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Reg.no: 2023-BSE-040

Subject: Cloud Computing

# LAB # 08

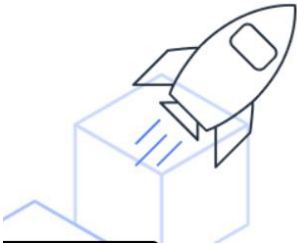
## TASK 1:

1.



**Try AWS at no cost for up to 6 months**

Start with USD \$100 in AWS credits, plus earn up to USD \$100 by completing various activities.



### Sign up for AWS

Root user email address  
Used for account recovery and as described in the [AWS Privacy Notice](#)

AWS account name  
Choose a name for your account. You can change this name in your account settings after you sign up.

**Verify email address**

OR

**Sign in to an existing AWS account**

This site uses essential cookies. See our [Cookie](#)

2.

**AWS Regions** Info

Disable Enable Refresh

Region	Status
<input type="checkbox"/> Africa (Cape Town)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Hong Kong)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Taipei)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Hyderabad)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Jakarta)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Melbourne)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Malaysia)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (New Zealand)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Thailand)	⛔ Disabled
<input type="checkbox"/> Canada (Calgary)	⛔ Disabled
<input type="checkbox"/> Europe (Zurich)	⛔ Disabled
<input type="checkbox"/> Europe (Milan)	⛔ Disabled
<input type="checkbox"/> Europe (Spain)	⛔ Disabled
<input type="checkbox"/> Israel (Tel Aviv)	⛔ Disabled
<input checked="" type="checkbox"/> Middle East (UAE)	✅ Enabled
<input type="checkbox"/> Middle East (Bahrain)	⛔ Disabled

3.



Q Search

[Alt+S]



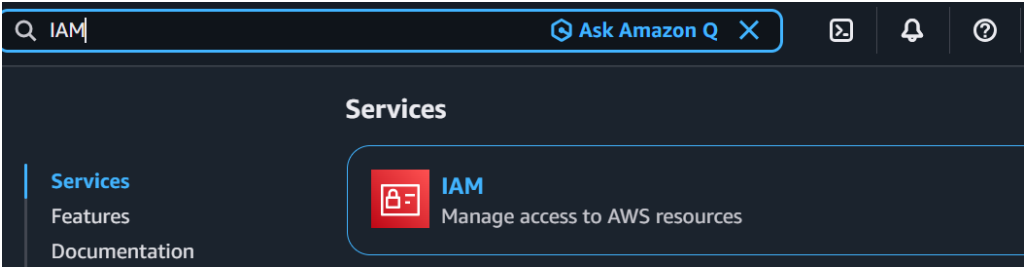
Global

Account ID: 7372-3081-1842

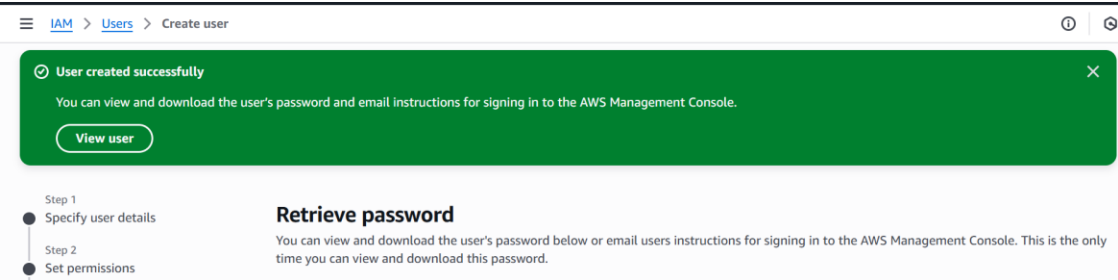
Maira%20Malik

Task 2:

1.



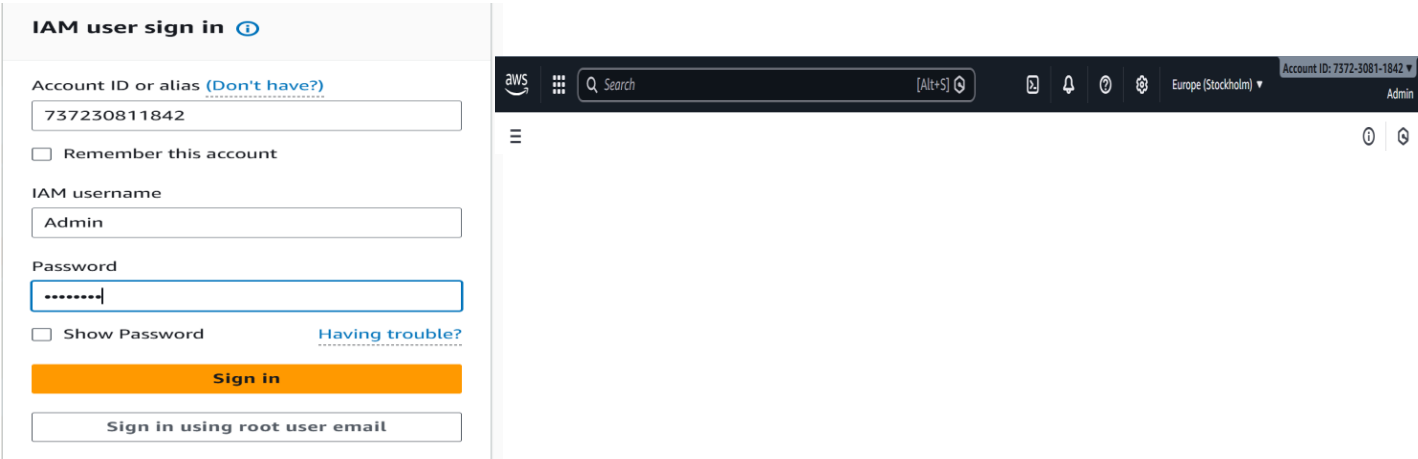
2.



3.

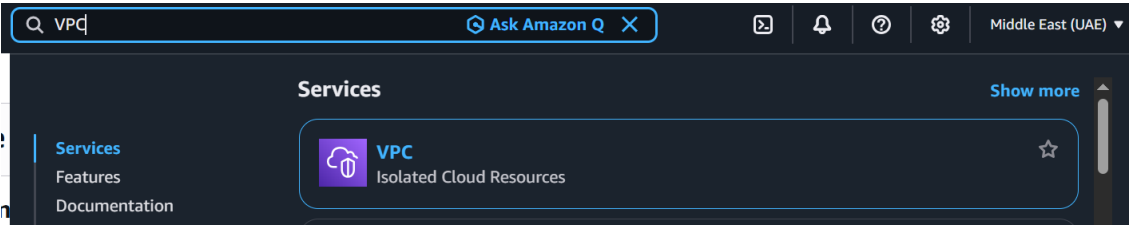
A1								
	A	B	C	D	E	F	G	H
1	User name	Console sign-in URL						
2	Admin	https://737230811842.signin.aws.amazon.com/console						
3								
4								

4.



Task 3:

1.



2.

**VPC dashboard**

AWS Global View

Filter by VPC

**Virtual private cloud**

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists

**Resources by Region**

Note: Your Instances will launch in the Middle East region.

**VPCs** UAE 1  
▶ See all regions

**Subnets** UAE 3  
▶ See all regions

**Route Tables** UAE 0  
▶ See all regions

**Endpoint Services** UAE 0  
▶ See all regions

**NAT Gateways** UAE 0  
▶ See all regions

**VPC Peering Connections** UAE 0  
▶ See all regions

**Service Health**  
[View complete service health details](#)

**Settings**  
[Block Public Access](#)  
[Zones](#)  
[Console Experiments](#)

**Additional Information**  
[VPC Documentation](#)

3.

**Your VPCs (1)** Info

Last updated 2 minutes ago

Find VPCs by attribute or tag

<input type="checkbox"/>	Name	VPC ID	State	Encryption c...	Er
<input type="checkbox"/>	-	<a href="#">vpc-0549d3ac398b8e635</a>	Available	-	-

Select a VPC above

4.

**Subnets (3)** Info

Last updated less than a minute ago

Find subnets by attribute or tag

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input type="checkbox"/>	-	<a href="#">subnet-0e52440a341f9f0dc</a>	Available	<a href="#">vpc-0549d3ac398b8e635</a>
<input type="checkbox"/>	-	<a href="#">subnet-0761224bffed3cb12</a>	Available	<a href="#">vpc-0549d3ac398b8e635</a>
<input type="checkbox"/>	-	<a href="#">subnet-06f4515b503bdd63b</a>	Available	<a href="#">vpc-0549d3ac398b8e635</a>

Select a subnet

5.

**Route tables (1)** Info

Last updated 1 minute ago

Find route tables by attribute or tag

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Ed
<input type="checkbox"/>	-	<a href="#">rtb-04dc3eefebaceb968</a>	-	-

6.

**Network ACLs (1)** Info

Find Network ACLs by attribute or tag

<input type="checkbox"/>	Name	Network ACL ID	Associated with
<input type="checkbox"/>	-	<a href="#">acl-0cf301050bbf3926c</a>	3 Subnets

**Console Home** Info

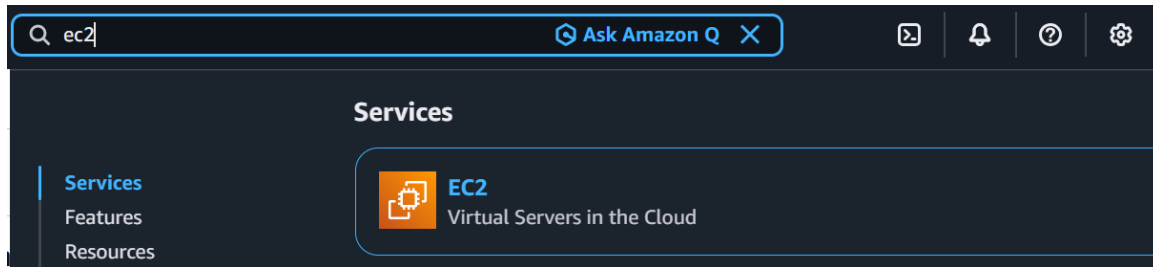
**Recently visited** Info

- VPC
- IAM
- AWS Global View

7.

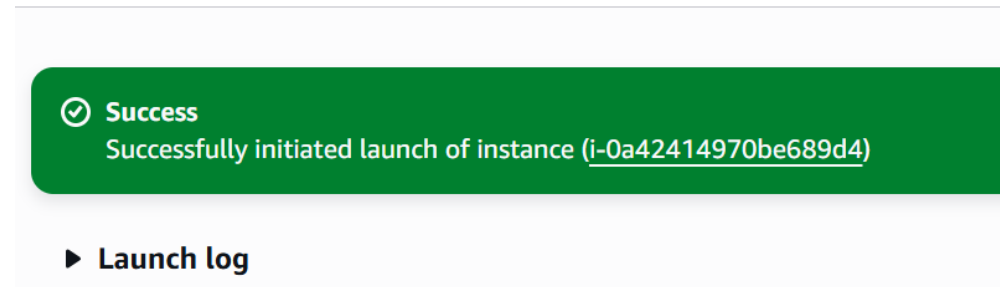
## Task 4:

1.

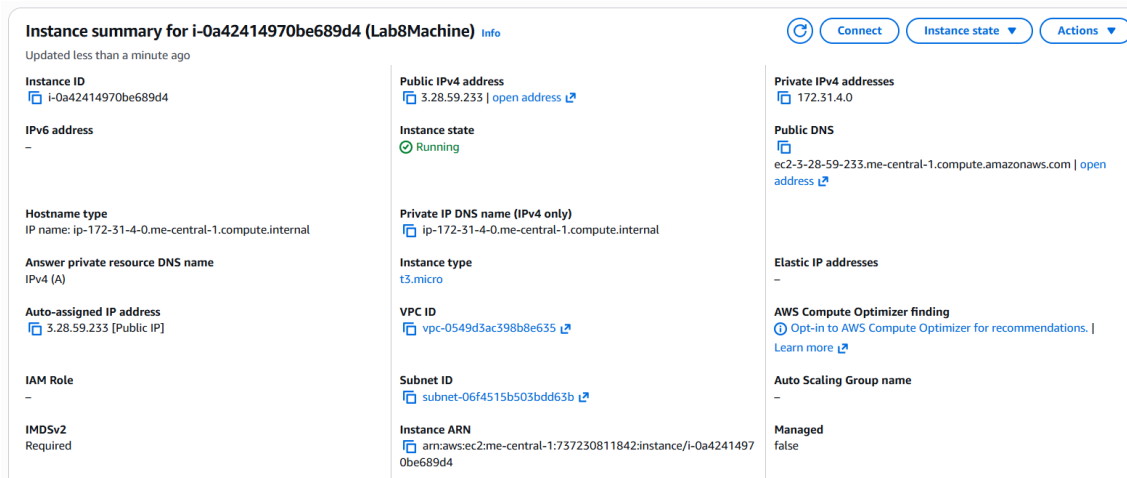


2.

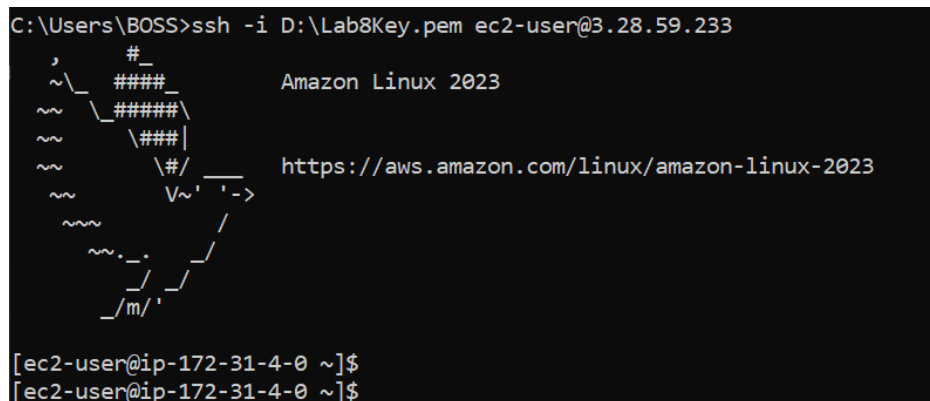
≡ [EC2](#) > [Instances](#) > Launch an instance



3.



4.



5.

```
[ec2-user@ip-172-31-4-0 ~]$ sudo yum update -y
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
Nothing to do.
Complete!
```

```
[ec2-user@ip-172-31-4-0 ~]$ sudo mkdir -p /usr/local/lib/docker/cli-plugins
[ec2-user@ip-172-31-4-0 ~]$ sudo curl -SL https://github.com/docker/compose/releases/latest/download/docker
ose-linux-x86_64 -o /usr/local/lib/docker/cli-plugins/docker-compose
  % Total    % Received % Xferd Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
  0     0    0     0    0     0      0      0      0     0  0:00:00  0:00:00  0:00:00     0
  0     0    0     0    0     0      0      0      0     0  0:00:00  0:00:00  0:00:00     0
100 29.8M 100 29.8M    0     0 163M      0  0:00:01  0:00:01  0:00:00 163M
[ec2-user@ip-172-31-4-0 ~]$
```

```
[ec2-user@ip-172-31-4-0 ~]$ sudo yum install -y docker
Last metadata expiration check: 0:00:16 ago on Mon Dec 22 16:27:46 2025.
Dependencies resolved.
=====
Package                                     Architecture                               Version
=====
Installing:
docker                                     x86_64                                    25.0.13-1.amzn2023.0.2
Installing dependencies:
container-selinux                         noarch                                    4:2.242.0-1.amzn2023
containerd                                x86_64                                    2.1.5-1.amzn2023.0.1
iptables-libs                             x86_64                                    1.8.8-3.amzn2023.0.2
iptables-nft                              x86_64                                    1.8.8-3.amzn2023.0.2
libcgroup                                 x86_64                                    3.0-1.amzn2023.0.1
libnftfilter_comtrack                     x86_64                                    1.0.8-2.amzn2023.0.2
libnftlink                                x86_64                                    1.0.1-19.amzn2023.0.2
libnftnl                                  x86_64                                    1.2.2-2.amzn2023.0.2
pigz                                       x86_64                                    2.5-1.amzn2023.0.3
runc                                       x86_64                                    1.3.3-2.amzn2023.0.1
=====
Transaction Summary
=====
Install 11 Packages

Total download size: 74 M
Installed size: 280 M
```

```
[ec2-user@ip-172-31-4-0 ~]$ sudo chmod -x /usr/local/lib/docker/cli-plugins
[ec2-user@ip-172-31-4-0 ~]$ sudo systemctl start docker
```

**6.**

```

❏ ec2-user@ip-172-31-4-0:~
services:
  gitea:
    image: gitea/gitea:latest
    container_name: gitea
    environment:
      - DB_TYPE=postgres
      - DB_HOST=db:5432
      - DB_NAME=gitea
      - DB_USER=gitea
      - DB_PASSWD=gitea
    restart: always
    volumes:
      - gitea:/data
    port:
      - 3000:3000
    extra_host:
      - "www.jenkins.com:host-gateway"
    networks:
      - webnet
    image: postgres:alpine
    container_name: gitea_db
    environment:
      - POSTGRES_USER=gitea
      - POSTGRES_PASSWORD=gitea
      - POSTGRES_DB=gitea
    restart: always
    volumes:
  expose:
network volumes:
  gitea_postgres:
name: gitea_postgres
gitea:
name: gitea

"compose.yaml" 36L, 2123B

```

**7.**

8.

```
[ec2-user@ip-172-31-4-0 ~]$ docker-compose -f compose.yaml up -d
WARN[0000] /home/ec2-user/compose.yaml: `version` is obsolete
[+] Running 18/18
  db Pulled
  1074353eec0d Pull complete
  51a9324a2bdc Pull complete
  1e827ac0fa1e Pull complete
  0629ac8b8cc5 Pull complete
  2e50a444bddf Pull complete
  4465107e1675 Pull complete
  cc2ee20b6816 Pull complete
  0dfd86289dd1 Pull complete
  98eccc0da868 Pull complete
  b747867e61cb Pull complete
  gitea Pulled
  2d35ebdb57d9 Pull complete
  9f4e672c1f34 Pull complete
  4da94b3cc809 Pull complete
  8e016ece0bd3 Pull complete
  346e493cb6cb Pull complete
  95215379f1d1 Pull complete
[+] Running 5/5
  Network ec2-user_webnet      Created
  Volume "ec2-user_gitea"      Created
  Volume "ec2-user_gitea_postgres" Created
  Container gitea_db           Started
  Container gitea              Started
```

9.

Inbound rules (2)

Manage tags Edit inbound rules

Search

< 1 > ⚙

<input type="checkbox"/>	Name	Security group rule ID	IP version	Type	Protocol
<input type="checkbox"/>	-	sgr-02bc3dd1c9cf9f5a0	IPv4	SSH	TCP
<input type="checkbox"/>	-	sgr-0d682d46809a1a66f	IPv4	Custom TCP	TCP

10.

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 \*

PostgreSQL

Host \*

db:5432

Username \*

gitea

Password \*

.....

Database Name \*

gitea

SSL \*

Disable

Schema

11.

Issues Pull Requests Milestones Explore

mairamalik / first-repo

<> Code Issues Packages Projects Wiki

Quick Guide

Clone this repository Need help cloning? Visit [Help](#).

New File

Upload File

HTTP

SSH

http://3.28.59.233:3000/mairamalik/first-repo.git

Creating a new repository on the command line

```
touch README.md
git init
```

Cleanup :

Successfully initiated termination (deletion) of i-0a42414970be689d4

Instance summary for i-0a42414970be689d4 (Lab8Machine) [Info](#)

[Connect](#) [Instance state ▼](#) [Actions ▼](#)

Successfully deleted 1 key pair

Key pairs [Info](#)

Find Key Pair by attribute or tag

☐

Name ▼

Type ▼

Created ▼

Fingerprint

No key pairs to display

Security group (sg-0946d9d241166fe35 | Lab8SecurityGroup) successfully deleted

Security Groups (2) [Info](#)

[Actions ▼](#) [Export secu](#)

Find security groups by attribute or tag

☐

Name ▼

Security group ID ▼

Security group n