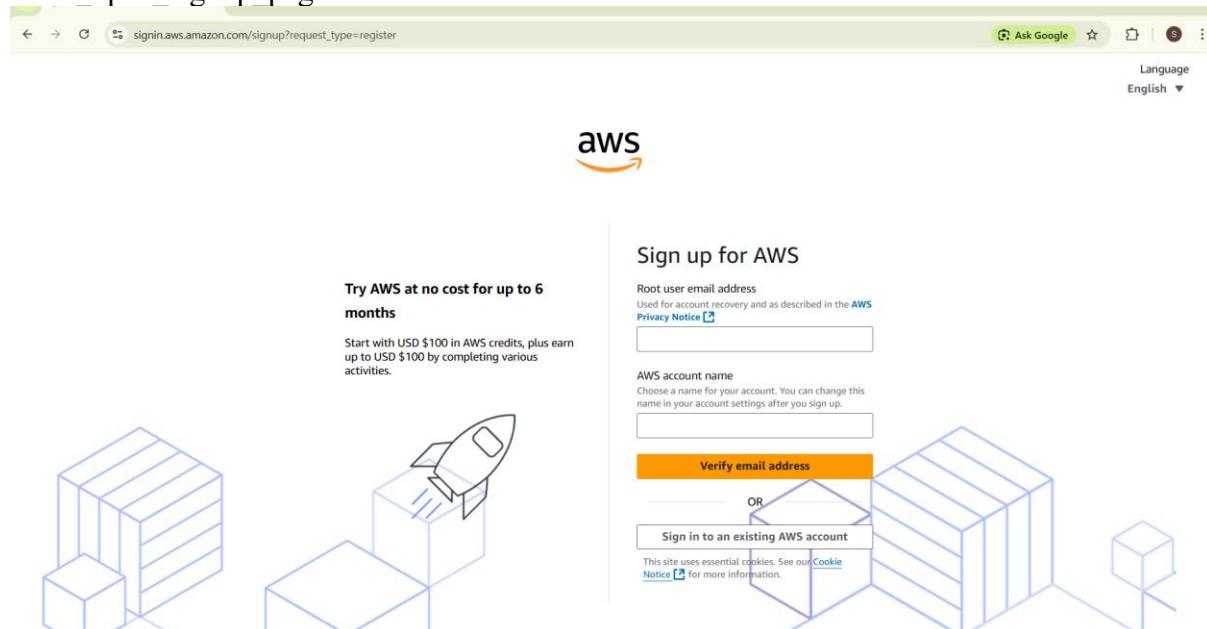

LAB 08

**NAME: SHUMAIL ZAHRA
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

Screenshot of the AWS Console Home page. The top navigation bar shows 'Account ID: 0750-0664-7027' and 'Shumail Zahra'. The main area has a 'Recently visited' section with a placeholder image and a note 'No recently visited services'. Below it, there's a link to 'View all services' and a row of commonly visited services: EC2, S3, Aurora and RDS, and Lambda. To the right, the 'Applications' section shows '0' applications under the region 'Europe (Stockholm)'. It includes a 'Create application' button and a search bar. Below this, there's a note 'No applications' and a link to 'Create application'. The bottom of the page features sections for 'Welcome to AWS', 'AWS Health', and 'Cost and usage', along with links for 'Getting started with' and 'Open issues'. The footer contains links for CloudShell, Feedback, and Console Mobile App, along with standard copyright and legal information.

task1_enable_region_me-central-1

Screenshot of the AWS Billing and Cost Management console showing the 'Account' section. The left sidebar lists various management options like Billing View, Home, Getting Started, Dashboards, Billing and Payments, Cost and Usage Analysis, and Data Exports. In the center, there are three contact sections: Billing contact (None), Operations contact (None), and Security contact (None). A modal window titled 'Enable Middle East (UAE) Region' is open, displaying a list of AWS Regions with their current status. The 'Middle East (UAE)' region is listed as 'Enabled'. Other regions like Asia Pacific (Tokyo) and Asia Pacific (Singapore) are marked as 'Enabled by default'. The modal includes 'Cancel' and 'Enable Region' buttons. The URL in the browser address bar is 'us-east-1.console.aws.amazon.com/billing/home?region=eu-north-1#account?AWS-Regions'.

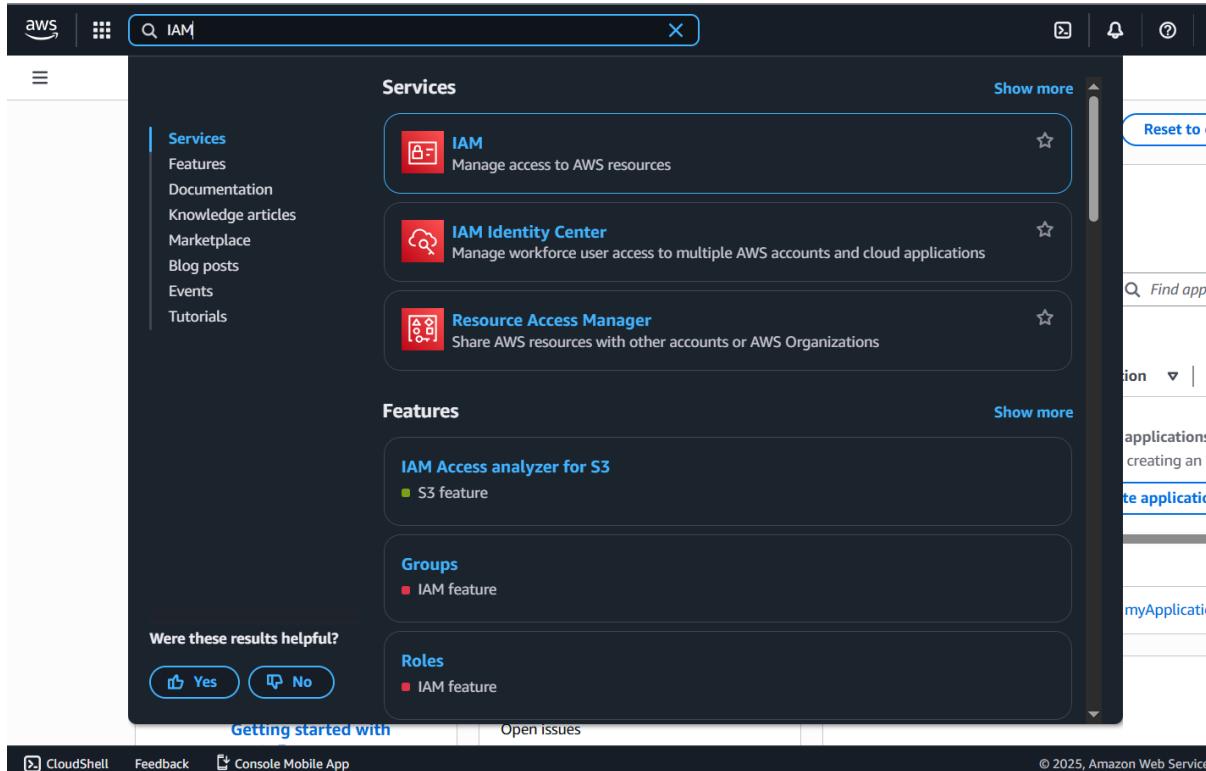
Screenshot of the AWS Billing and Cost Management console showing the 'Account' section. The left sidebar lists various management options like Billing View, Home, Getting Started, Dashboards, Billing and Payments, Cost and Usage Analysis, and Data Exports. In the center, there is a list of AWS Regions with their current status. The 'Middle East (UAE)' region is explicitly marked as 'Enabled'. Other regions like Asia Pacific (Tokyo) and Asia Pacific (Singapore) are marked as 'Enabled by default'. The URL in the browser address bar is 'us-east-1.console.aws.amazon.com/billing/home?region=eu-north-1#account?AWS-Regions'.

task1_summary

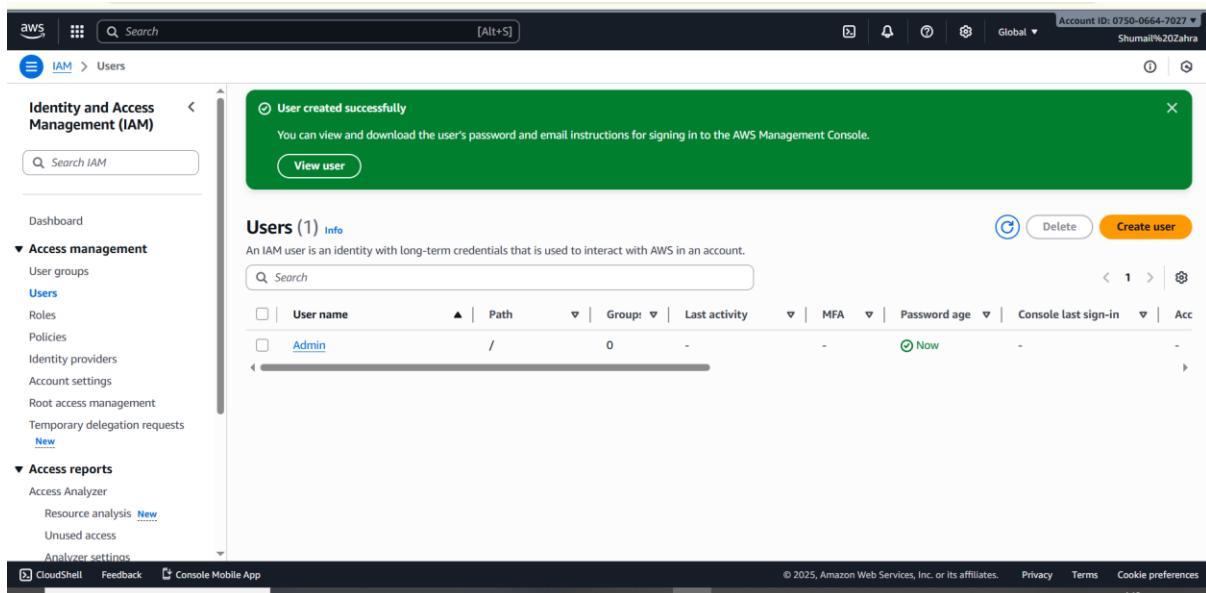


Task 2 — Create IAM Admin and Lab8User with console access

task2_open_iam_console



task2 admin create confirmation



task2 admin csv and signin url

| Admin_credentials | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|----------|---------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| File Home Insert Draw Page Layout Formulas Data Review View Automate Help | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments Share | | | | | | | | | | | | | | | | | | | | | | | | |
| POSSIBLE DATA LOSS Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format. | | | | | | | | | | | | | | | | | | | | | | | | |
| B2 | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | |
| 1 | User name | Password | Console sign-in URL | | | | | | | | | | | | | | | | | | | | | |
| 2 | Admin | | | https://075006647027.signin.aws.amazon.com/console | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |

task2_admin_console_after_login

aws Search [Alt+S] Account ID: 0750-0664-7027 Admin

Console Home Info

Recently visited Info Applications (0) Info Create application

task2_create_lab8user_and_csv

aws Search [Alt+S] Account ID: 0750-0664-7027 Admin

IAM > Users > Create user

Set permissions Step 3 Review and create Step 4 Retrieve password

User details

User name: Lab8User Console password type: Autogenerated Require password reset: Yes

Permissions summary

| Name | Type | Used as |
|-----------------------|----------------------------|--------------------|
| AdministratorAccess | AWS managed - job function | Permissions policy |
| IAMUserChangePassword | 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 the resource.

Add new tag You can add up to 50 more tags.

Create user

aws Search [Alt+S] Account ID: 0750-0664-7027 Admin

IAM > Users > Create user

User created successfully

You can view and download the user's password and email instructions for signing in to the AWS Management Console.

View user

Step 1 Specify user details Step 2 Set permissions Step 3 Review and create Step 4 Retrieve password

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://075006647027.signin.aws.amazon.com/console Email sign-in instructions

User name: Lab8User

Console password: Lab8User

Download .csv file Return to users list

task2_lab8user_csv_saved

A screenshot of Microsoft Excel showing a single row of data in a spreadsheet. The first two columns contain the text "User name" and "Password". The third column contains a URL: "Console sign-in URL" and "https://075006647027.signin.aws.amazon.com/console". A yellow warning bar at the top of the screen says "POSSIBLE DATA LOSS Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format." It also includes buttons for "Don't show again" and "Save As...". The ribbon menu is visible at the top, showing tabs like File, Home, Insert, Page Layout, Formulas, Data, Review, Automate, and Help.

task2_lab8user_logged_in

The screenshot shows the AWS Console Home page. At the top, there's a dark header with the AWS logo, a search bar containing "Search" and "[Alt+S]", and account information for "Middle East (UAE)" and "LabUser". Below the header, the main content area has a "Console Home" section with a "Recently visited" link and a "Reset to default layout" button. To the right, there's a "Applications (0)" section with a "Create application" button. The bottom of the screen features a "Select Region" dropdown menu.

task2_summary

The screenshot shows the AWS IAM Users page. The left sidebar navigation includes 'Identity and Access Management (IAM)', 'Dashboard', 'Access management' (with 'Users' selected), 'Roles', 'Policies', 'Identity providers', 'Account settings', 'Root access management', 'Temporary delegation requests', and 'Access reports'. The main content area displays 'Users (2) Info' with a search bar. A table lists two users: 'Admin' and 'Lab8User', both created 28 minutes ago. The right side of the screen shows a list of AWS Regions with their respective endpoints and last sign-in times.

| User | Last activity |
|----------|----------------|
| Admin | 28 minutes ago |
| Lab8User | 12 minutes ago |

| Region | Endpoint | Last sign-in |
|----------------------|----------------|--------------|
| Seoul | ap-northeast-2 | minutes ago |
| Singapore | ap-southeast-1 | minutes ago |
| Sydney | ap-southeast-2 | minutes ago |
| Tokyo | ap-northeast-1 | minutes ago |
| Canada | | |
| Central | ca-central-1 | minutes ago |
| Europe | | |
| Frankfurt | eu-central-1 | minutes ago |
| Ireland | eu-west-1 | minutes ago |
| London | eu-west-2 | minutes ago |
| Paris | eu-west-3 | minutes ago |
| Stockholm | eu-north-1 | minutes ago |
| Middle East | | |
| UAE | me-central-1 | minutes ago |
| South America | | |
| São Paulo | sa-east-1 | minutes ago |

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

task3 open vpc console

The screenshot shows the AWS VPC dashboard. At the top, there are buttons for 'Create VPC' and 'Launch EC2 Instances'. Below this, a section titled 'Resources by Region' displays various Amazon VPC resources across the Middle East (UAE) region. The resources include:

- VPCs: UAE 1 (See all regions)
- NAT Gateways: UAE 0 (See all regions)
- Subnets: UAE 3 (See all regions)
- VPC Peering Connections: UAE 0 (See all regions)
- Route Tables: UAE 1 (See all regions)
- Network ACLs: UAE 1 (See all regions)
- Internet Gateways: UAE 1 (See all regions)
- Security Groups: UAE 1 (See all regions)
- Egress-only Internet Gateways: UAE 0 (See all regions)
- Customer Gateways: UAE 0 (See all regions)

On the right side, there are sections for 'Service Health', 'Settings' (with options like 'Block Public Access' and 'Zones'), 'Additional Information' (with links to documentation and forums), and 'Site-to-Site VPN Connections'.

task3_vpcs_list

The screenshot shows the AWS VPC dashboard under the 'Your VPCs' section. A blue banner at the top introduces VPC encryption control. The main table lists one VPC entry:

| Name | VPC ID | State | Encryption c... | Encryption control ... | Block Public... | IPv... |
|------|-----------------------|-----------|-----------------|------------------------|-----------------|--------|
| - | vpc-0f993bf131956a286 | Available | - | - | Off | 172 |

Below the table, there is a message 'Select a VPC above'.

task3_subnets_list

The screenshot shows the AWS VPC dashboard under the 'Subnets' section. A blue banner at the top introduces VPC encryption control. The main table lists three subnets:

| Name | Subnet ID | State | VPC | Block Public... | IPv4 CIDR |
|------|--------------------------|-----------|-----------------------|-----------------|---------------|
| - | subnet-0d8f9ffcb79043cbc | Available | vpc-0f993bf131956a286 | Off | 172.31.0.0/20 |
| - | subnet-0375aad5c579a82c4 | Available | vpc-0f993bf131956a286 | Off | 172.31.16.0/2 |
| - | subnet-05bc73f40fefb9fe1 | Available | vpc-0f993bf131956a286 | Off | 172.31.32.0/2 |

Below the table, there is a message 'Select a subnet'.

task3_route_tables_list

The screenshot shows the AWS VPC Route Tables page. On the left, there's a navigation sidebar with sections like Transit gateway multicast, Traffic Mirroring, VPC Lattice, and Network Manager. The main content area has a blue header bar with the text "Introducing VPC encryption control" and a "Create encryption control" button. Below this, a table lists "Route tables (1) Info". The table has columns for Name, Route table ID, Explicit subnet associ..., Edge associations, Main, and VPC. One row is shown: rtb-065bc44c6194e9003. The table includes "Actions" and "Create route table" buttons. At the bottom, there's a "Select a route table" section.

task3_network_acls_list

The screenshot shows the AWS Network ACLs page. The left sidebar includes sections for Transit gateway multicast, Traffic Mirroring, VPC Lattice, and Network Manager. The main area features a blue header bar with "Introducing VPC encryption control" and a "Create encryption control" button. Below it, a table titled "Network ACLs (1) Info" lists one entry: acl-02f6aaffbe7914acf, which is associated with 3 Subnets and is set as the Default. It is also linked to VPC ID vpc-0f993bf131956a286. The table includes "Actions" and "Create network ACL" buttons. A "Select a network ACL" section is at the bottom.

task3_summary

The screenshot displays the AWS VPC Dashboard. The left sidebar lists categories such as Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections, Route servers, Network ACLs), and a "Service Health" section. The main dashboard area is titled "Resources by Region" and shows counts for UAE: VPCs (1), NAT Gateways (0), Subnets (3), VPC Peering Connections (0), Route Tables (1), Network ACLs (1), Internet Gateways (1), Security Groups (0), Egress-only Internet Gateways (0), and Customer Gateways (0). There are also "Create VPC" and "Launch EC2 Instances" buttons. To the right, there are sections for "Service Health", "Settings" (with links to Block Public Access, Zones, and Console Experiments), "Additional Information" (with links to VPC Documentation, All VPC Resources, Forums, and Report an Issue), and "Site-to-Site VPN Connections".

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

task4_open_ec2_console

aws | Search [Alt+S] | Middle East (UAE) | Account ID: 0750-0664-7027 | Shumail Zahra

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

Resources
You are using the following Amazon EC2 resources in the Middle East (UAE) Region:

| | | | | | |
|---------------------|---|---------------------|---|-----------------------|---|
| Instances (running) | 0 | Auto Scaling Groups | 0 | Capacity Reservations | 0 |
| Dedicated Hosts | 0 | Elastic IPs | 0 | Instances | 0 |
| Key pairs | 0 | Load balancers | 0 | Placement groups | 0 |
| Security groups | 1 | Snapshots | 0 | Volumes | 0 |

Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.
Launch instance | **Migrate a server**

Note: Your instances will launch in the Middle East (UAE) Region.

Service health
[AWS Health Dashboard](#)

Region
Middle East (UAE)

Status
This service is operating normally.

Zones
Zone name | Zone ID

EC2 cost
Date range: Past 6 months
Region: Global

Total cost
Unable to load

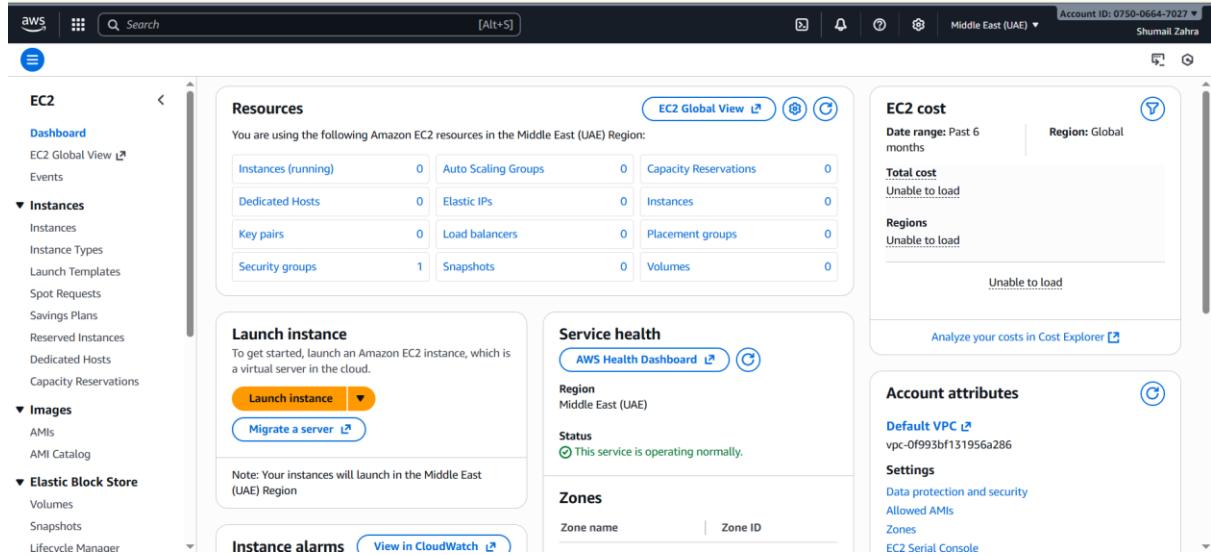
Regions
Unable to load

Analyze your costs in Cost Explorer

Account attributes

Default VPC
vpc-0f993bf131956a286

Settings
Data protection and security
Allowed AMIs
Zones
EC2 Serial Console



task4_launch_instance_config

Create a key pair or proceed without a key pair

X

i We noticed that you didn't select a key pair. If you want to be able to connect to your instance it is recommended that you create one or select an existing one.

Create new key pair

Proceed without key pair

Key pair name

Key pairs allow you to connect to your instance securely.

Enter key pair name

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](#)

[Cancel](#)

[Launch instance](#)

task4_keypair_download

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

Additional costs apply for AMIs with pre-installed software

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Lab8Key

Network settings

Virtual server type (instance type): t3.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.9.2...[read more](#)

ami-0566df2bafc7deaf

Actions

Cancel

Launch instance

Preview code

task4_instance_running_console

| Attribute | Value |
|-------------------|--------------------|
| Name | Lab8Machine |
| Instance ID | i-00a79360f76e204f |
| Instance state | Running |
| Instance type | t3.micro |
| Status check | Initializing |
| Alarm status | View alarms + |
| Availability Zone | me-central-1c |
| Public IPv4 | ec2-3-29-1C |

| Attribute | Value |
|---------------------|--------------------------|
| Availability Zone | eu-central-1c |
| Public IPv4 DNS | ec2-3-29-100-217.me-c... |
| Public IPv4 IP | 3.29.100.217 |
| Elastic IP | - |
| IPv6 IPs | - |
| Monitoring | disabled |
| Security group name | launch-wizard-1 |
| Key name | Lab8Key |

| Attribute | Value |
|---------------------|------------------------|
| Monitoring | disabled |
| Security group name | launch-wizard-1 |
| Key name | Lab8Key |
| Launch time | 2025/11/28 23:16 GMT+5 |
| Platform | Linux/UNIX |
| Managed | false |
| Operator | - |

task4_ssh_from_windows_to_ec2

```

PS C:\Users\Syed> ssh -i C:\Users\Syed\Downloads/Lab8Key.pem ec2-user@3.29.100.217
The authenticity of host '3.29.100.217 (3.29.100.217)' can't be established.
ED25519 key fingerprint is SHA256:Z5r3Nom6z38LGF0J7p6ouvI9Fz811NVhk7kV76NMpTw.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.29.100.217' (ED25519) to the list of known hosts.

```

task4_ec2_install_docker_compose_started

```

[ec2-user@ip-172-31-0-185:~]
Installing : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64 6/11
Installing : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64 7/11
Installing : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 8/11
Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 8/11
Installing : libcgroup-3.0-1.amzn2023.0.1.x86_64 9/11
Running scriptlet: container-selinux-4.2.242.0-1.amzn2023.noarch 10/11
Installing : container-selinux-4.2.242.0-1.amzn2023.noarch 10/11
Running scriptlet: container-selinux-4.2.242.0-1.amzn2023.noarch 10/11

Running scriptlet: docker-25.0.13-1.amzn2023.0.2.x86_64 11/11
Installing : docker-25.0.13-1.amzn2023.0.2.x86_64 11/11
Running scriptlet: docker-25.0.13-1.amzn2023.0.2.x86_64 11/11
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.

Running scriptlet: container-selinux-4.2.242.0-1.amzn2023.noarch 11/11
Running scriptlet: docker-25.0.13-1.amzn2023.0.2.x86_64 11/11
Verifying   : container-selinux-4.2.242.0-1.amzn2023.noarch 1/11
Verifying   : containerd-1.1.4-1.amzn2023.0.2.x86_64 2/11
Verifying   : docker-25.0.13-1.amzn2023.0.2.x86_64 3/11
Verifying   : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64 4/11
Verifying   : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 5/11
Verifying   : libcgroup-3.0-1.amzn2023.0.1.x86_64 6/11
Verifying   : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64 7/11
Verifying   : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64 8/11
Verifying   : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 9/11
Verifying   : pigz-2.5-1.amzn2023.0.3.x86_64 10/11
Verifying   : runc-1.3.3-2.amzn2023.0.1.x86_64 11/11

Installed:
container-selinux-4.2.242.0-1.amzn2023.noarch
docker-25.0.13-1.amzn2023.0.2.x86_64
iptables-libs-1.8.8-3.amzn2023.0.2.x86_64
libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
libnftnl-1.2.2-2.amzn2023.0.2.x86_64
runc-1.3.3-2.amzn2023.0.1.x86_64

Complete!
[ec2-user@ip-172-31-0-185 ~]$ sudo mkdir -p /usr/local/lib/docker/cli-plugins
[ec2-user@ip-172-31-0-185 ~]$ 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
100 73.0M  100 73.0M  0  0 51.6M  0 0:00:01 0:00:01 --:--:--:58.0M
[ec2-user@ip-172-31-0-185 ~]$ sudo chmod +x /usr/local/lib/docker/cli-plugins/docker-compose
[ec2-user@ip-172-31-0-185 ~]$ sudo systemctl start docker
[ec2-user@ip-172-31-0-185 ~]$ sudo systemctl enable docker
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
[ec2-user@ip-172-31-0-185 ~]$
```

task4_vim_compose_yaml_paste

```

[ec2-user@ip-172-31-0-185:~]
version: '3'
services:
  gitea:
    image: gitea/gitea:latest
    container_name: gitea
    environment:
      - USER_UID=1000
      - USER_GID=1000
    restart: always
    ports:
      - "3000:3000"
      - "2222:22"
    volumes:
      - gitea:/data
      - depends_on:
        - db
    db:
      image: postgres:15
      container_name: gitea-db
      restart: always
      environment:
        - POSTGRES_DB=gitea
        - POSTGRES_USER=gitea
        - POSTGRES_PASSWORD=gitea123
      volumes:
        - postgres:/var/lib/postgresql/data
volumes:
  gitea:
  postgres:
```

task4_compose_yaml_saved_ls

```

[ec2-user@ip-172-31-0-185 ~]$ sudo vim compose.yaml
[ec2-user@ip-172-31-0-185 ~]$ ls -l
total 4
-rw-r--r--. 1 root root 2536 Nov 29 04:39 compose.yaml
[ec2-user@ip-172-31-0-185 ~]$
```

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/
last login: Sat Nov 29 04:35:18 2025 from 39.58.206.178
[ec2-user@ip-172-31-0-185 ~]$ groups
ec2-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
[WARN/0000] Using 22722
db Pulled
  0e4bc2bdd656 Pull complete
  e213dd2560e2 Pull complete
  9fcd228516aa Pull complete
  2e6036398374 Pull complete
  5a1901f63ac4 Pull complete
  dd23ed782ca8 Pull complete
  b10108f2d223 Pull complete
  4e4a4683c389 Pull complete
  b475dc4bba47 Pull complete
  2c64a0ab539a Pull complete
  666c099e9058 Pull complete
  304e0b7c93e0 Pull complete
  95bcdad39f77ff Pull complete
  fa51353b2c90 Pull complete
server Pulled
  2d35eb0b57d9 Pull complete
  712adff69e56e Pull complete
  ceee20f5a0c8 Pull complete
  510f780cf94b Pull complete
  edff09febfaf9 Pull complete
  f84eddd1c8d8b 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

The screenshot shows the AWS Lambda Security Groups page. It lists two security groups:

| Name | Security group ID | Security group name | VPC ID | Description |
|---------------------------------------|----------------------|---------------------|-----------------------|----------------------|
| <input checked="" type="checkbox"/> - | sg-0ffe002ed5b6d64b9 | launch-wizard-1 | vpc-0f993bf131956a286 | launch-wizard-1 cre |
| <input type="checkbox"/> - | sg-00517f6d675cbaf2 | default | vpc-0f993bf131956a286 | default VPC security |

sg-0ffe002ed5b6d64b9 - launch-wizard-1

Inbound rules (2)

| Name | Security group rule ID | IP version | Type | Protocol | Port range |
|------|------------------------|------------|------------|----------|------------|
| - | sgr-0134233ec25a39fe3 | IPv4 | Custom TCP | TCP | 3000 |
| - | sgr-04f9c715f671b5c17 | IPv4 | SSH | TCP | 22 |

task4_gitea_install_page

Installation - Gitea: Git with a cup of tea

Not secure 3.29.100.217:3000

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 *

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

General Settings

Site Title *
You can enter your company name here.

Repository Root Path *
Remote Git repositories will be saved to this directory.

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

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

task4_gitea_create_repo

admin / lab8repo

Code Issues Packages Projects Wiki

Unwatch 1 Star 0 Settings

Quick Guide

Clone this repository Need help cloning? Visit Help.

New File Upload File HTTP SSH http://3.29.100.217:3000/admin/lab8repo.git

Creating a new repository on the command line

```
touch README.md
git init
git checkout -b main
git add README.md
git commit -m "first commit"
git remote add origin http://3.29.100.217:3000/admin/lab8repo.git
git push -u origin main
```

Pushing an existing repository from the command line

```
git remote add origin http://3.29.100.217:3000/admin/lab8repo.git
git push -u origin main
```

task4_summary

EC2

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name: Lab8Machine | Instance ID: i-00a79360f76e204f7 | Instance state: Running | Instance type: t3.micro | Status check: 3/3 checks passed | Alarm status: View alarms | Availability Zone: me-central-1c | Public IPv4: ec2-3-29-1c

i-00a79360f76e204f7 (Lab8Machine)

Instance summary

| Instance ID | Public IPv4 address | Private IPv4 addresses |
|---------------------|-----------------------------|------------------------|
| i-00a79360f76e204f7 | 3.29.100.217 open address | 172.31.0.185 |

| IPV6 address | Instance state | Public DNS |
|--------------|----------------|--|
| - | Running | ec2-3-29-100-217.me-central-1.compute.amazonaws.com open address |

| Hostname type | Private IP DNS name (IPv4 only) | Instance type | Elastic IP addresses |
|--|---|---------------|----------------------|
| IP name: ip-172-31-0-185.me-central-1.compute.internal | ip-172-31-0-185.me-central-1.compute.internal | t3.micro | - |

| Answer private resource DNS name | Instance type | Elastic IP addresses |
|----------------------------------|---------------|----------------------|
| IPv4 (A) | t3.micro | - |

EC2

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name: Lab8Machine | Instance ID: i-00a79360f76e204f7 | Instance state: Running | Instance type: t3.micro | Status check: 3/3 checks passed | Alarm status: View alarms | Availability Zone: me-central-1c | Public IPv4: ec2-3-29-1c

i-00a79360f76e204f7 (Lab8Machine)

Answer private resource DNS name

| IPv4 (A) | Instance type | Elastic IP addresses |
|----------|---------------|----------------------|
| - | t3.micro | - |

Auto-assigned IP address

| 3.29.100.217 [Public IP] | VPC ID | AWS Compute Optimizer finding |
|--------------------------|-----------------------|--|
| - | vpc-0f993bf131956a286 | Opt-in to AWS Compute Optimizer for recommendations. |

IAM Role

| - | Subnet ID | Auto Scaling Group name |
|---|--------------------------|-------------------------|
| - | subnet-0d8f9fcbb79043cbc | - |

IMDSv2

| Required | Instance ARN | Managed |
|----------|--|---------|
| - | arn:aws:ec2:me-central-1:075006647027:instance/i-00a79360f76e204f7 | false |

The screenshot shows two side-by-side interfaces. On the left is the AWS Management Console under the EC2 service, specifically the Security Groups section. It displays a list of security groups with their details like Name, Security group ID, Security group name, VPC ID, and Description. One group, 'sg-Offe002ed5b6d64b9 - launch-wizard-1', is selected. On the right is the Gitea web interface for a repository named 'admin/lab8repo'. It shows the repository's settings, including its URL (<http://3.29.100.217:3000/admin/lab8repo.git>). Below the URL are sections for 'Creating a new repository on the command line' and 'Pushing an existing repository from the command line', each containing a code block with Git commands.

Cleanup — Remove resources to avoid charges

cleanup_terminate_instance

Successfully initiated termination (deletion) of i-00a79360f76e204f7

Last updated 2 minutes ago

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4

Lab8Machine i-00a79360f76e204f7 Shutting-down t3.micro 3/3 checks passed View alarms me-central-1c ec2-3-29-1c

i-00a79360f76e204f7 (Lab8Machine)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

Instance ID: i-00a79360f76e204f7

Public IPv4 address: 3.29.100.217 | open address

Private IPv4 addresses: 172.31.0.185

IPv6 address: -

Instance state: Shutting-down

Private IP DNS name (IPv4 only): ec2-3-29-100-217.me-central-1.compute.amazonaws.com | open address

Hostname type: Hostname by attribute or tag (case-sensitive)

Terminate (delete) instance

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

| Instance ID | Termination protection |
|-----------------------------------|------------------------|
| i-00a79360f76e204f7 (Lab8Machine) | Disabled |

To confirm that you want to delete the instances, choose the terminate button below. Instances with termination protection enabled will not be terminated. Terminating the instance cannot be undone.

Skip OS shutdown

This option skips the graceful OS shutdown process. Use only when your instance must be stopped immediately, such as during an emergency or failover.

Skip OS shutdown

Cancel Terminate (delete)

ec2-3-29-100-217.me-central-1.compute.amazonaws.com | open address

cleanup_delete_volumes_snapshots

The screenshot shows the AWS EC2 Volumes page. The left sidebar is collapsed. The main content area has a header "Volumes Info" with a "Choose filter set" dropdown and a search bar. Below the header is a table with columns: Name, Volume ID, Type, Size, IOPS, Throughput, Snapshot ID, Source volume ID, and Created. A message "You currently have no volumes in this region" is displayed below the table. At the bottom of the page, there is a section titled "Fault tolerance for all volumes in this Region" and a "Snapshot summary" section showing "0 / 0" recently backed up volumes.

The screenshot shows the AWS EC2 Snapshots page. The left sidebar is collapsed. The main content area has a header "Snapshots Info" with a "Owned by me" dropdown and a search bar. Below the header is a table with columns: Name, Snapshot ID, Full snapshot size, Volume size, Description, Storage tier, and Snapshot status. A message "You currently have no snapshots in this Region" is displayed below the table.

cleanup_delete_security_group_and_keypair

Security Groups (1/2) Info

| Name | Security group ID | Security group name | VPC ID | Description |
|---------------------------------------|----------------------|---------------------|-----------------------|----------------------|
| <input checked="" type="checkbox"/> - | sg-Offe002ed5b6d64b9 | launch-wizard-1 | vpc-0f993bf131956a286 | launch-wizard-1 cre |
| <input type="checkbox"/> | sg-00517f6d675cbaf12 | default | vpc-0f993bf131956a286 | default VPC security |

Delete security groups
Are you sure that you want to delete this security group?
• sg-Offe002ed5b6d64b9 - launch-wizard-1

Inbound rules (2)

| Name | Security group rule ID | IP version | Type | Protocol | Port range |
|------|------------------------|------------|------------|----------|------------|
| | sgr-0134233ec25a39fe3 | IPv4 | Custom TCP | TCP | 3000 |
| | sar-04f9c715f671b5c17 | IPv4 | SSH | TCP | 22 |

Key pairs (1/1) Info

| Name | Type | Created | Fingerprint | ID |
|---|---------|------------------------|-----------------------------------|-----------------------|
| <input checked="" type="checkbox"/> Lab8Key | ed25519 | 2025/11/28 23:10 GMT+5 | 01BpylOSaji9P7fKqHNLWfjVtrxQsg... | key-081572b8044cdb1e4 |

Lab8Key could be associated with one or more instances. X

Delete Lab8Key
To confirm deletion, type *Delete* in the field

Cancel **Delete**

cleanup_iam_users_deleted

entity

Delete Lab8User?

Delete Lab8User permanently? This will also delete all its user data, security credentials and inline policies.

| User name | Last activity |
|-----------|---------------|
| Lab8User | 2 days ago |

Note: Recent activity usually appears within 4 hours. Data is stored for a maximum of 365 days, depending when your region began supporting this feature. [Learn more ↗](#)

To avoid accidental deletions, we ask you to provide additional written consent.

To confirm this deletion, type "confirm".

[Cancel](#) [Delete user](#)

aws | Search [Alt+S] Account ID: 0750-0664-7027 Shumail Zahra

IAM > Users

Identity and Access Management (IAM)

Users (1) Info

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

| User name | Path | Group | Last activity | MFA | Password age | Console last sign-in | Access key last used |
|-----------|------|-------|---------------|-----|--------------|----------------------|----------------------|
| Admin | / | 0 | 2 days ago | - | 2 days | 2 days ago | - |

cleanup_summary

Billing and Cost Management > Bills

Billing and Cost Management

Billing View New

Home
Getting Started
Dashboards [New](#)

Billing and Payments

Bills
Payments
Credits
Purchase Orders

Cost and Usage Analysis

Cost Explorer
Cost Explorer Saved Reports
Cost Anomaly Detection
Free Tier
Data Exports

Bills Info

Page refresh time: Monday, December 1, 2025 at 9:43:49 AM GMT+5

[Download all to CSV](#) [Print](#) Billing period: December 2025

AWS bill summary Info

Total charges and payment information

Account ID: 075006647027

Billing period info: December 1 - December 31, 2025

No data
There is no data to display.

Estimated grand total: USD 0.00

Payment information Info

Highest estimated cost by service provider Info

No data
There is no data to display.