LAB 08

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REGISTRATION #: 2023-BSE-061

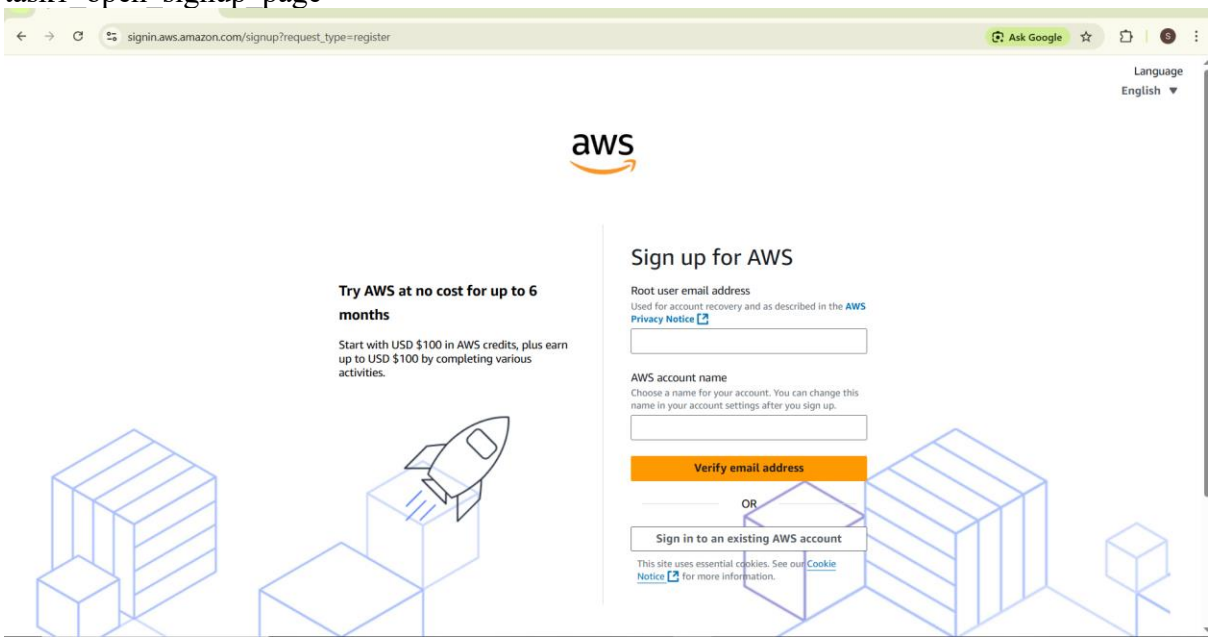
DEPARTMENT: BSE(5B)

LAB TASK

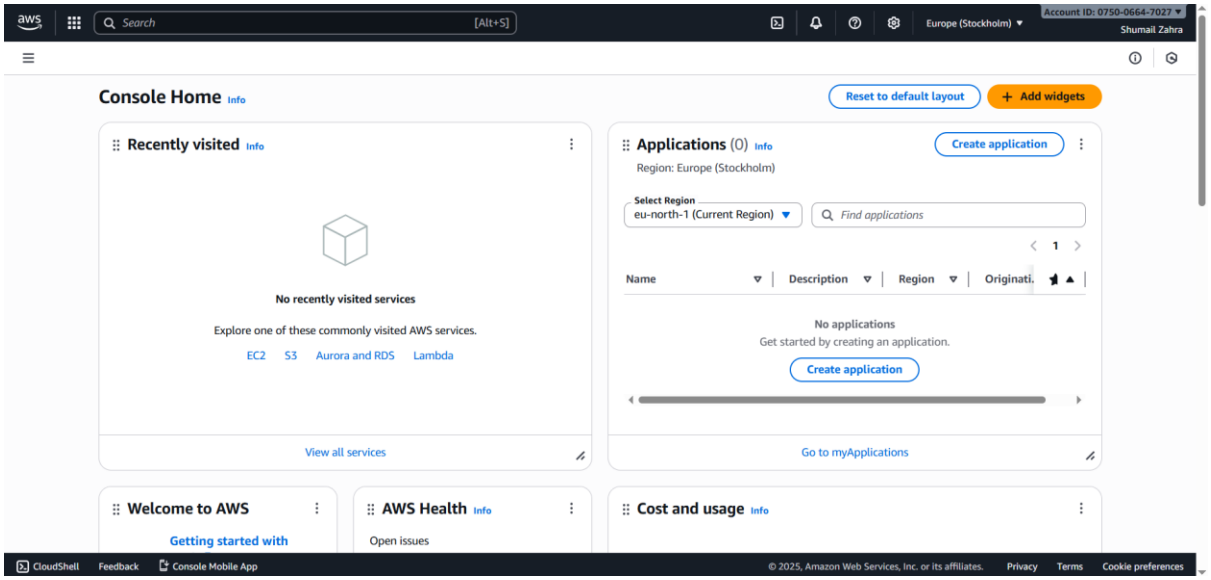
AWS: Account Setup, IAM, VPC Inventory, EC2, Docker & Gitea

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

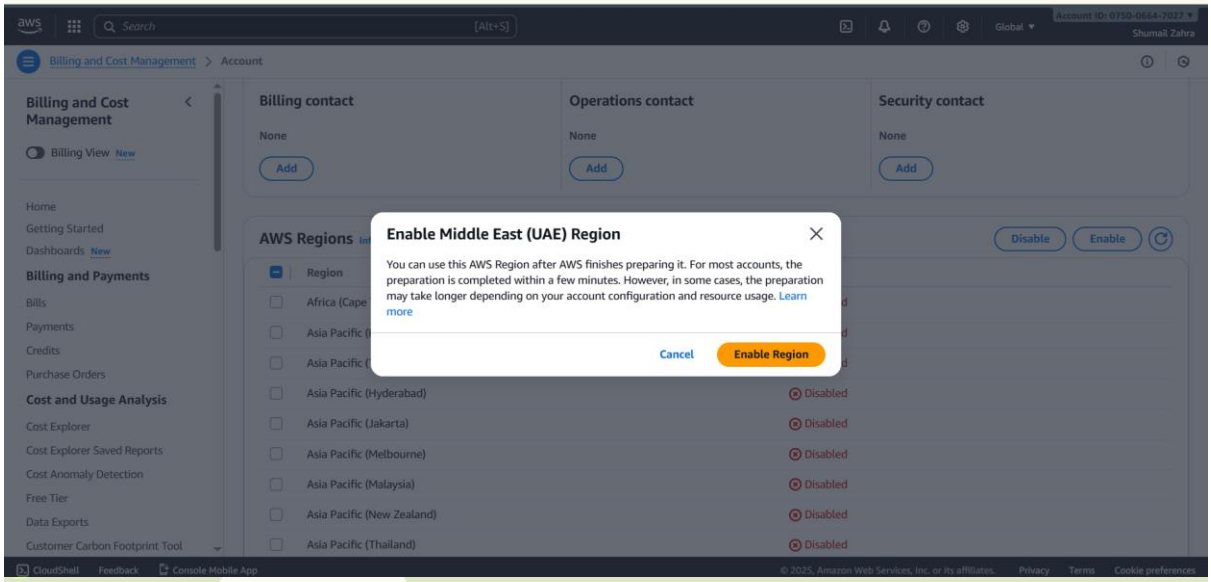
task1_open_signup_page

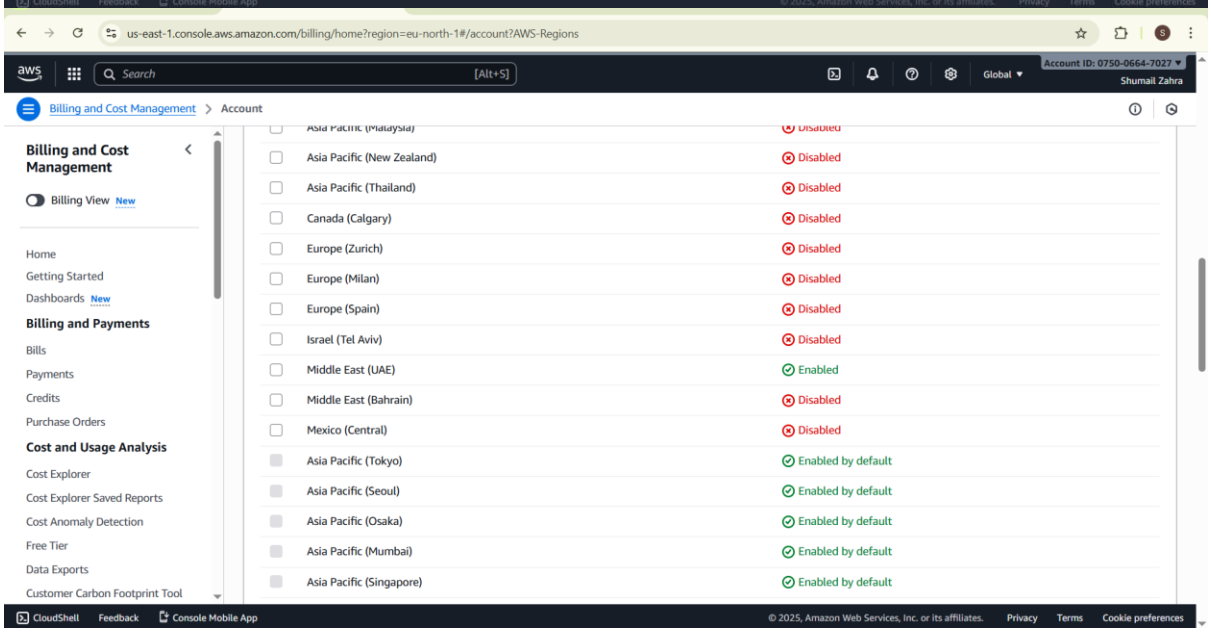


task1_root_signed_in

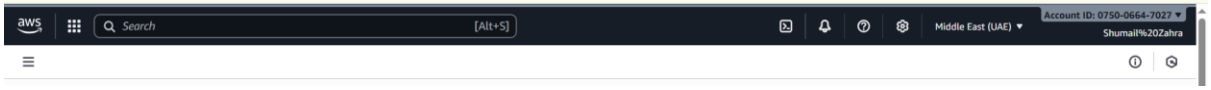


task1_enable_region_me-central-1



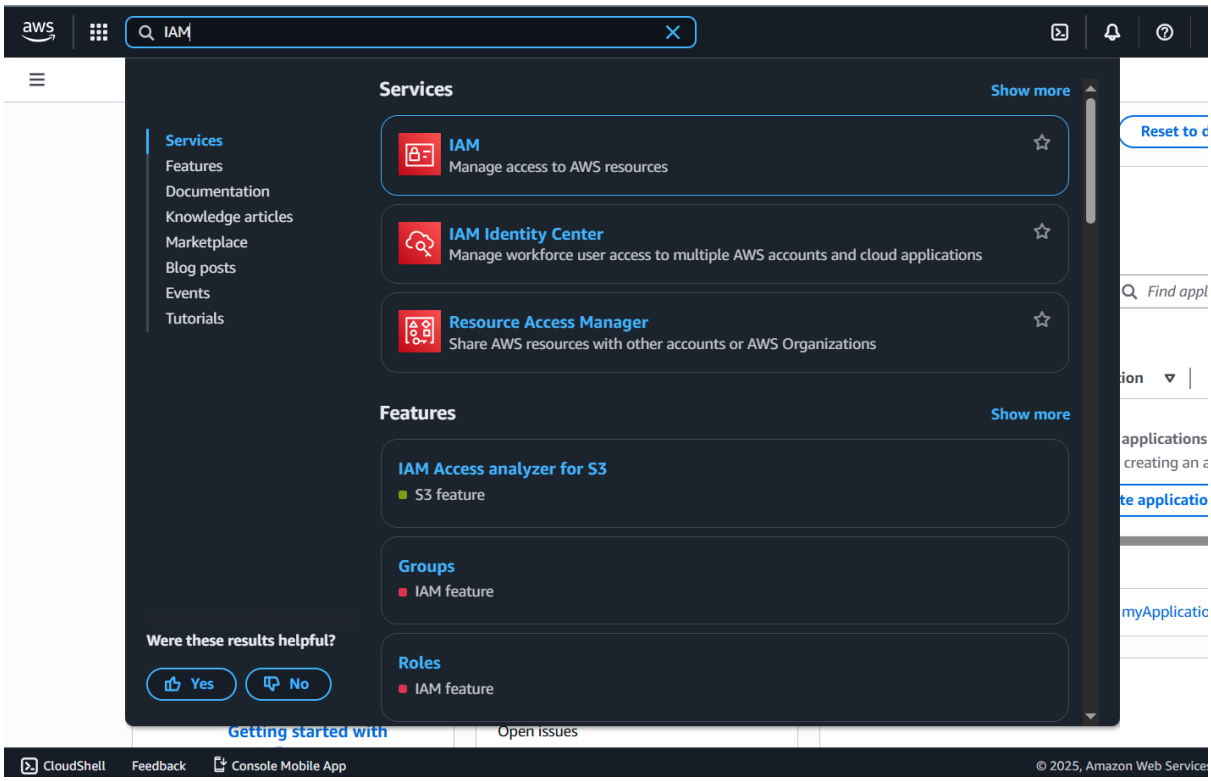


task1_summary

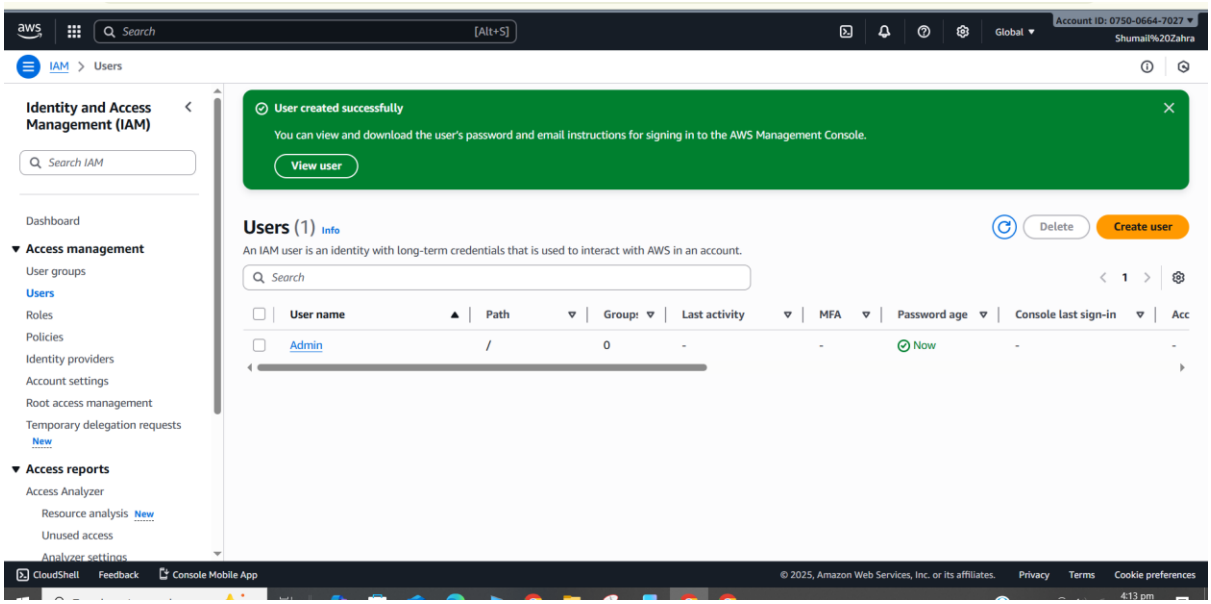


Task 2 — Create IAM Admin and Lab8User with console access

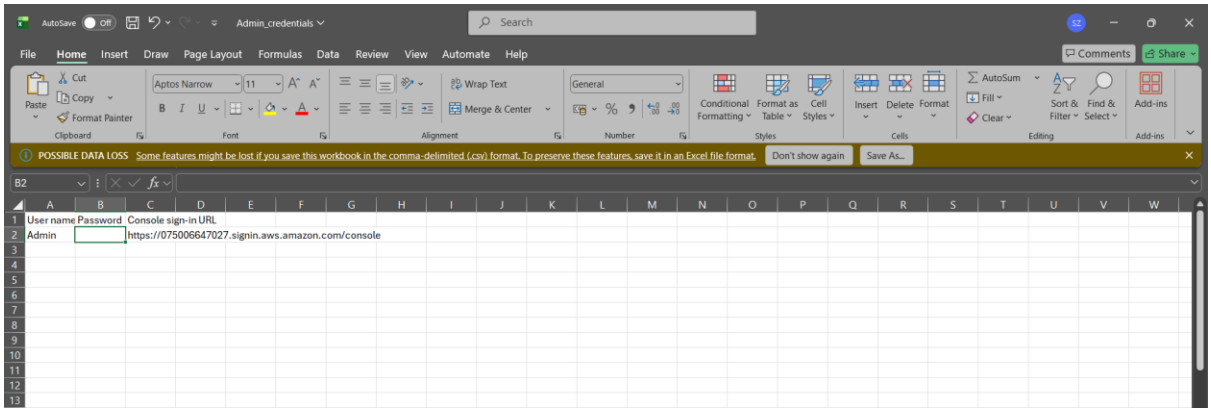
task2_open_iam_console



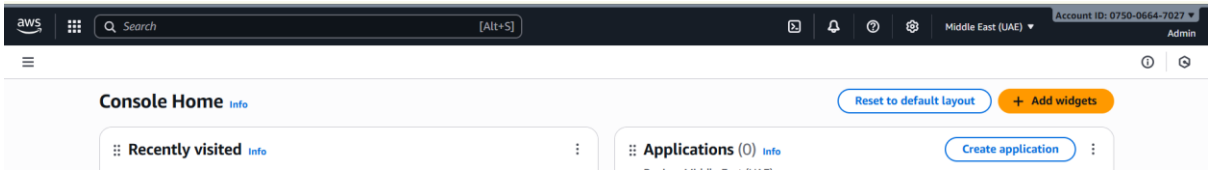
task2_admin_create_confirmation



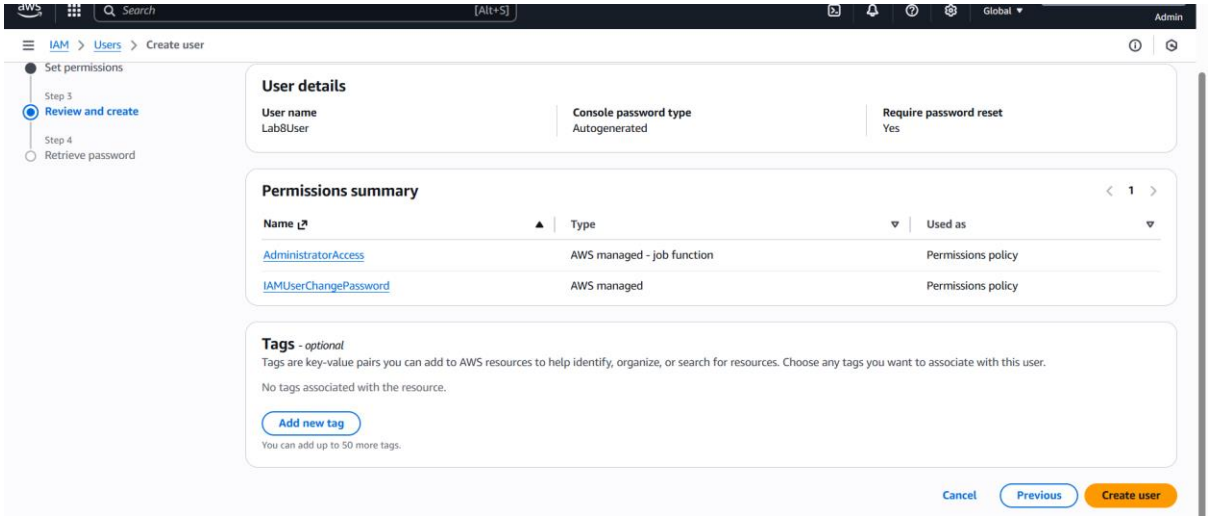
task2_admin_csv_and_signin_url

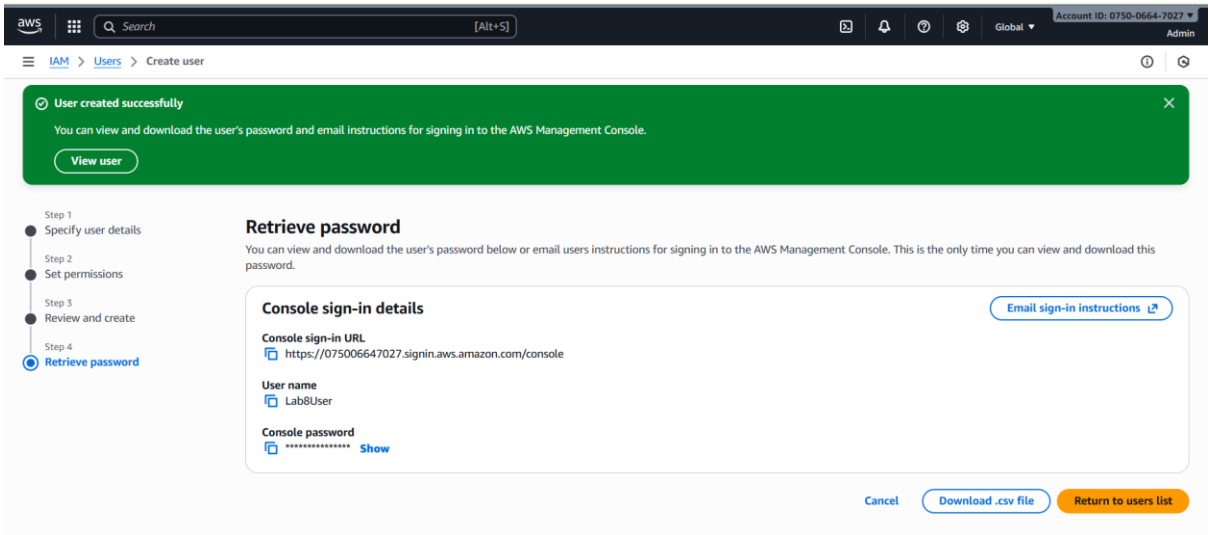


task2_admin_console_after_login

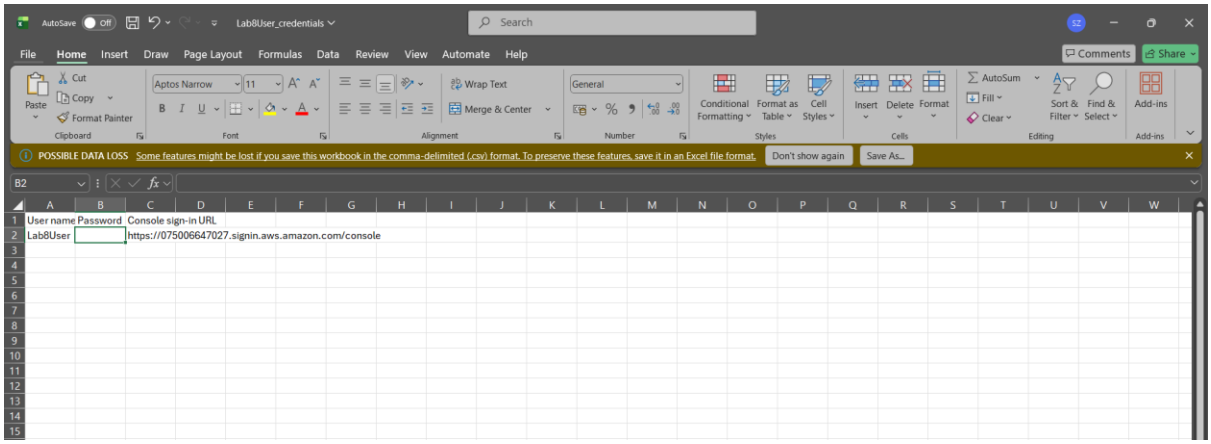


task2_create_lab8user_and_csv

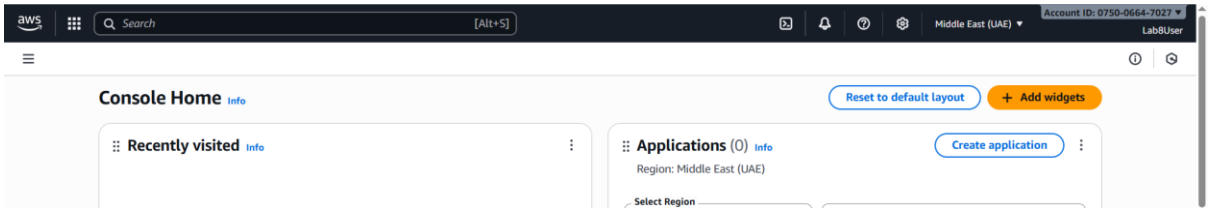




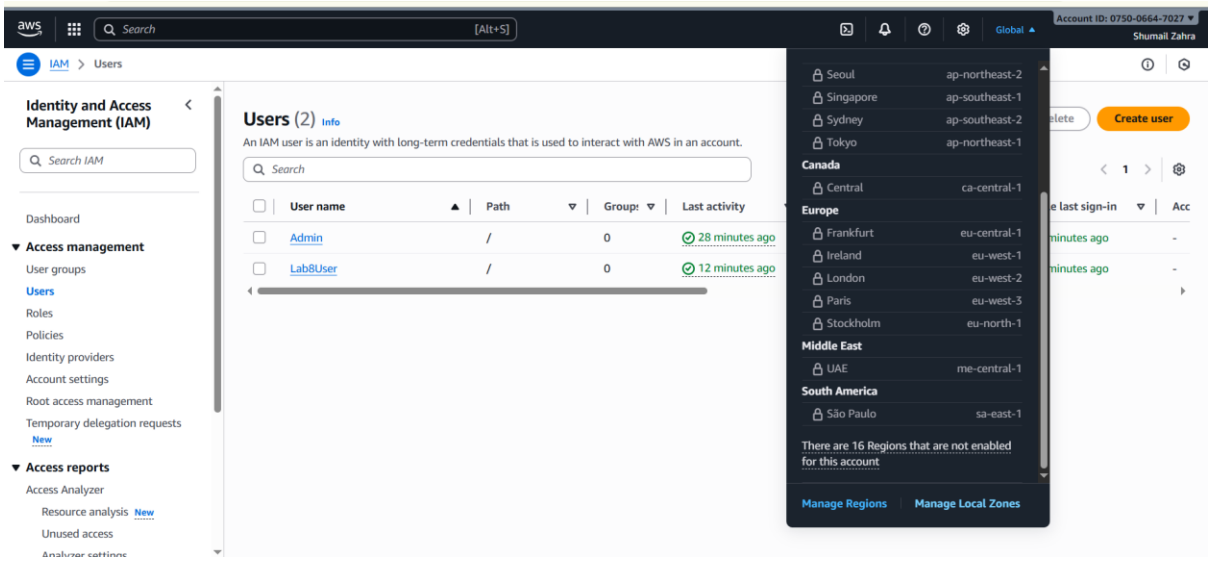
task2_lab8user_csv_saved



task2_lab8user_logged_in

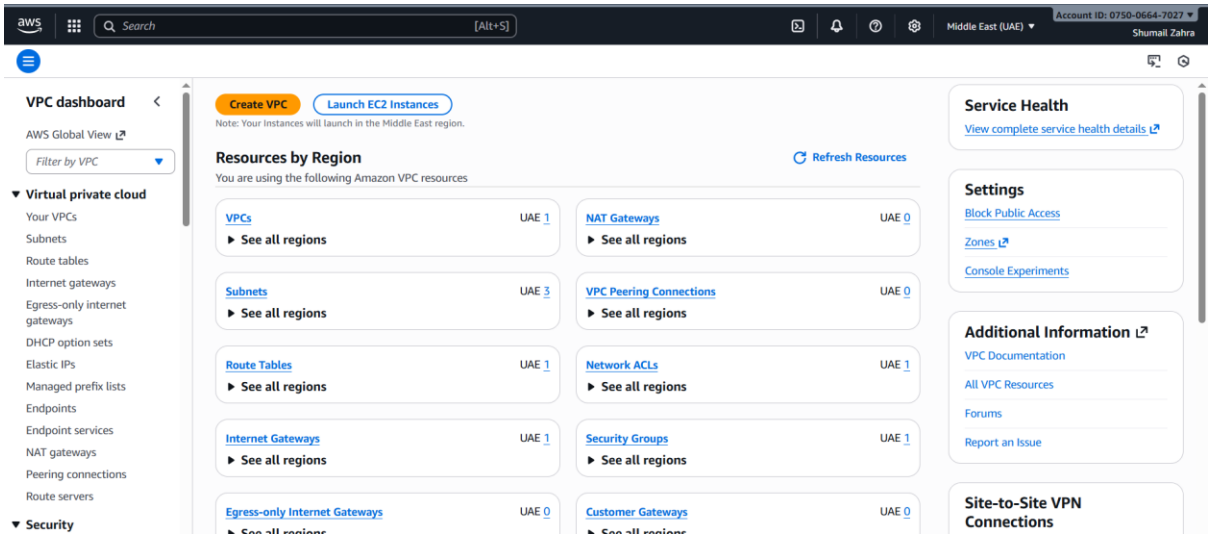


task2_summary

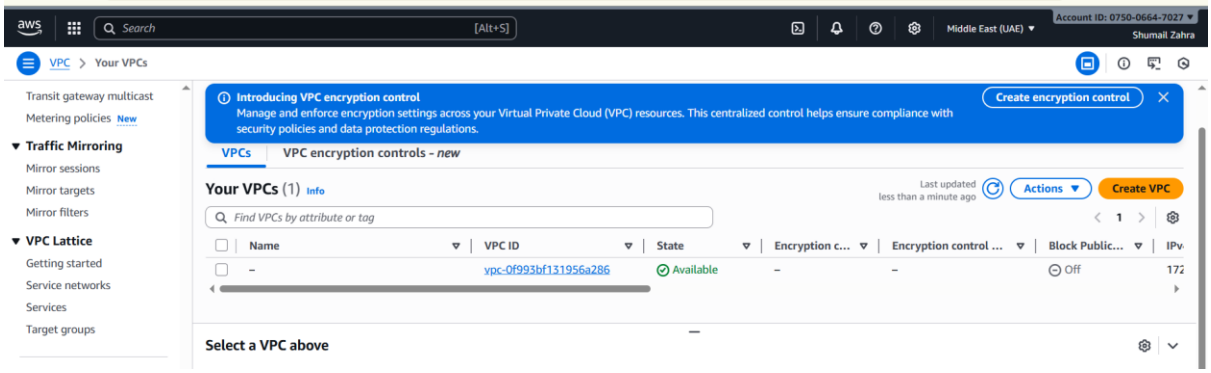


Task 3 — Inspect VPC resources (in UAE me-central-1)

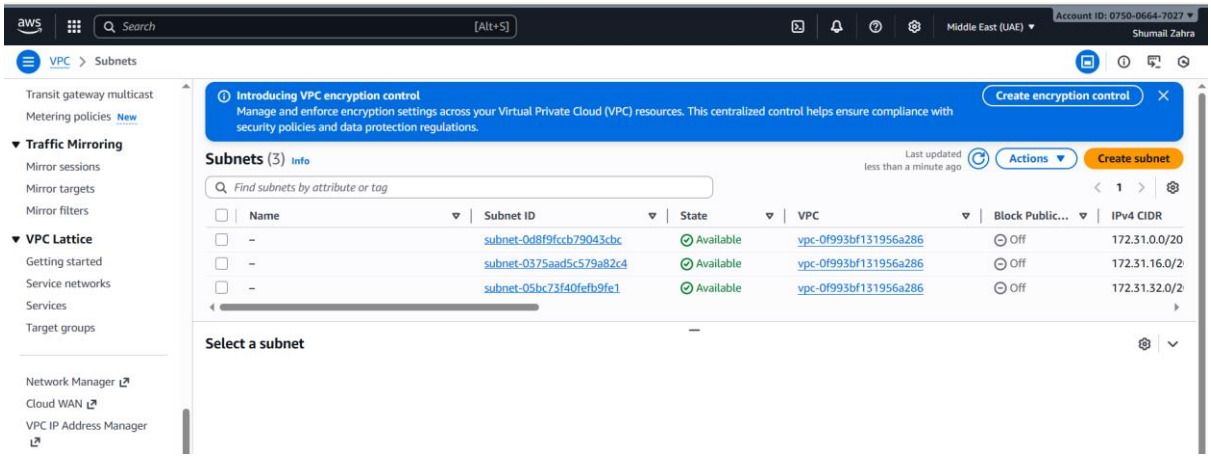
task3_open_vpc_console



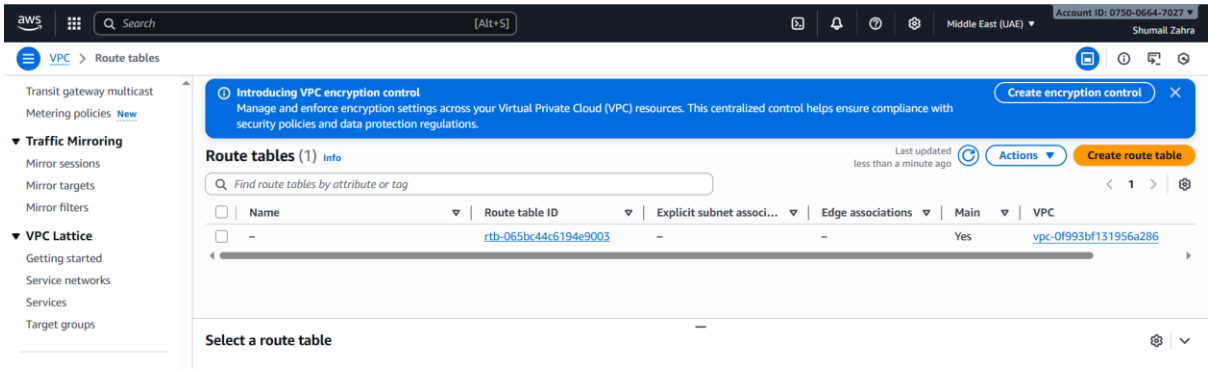
task3_vpcs_list



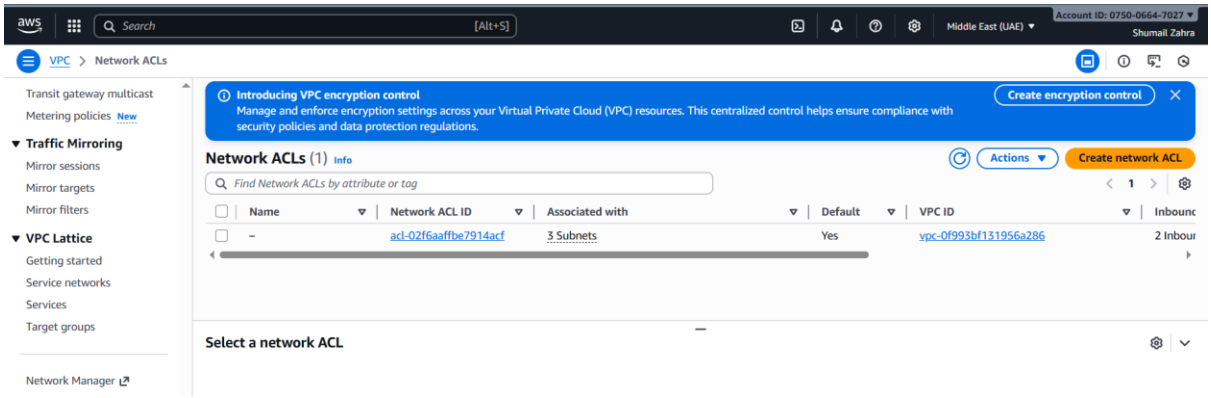
task3_subnets_list



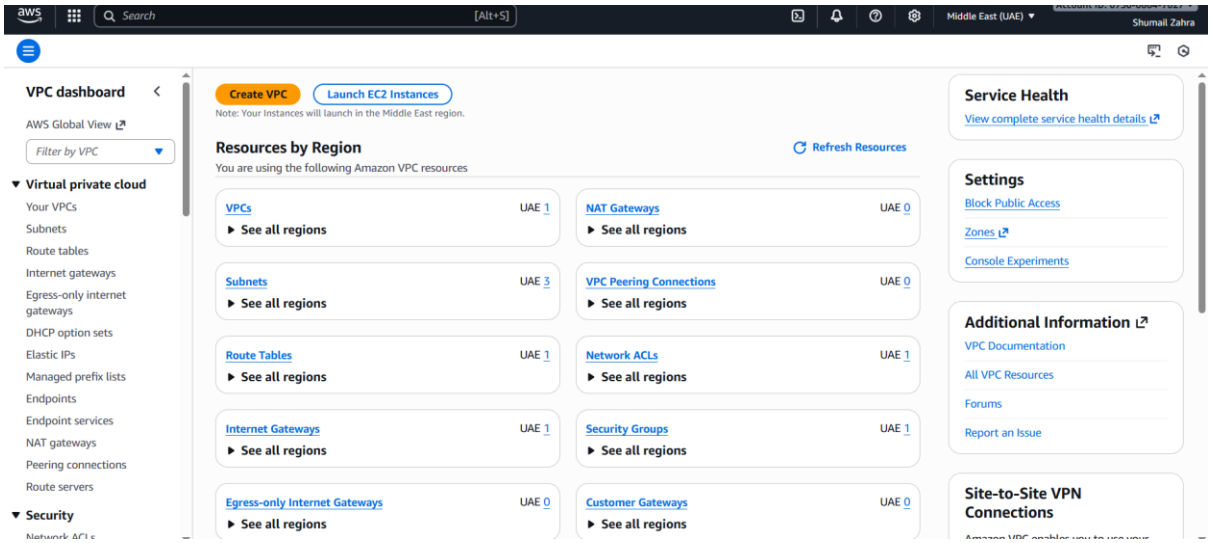
task3_route_tables_list



task3_network_acls_list

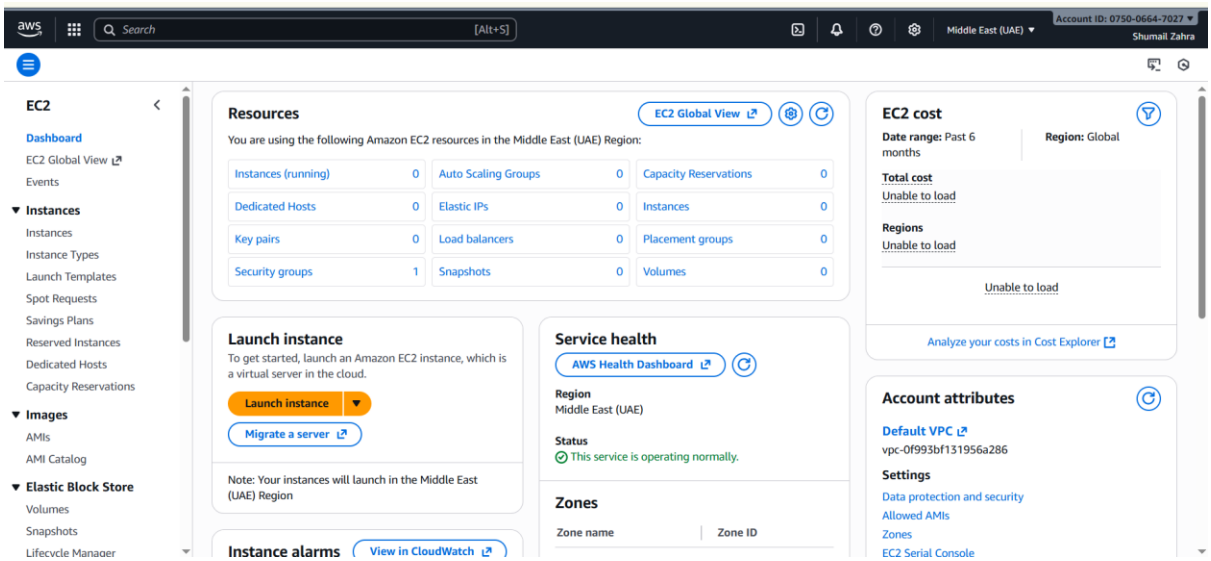


task3_summary

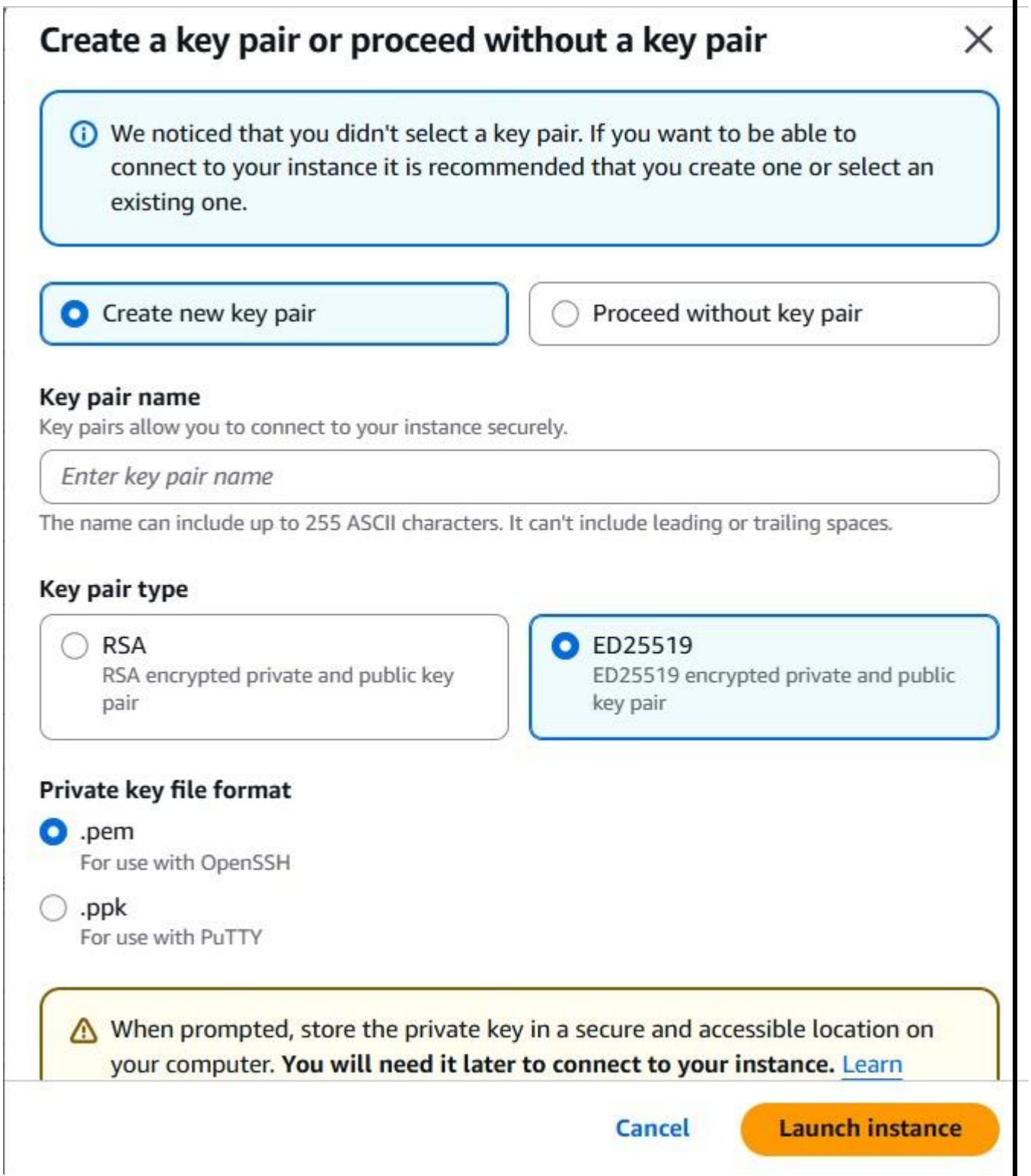


Task 4 — Launch EC2, SSH, install Docker & Docker Compose, deploy Gitea

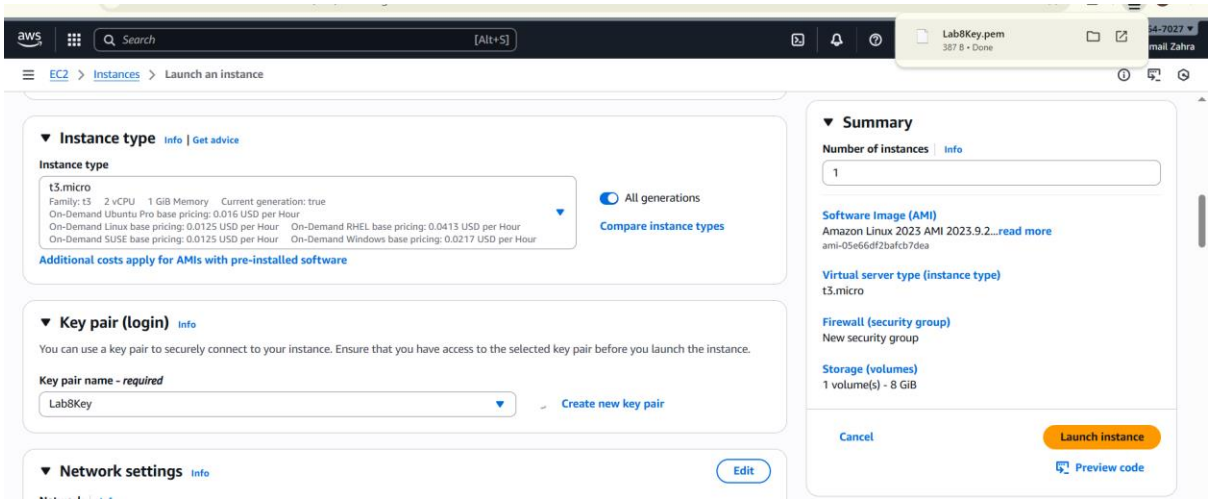
task4_open_ec2_console



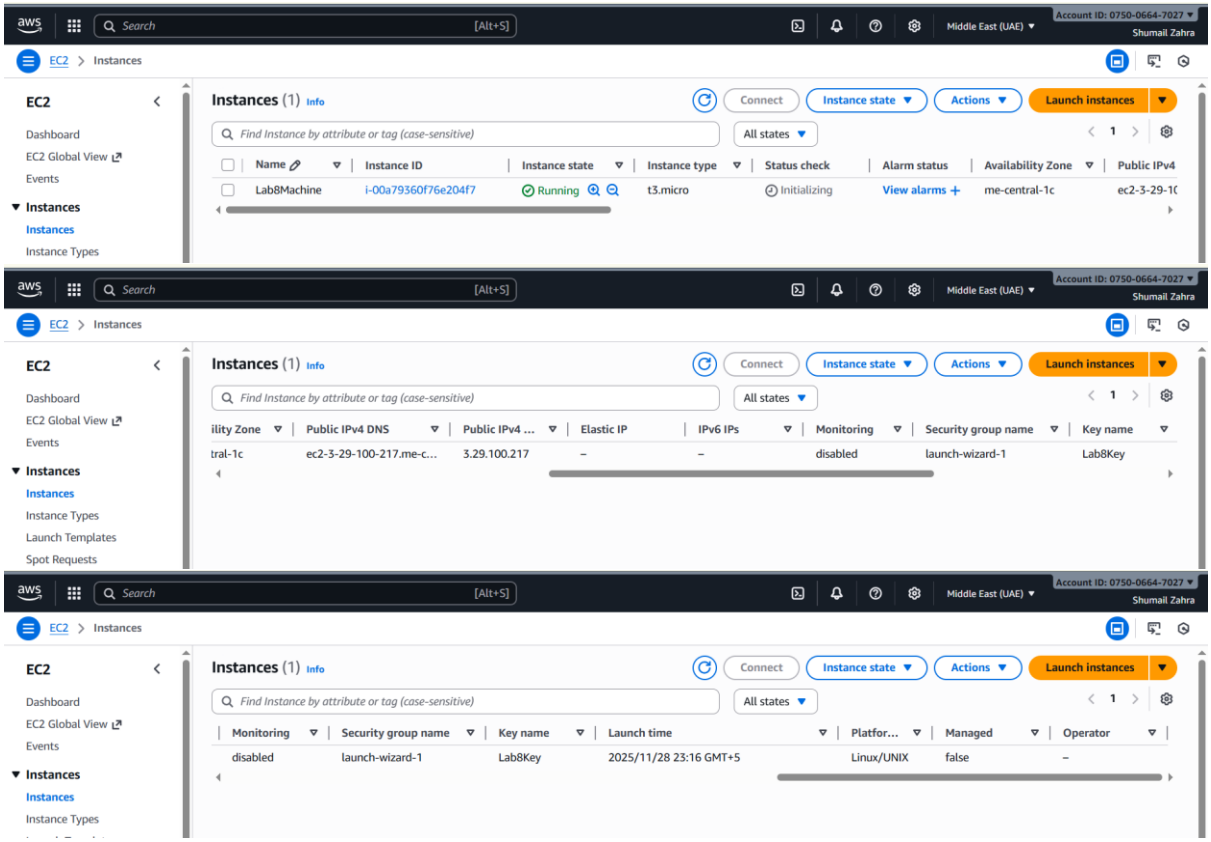
task4_launch_instance_config



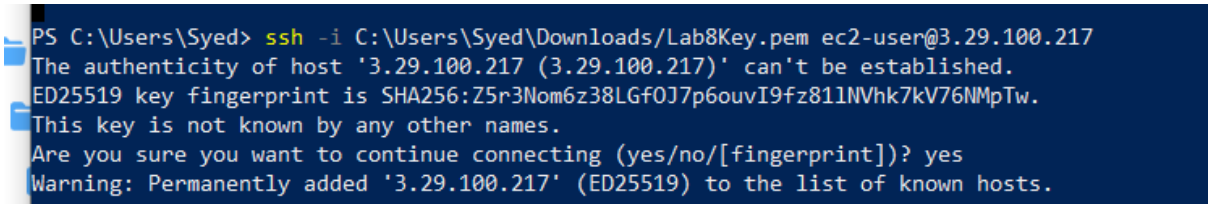
task4_keypair_download



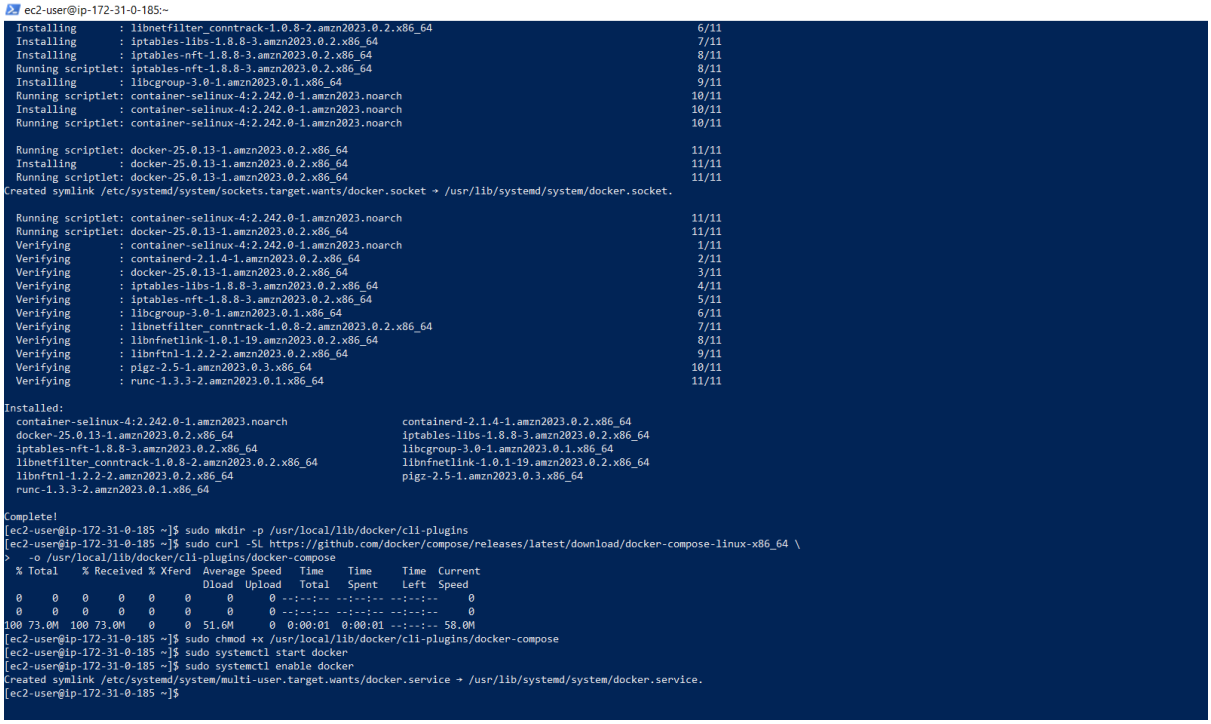
task4_instance_running_console



task4_ssh_from_windows_to_ec2

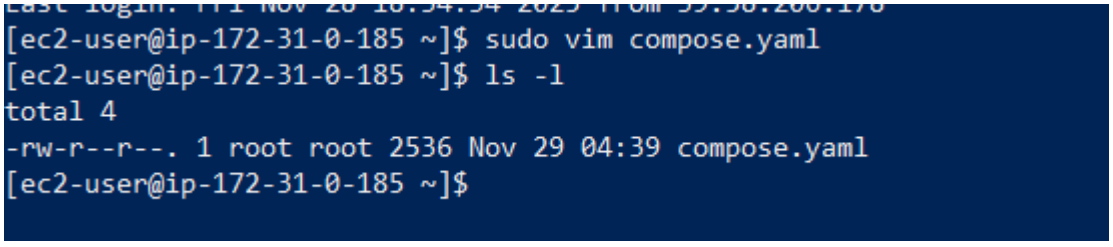


task4_ec2_install_docker_compose_started



task4_vim_compose_yaml_paste

task4_compose_yaml_saved_ls



task4_usermod_and_groups_before_after

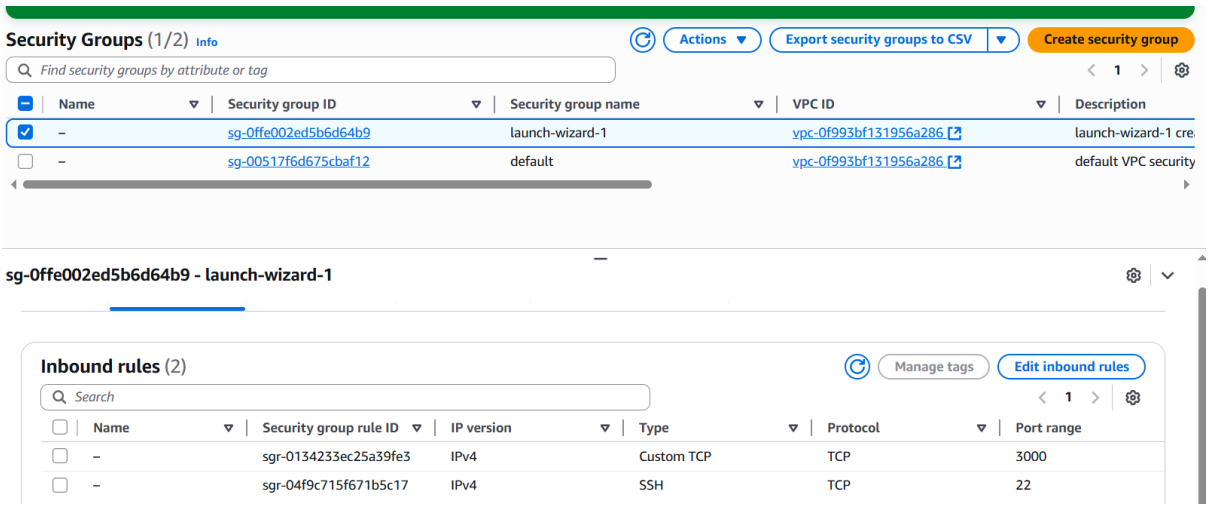
```
[ec2-user@ip-172-31-0-185 ~]$ groups
ec2-user adm wheel systemd-journal
[ec2-user@ip-172-31-0-185 ~]$ sudo usermod -aG docker $USER
[ec2-user@ip-172-31-0-185 ~]$ groups
ec2-user adm wheel systemd-journal
[ec2-user@ip-172-31-0-185 ~]$ exit
logout
Connection to 3.29.100.217 closed.
```

```
       _/m/'
ast login: Sat Nov 29 04:35:18 2025 from 39.58.206.178
[ec2-user@ip-172-31-0-185 ~]$ groups
c2-user adm wheel systemd-journal docker
[ec2-user@ip-172-31-0-185 ~]$
```

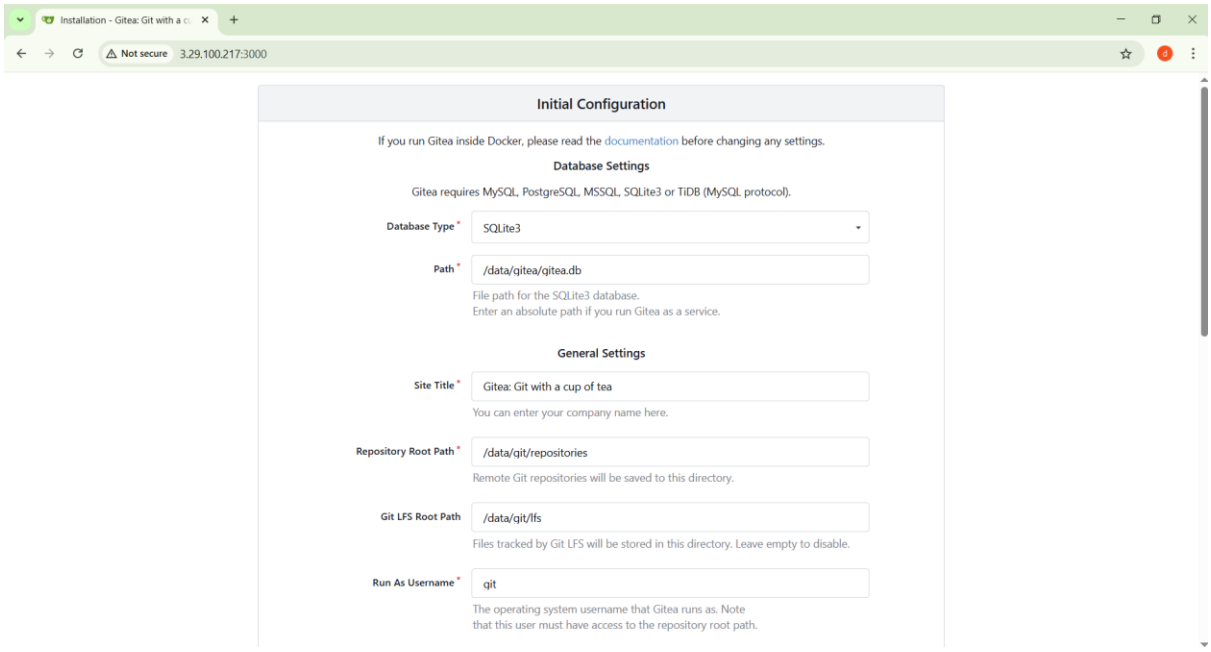
task4_docker_compose_up

```
[ec2-user@ip-172-31-0-185 ~]$ docker compose up -d
WARN[0000] /home/ec2-user/compose.yaml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
 db Pulled
   0e4bc2bd6656 Pull complete
   e213bd2560e2 Pull complete
   9fcd228516aa Pull complete
   2e6036390374 Pull complete
   5a19b1f63ace Pull complete
   dd23ed782cae Pull complete
   b10108f2d223 Pull complete
   4eb4a683c389 Pull complete
   b475dc4bba47 Pull complete
   2c64a0db539b Pull complete
   6e6c09f9e058 Pull complete
   304e9b7c93e6 Pull complete
   95bcad39f7ff Pull complete
   fa51353b2c9b Pull complete
 server Pulled
   2d35ebdb57d9 Pull complete
   712adf69e56e Pull complete
   ceee20f5a0c8 Pull complete
   510f786cf94b Pull complete
   edff09febfa9 Pull complete
   f84edd1c8d8b Pull complete
 Network ec2-user_default  Created
 Volume ec2-user_gitea     Created
 Volume ec2-user_postgres  Created
 Container gitea-db        Started
 Container gitea           Started
[ec2-user@ip-172-31-0-185 ~]$
```

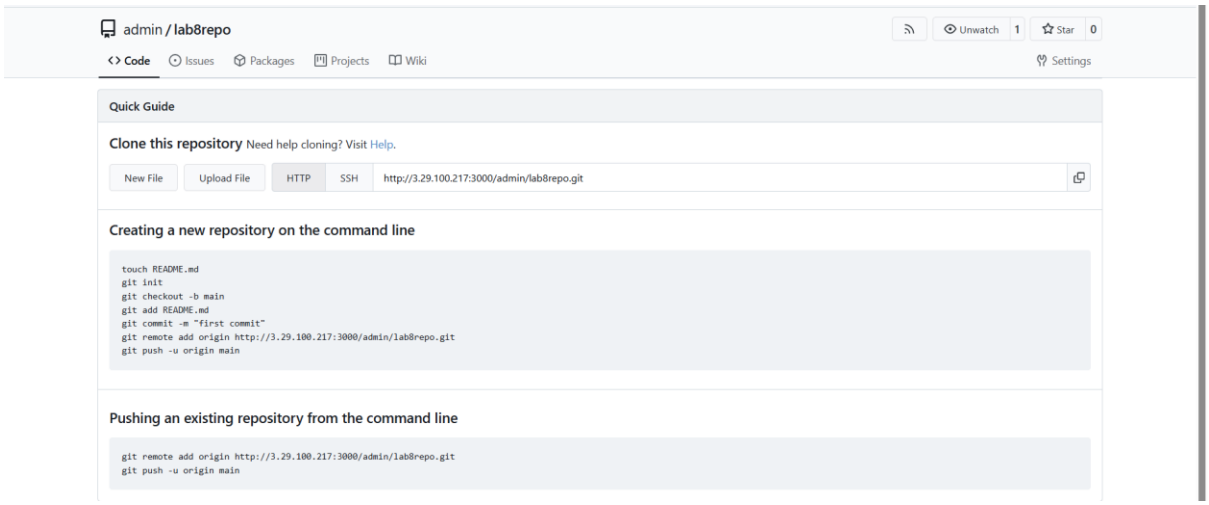
task4_security_group_allow_3000



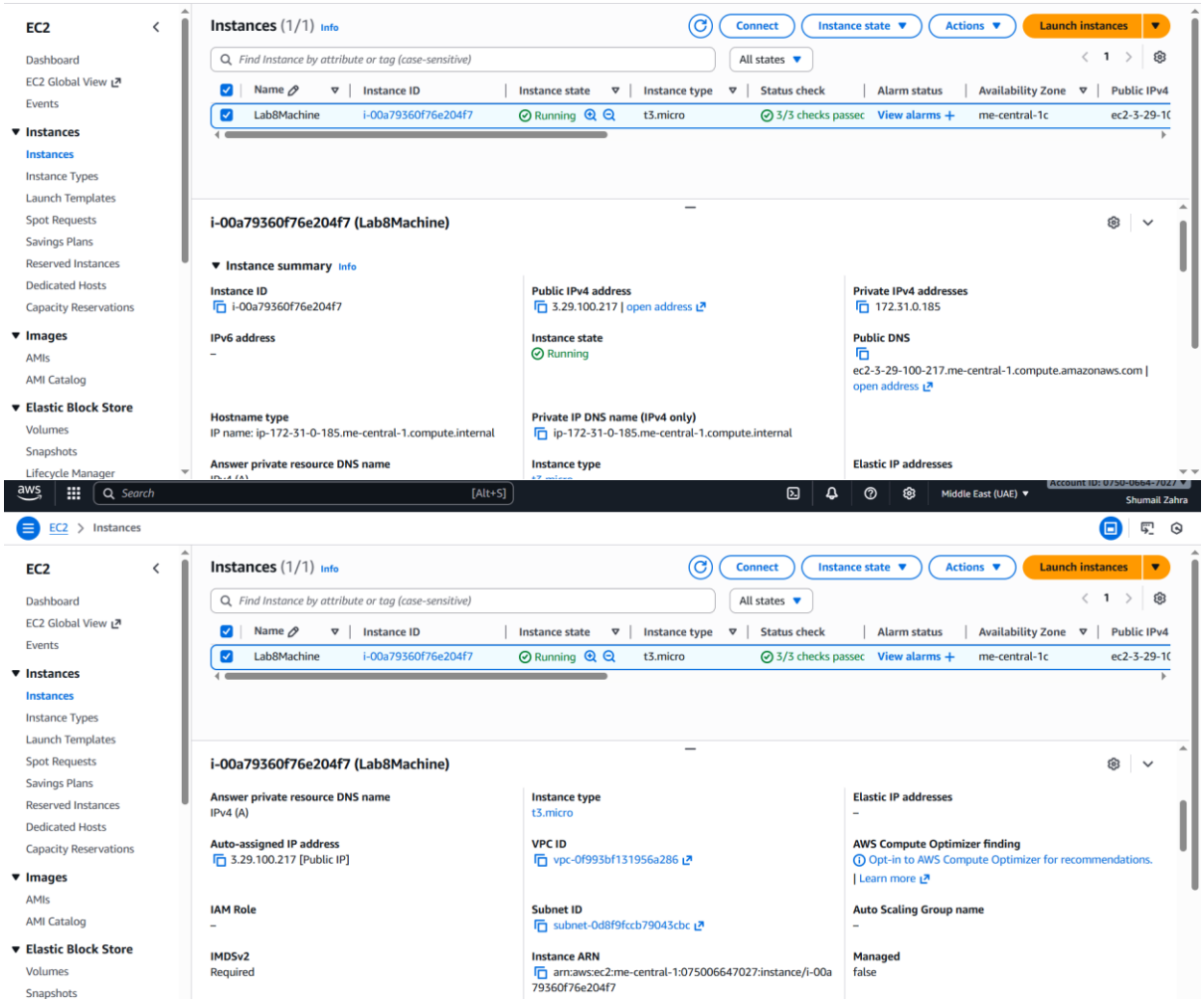
task4_gitea_install_page

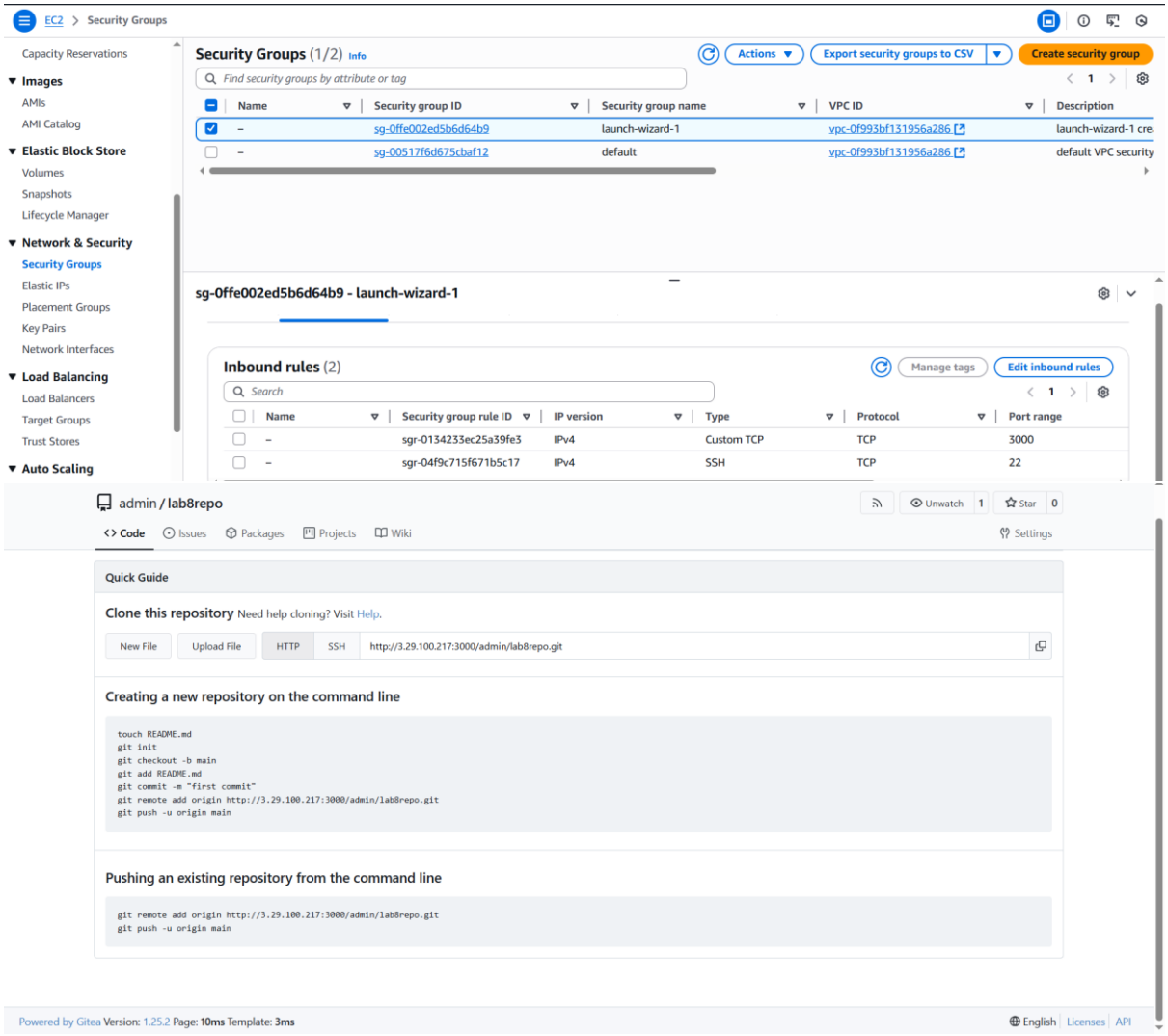


task4_gitea_create_repo



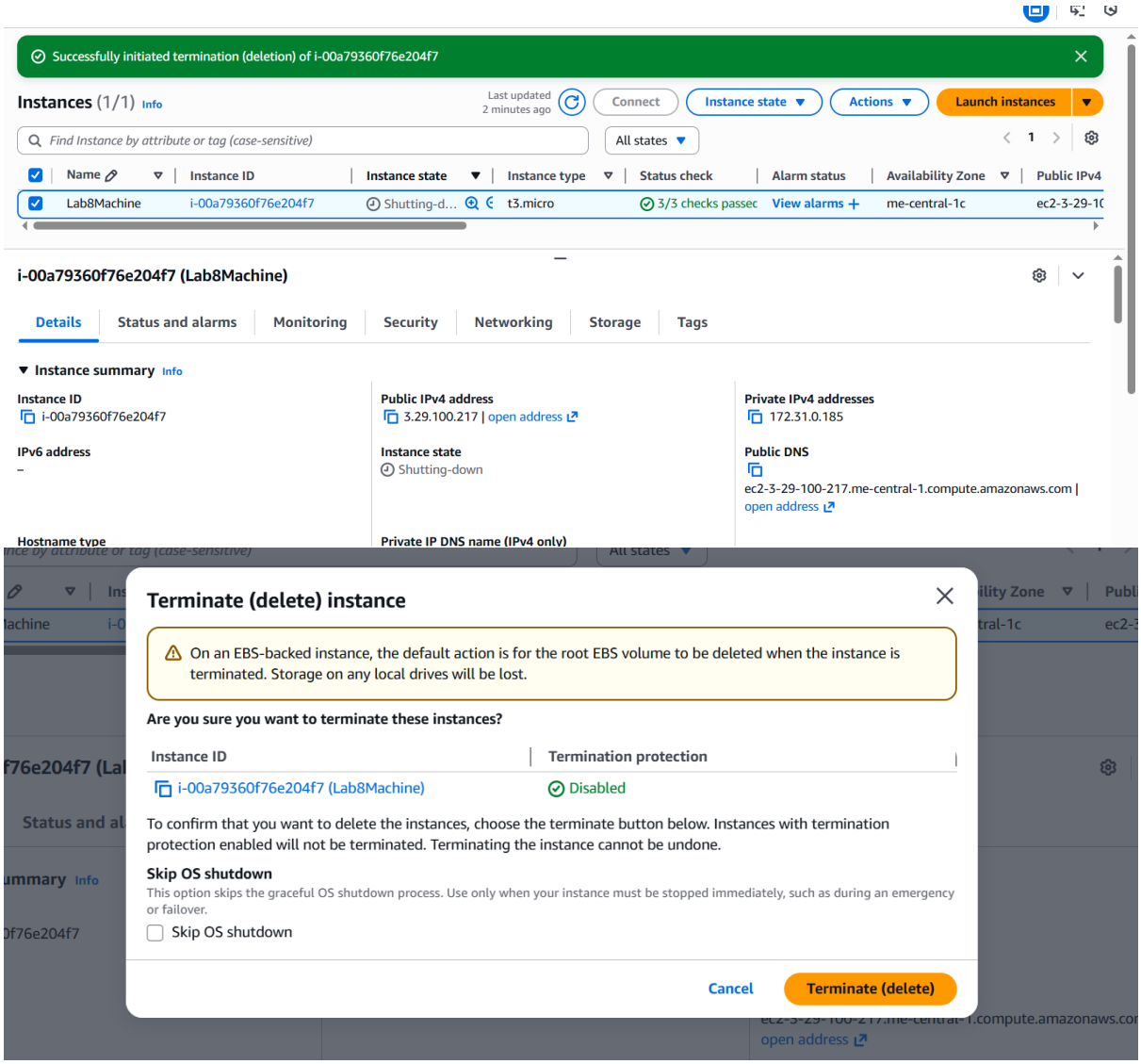
task4_summary


EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4
Lab8Machine
i-00a79360f76e204f7
Running
t3.micro
3/3 checks passed
View alarms
me-central-1c
i-00a79360f76e204f7 (Lab8Machine)
Instance summary Info
Instance ID
i-00a79360f76e204f7
Public IPv4 address
3.29.100.217 | open address
Private IPv4 addresses
172.31.0.185
IPv6 address
–
Instance state
Running
Public DNS
ec2-3-29-100-217.me-central-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-0-185.me-central-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-0-185.me-central-1.compute.internal
Answer private resource DNS name
Instance type
Elastic IP addresses
Search
[Alt+S]
Middle East (UAE)
Shumail Zahra
EC2 > Instances
Auto-assigned IP address
3.29.100.217 [Public IP]
VPC ID
vpc-0f993bf131956a286
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role
–
Subnet ID
subnet-0d8f9fccb79043cbc
Auto Scaling Group name
–
IMDSv2
Required
Instance ARN
arn:aws:ec2:me-central-1:075006647027:instance/i-00a79360f76e204f7
Managed
false

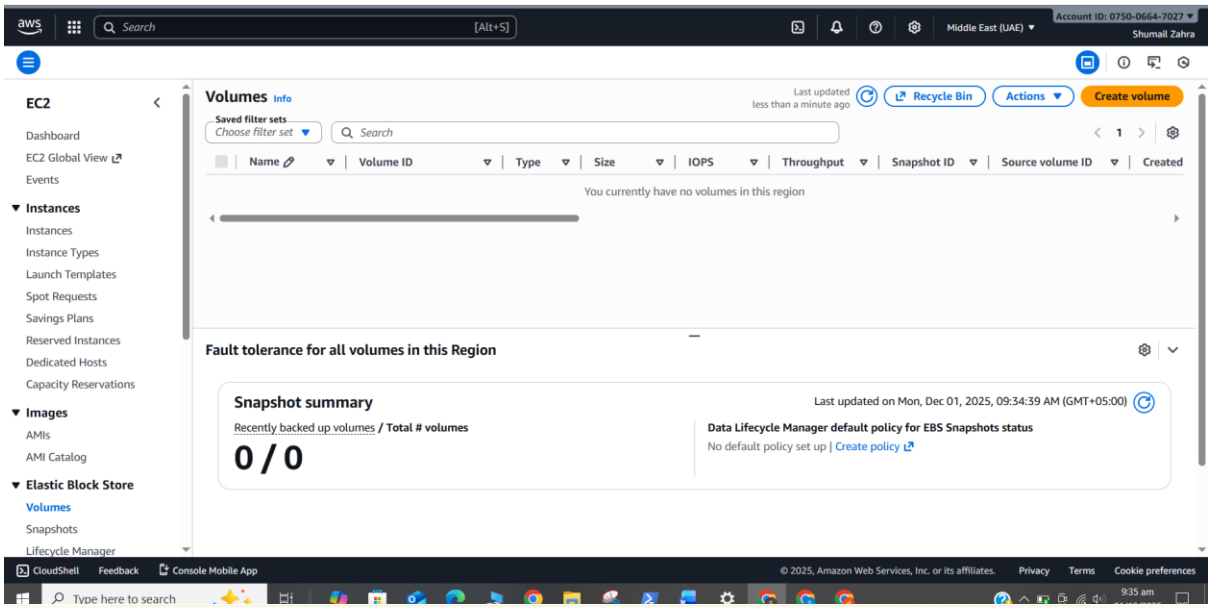


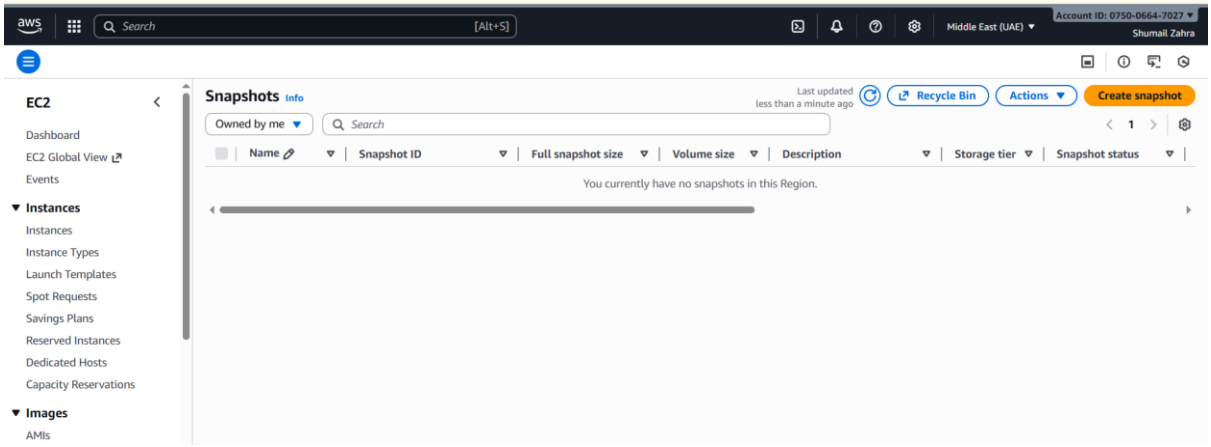
Cleanup — Remove resources to avoid charges

cleanup_terminate_instance

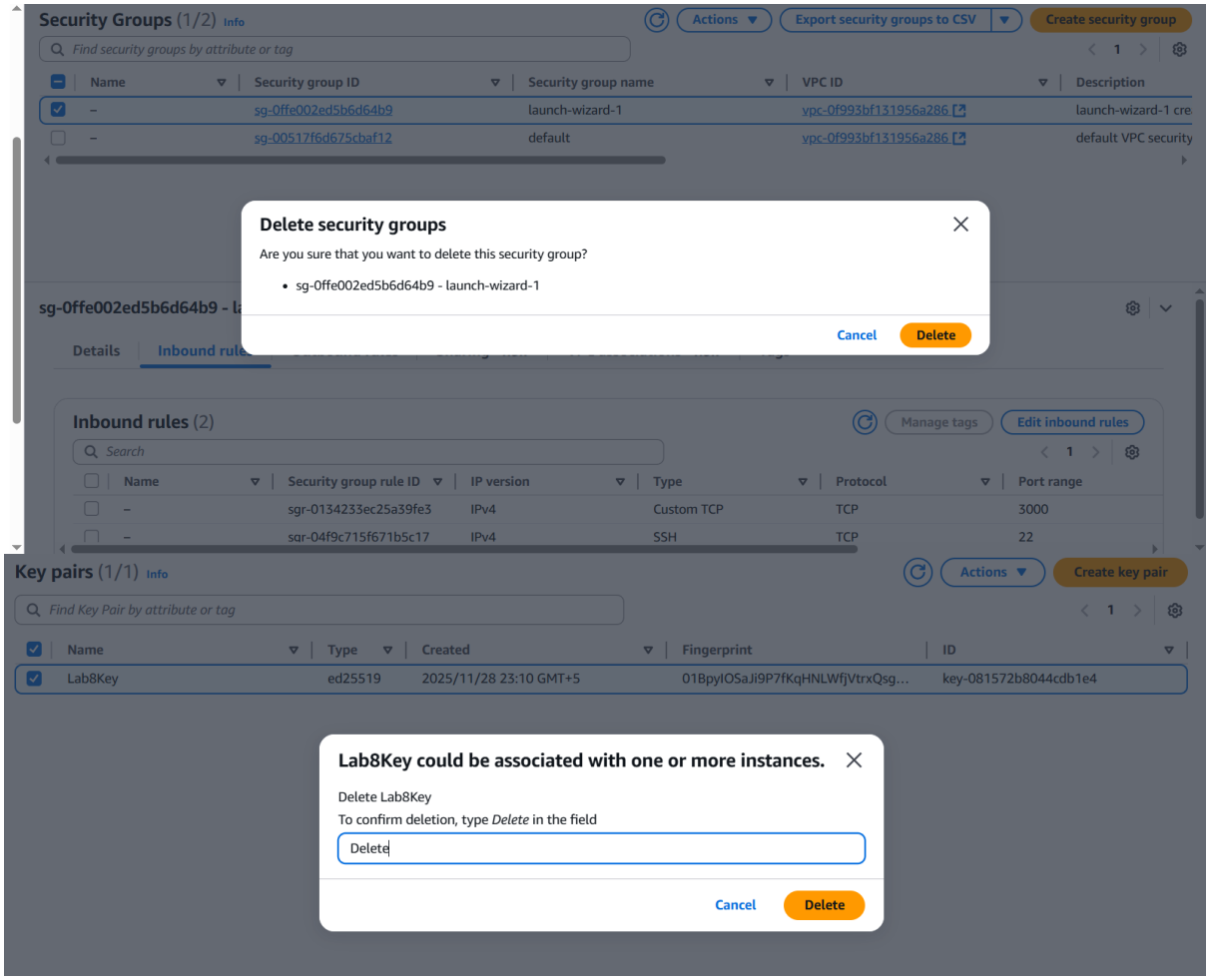


cleanup_delete_volumes_snapshots

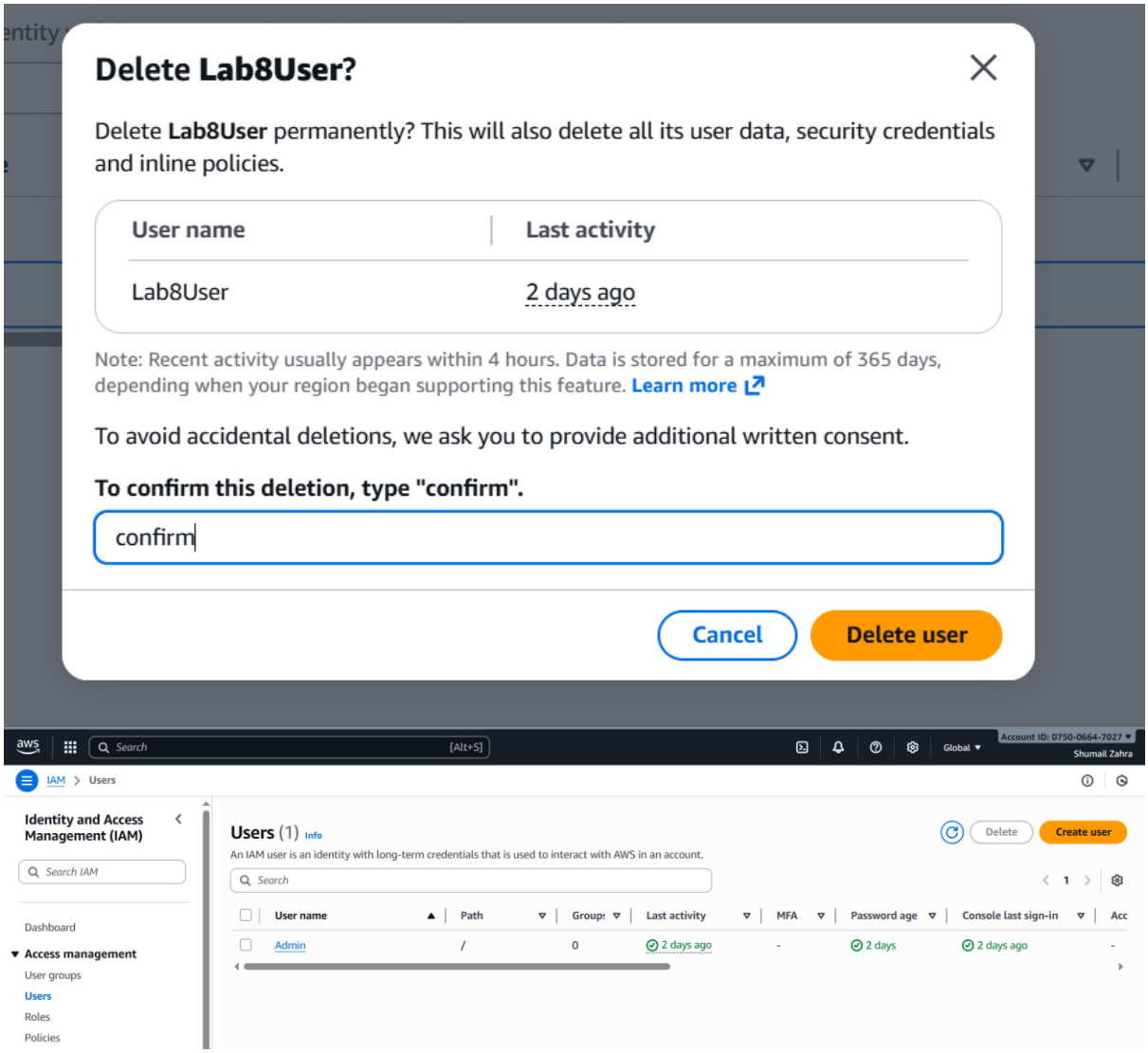




cleanup_delete_security_group_and_keypair



cleanup_iam_users_deleted



cleanup_summary