Name : Zuha Irfan

Roll No : 2023-BSE-073
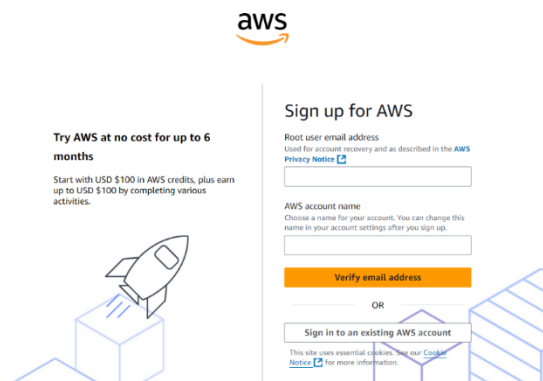
Subject: Cloud Computing

Semester & Section : V-B
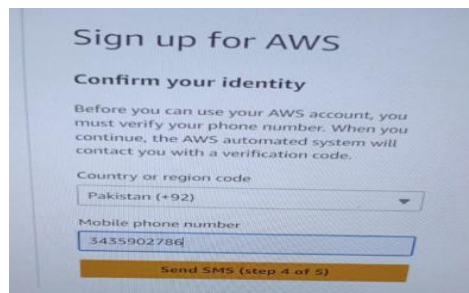
Lab : 08

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
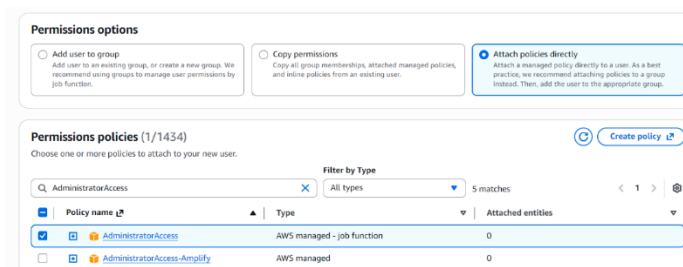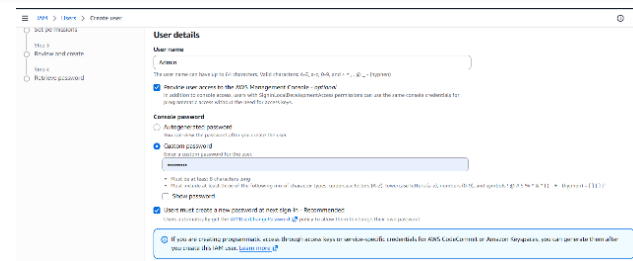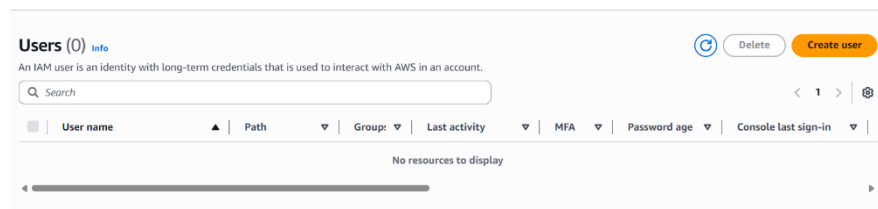

Task 2 — Create IAM Admin and Lab8User with console access

- task2_open_iam_console.png
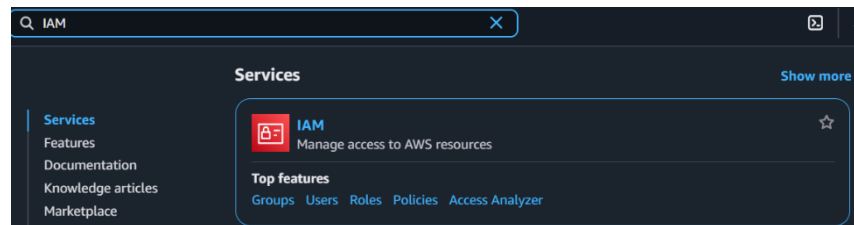
- task2_admin_create_confirmation.png

- task2_admin_csv_and_signin_url.png

- task2_admin_console_after_login.png

- task2_create_lab8user_and_csv.png

- task2_lab8user_csv_saved.png

Today			
Lab8User_credentials.csv	12/9/2025 6:52 PM	Microsoft Excel Com...	1 KB

- task2_lab8user_logged_in.png

aws

✓ Password reset successful

Password reset

Your IAM User **(Lab8User)** password has been reset successfully.

Continue to sign in
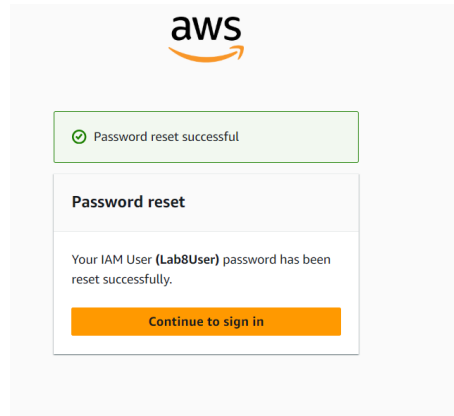
- task2_summary.png

Users (2) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

	User name	Path	Groups	Last activity	MFA	Password age	Console last sign-in
	Admin	/	0	✓ 38 minutes ago	-	✓ 28 minutes	✓ 38 minutes ago
	Lab8User	/	0	✓ 8 minutes ago	-	✓ 7 minutes	✓ 8 minutes ago

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

- task3_open_vpc_console.png

Services

VPC
Isolated Cloud Resources
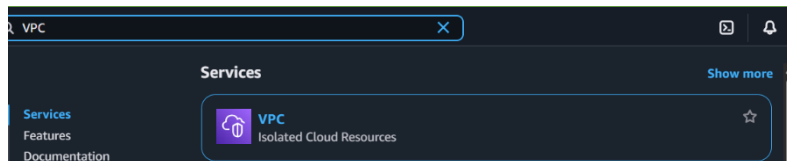
- task3_vpcs_list.png

Subnets (3) Info

	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
	-	subnet-06bd2cc7001fc0311	✓ Available	vpc-0d3e4bbb5e89adc52	⊘ Off	172.31.0.0/
	-	subnet-0d8eceb3ac9aebf97	✓ Available	vpc-0d3e4bbb5e89adc52	⊘ Off	172.31.16.0,
	-	subnet-00bf67309a526e531	✓ Available	vpc-0d3e4bbb5e89adc52	⊘ Off	172.31.32.0,

- task3_subnets_list.png
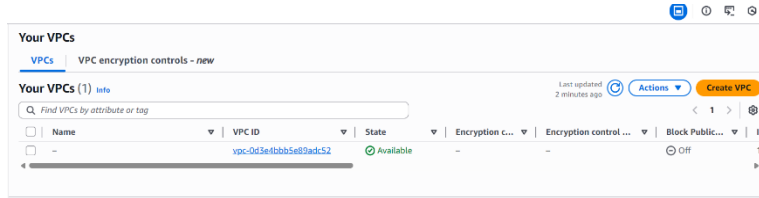
- task3_route_tables_list.png
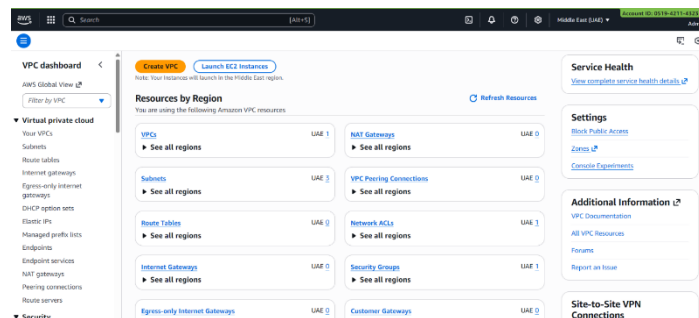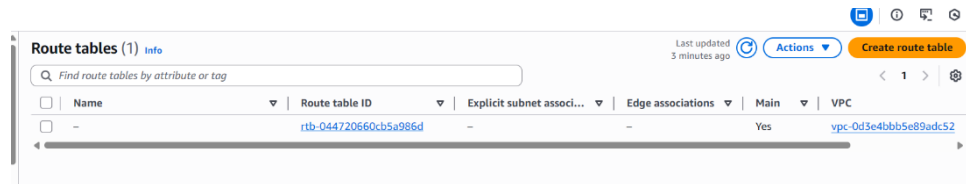
- task3_network_acls_list.png
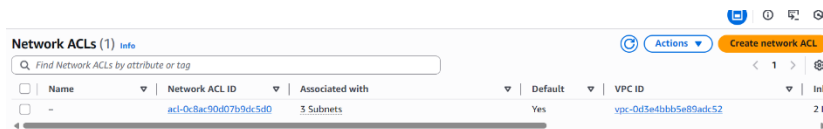
- task3_summary.png
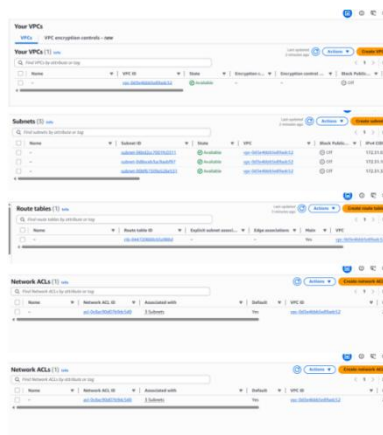
Task 4 — Launch EC2, SSH, install Docker & Docker Compose, deploy Gitea

- task4_open_ec2_console.png
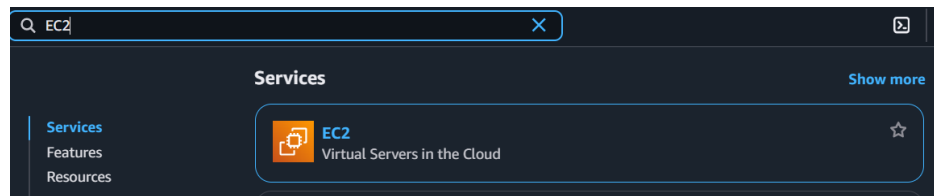
- task4_launch_instance_config.png

- task4_keypair_download.png
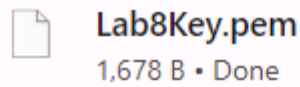
- task4_instance_running_console.png

- task4_ssh_from_windows_to_ec2.png

- task4_ec2_install_docker_compose_started.png
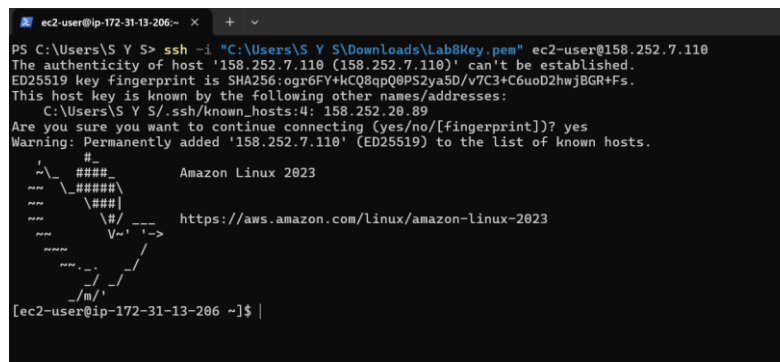
- task4_vim_compose_yaml_paste.png


```yaml
services:
  server:
    image: gitea/gitea:latest
    container_name: gitea
    environment:
      - USER_UID=1000
      - USER_GID=1000
    volumes:
      - ./gitea:/data
    ports:
      - "3000:3000"
      - "222:22"
    restart: always
```

```
:wq!
```



```
[ec2-user@ip-172-31-13-206 ~]$ docker compose up -d
[+] up 9/9
 ✔Image gitea/gitea:latest Pulled
 ✔Network ec2-user_default Created
 ✔Container gitea      Created
```

- task4_compose_yaml_saved_ls.png


```
sudo vim compose.yaml
[ec2-user@ip-172-31-13-206 ~]$ ls -l
total 0
-rw-r--r--. 1 root root 0 Dec  9 18:36 compose.yaml
```

- task4_usermod_and_groups_before_after.png

```
lw-r--r--. 1 root root 0 Dec  9 18:58 
[ec2-user@ip-172-31-13-206 ~]$ groups
sudo usermod -aG docker $USER
groups
ec2-user adm wheel systemd-journal
ec2-user adm wheel systemd-journal
```

```
ec2-user adm wheel systemd-journal
[ec2-user@ip-172-31-13-206 ~]$ exit
logout
Connection to 158.252.7.110 closed.
```

```
PS C:\Users\S Y S> ssh -i "C:\Users\S Y S\Downloads\Lab8Key.pem" ec2-user@158.252.7.110
     '    #_
    ~\_  ####_         Amazon Linux 2023
   ~~  \_#####\
   ~~     \###|
   ~~      \#/ ___       https://aws.amazon.com/linux/amazon-linux-2023
    ~~     V~' '->
     ~~~       /
      ~~._.   _/
        _/ _/
       _/m/'
Last login: Tue Dec  9 18:08:45 2025 from 116.71.162.191
[ec2-user@ip-172-31-13-206 ~]$ groups
ec2-user adm wheel systemd-journal docker
```

- task4_docker_compose_up.png

```
[ec2-user@ip-172-31-13-206 ~]$ cd ~
docker compose up -d
empty compose file
```

- task4_security_group_allow_3000.png

sg-0511bbf2e5ebc843b - launch-wizard-1   Actions ▼

Details

Security group name	Security group ID	Description	VPC ID
launch-wizard-1	sg-0511bbf2e5ebc843b	launch-wizard-1 created 2025-12-09T 14:43:42.276Z	vpc-0d5e4bbb5e89adc52
Owner	Inbound rules count	Outbound rules count	
051942114323	2 Permission entries	1 Permission entry	

Inbound rules   Outbound rules   Sharing   VPC associations   Tags

Inbound rules (2)   Manage tags   Edit inbound rules

Name	Security group rule ID	IP version	Type	Protocol	Port range
-	sgr-031376ffb61a509d8	IPv4	Custom TCP	TCP	3000
-	sgr-04d43774f3651c592	IPv4	SSH	TCP	22

- task4_gitea_install_page.png

158.252.7.110:3000

Initial Configuration

If you run Gitea inside Docker, please read the documentation before changing any settings.

Database Settings

Gitea requires MySQL, PostgreSQL, MSSQL, SQLite3 or TiDB (MySQL protocol).

Database Type *	SQLite3 ▾
Path *	/data/gitea/gitea.db

File path for the SQLite3 database.
Enter an absolute path if you run Gitea as a service.

General Settings

Site Title *	Gitea: Git with a cup of tea

You can enter your company name here.

Repository Root Path *	/data/git/repositories

Remote Git repositories will be saved to this directory.

Git LFS Root Path	/data/git/lfs

Files tracked by Git LFS will be stored in this directory. Leave empty to disable.

Run As Username *	git

The operating system username that Gitea runs as. Note
that this user must have access to the repository root path.

- task4_gitea_create_repo.png
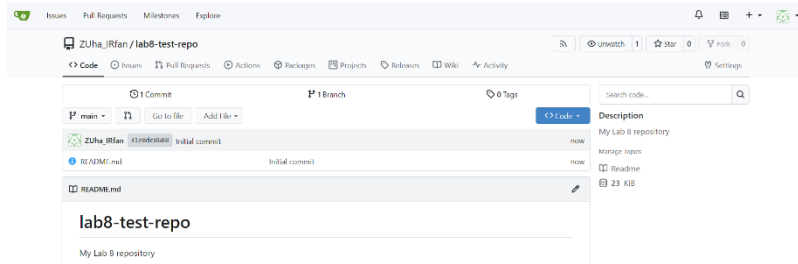
- task4_summary.png

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

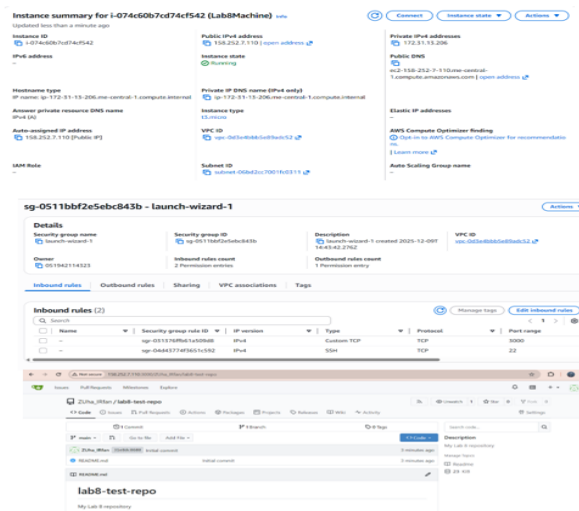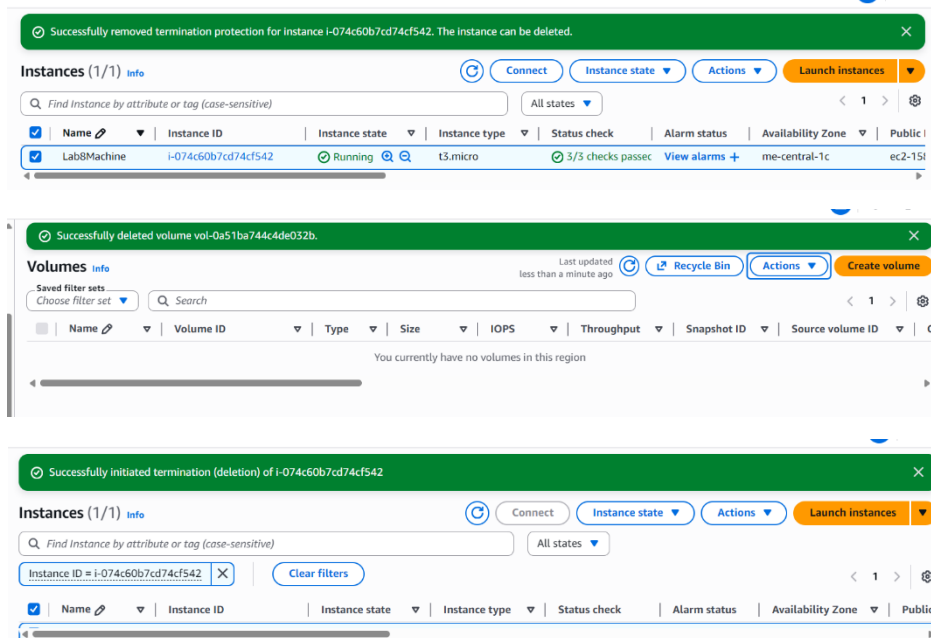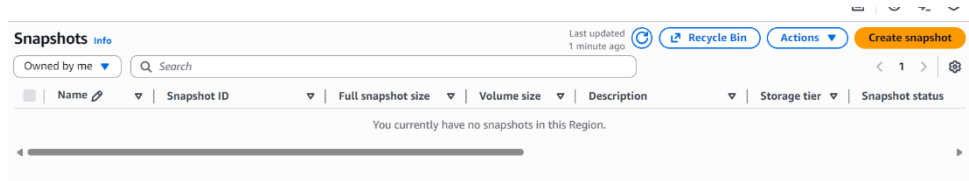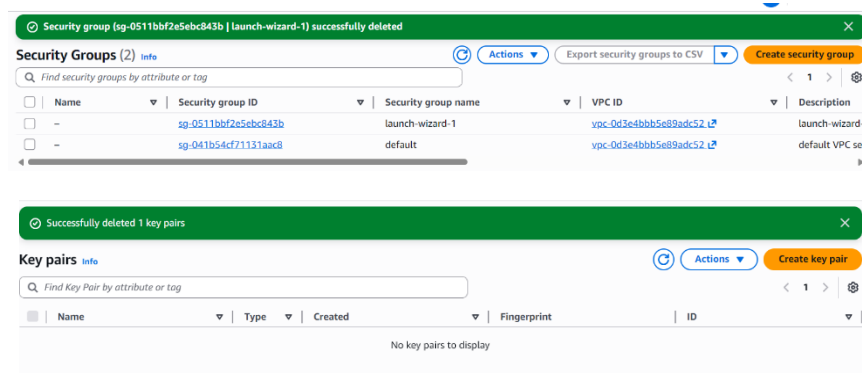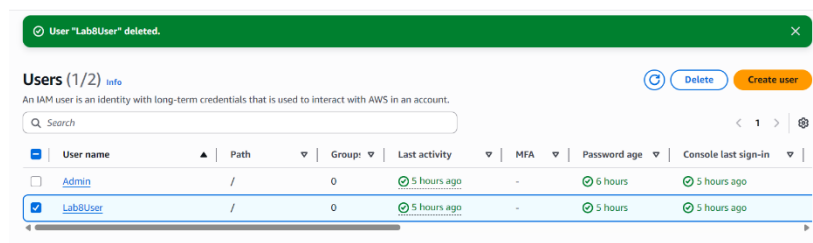

- cleanup_summary.png

Resource search results (9)

Choose up to 500 resources for which you want to edit tags.

Export 9 resources to CSV ▼   Manage tags of selected resources

🔍 Filter resources

‹ 1 › ⚙

☐	Identifier ⬈ ▽	Tag: Name ▽	Service ▽	Type ▽	Region ▽	Tags ▽
☐	dopt-00bd5a27d71...	(not tagged)	EC2	DHCPOptions	me-central-1	-
☐	igw-034b6746e0a4...	(not tagged)	EC2	InternetGateway	me-central-1	-
☐	acl-0c8ac90d07b9d...	(not tagged)	EC2	NetworkAcl	me-central-1	-
☐	rtb-044720660cb5...	(not tagged)	EC2	RouteTable	me-central-1	-
☐	sg-041b54cf71131...	(not tagged)	EC2	SecurityGroup	me-central-1	-
☐	subnet-06bd2cc70...	(not tagged)	EC2	Subnet	me-central-1	-
☐	subnet-0d8eceb3ac...	(not tagged)	EC2	Subnet	me-central-1	-
☐	subnet-00bf67309...	(not tagged)	EC2	Subnet	me-central-1	-
☐	vpc-0d3e4bbb5e89...	(not tagged)	EC2	VPC	me-central-1	-