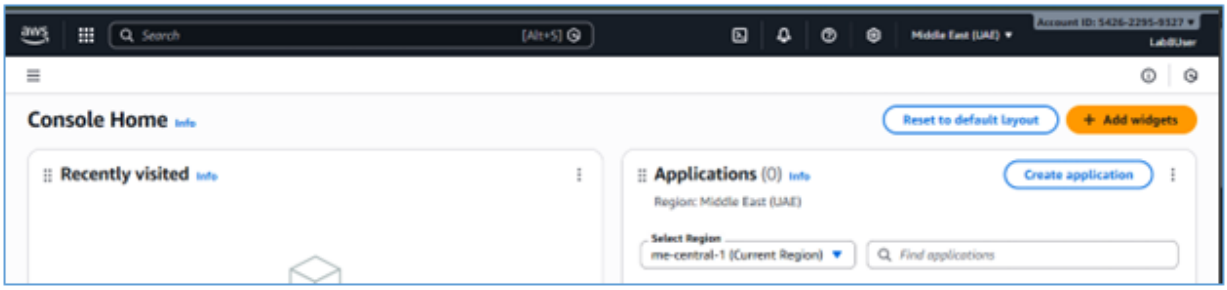


task2_lab8user_logged_in



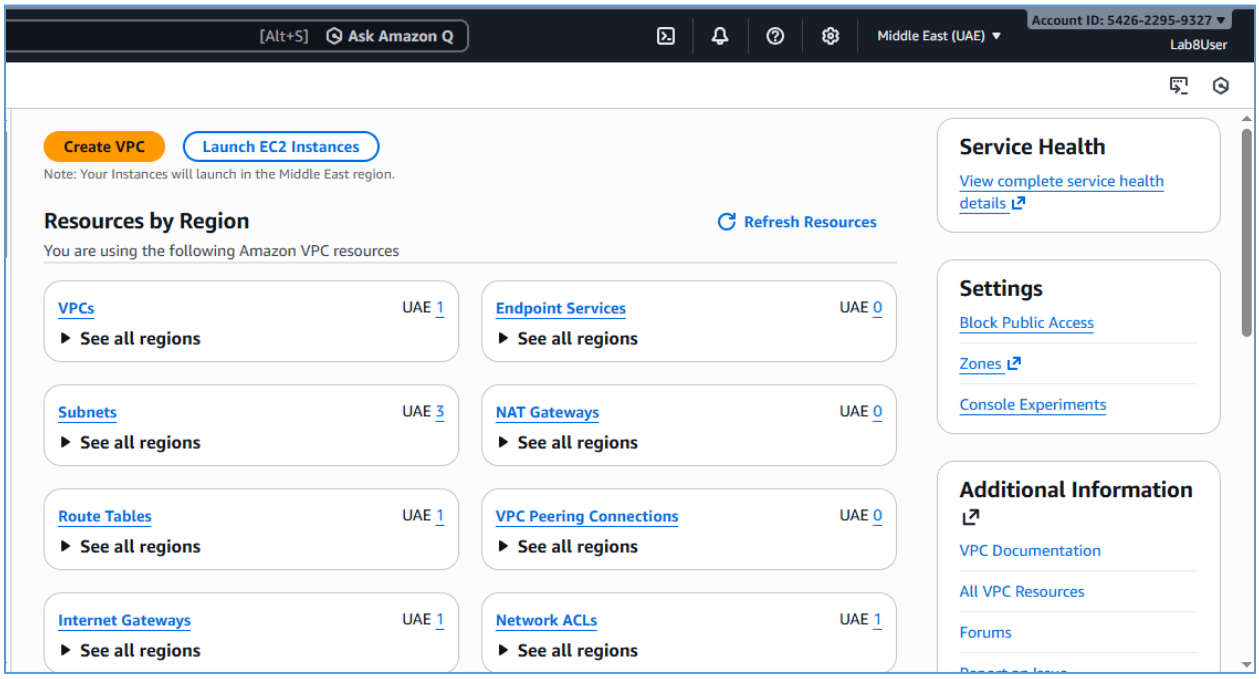
task2_summary



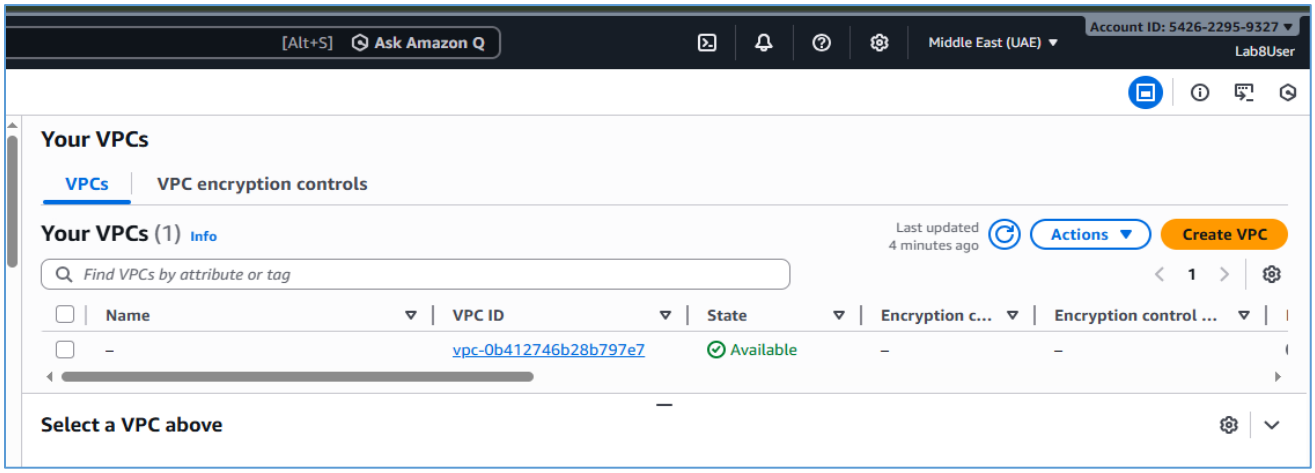


Task 3 — Inspect VPC resources (in UAE me-central-1)

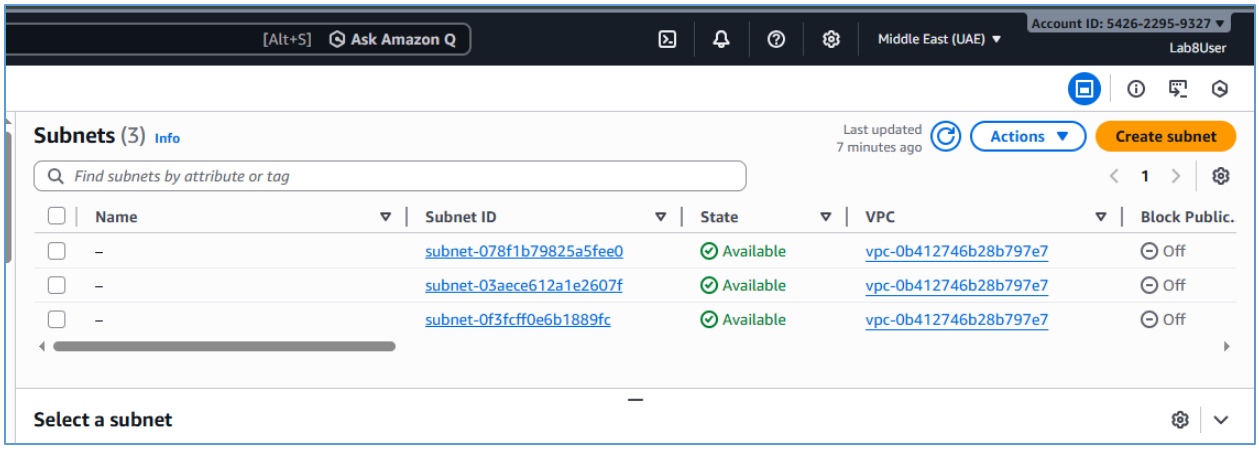
task3_open_vpc_console



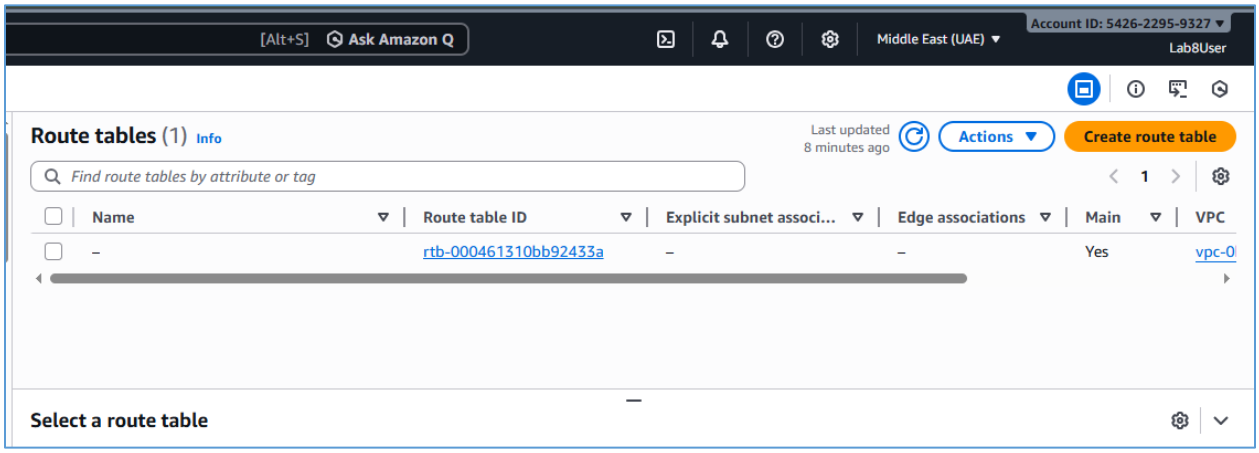
task3_vpc_list



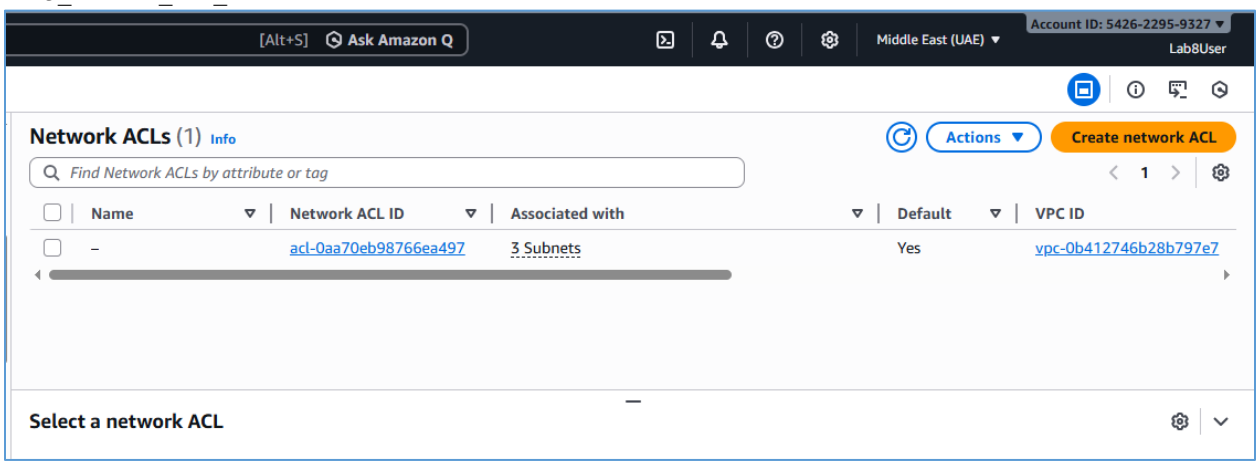
task3_subnet_list



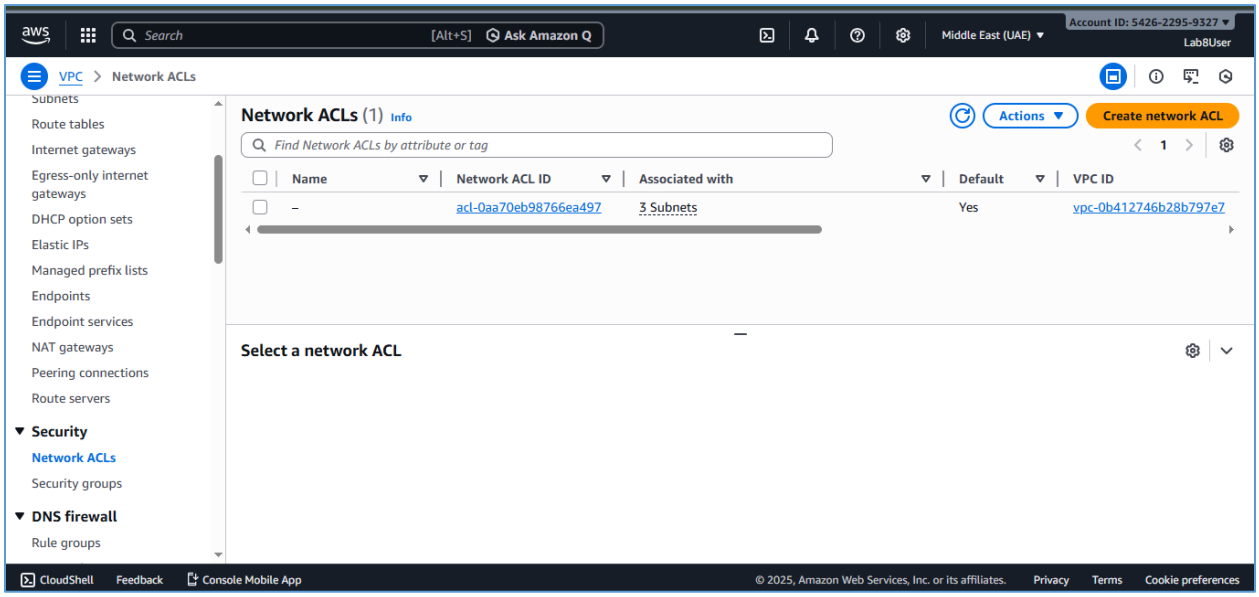
task3_route_tables_list



task3_network_acls_list

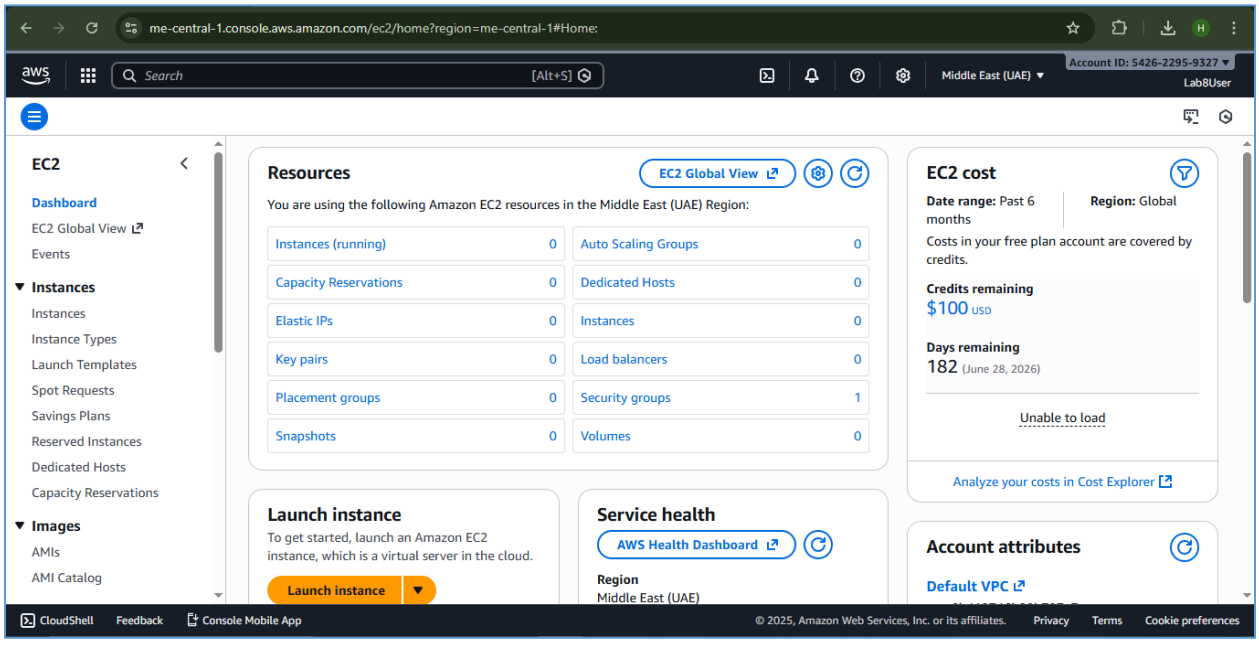


task3_summary

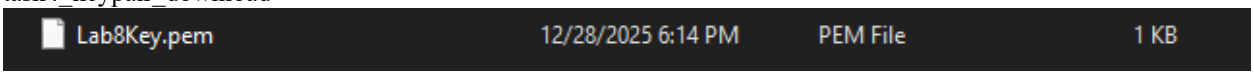


Task 4 — Launch EC2, SSH, install Docker & Docker Compose, deploy Gitea

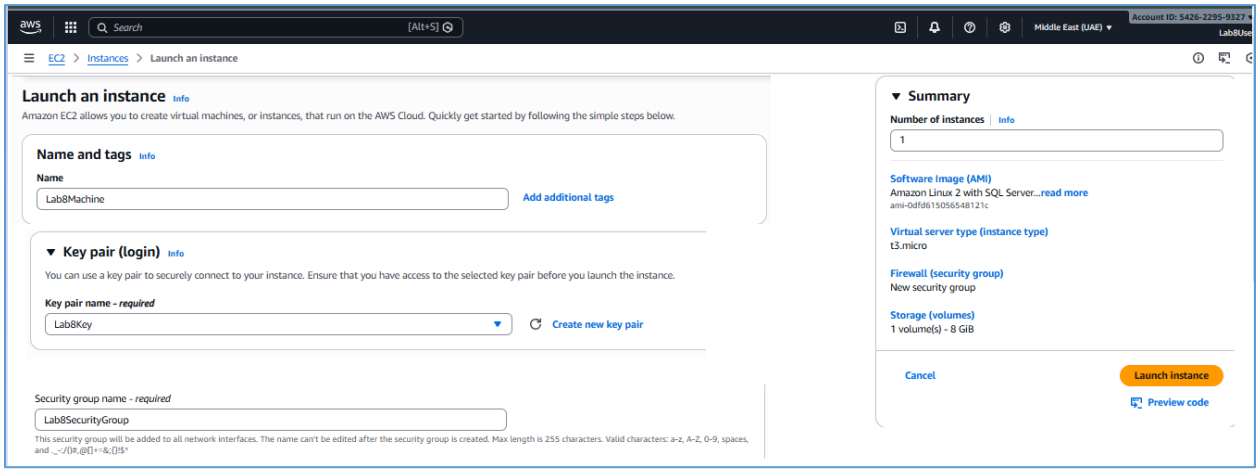
task4_open_ec2_console



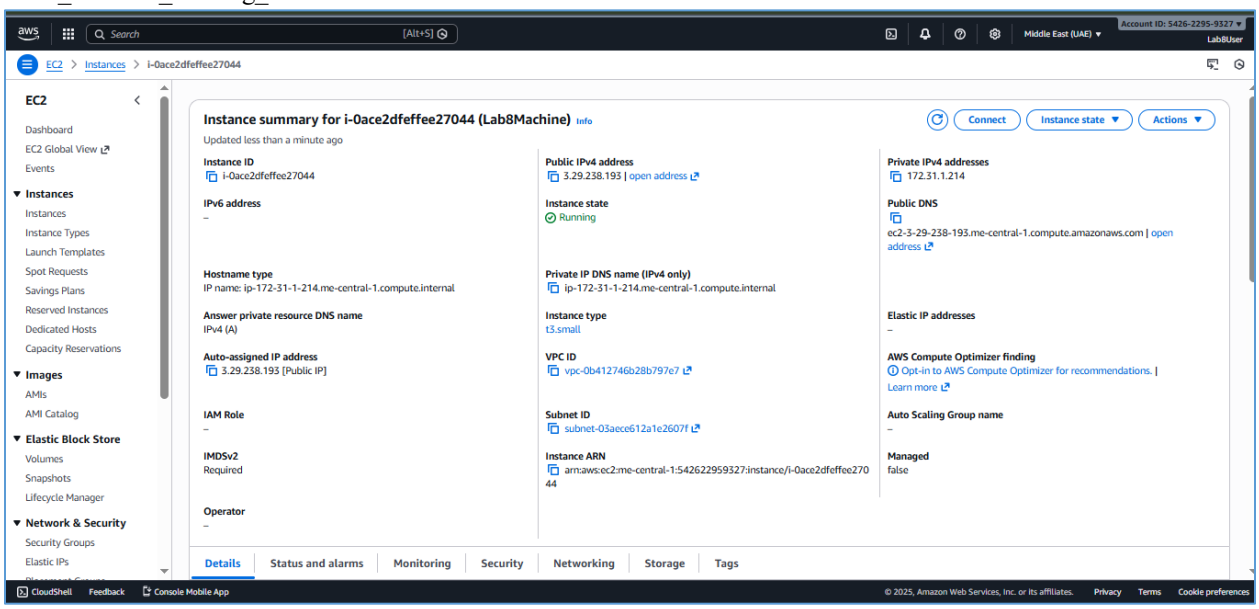
task4_keypair_download



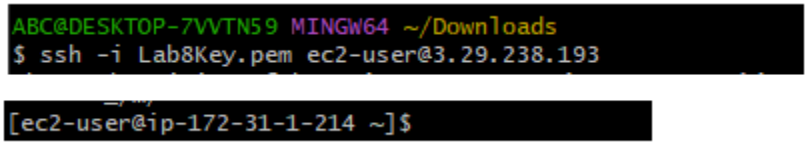
task4_launch_instance_config



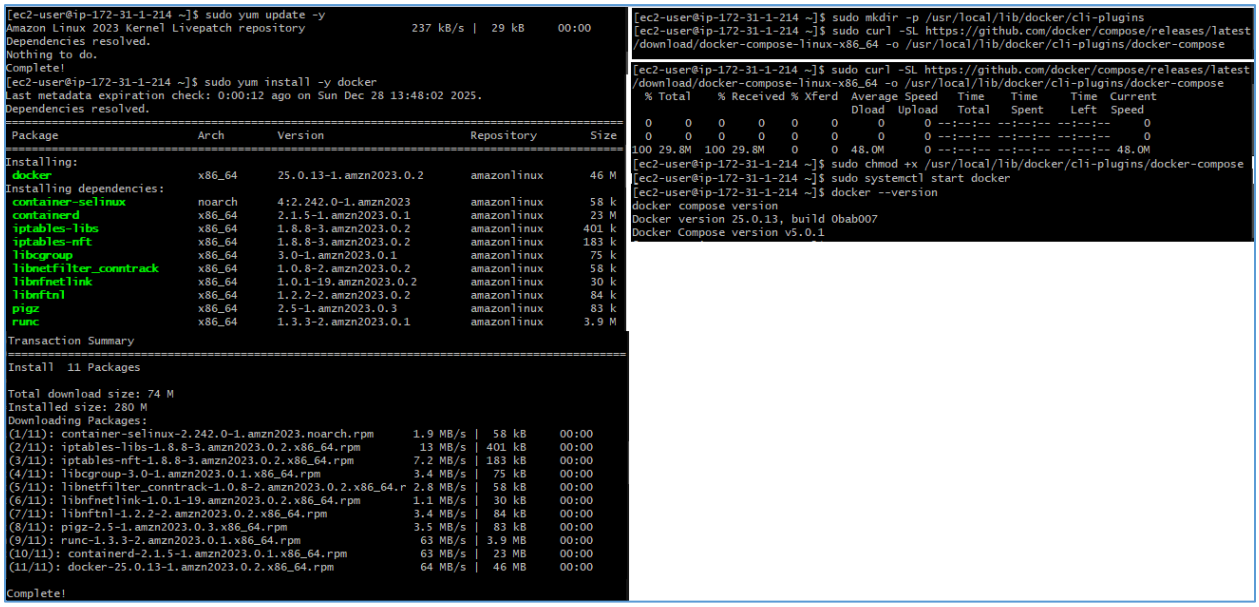
task4_instance_running_console



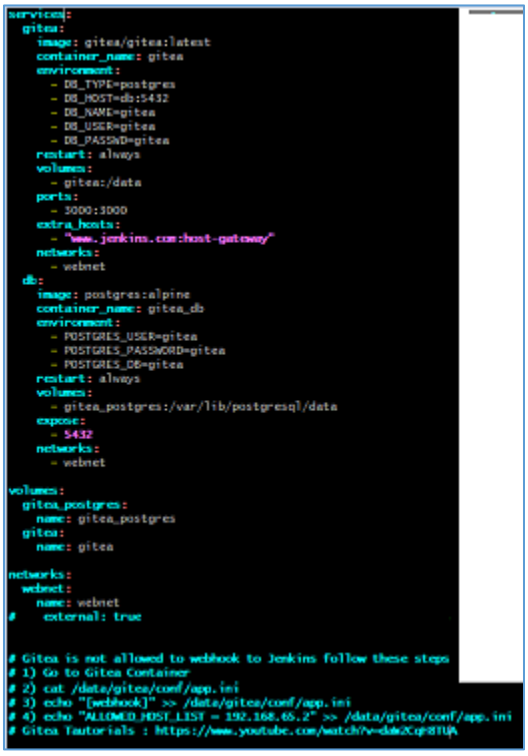
task4_ssh_from_windows_to_ec2



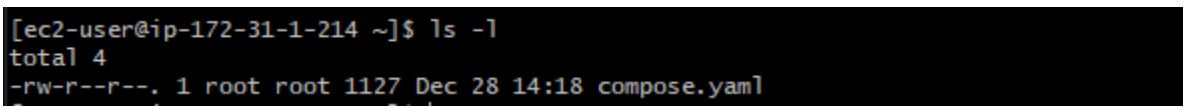
task4_ec2_install_docker_compose_started



task4_vim_compose_yaml_paste



task4_compose_yaml_saved_ls



task4_usermod_and_groups_before_after

```
[ec2-user@ip-172-31-1-214 ~]$ groups
ec2-user adm wheel systemd-journal
[ec2-user@ip-172-31-1-214 ~]$ sudo usermod -aG docker $USER
[ec2-user@ip-172-31-1-214 ~]$ groups
ec2-user adm wheel systemd-journal
[ec2-user@ip-172-31-1-214 ~]$ exit
logout
Connection to 3.29.238.193 closed.
```

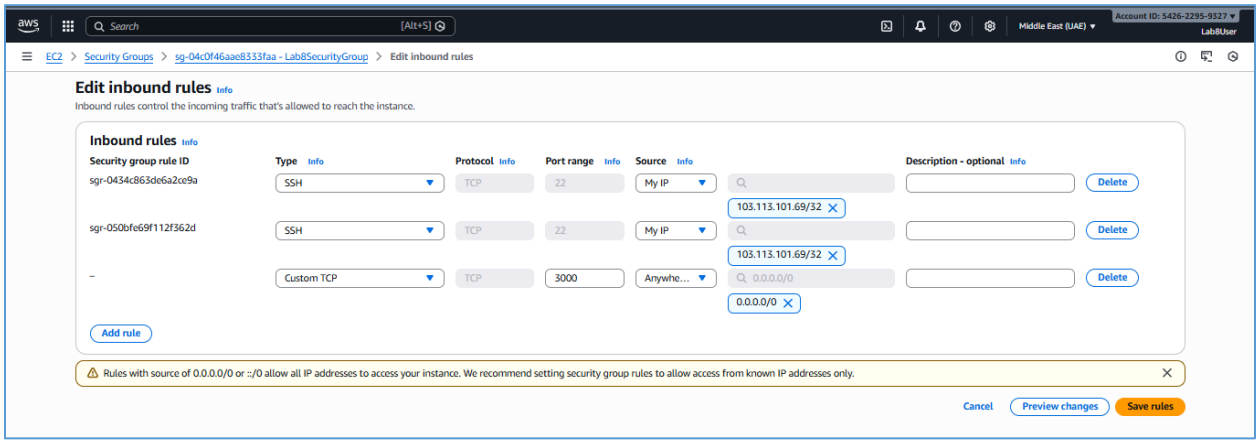
```
Last login: Sun Dec 28 14:10:23 2025 from 103.113.101.69
[ec2-user@ip-172-31-1-214 ~]$ groups
ec2-user adm wheel systemd-journal docker
```

task4_docker_compose_up

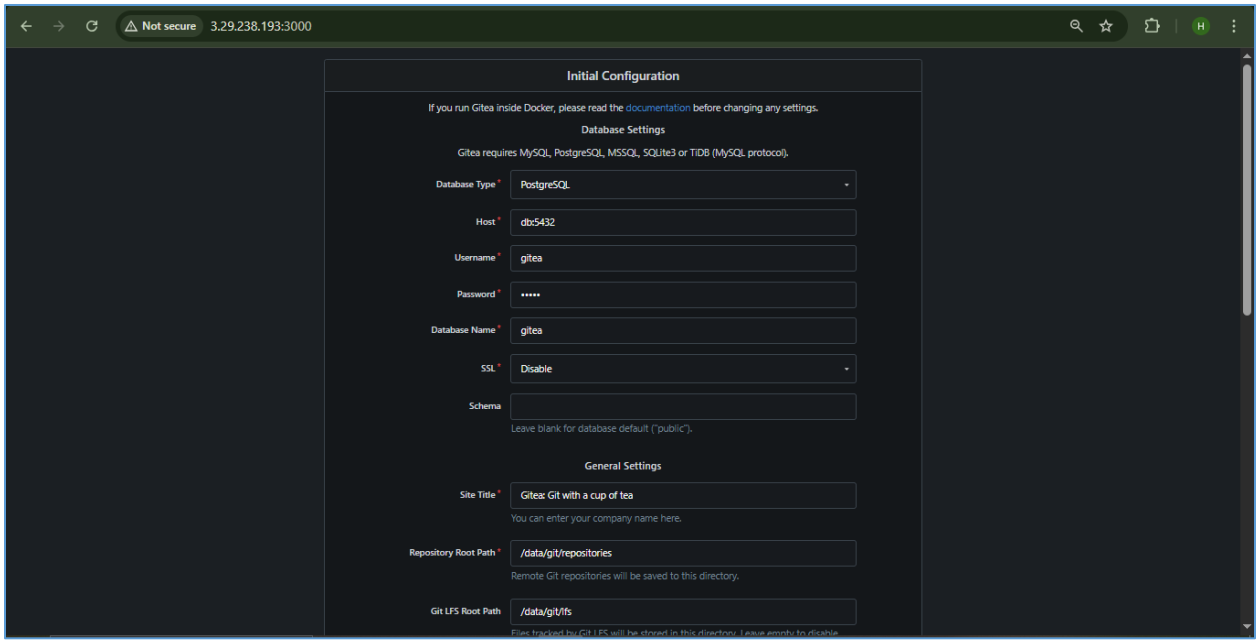
```
[ec2-user@ip-172-31-1-214 ~]$ docker compose up -d
[+] up 16/18
[+] up 23/23tgres:alpine [############]   112MB / 112MB   Pulling                16.5s
 ✔ Image postgres:alpine    Pulled                                                16.5s
 ✔ Image gitea/gitea:latest Pulled                                                 9.3s
 ✔ Network webnet           Created                                                0.2s
 ✔ Volume gitea             Created                                                0.0s
 ✔ Volume gitea_postgres    Created                                                0.0s
 ✔ Container gitea          Created                                                0.2s
 ✔ Container gitea_db       Created                                                0.2s

[ec2-user@ip-172-31-1-214 ~]$
```

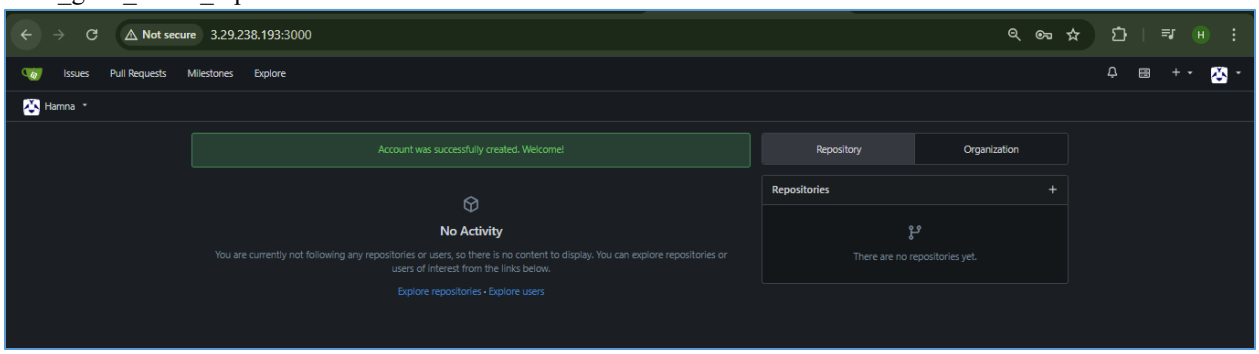
task4_security_group_allow_3000



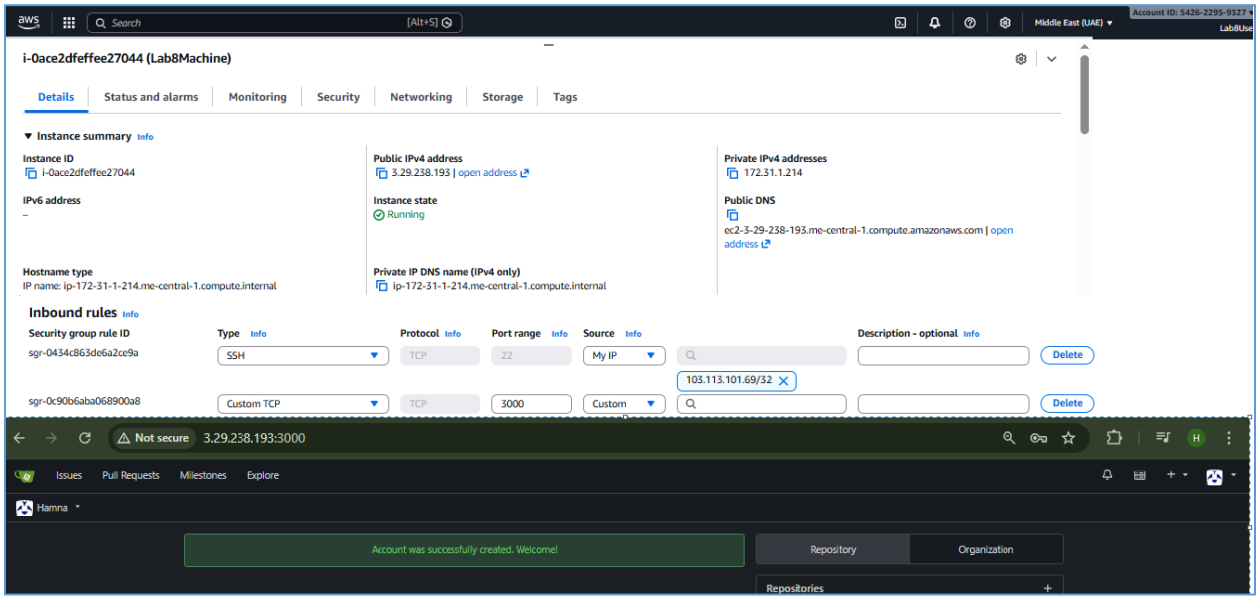
task4_gitea_install_page



task4_gitea_create_repo

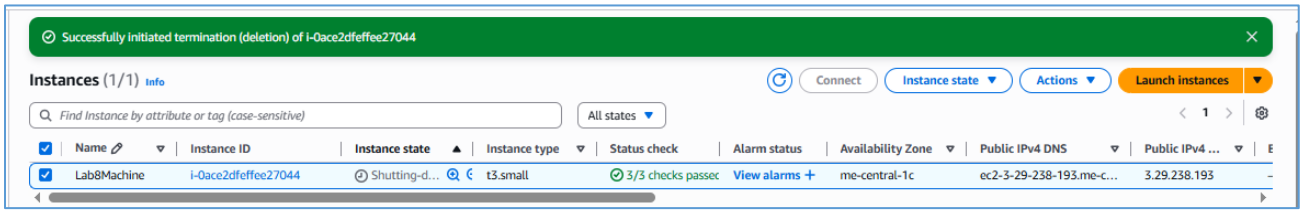


task4_summary

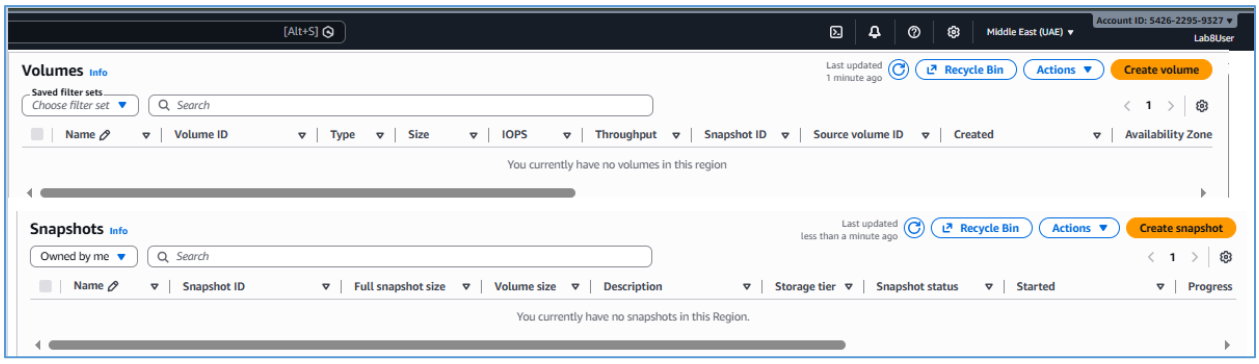


Cleanup — Remove resources to avoid charges

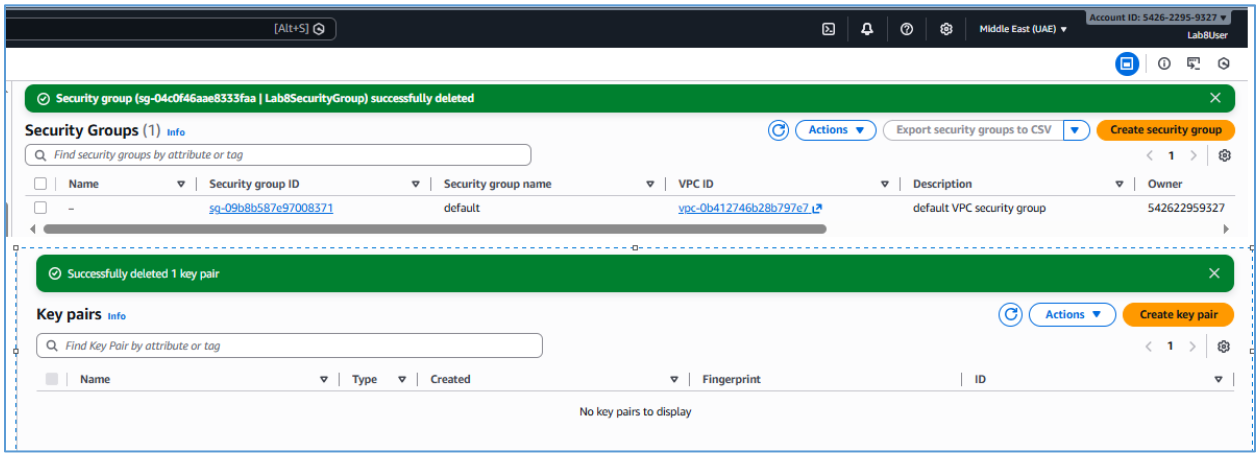
cleanup_terminate_instance



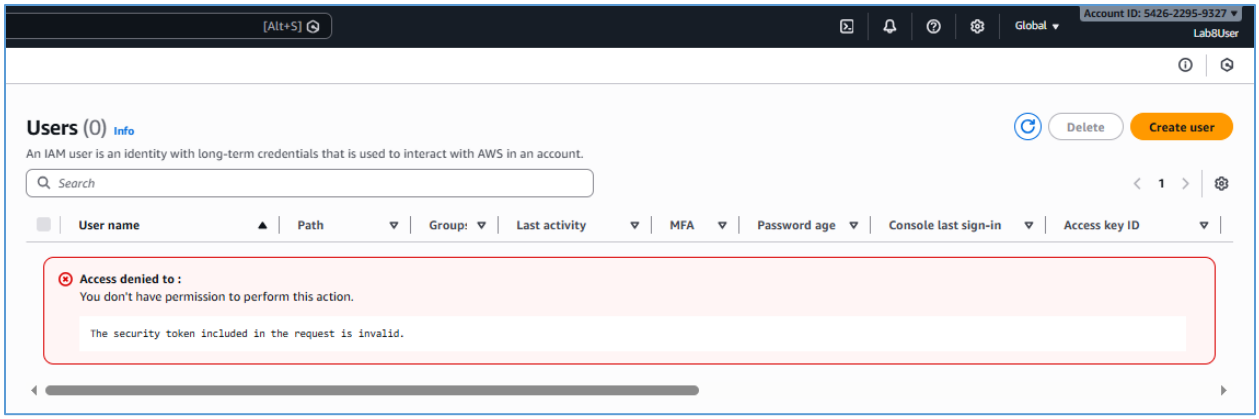
cleanup_delete_volumes_snapshots



cleanup_delete_security_group_and_keypair



cleanup_iam_users_deleted



cleanup_summary