Cloud Computing Lab

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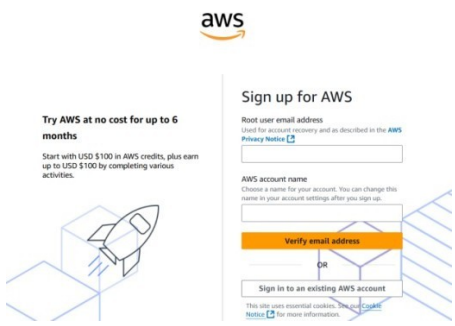
BSE-V B

2023-BSE-046

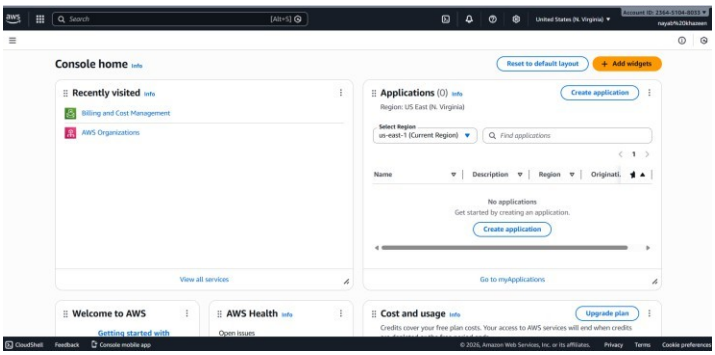
LAB 08

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

- task1_open_signup_page.png

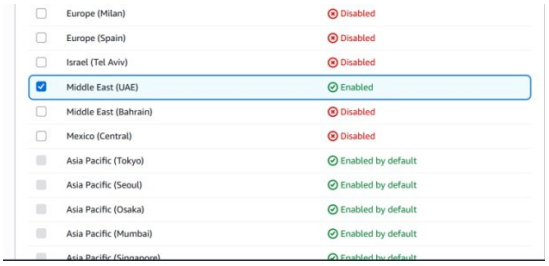


- task1_signed_up_confirmation.png

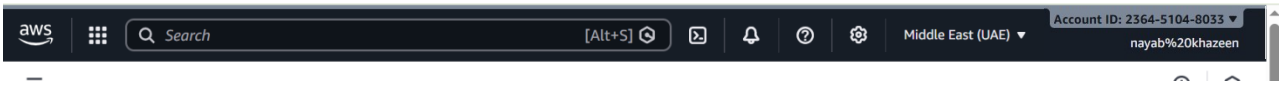


- task1_root_signed_in.png

- task1_enable_region_me-central-1.png

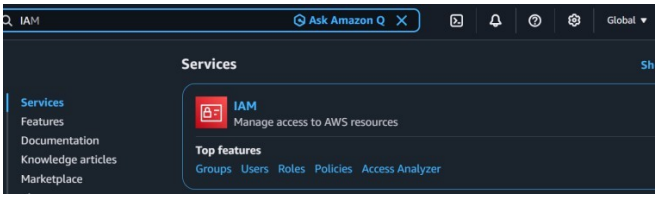


- task1_summary.png

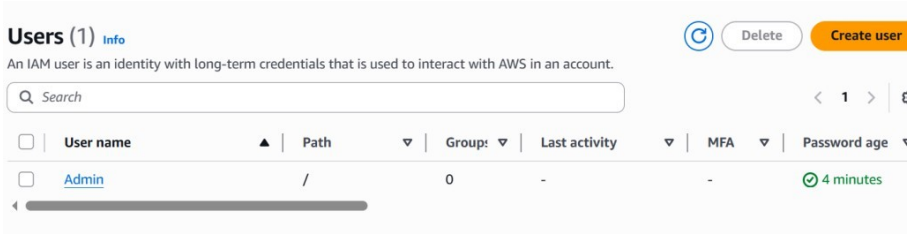


Task 2 — Create IAM Admin and Lab8User with console access

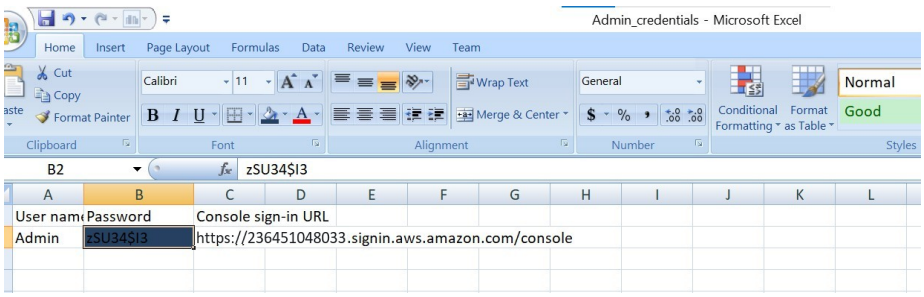
- task2_open_iam_console.png



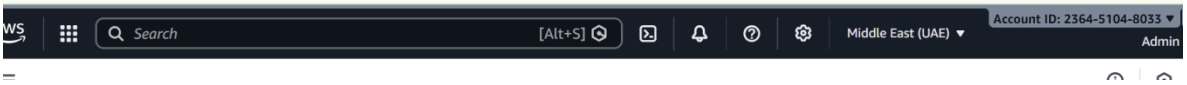
- task2_admin_create_confirmation.png



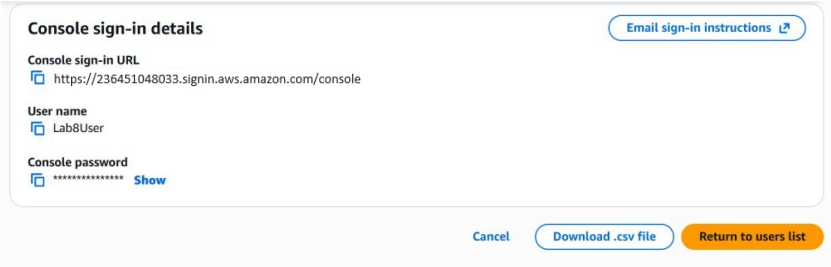
- task2_admin_csv_and_signin_url.png



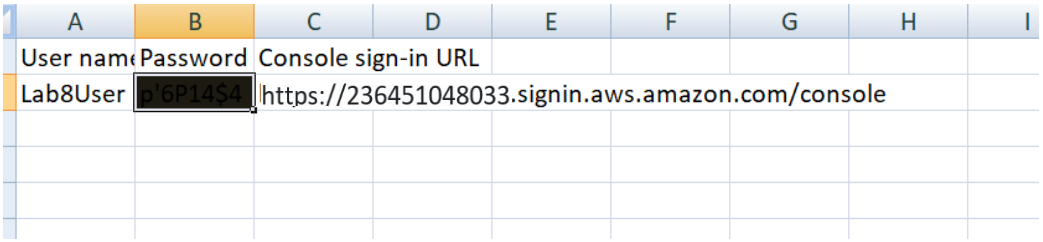
- task2_admin_console_after_login.png



- task2_create_lab8user_and_csv.png

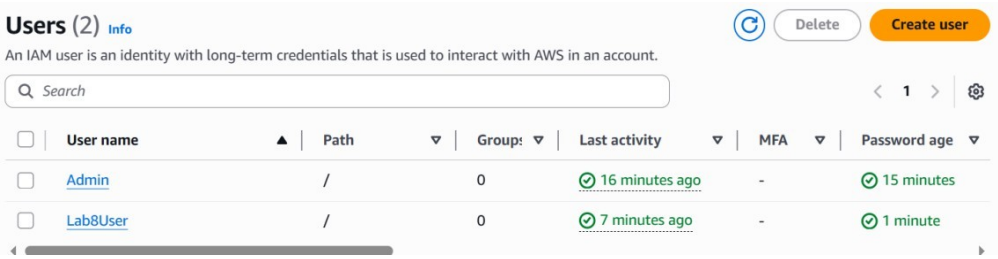


- task2_lab8user_csv_saved.png



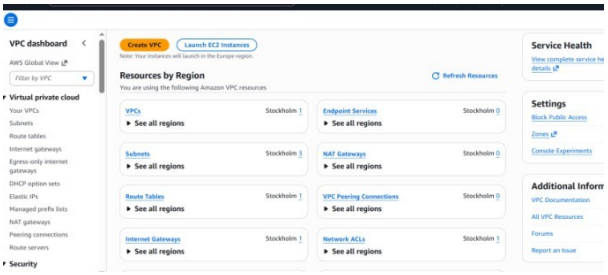
- task2_lab8user_logged_in.png

- task2_summary.png

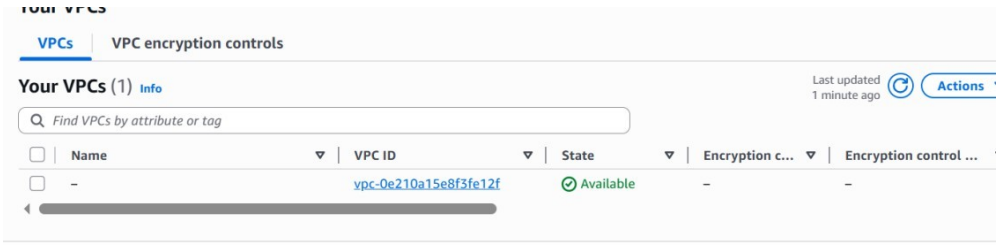


Task 3 — Inspect VPC resources (in UAE me-central-1

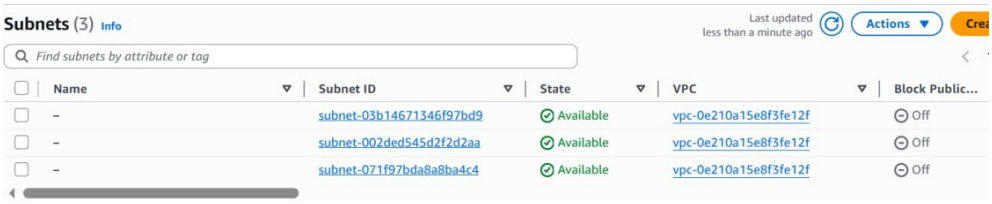
- task3_open_vpc_console.png



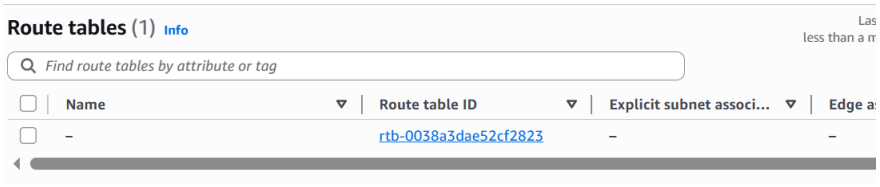
- task3_vpcs_list.png



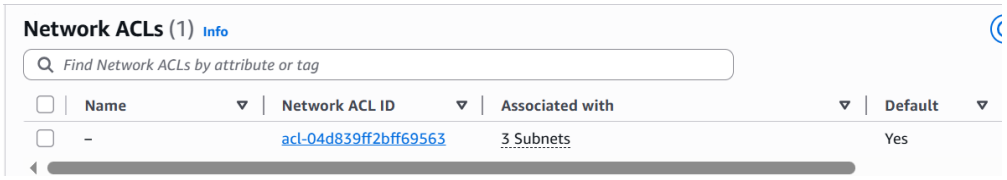
- task3_subnets_list.png



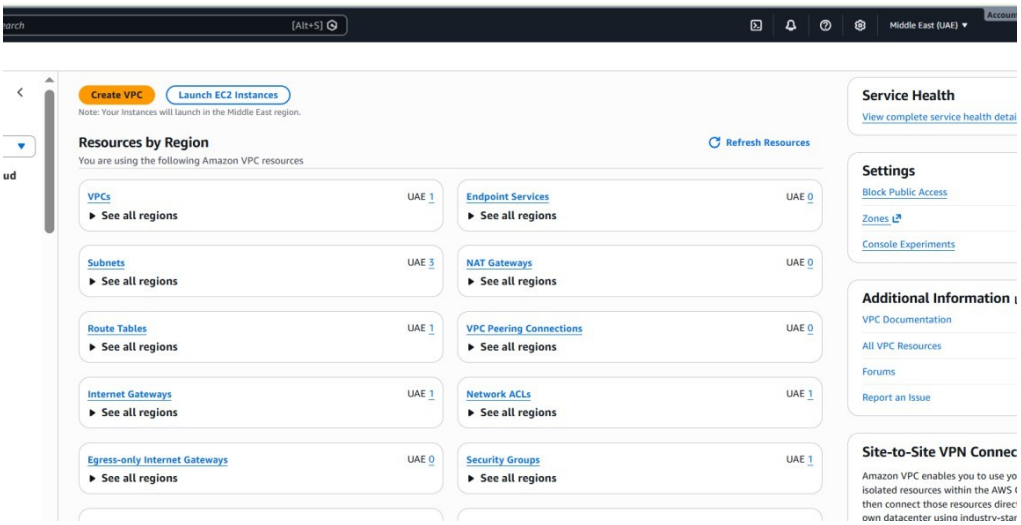
- task3_route_tables_list.png



- task3_network_acls_list.png

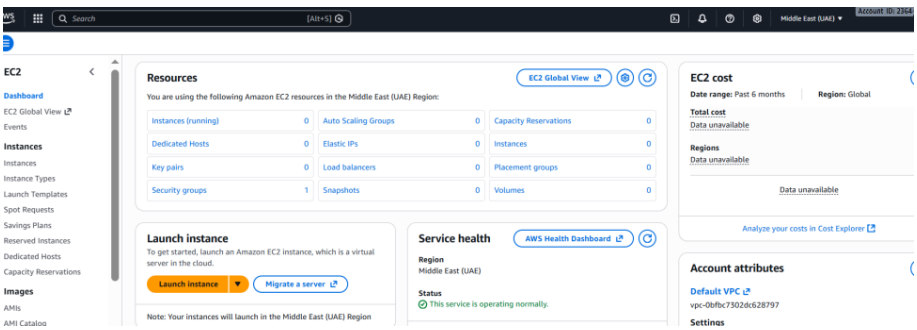


- task3_summary.png

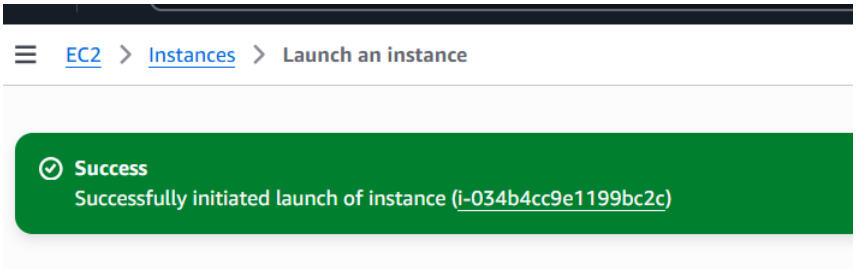


Task 4 — Launch EC2, SSH, install Docker & Docker Compose, deploy Gitea

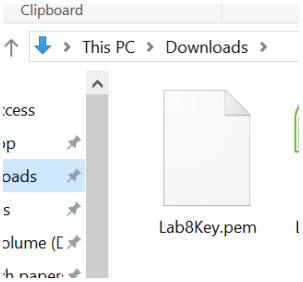
- Ztask4_open_ec2_console.png



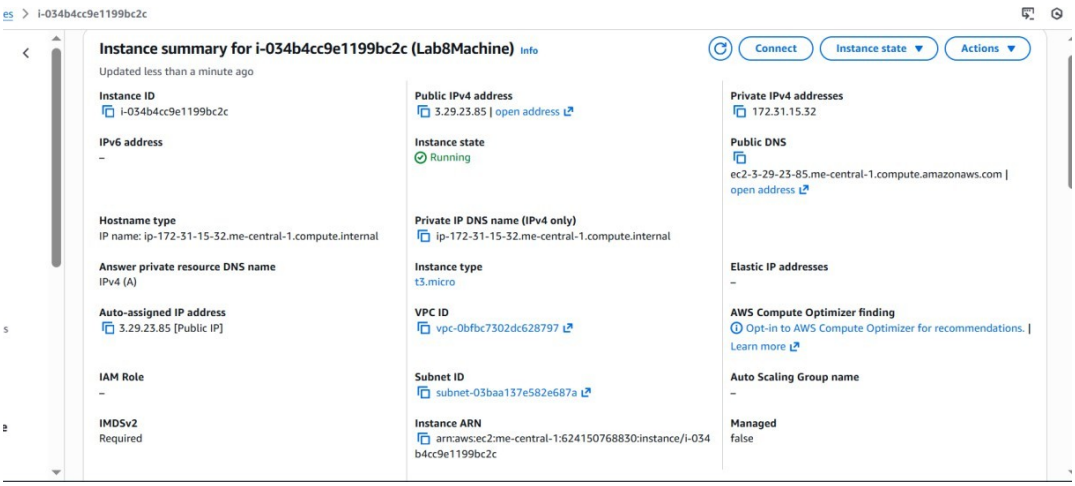
- task4_launch_instance_config.png



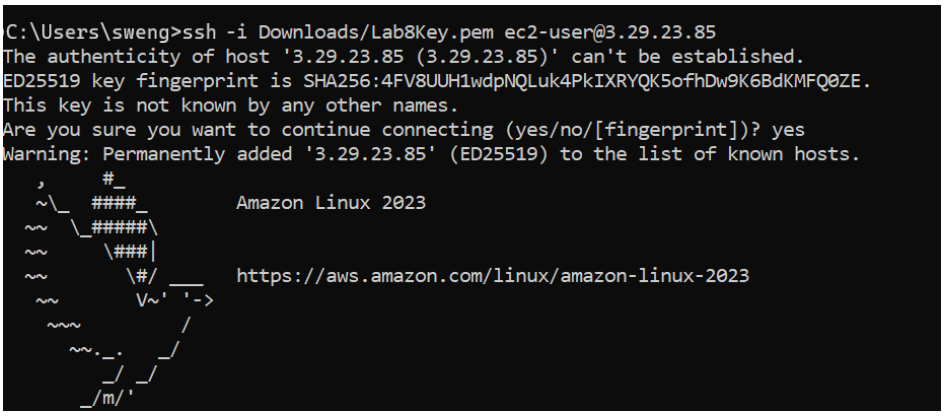
- task4_keypair_download.png



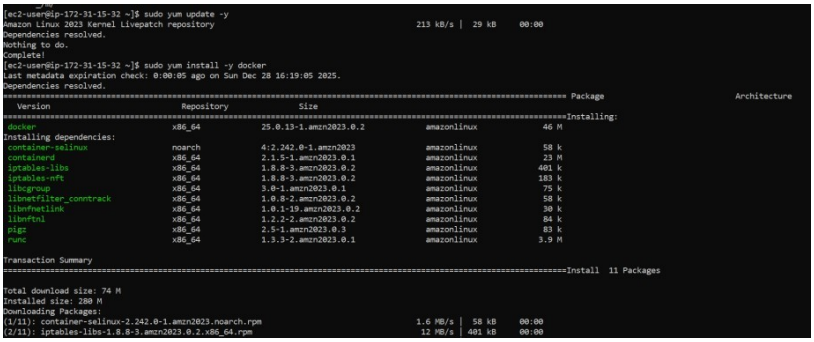
- task4_instance_running_console.png

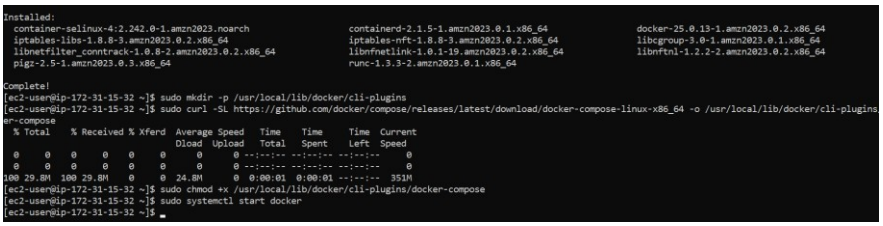


- task4_ssh_from_windows_to_ec2.png

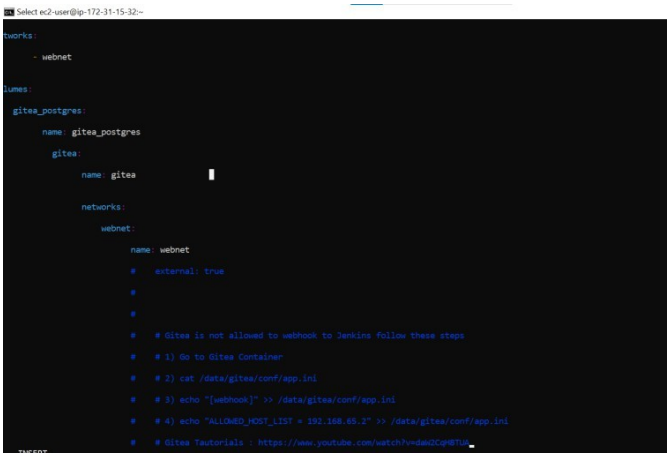


- task4_ec2_install_docker_compose_started.png

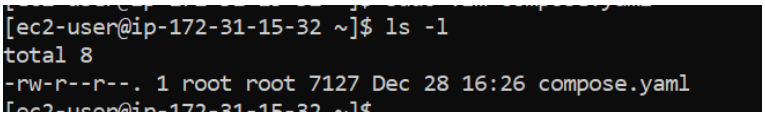




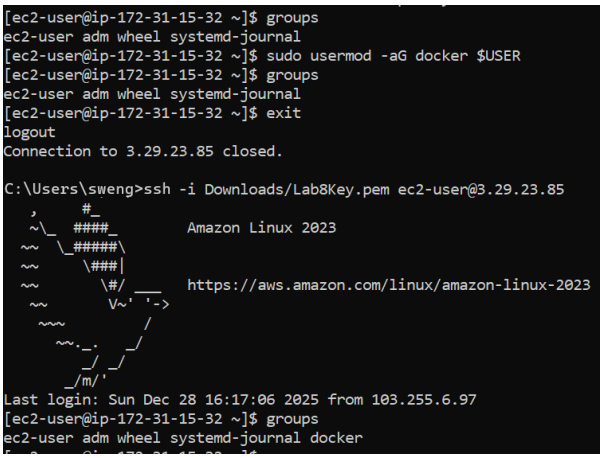
- task4_vim_compose_yaml_paste.png



- task4_compose_yaml_saved_ls.png



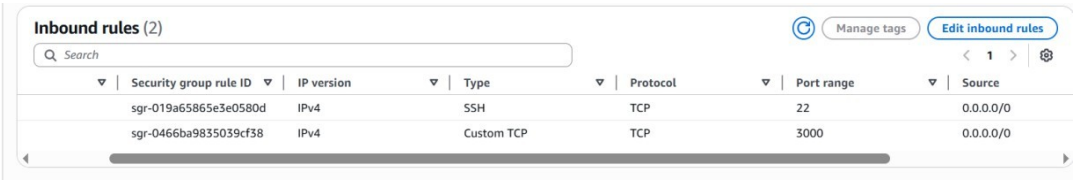
- task4_usermod_and_groups_before_after.png



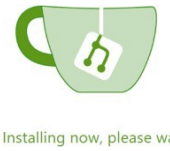
- task4_docker_compose_up.png

```
> EOF
[ec2-user@ip-172-31-15-32 ~]$ sudo docker compose up -d
[+] up 15/18
[+] up 23/23tgres:alpine [▒▒▒▒▒▒▒▒▒▒]   112MB / 112MB   Pulling                                                    10.5s
 ▒ Image postgres:alpine    Pulled                                                                            10.5s
   ▒ 1074353eec0d           Pull complete                                                                      1.0s
   ▒ 51a9324a2bdc           Pull complete                                                                      1.1s
   ▒ 1e827ac0fa1e           Pull complete                                                                      1.1s
   ▒ 0629ac8b8cc5           Pull complete                                                                      1.8s
   ▒ 2e50a444bddf           Pull complete                                                                      7.1s
   ▒ 4465107e1675           Pull complete                                                                      7.1s
   ▒ cc2ee20b6816           Pull complete                                                                      7.2s
   ▒ 0dfd86289dd1           Pull complete                                                                      7.2s
   ▒ 98eecc0da868           Pull complete                                                                      7.2s
   ▒ b747867e61cb           Pull complete                                                                      7.2s
 ▒ Image gitea/gitea:latest Pulled                                                                            10.6s
   ▒ 2d35ebdb57d9           Pull complete                                                                      3.6s
   ▒ 9f4e672c1f34           Pull complete                                                                      5.5s
   ▒ 4da94b3cc809           Pull complete                                                                      5.6s
   ▒ 8e016ece0bd3           Pull complete                                                                      5.6s
   ▒ 346e493cb6cb           Pull complete                                                                      7.2s
   ▒ 95215379f1d1           Pull complete                                                                      7.3s
 ▒ Network webnet           Created                                                                           0.2s
 ▒ Volume gitea_postgres    Created                                                                           0.0s
 ▒ Volume gitea             Created                                                                           0.0s
 ▒ Container gitea_db       Created                                                                           0.2s
 ▒ Container gitea          Created                                                                           0.2s
```

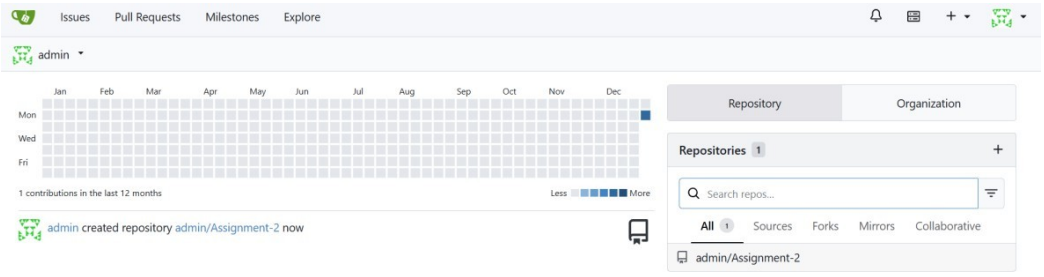
- task4_security_group_allow_3000.png



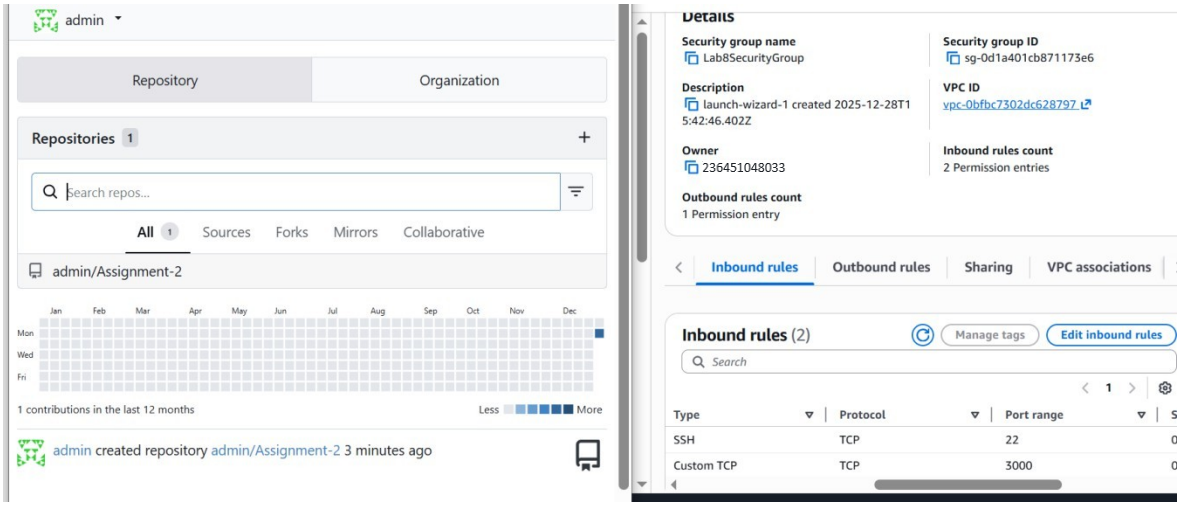
- task4_gitea_install_page.png



- task4_gitea_create_repo.png

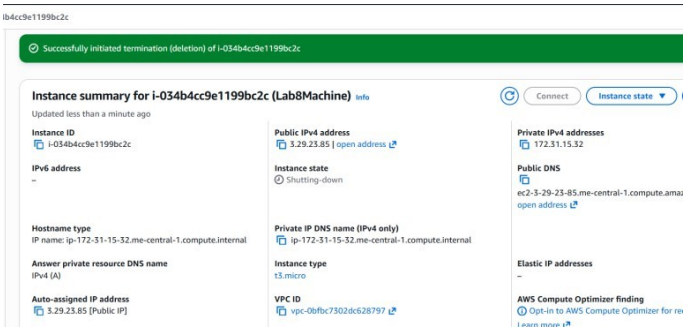


- task4_summary.png

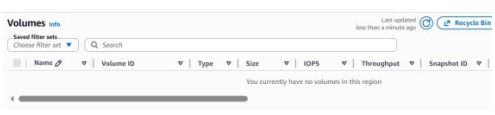


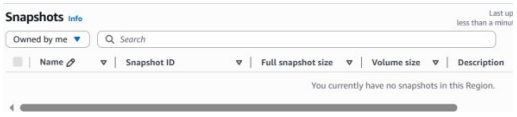
Cleanup — Remove resources to avoid charges

- cleanup_terminate_instance.png

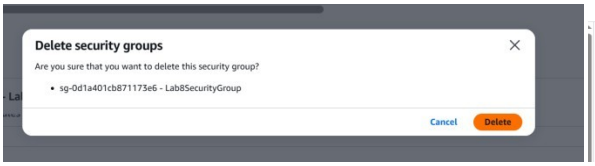


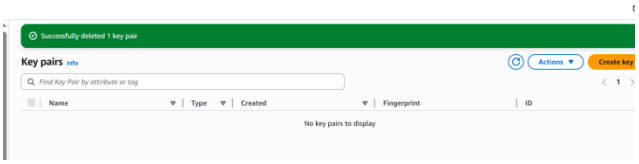
- cleanup_delete_volumes_snapshots.png



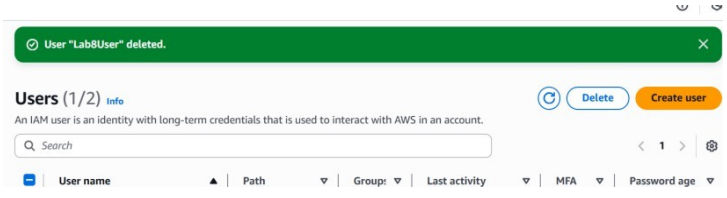


- cleanup_delete_security_group_and_keypair.png

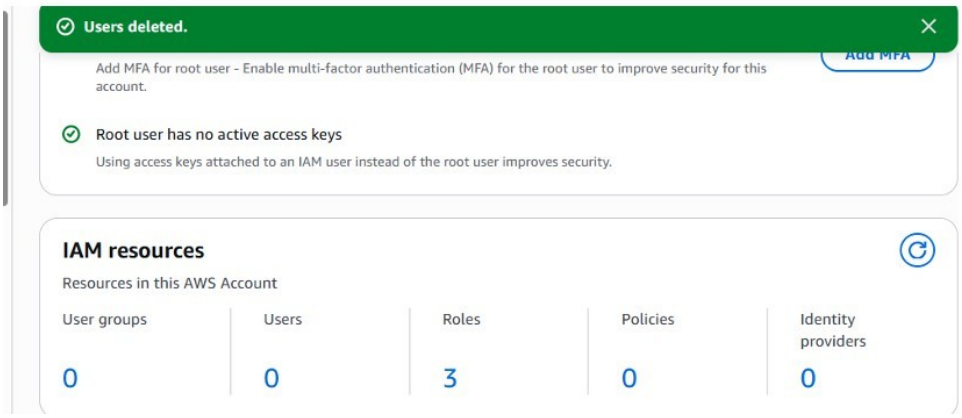




- cleanup_iam_users_deleted.png



- cleanup_summary.png


Users deleted.
Add MFA for root user - Enable multi-factor authentication (MFA) for the root user to improve security for this account.
Add MFA
Root user has no active access keys
Using access keys attached to an IAM user instead of the root user improves security.
IAM resources
Resources in this AWS Account
User groups
0
Users
0
Roles
3
Policies
0
Identity providers
0