

**Name : Zuha Irfan**

**Roll No : 2023-BSE-073**

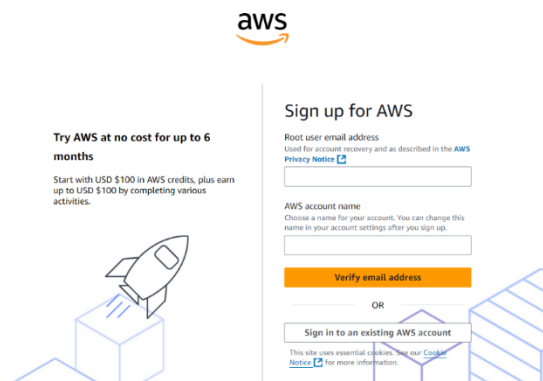
**Subject: Cloud Computing**

**Semester & Section : V-B**

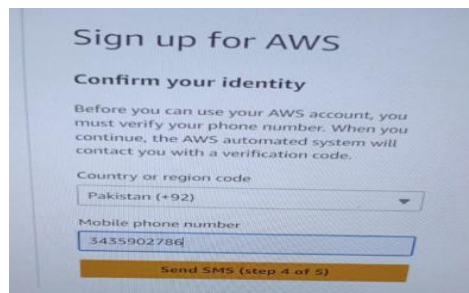
**Lab : 08**

### **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

**AWS Regions** [info](#) Disable Enable ⌵

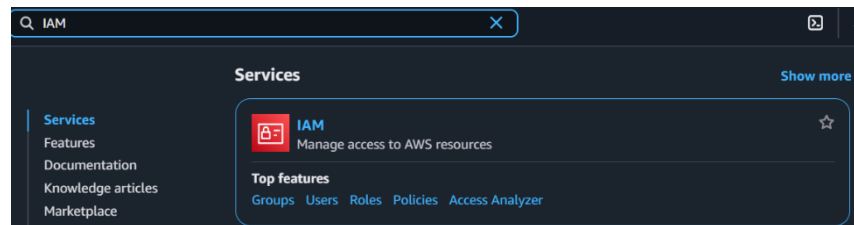
Region	Status
<input type="checkbox"/> Africa (Cape Town)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Hong Kong)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Tokyo)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Sydney)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Jakarta)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Melbourne)	⛔ Disabled
<input type="checkbox"/> Asia Pacific (Singapore)	⛔ 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

- task1\_summary.png

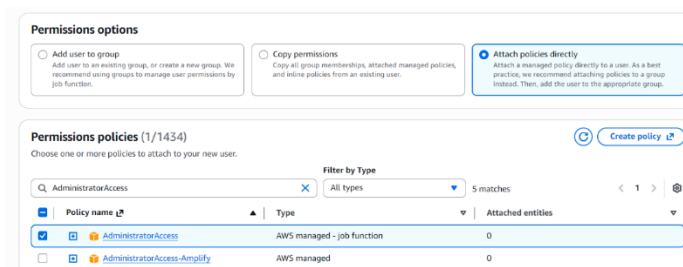
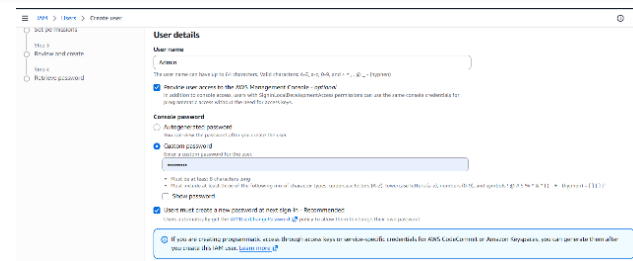
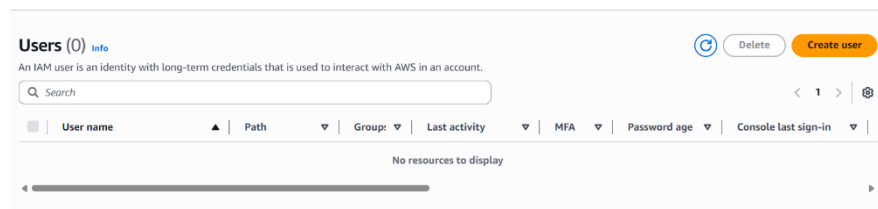


## Task 2 — Create IAM Admin and Lab8User with console access

- task2\_open\_iam\_console.png



- task2\_admin\_create\_confirmation.png



**Retrieve password**  
You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password.

**Console sign-in details** [Email sign-in instructions](#)


Console sign-in URL  
<https://051942114323.signin.aws.amazon.com/console>

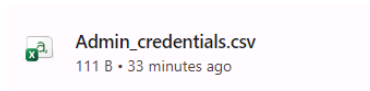
User name  
Admin

Console password  
Show

[Cancel](#) [Download .csv file](#) [Return to users list](#)

- task2\_admin\_csv\_and\_signin\_url.png

Name	Date modified	Type	Size
Today			
 Admin_credentials.csv	12/9/2025 6:20 PM	Microsoft Excel Com...	1 KB



**User details**

User name  
Admin

Console password type  
Custom password

Require password meet  
Yes

**Permissions summary**

Name	Type	Used as
<a href="#">AdminReadOnlyAccess</a>	AWS managed - job function	Permissions policy
<a href="#">IAMUserChangePassword</a>	AWS managed	Permissions policy

**Tags** optional  
Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.  
No tags associated with this resource.  
[Add new tag](#)  
You can add up to 50 custom tags.

[Cancel](#) [Previous](#) [Create user](#)

- task2\_admin\_console\_after\_login.png

**IAM user sign in**

Account ID or alias (Don't have?)  
051942114323

☐ Remember this account

IAM username  
Admin


Password  
\*\*\*\*\*

☐ Show Password [Having trouble?](#)

[Sign in](#)

**Amazon Lightsail**  
Lightsail is the easiest way to get started on AWS  
[Learn more »](#)

**aws**

 Password reset successful

**Password reset**

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

[Continue to sign in](#)

**Users (1)** [Add](#)

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

Search

<input type="checkbox"/>	User name	Path	Groups	Last activity	MFA	Password age	Console last sign-in
<input type="checkbox"/>	Admin	/	0	17 minutes ago	-	7 minutes	17 minutes ago

- task2\_create\_lab8user\_and\_csv.png

**User details**

User name

Lab8User

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and +, =, @, \_ (hyphen)

☒ Provide user access to the AWS Management Console - optional

In addition to console access, users with `SignedUpDeveloperAccess` permissions can use the same console credentials for programmatic access without the need for access keys.

Console password

☐ Autogenerated password

You can view the password after you create the user.

☒ Custom password

Enter a custom password for the user.

password

☐ Show password

☒ Users must create a new password at next sign-in - Recommended

Users automatically get the `IAMUserChangePassword` policy to allow them to change their own password.

☒ If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. [Learn more](#)

[Cancel](#) [Next](#)

### Set permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

#### Permissions options

☐ Add user to group

Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

☐ Copy permissions

Copy all group memberships, attached managed policies, and inline policies from an existing user.

☒ Attach policies directly

Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

#### Permissions policies (1/1434)

Choose one or more policies to attach to your new user.

Search

Filter by Type: All types

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	<a href="#">AccessAnalyzerServiceRolePolicy</a>	AWS managed	0
<input checked="" type="checkbox"/>	<a href="#">AdministratorAccess</a>	AWS managed - job function	1
<input type="checkbox"/>	<a href="#">AdministratorAccess-Ampify</a>	AWS managed	0

### Review and create

Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

**User details**

User name	Console password type	Require password reset
Lab8User	Custom password	Yes

**Permissions summary**

Name	Type	Used as
<a href="#">AdministratorAccess</a>	AWS managed - job function	Permissions policy
<a href="#">IAMUserChangePassword</a>	AWS managed	Permissions policy

### Retrieve password

You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password.

#### Console sign-in details

Console sign-in URL

<https://d51942114523.signin.aws.amazon.com/console>

User name

Lab8User

Console password

[Show](#)

[Email sign-in instructions](#)

[Cancel](#)

[Download .csv file](#)

[Return to users list](#)

- task2\_lab8user\_csv\_saved.png



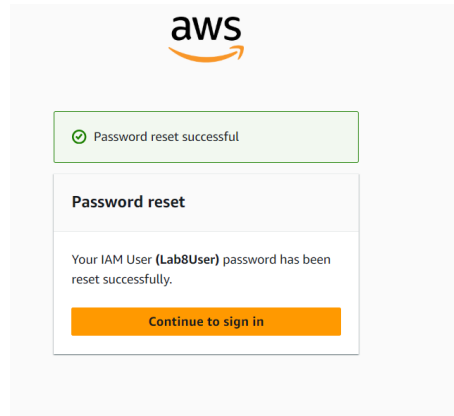
Lab8User\_credentials.csv

114 B • 2 minutes ago

Today

Lab8User_credentials.csv	12/9/2025 6:52 PM	Microsoft Excel Com...	1 KB
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- task2\_lab8user\_logged\_in.png



- task2\_summary.png

**Users (2)** [Info](#)

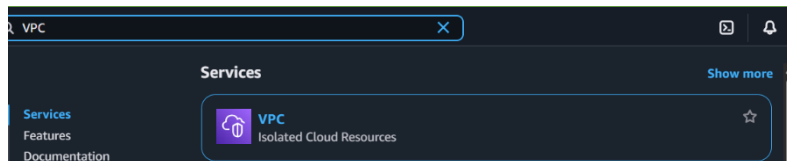
An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

[Delete](#) [Create user](#)

<input type="checkbox"/>	User name	Path	Group	Last activity	MFA	Password age	Console last sign-in
<input type="checkbox"/>	<a href="#">Admin</a>	/	0	38 minutes ago	-	28 minutes	38 minutes ago
<input type="checkbox"/>	<a href="#">Lab8User</a>	/	0	8 minutes ago	-	7 minutes	8 minutes ago

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

- task3\_open\_vpc\_console.png



- task3\_vpcs\_list.png

**Subnets (3)** [Info](#)

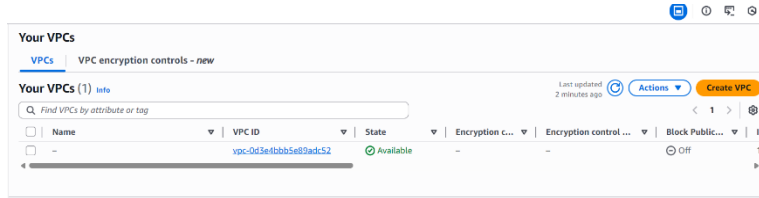
Last updated 2 minutes ago

[Find subnets by attribute or tag](#)

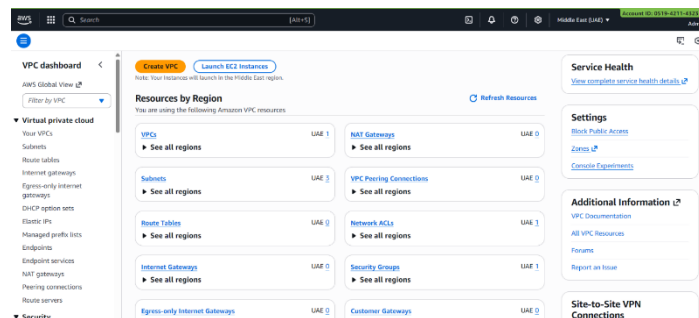
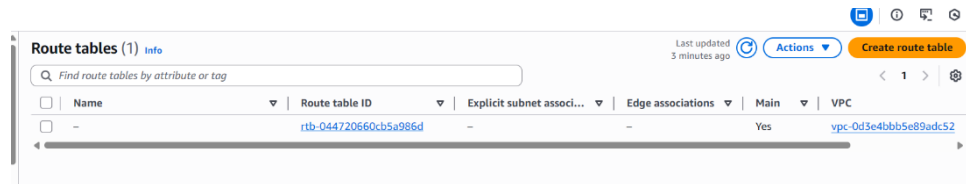
[Actions](#) [Create subnet](#)

<input type="checkbox"/>	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
<input type="checkbox"/>	-	<a href="#">subnet-06bd2cc7001fc0311</a>	Available	<a href="#">vpc-0d3e4bbb5e89adc52</a>	Off	172.31.0.0/24
<input type="checkbox"/>	-	<a href="#">subnet-0d8e9eb3ac9aebf92</a>	Available	<a href="#">vpc-0d3e4bbb5e89adc52</a>	Off	172.31.16.0/24
<input type="checkbox"/>	-	<a href="#">subnet-00bf67309a526e531</a>	Available	<a href="#">vpc-0d3e4bbb5e89adc52</a>	Off	172.31.32.0/24

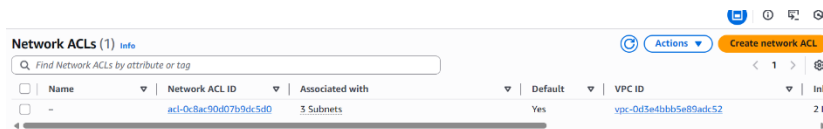
- task3\_subnets\_list.png



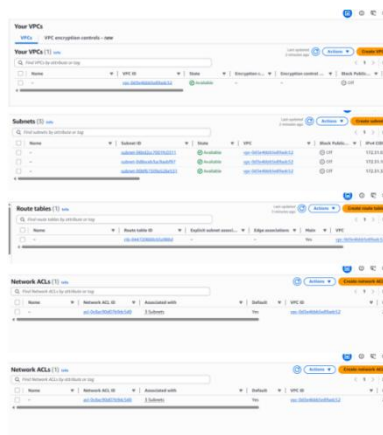
- task3\_route\_tables\_list.png



- task3\_network\_acls\_list.png

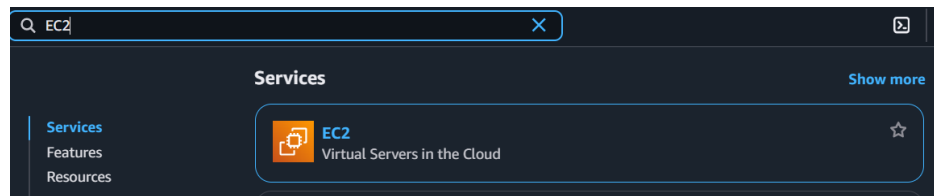


- task3\_summary.png

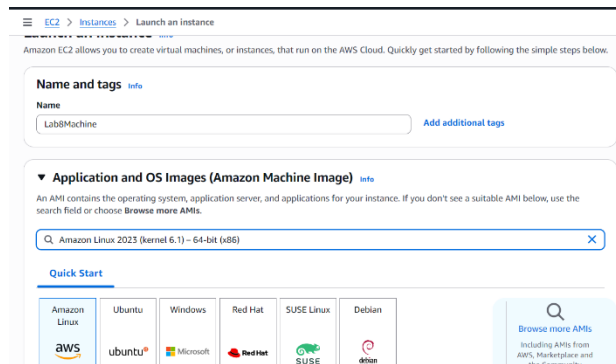
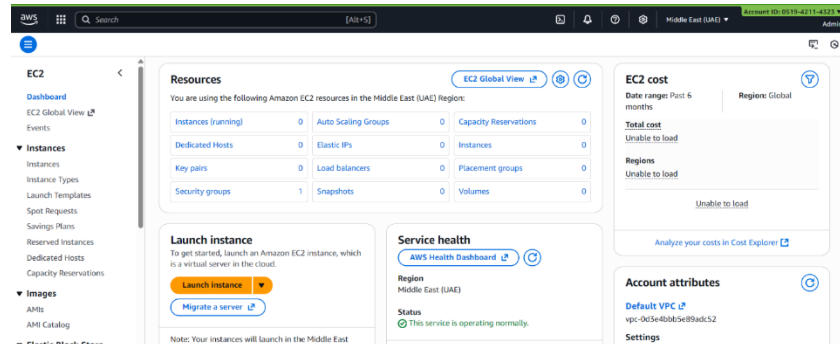


## Task 4 — Launch EC2, SSH, install Docker & Docker Compose, deploy Gitea

- task4\_open\_ec2\_console.png



- task4\_launch\_instance\_config.png



## Create key pair

### Key pair name

Key pairs allow you to connect to your instance securely.

Lab8Key

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

### Key pair type

☒ RSA

RSA encrypted private and public key pair

☐ ED25519

ED25519 encrypted private and public key pair

### Private key file format

☒ .pem

For use with OpenSSH

☐ .ppk

For use with PuTTY



When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Cancel

Create key pair

Architecture: 64-bit (x86) | Boot mode: uefi-preferred | AMI ID: ami-05524d6658fcf35b6 | Publish Date: 2025-12-03 | Username: ec2-user | Verified provider

▼ Instance type [Info](#) | [Get advice](#)

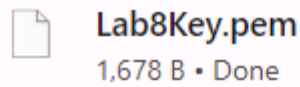
Instance type: t3.micro  
 Family: t3 | 2 vCPU | 1 GiB Memory | Current generation: true  
 On-Demand Ubuntu Pro base pricing: 0.016 USD per Hour  
 On-Demand Linux base pricing: 0.0125 USD per Hour | On-Demand RHEL base pricing: 0.0413 USD per Hour  
 On-Demand SUSE base pricing: 0.0125 USD per Hour  
 On-Demand Windows base pricing: 0.0217 USD per Hour

☐ All generations

[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

- task4\_keypair\_download.png



- task4\_instance\_running\_console.png

Instances (1) [Info](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

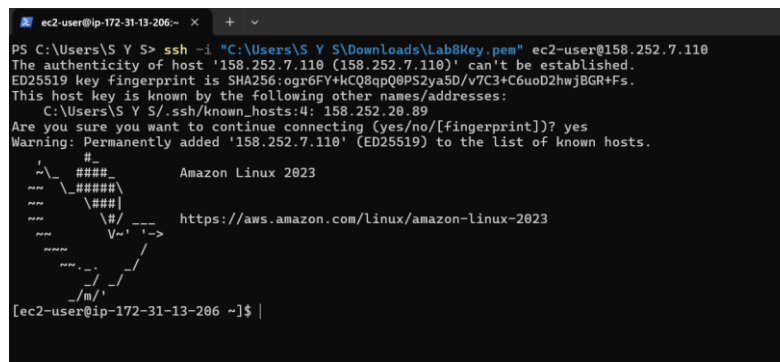
Find Instance by attribute or tag (case-sensitive) [All states](#) [1](#)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public
<input type="checkbox"/>	Lab8Machine	i-074c60b7cd74cf542	Running	t3.micro	3/3 checks passed	<a href="#">View alarms</a>	me-central-1c	ec2-15l

- task4\_ssh\_from\_windows\_to\_ec2.png



- task4\_ec2\_install\_docker\_compose\_started.png



```

[ec2-user@ip-172-31-13-206 ~]$ sudo mkdir -p /usr/local/lib/docker/cli-plugins
[ec2-user@ip-172-31-13-206 ~]$ sudo curl -SL https://github.com/docker/compose/releases/latest/download/docker-compose-linux-x86_64 -o /usr/local/lib/docker/cli-plugins/docker-compose
% Total % Received % Xferd Average Speed Time Time Current
Dload Upload Total Spent Left Speed
0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0
100 29.8M 100 29.8M 0 0 46.8M 0 0 0 0 0
[ec2-user@ip-172-31-13-206 ~]$ sudo chmod +x /usr/local/lib/docker/cli-plugins/docker-compose
[ec2-user@ip-172-31-13-206 ~]$ sudo systemctl start docker
[ec2-user@ip-172-31-13-206 ~]$ docker --version
Docker version 25.0.13, build 0bab007
[ec2-user@ip-172-31-13-206 ~]$ docker compose version
Docker Compose version v2.26.0
[ec2-user@ip-172-31-13-206 ~]$ sudo vim compose.yaml
[ec2-user@ip-172-31-13-206 ~]$ docker compose up -d
empty compose file

```



- task4\_vim\_compose\_yaml\_paste.png

```
[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

- task4 usermod and groups before after.png

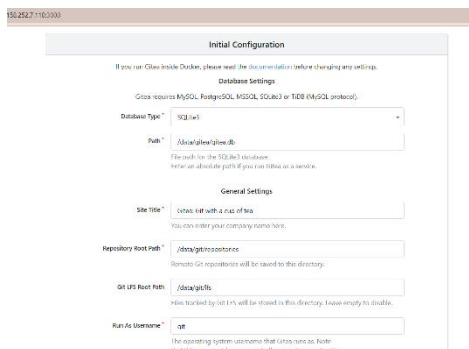
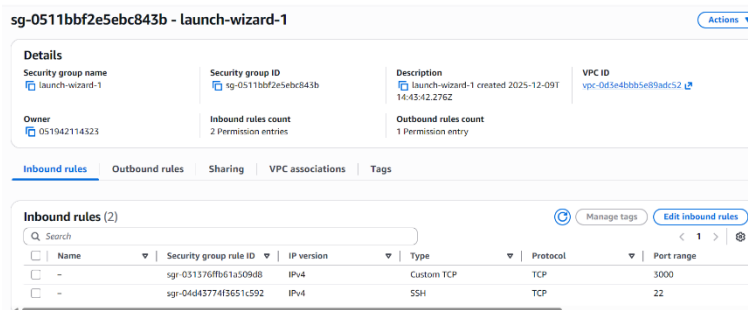
```
ec2-user@ip-172-31-13-206:~$ journalctl --user --since "2023-07-26 12:00:00"
[ec2-user@ip-172-31-13-206 ~]$ exit
logout
Connection to 158.252.7.110 closed.
```

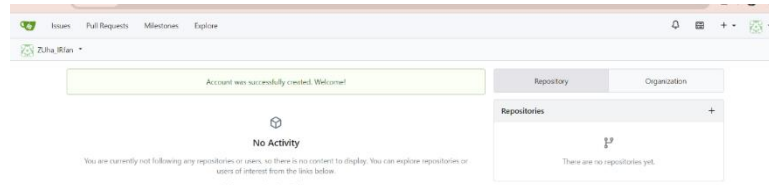
```
PS C:\Users\S Y S> ssh -i "C:\Users\S Y S\Downloads\Lab8Key.pem" ec2-user@158.252.7.110
```

```
   _#_
  ~~~~ ##### Amazon Linux 2023
 ~~~~~ \#####\
 ~~~~~  \####|\
 ~~~~~   \|##|
 ~~~~~    #/\
 ~~~~~     V~! ---> https://aws.amazon.com/linux/amazon-linux-2023
 ~~~~~
 ~~~~~ ._-/_
 ~~~~~ /_/_/_/
 ~~~~~ /m/'
```

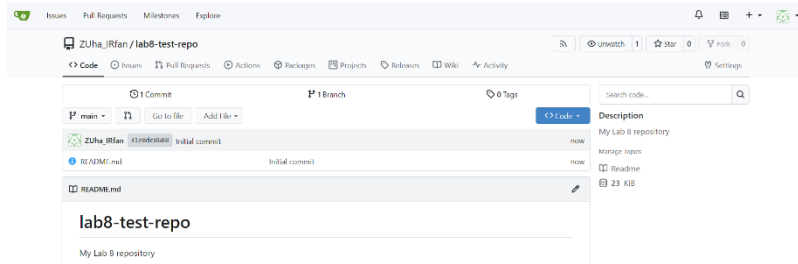
Last login: Tue Dec 9 18:08:45 2025 from 116.71.162.191  
[ec2-user@ip-172-31-13-206 ~]\$ groups  
ec2-user adm wheel systemd-journal docker

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

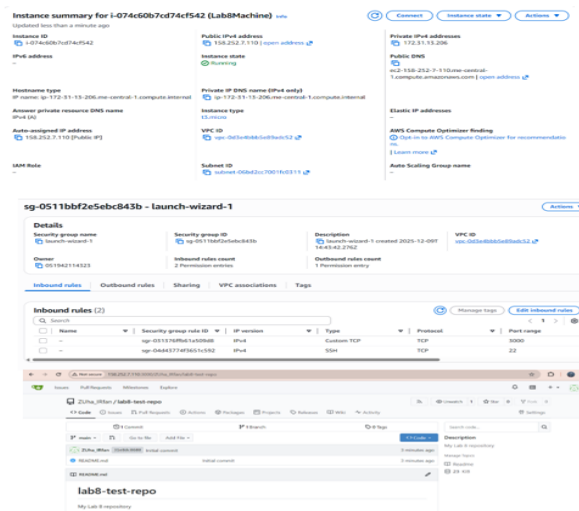




- task4\_gitea\_create\_repo.png

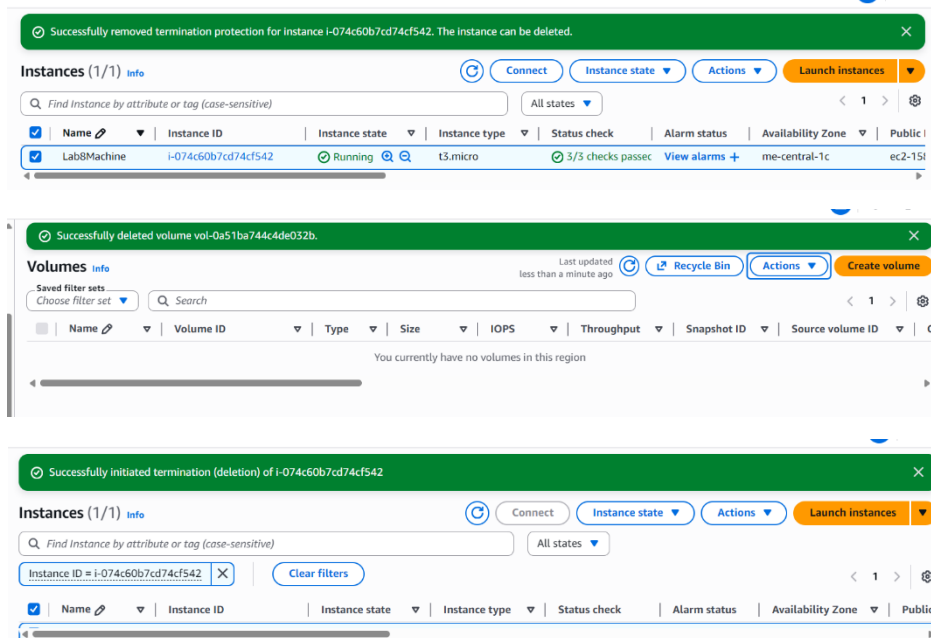


- task4\_summary.png

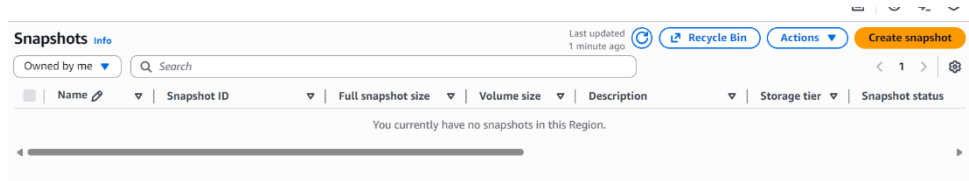


## Cleanup — Remove resources to avoid charges

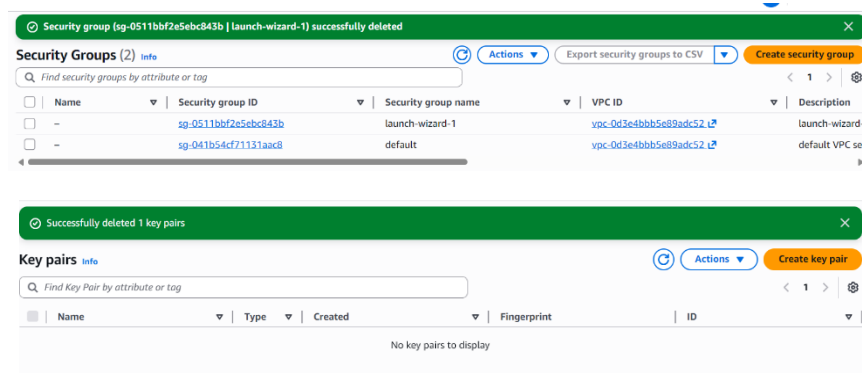
- cleanup\_terminate\_instance.png



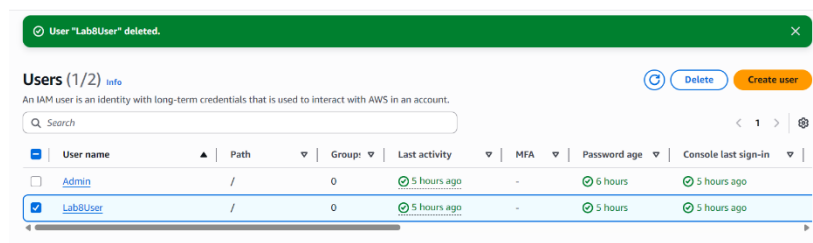
- cleanup\_delete\_volumes\_snapshots.png



- cleanup\_delete\_security\_group\_and\_keypair.png



- cleanup\_iam\_users\_deleted.png



- cleanup\_summary.png

Resource search results (9)

Export 9 resources to CSV

Manage tags of selected resources

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

Filter resources

< 1 > ⚙

<input type="checkbox"/>	Identifier ↗	Tag: Name	Service	Type	Region	Tags
<input type="checkbox"/>	<a href="#">dopt-00bd5a27d71...</a>	(not tagged)	EC2	DHCOptions	me-central-1	-
<input type="checkbox"/>	<a href="#">igw-034b6746c0a4...</a>	(not tagged)	EC2	InternetGateway	me-central-1	-
<input type="checkbox"/>	<a href="#">acl-0c8ac90d07b9d...</a>	(not tagged)	EC2	NetworkAcl	me-central-1	-
<input type="checkbox"/>	<a href="#">rtb-044720660cb5...</a>	(not tagged)	EC2	RouteTable	me-central-1	-
<input type="checkbox"/>	<a href="#">sg-041b54cf71131...</a>	(not tagged)	EC2	SecurityGroup	me-central-1	-
<input type="checkbox"/>	<a href="#">subnet-06bd2cc70...</a>	(not tagged)	EC2	Subnet	me-central-1	-
<input type="checkbox"/>	<a href="#">subnet-0d8ebeb3ac...</a>	(not tagged)	EC2	Subnet	me-central-1	-
<input type="checkbox"/>	<a href="#">subnet-00bf67309...</a>	(not tagged)	EC2	Subnet	me-central-1	-
<input type="checkbox"/>	<a href="#">vpc-0d5e4bbb5e89...</a>	(not tagged)	EC2	VPC	me-central-1	-

