

FATIMA JINNAH WOMEN UNIVERSITY

Department of Software Engineering



LAB #08

SUBJECT: CLOUD COMPUTING

SUBMITTED TO: SIR MUHAMMAD SHOAIB

SUBMITTED BY: UMBER QASIM

REGISTRATION NO: 2023-BSE-066

CLASS: BSSE V-B

AWS: Account Setup, IAM, VPC Inventory, EC2, Docker & Gitea

Task#01: Create an AWS account and enable UAE (me-central-1)

The image shows the AWS account setup process and the AWS Management Console. The top section is the "Sign up for AWS" page, which includes a "Try AWS at no cost for up to 6 months" offer. The "Sign up for AWS" section has two main paths: "New user email address" and "Sign in to an existing AWS account". The "New user email address" path is selected, showing a form for "Root user email address" (23-22411-066@se.fjwu.edu.pk) and "AWS account name" (Umbur Qasim). A "Verify email address" button is visible. The bottom section is the AWS Management Console, showing the "Service menu" and the "Applications (0)" section. The "Service menu" is a dark blue box with the text "You can access all AWS services here. There are sections for recently visited and you can save your favorite services too." and a "Next" button. The "Applications (0)" section shows the region "Europe (Stockholm)" and a "Select Region" dropdown set to "eu-north-1 (Current Region)". It also includes a "Find applications" search bar and a "Create application" button. The footer of the console shows the copyright notice "© 2025, Amazon Web Services, Inc. or its affiliates." and links for "Privacy", "Terms", and "Cookie preferences".

aws

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](#)

23-22411-066@se.fjwu.edu.pk

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

Umbur Qasim

Verify email address

OR

Sign in to an existing AWS account

This site uses essential cookies. See our [Cookie Notice](#) for more information.

Service menu
You can access all AWS services here. There are sections for recently visited and you can save your favorite services too.

Applications (0) Info
Region: Europe (Stockholm)

Select Region
eu-north-1 (Current Region)

Find applications

No recently visited services
Explore one of these commonly visited AWS services.
[EC2](#) [S3](#) [Aurora and RDS](#) [Lambda](#)

[View all services](#)

No applications
Get started by creating an application.
[Create application](#)

[Go to myApplications](#)

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Users (1) [Info](#)

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

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

[< 1 >](#) [Settings](#)

<input type="checkbox"/>	User name	▲	Path	▼	Group: ▼	Last activity	▼	MFA	▼	Password age	▼	Console
--------------------------	-----------	---	------	---	----------	---------------	---	-----	---	--------------	---	---------

<input type="checkbox"/>	Admin	/		0	-	-	✓ 7 minutes	-
--------------------------	-----------------------	---	--	---	---	---	-------------	---

Admin_credentials.csv - Excel												
File Home Insert Draw Page Layout Formulas Data Review View Help Tell me what you want to do												
Clipboard Font Alignment Number												
POSSIBLE DATA LOSS Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save as a different format.												
G18												
	A	B	C	D	E	F	G	H	I	J	K	L
1	User name	Password	Console sign-in URL									
2	Admin		https://458862189705.signin.aws.amazon.com/console									
3												

aws

Search

[Alt+S]

Europe (Stockholm)

Account ID: 4588-6218-9705

Admin

Console home [Info](#)

[Reset to default layout](#) [+ Add widgets](#)

Recently visited [Info](#)

No recently visited services

Explore one of these commonly visited AWS services.

[EC2](#) [S3](#) [Aurora and RDS](#) [Lambda](#)

[View all services](#)

Applications (0) [Info](#)

[Create application](#)

Region: Europe (Stockholm)

Select Region [eu-north-1 \(Current Region\)](#) [Find applications](#)

Name	Description	Region	Originati...
No applications			
Get started by creating an application.			
Create application			

[Go to myApplications](#) [Activate Windows](#)

CloudShell Feedback Console Mobile App

© 2025, Amazon Web Services, Inc. or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

aws [Search] [Alt+S] Global Account ID: 4588-6218-9705 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 2: Set permissions

Step 3: Review and create

Step 4: 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://458862189705.signin.aws.amazon.com/console

User name

Lab8User

Console password

***** Show

Email sign-in instructions

Cancel Download .csv file Return to users list

Activate Windows

Go to Settings to activate Windows.

CloudShell Feedback Console Mobile App © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Lab8User_credentials.csv - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help Tell me what you want to do

Paste

Clipboard

Font

Alignment

Number

General

	A	B	C	D	E	F	G	H	I	J	K	L
1	User name	Password	Console sign-in URL									
2	Lab8User		https://458862189705.signin.aws.amazon.com/console									
3												

aws [Search] [Alt+S] Europe (Stockholm) Account ID: 4588-6218-9705 Lab8User

Console home Info

Reset to default layout + Add widgets

Recently visited Info

No recently visited services

Explore one of these commonly visited AWS services.

EC2 S3 Aurora and RDS Lambda

View all services

Applications (0) Info

Region: Europe (Stockholm)

Select Region eu-north-1 (Current Region) Find applications

No applications

Get started by creating an application.

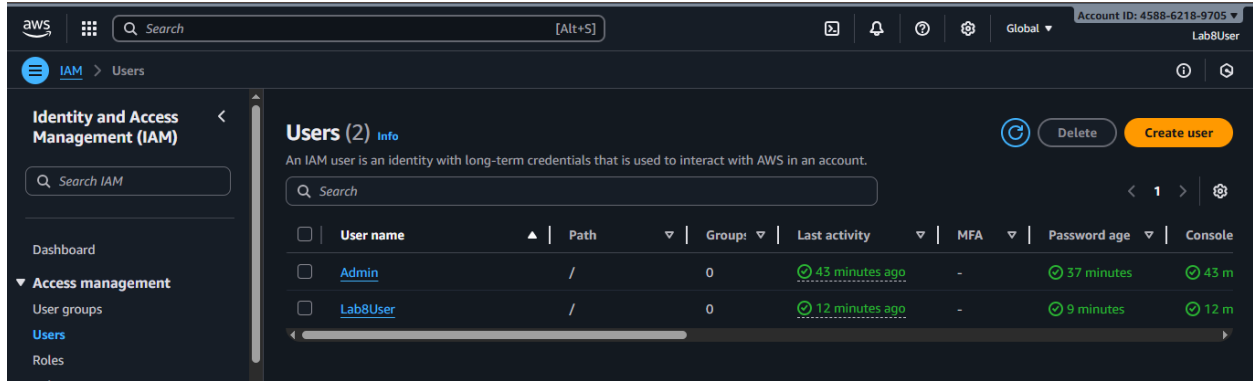
Create application

Go to myApplications

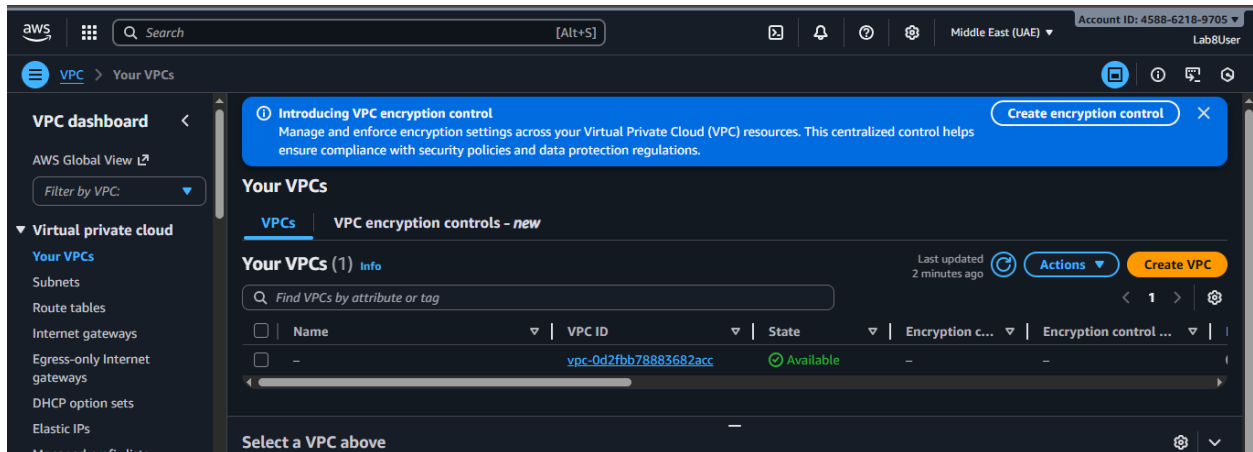
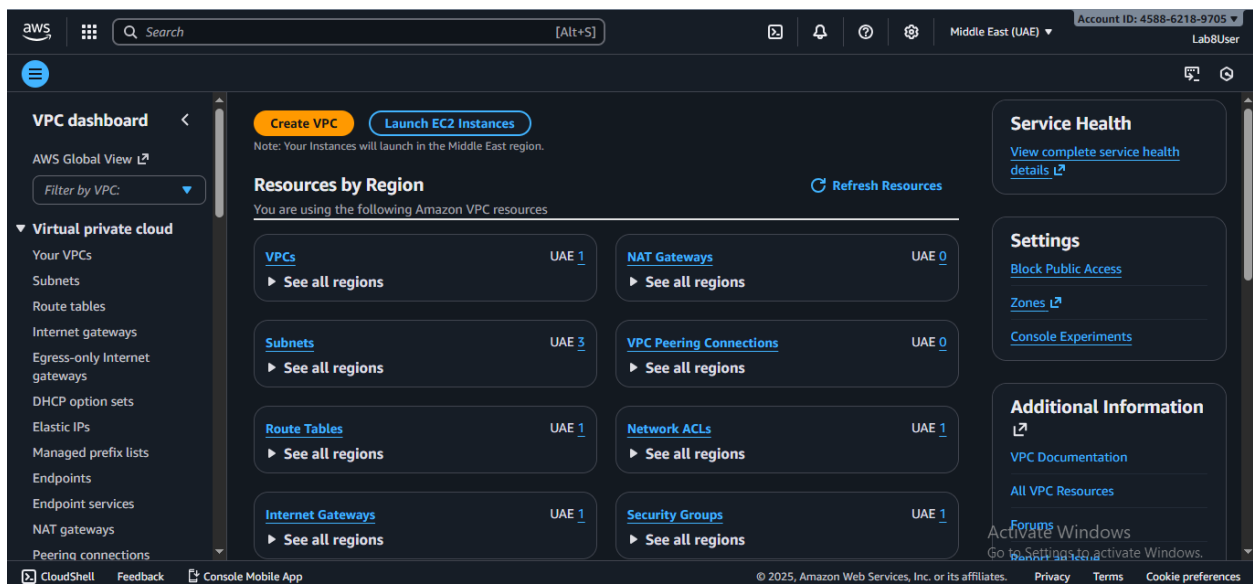
Activate Windows

Go to Settings to activate Windows.

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Task#03: Inspect VPC resources (in UAE me-central-1)



aws

Search

[Alt+S]

Middle East (UAE)

Account ID: 4588-6218-9705

Lab8User

VPC > Subnets

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

Introducing VPC encryption control

Manage and enforce encryption settings across your Virtual Private Cloud (VPC) resources. This centralized control helps ensure compliance with security policies and data protection regulations.

Create encryption control

Subnets (3)

Info

Last updated less than a minute ago

Actions

Create subnet

Find subnets by attribute or tag

	Name	Subnet ID	State	VPC	Block Public.
<input type="checkbox"/>	-	subnet-008a6375773a6d67d	Available	vpc-0d2fbb78883682acc	Off
<input type="checkbox"/>	-	subnet-0e2b03348f83d9464	Available	vpc-0d2fbb78883682acc	Off
<input type="checkbox"/>	-	subnet-003aaf45b7679f681	Available	vpc-0d2fbb78883682acc	Off

Select a subnet

aws

Search

[Alt+S]

Middle East (UAE)

Account ID: 4588-6218-9705

Lab8User

VPC > Route tables

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

Introducing VPC encryption control

Manage and enforce encryption settings across your Virtual Private Cloud (VPC) resources. This centralized control helps ensure compliance with security policies and data protection regulations.

Create encryption control

Route tables (1)

Info

Last updated less than a minute ago

Actions

Create route table

Find route tables by attribute or tag

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-021ca08af25db87f8	-	-	Yes	vpc-0

Select a route table

aws

Search

[Alt+S]

Middle East (UAE)

Account ID: 4588-6218-9705

Lab8User

VPC > Network ACLs

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

Introducing VPC encryption control

Manage and enforce encryption settings across your Virtual Private Cloud (VPC) resources. This centralized control helps ensure compliance with security policies and data protection regulations.

Create encryption control

Network ACLs (1)

Info

Last updated less than a minute ago

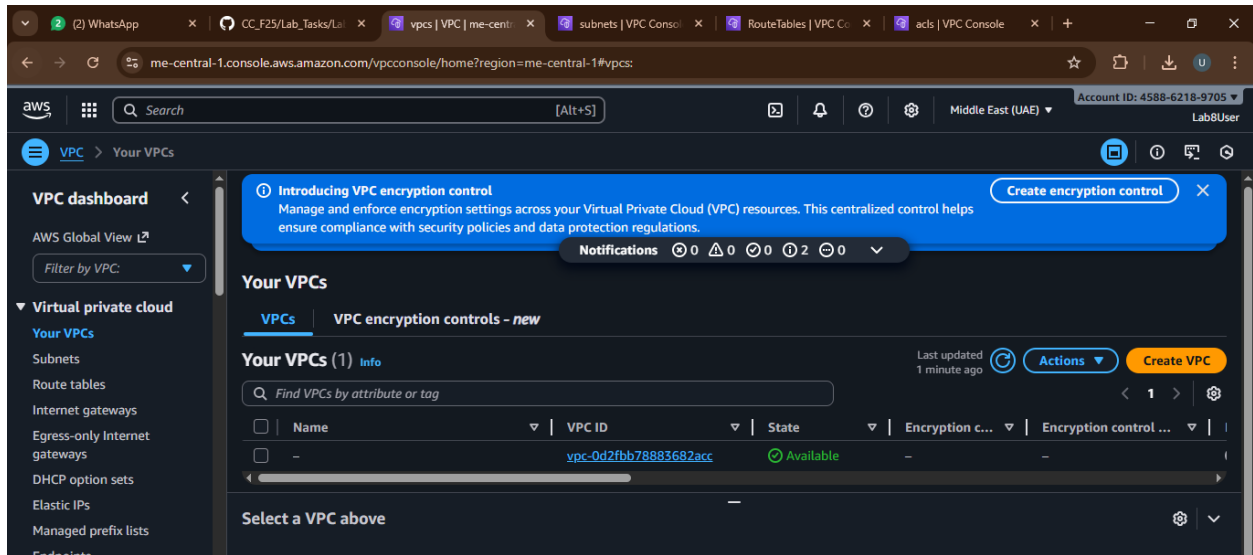
Actions

Create network ACL

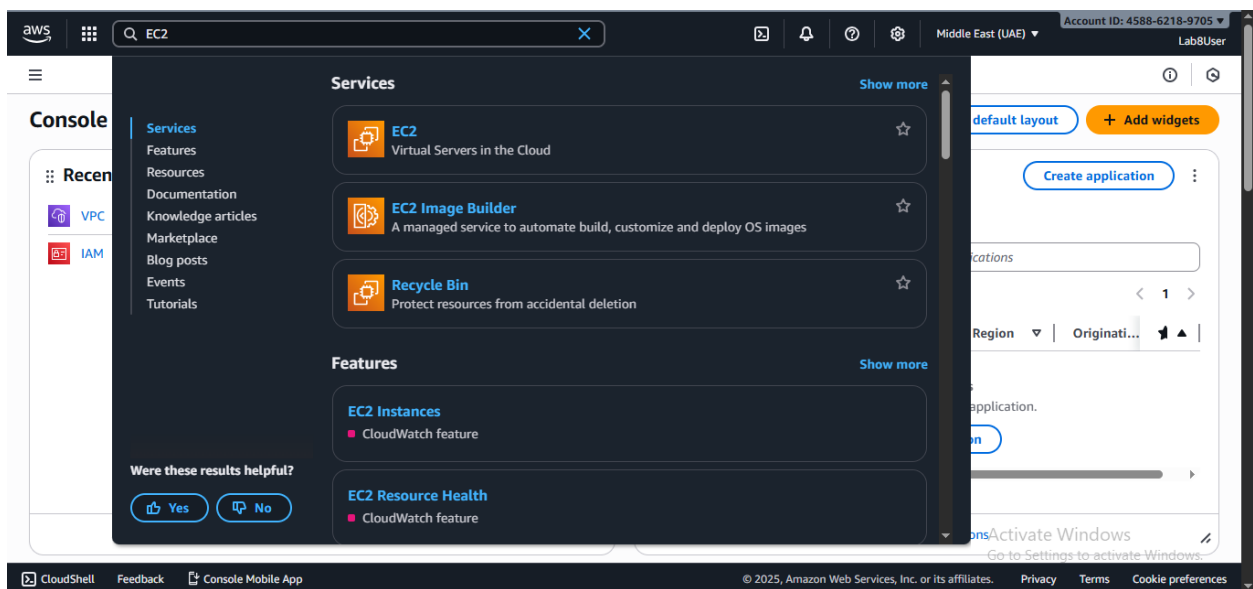
Find Network ACLs by attribute or tag

	Name	Network ACL ID	Associated with	Default	VPC ID
<input type="checkbox"/>	-	acl-07b615a727ee7e234	3 Subnets	Yes	vpc-0d2fbb78883682acc

Select a network ACL



Task#04: Launch EC2, SSH, install Docker & Docker Compose, deploy Gitea




```
HP@DESKTOP-BGNOK42 MINGW64 ~/Downloads  
$ ssh -i Lab8Key.pem ec2-user@158.252.21.156  
The authenticity of host '158.252.21.156 (158.252.21.156)' can't be established.  
ED25519 key fingerprint is SHA256:kuTAa2WL73yG7J0hpWj37PjNcILjDSzBQIkO3RG432U.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '158.252.21.156' (ED25519) to the list of known hosts  
.~  
#_ Amazon Linux 2023  
~\#####_  
~~~\#####\  
~~~~\###|  
~~~~\#/____ https://aws.amazon.com/linux/amazon-linux-2023  
~~~~V~'->  
~~~~_.  
~~~~/_/  
~/m/'
```

```
[ec2-user@ip-172-31-8-196 ~]$ |
```

```

ec2-user@ip-172-31-8-196:~
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-2.1.4-1.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        : libcgrou-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        : libnftnl-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
containerd-2.1.4-1.amzn2023.0.2.x86_64
docker-25.0.13-1.amzn2023.0.2.x86_64
iptables-libs-1.8.8-3.amzn2023.0.2.x86_64
iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
libcgroup-3.0-1.amzn2023.0.1.x86_64
libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
libnftnl-1.0.1-19.amzn2023.0.2.x86_64
libnftnl-1.2.2-2.amzn2023.0.2.x86_64
pigz-2.5-1.amzn2023.0.3.x86_64
runc-1.3.3-2.amzn2023.0.1.x86_64

Complete!
[ec2-user@ip-172-31-8-196 ~]$ sudo mkdir -p /usr/local/lib/docker/cli-plugins
[ec2-user@ip-172-31-8-196 ~]$ 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     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
100 29.8M 100 29.8M    0    0 38.7M    0  0 --:--:-- --:--:-- --:--:-- 38.7M
[ec2-user@ip-172-31-8-196 ~]$ sudo chmod +x /usr/local/lib/docker/cli-plugins/docker-compose
[ec2-user@ip-172-31-8-196 ~]$ sudo systemctl start docker

```

ec2-user@ip-172-31-8-196:~

```
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
    ports:
      - 3000:3000
    extra_hosts:
      - "www.jenkins.com:host-gateway"
    networks:
      - webnet
  db:
    image: postgres:alpine
    container_name: gitea_db
    environment:
      - POSTGRES_USER=gitea
      - POSTGRES_PASSWORD=gitea
      - POSTGRES_DB=gitea
    restart: always
    volumes:
      - gitea_postgres:/var/lib/postgresql/data
    expose:
      - 5432
    networks:
      - webnet

volumes:
  gitea_postgres:
    name: gitea_postgres
  gitea:
    name: gitea

networks:
  webnet:
    name: webnet
#   external: true

# Gitea is not allowed to webhook to Jenkins folow these steps
# 1) Go to Gitea Container
# 2) cat /data/gitea/conf/app.ini
— INSERT —
```

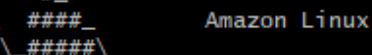
```
[ec2-user@ip-172-31-8-196 ~]$ sudo vim compose.yaml
[ec2-user@ip-172-31-8-196 ~]$ ls -l
total 4
-rw-r--r--. 1 root root 1126 Dec  5 11:25 compose.yaml
[ec2-user@ip-172-31-8-196 ~]$
```

```
iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
libcgroup-3.0-1.amzn2023.0.1.x86_64
libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
libnftnl-1.0.1-19.amzn2023.0.2.x86_64
libnftnl-1.2.2-2.amzn2023.0.2.x86_64
pigz-2.5-1.amzn2023.0.3.x86_64
runc-1.3.3-2.amzn2023.0.1.x86_64
```

```
[ec2-user@ip-172-31-8-196 ~]$ sudo mkdir -p /usr/local/lib/docker/cli-plugins
[ec2-user@ip-172-31-8-196 ~]$ sudo curl -SL https://github.com/docker/compose/releases
/latest/download/docker-compose-linux-x86_64 -o /usr/local/lib/docker/cli-plugins/dock
er-compose
```

```
[ec2-user@ip-172-31-8-196 ~]$ sudo chmod +x /usr/local/lib/docker/cli-plugins/docker-compose
```

Connection to 158.252.21.156 closed.



```

~_#####_
#####\
###|
#/\
V~' '->
~._._
_/m/' '

```

Amazon Linux 2023

<https://aws.amazon.com/linux/amazon-linux-2023>

```
[ec2-user@ip-172-31-8-196 ~]$
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
bcd2f019379b	postgres:alpine	"docker-entrypoint.s..."	5 minutes ago	Up
5 minutes	5432/tcp		gitea_db	
383a16d54f5b	gitea/gitea:latest	"/usr/bin/entrypoint..."	5 minutes ago	Up
5 minutes	22/tcp, 0.0.0.0:3000->3000/tcp, :::3000->3000/tcp		gitea	

aws

Search

[Alt+S]

Middle East (UAE)

Account ID: 4588-6218-9705

Lab8User

EC2

Security Groups

sg-01d5b808e513da616 - Lab8SecurityGroup

Edit inbound rules

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0a966c0c127d33443	SSH	TCP	22	Cust...	
-	Custom TCP	TCP	3000	Any...	

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel

Preview changes

Save rules

aws

Search

[Alt+S]

Middle East (UAE)

Account ID: 4588-6218-9705

Lab8User

EC2

Security Groups

sg-01d5b808e513da616 - Lab8SecurityGroup

EC2

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Inbound security group rules successfully modified on security group (sg-01d5b808e513da616 | Lab8SecurityGroup)

Details

Security group name	Security group ID	Description	VPC ID
Lab8SecurityGroup	sg-01d5b808e513da616	launch-wizard-1 created 2025-1 2-05T10:36:50.327Z	vpc-0d2fbb78883682acc
Owner	Inbound rules count	Outbound rules count	
458862189705	2 Permission entries	1 Permission entry	

Inbound rules

Outbound rules

Sharing - new

VPC associations - new

Tags

Inbound rules (2)

Manage tags

Edit inbound rules

Name	Security group rule ID	IP version	Type	Protocol	Port
-	sgr-070604cb4eecb5667	IPv4	Custom TCP	TCP	3000
-	sgr-0a966c0c127d33443	IPv4	SSH	TCP	22

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

Leave blank for database default ("public").

General Settings

Admin / TestRepo

Issues Pull Requests Milestones Explore

Code Issues Pull Requests Actions Packages Projects Releases Wiki Activity Settings

1 Commit 1 Branch 0 Tags

main Go to file Add File

Admin 2452abd991 Initial commit now

README.md Initial commit now

README.md

TestRepo

Description

No description provided

Manage Topics

Readme

23 KiB

Terminate EC2 Instance

The screenshot shows the AWS Management Console interface. At the top, a green banner indicates "Successfully initiated termination (deletion) of i-Of5c4ea4f32614584". The left sidebar shows the navigation menu with "EC2" selected. The main content area displays the "Instances (1/1)" list. A table lists the instance "Lab8Machine" with ID "i-Of5c4ea4f32614584", state "Shutting-down", type "t3.micro", and status "3/3 checks passed". Below the table, the "Details" tab for the selected instance is shown, displaying the "Instance summary" with fields for Instance ID, Public IPv4 address, Private IPv4 addresses, IPv6 address, and Instance state (Shutting-down). The bottom of the console shows the footer with copyright information and links for Privacy, Terms, and Cookie preferences.

Successfully initiated termination (deletion) of i-Of5c4ea4f32614584

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input checked="" type="checkbox"/>	Lab8Machine	i-Of5c4ea4f32614584	Shutting-d...	t3.micro	3/3 checks passed	View alarms +	me-central-

i-Of5c4ea4f32614584 (Lab8Machine)

Details Status and alarms Monitoring Security Networking Storage Tags

▼ Instance summary Info

Instance ID i-Of5c4ea4f32614584

Public IPv4 address 158.252.21.156 | open address

Private IPv4 addresses 172.31.8.196

IPv6 address

Instance state Shutting-down

Public DNS Activate Windows Go to Settings to activate Windows.

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Delete Volumes & Snapshots

The screenshot shows the AWS Management Console interface for the "Volumes" section. The left sidebar shows the navigation menu with "Elastic Block Store" selected. The main content area displays the "Volumes" list, which is currently empty, showing a message "You currently have no volumes in this region". Below the list, the "Fault tolerance for all volumes in this Region" section is visible, showing a "Snapshot summary" with "0/0" volumes backed up. The bottom of the console shows the footer with copyright information and links for Privacy, Terms, and Cookie preferences.

Volumes Info

Saved filter sets Choose filter set

Search

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Source vc
You currently have no volumes in this region								

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes

0 / 0

Last updated on Fri, Dec 05, 2025, 05:45:17 PM (GMT+05:00)

Data Lifecycle Manager default policy for EBS Snapshots status

No default policy set up | Create policy

Activate Windows Go to Settings to activate Windows.

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Delete Security Group & Key Pair

EC2 > Key pairs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Load Balancers

Target Groups

Trust Stores

Auto Scaling

Launch Configurations

Successfully deleted 1 key pairs

Notifications 0 0 2 0 0 0

Key pairs Info

Find Key Pair by attribute or tag

Actions Create key pair

1

Name	Type	Created	Fingerprint	ID
No key pairs to display				

Activate Windows
Go to Settings to activate Windows.

Delete IAM User & Access Keys

aws

Search

[Alt+S]

Global

Account ID: 4588-6218-9705

Lab8User

IAM > Users

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Root access management

Temporary delegation requests

New

Access reports

User "Lab8User" deleted.

Users (1/2) Info

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

Search

1

User name	Path	Group	Last activity	MFA	Password age	Console
Admin	/	0	4 hours ago	-	4 hours	4 hours
Lab8User	/	0	4 hours ago	-	3 hours	4 hours

Activate Windows
Go to Settings to activate Windows.

CloudShell

Feedback

Console Mobile App

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Final Billing/Resource Summary

aws

Search

[Alt+S]

Middle East (UAE)

Account ID: 4588-6218-9705

Admin

IAM

Access Analyzer

Resource analysis

Users

Roles

Policies

Identity providers

Account settings

Root access management

Temporary delegation requests

Access reports

Access Analyzer

Resource analysis

Unused access

Analyser settings

Credential report

Organisation activity

Service control policies (SCP)

Resource analysis

Info

Select analyzers

Create analyser

Zone of trust: Current account

Simplify compliance reviews

Create internal analyser

Get more comprehensive insight into internal resource access patterns by automating least-privilege access verification across your AWS infrastructure. [Find out more](#)

Resources with active findings (0)

Find resources

Filter access type

All types

Filter resource type

All resources

< 1 >

Name

Type

Owner account

Active findings

Public ...

No resources to show