

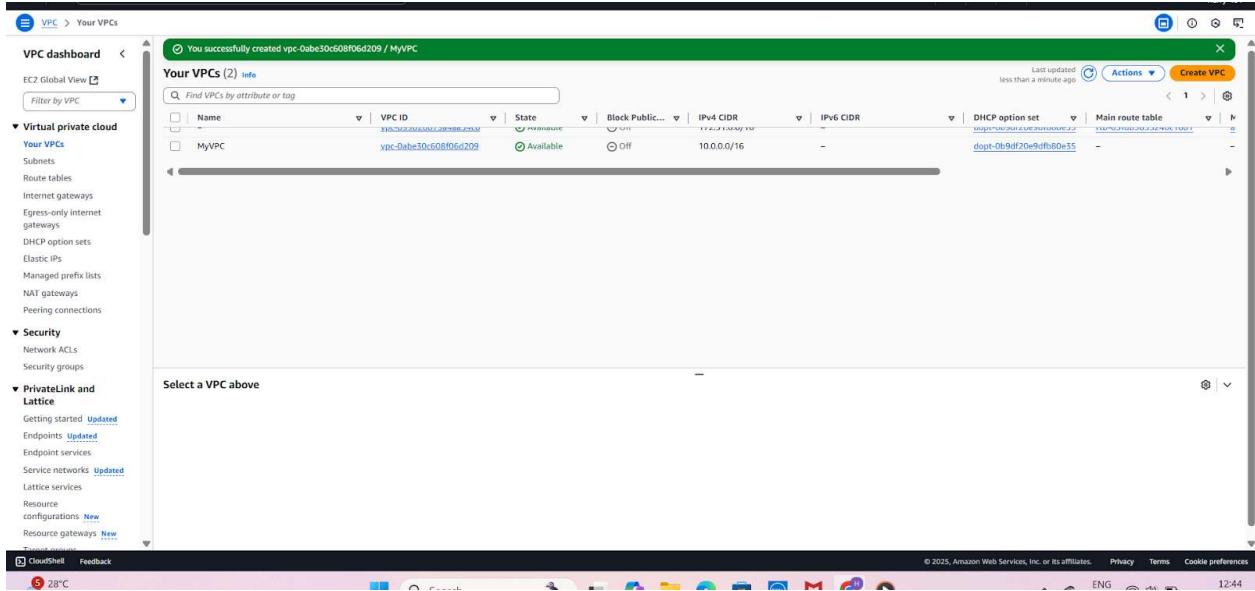
# Secure AWS VPC Lab: Bastion-Hosted MariaDB Setup and Teardown

## 1. Create VPC and Subnets

1. Go to VPC Console > Your VPCs > Create VPC.

- Name: MyVPC
- IPv4 CIDR: 10.0.0.0/16
- Tenancy: Default
- Create.

The screenshot shows the AWS VPC console interface. The top navigation bar includes 'VPC', 'Actions', and 'Create VPC'. The left sidebar has sections for 'Virtual private cloud' (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways, Peering connections), 'Security' (Network ACLs, Security groups), 'PrivateLink and Lattice' (Getting started, Endpoints, Endpoint services, Private networks), and 'AWS Lambda' (Getting started, Functions, Triggers, Policies, Metrics, Events, Lambda@Edge). The main content area shows 'Your VPCs (1) Info' with a table for 'vpc-099026679a4aa546'. Below this is the 'vpc-0807bb948ab50dd38 / MyVPC' details page, which includes tabs for 'Details', 'Resource map', 'CIDRs', 'Flow logs', 'Tags', and 'Integrations'. The 'Details' tab shows 'VPC ID' as vpc-0807bb948ab50dd38, 'Name' as MyVPC, 'State' as Available, and 'Block Public Access' as Off. The 'CIDRs' tab shows 'IPv4 CIDR' as 10.0.0.0/16. The 'Tags' tab shows a single tag 'Name' with value 'MyVPC'. The bottom part of the screenshot shows the 'Create VPC' wizard with the 'Info' step. It includes sections for 'VPC settings' (Resources to create: VPC only, VPC and more), 'Name tag - optional' (MyVPC), 'IPv4 CIDR block' (IPv4 CIDR manual input, IPv4 CIDR block: 10.0.0.0/16), 'IPv6 CIDR block' (No IPv6 CIDR block, IPAM-allocated IPv6 CIDR block, Amazon-provided IPv6 CIDR block, IPv6 CIDR owned by me), 'Tenancy' (Default), and 'Tags' (Key: Name, Value: MyVPC, Add tag).



The screenshot shows the AWS VPC dashboard with the following details:

- Success Message:** You successfully created vpc-0abe30c608f06d209 / MyVPC
- Table Headers:** Name, VPC ID, State, Block Public..., IPv4 CIDR, IPv6 CIDR, DHCP option set, Main route table.
- Table Data:** MyVPC (vpc-0abe30c608f06d209, Available, Off, 10.0.0.0/16, -), MyVPC (dopt-0b19af2e9cfb80e35, -).
- Left Sidebar:** Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways, Peering connections), Security (Network ACLs, Security groups), PrivateLink and Lattice (Getting started, Endpoints, Endpoint services, Service networks), and CloudShell, Feedback.
- Bottom Bar:** © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences, ENG, 12:44.

## 2. Create Public Subnet:

- Go to Subnets > Create subnet.
- VPC: MyVPC
- Name: Public-Subnet
- Availability Zone: ap-south-1a
- IPv4 CIDR: 10.0.1.0/24
- Create.

Screenshot of the AWS VPC Subnets page and the Create Subnet wizard.

**VPC Subnets Page:**

Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR	IPv6 CIDR	IPv6 CIDR association ID
subnet-0b6ce01347fb83f6d	Available	vpc-099026679a4aa54c6	Off	172.31.32.0/20	-	-	
subnet-0aae5032b0783fb91	Available	vpc-099026679a4aa54c6	Off	172.31.16.0/20	-	-	
subnet-0f65579312b4a9659	Available	vpc-099026679a4aa54c6	Off	172.31.0.0/20	-	-	

**Create Subnet Wizard:**

**VPC:**

**Associated VPC CIDRs:**

**Subnet settings:** Specify the CIDR blocks and Availability Zone for the subnet.

**Subnet 1 of 1:**

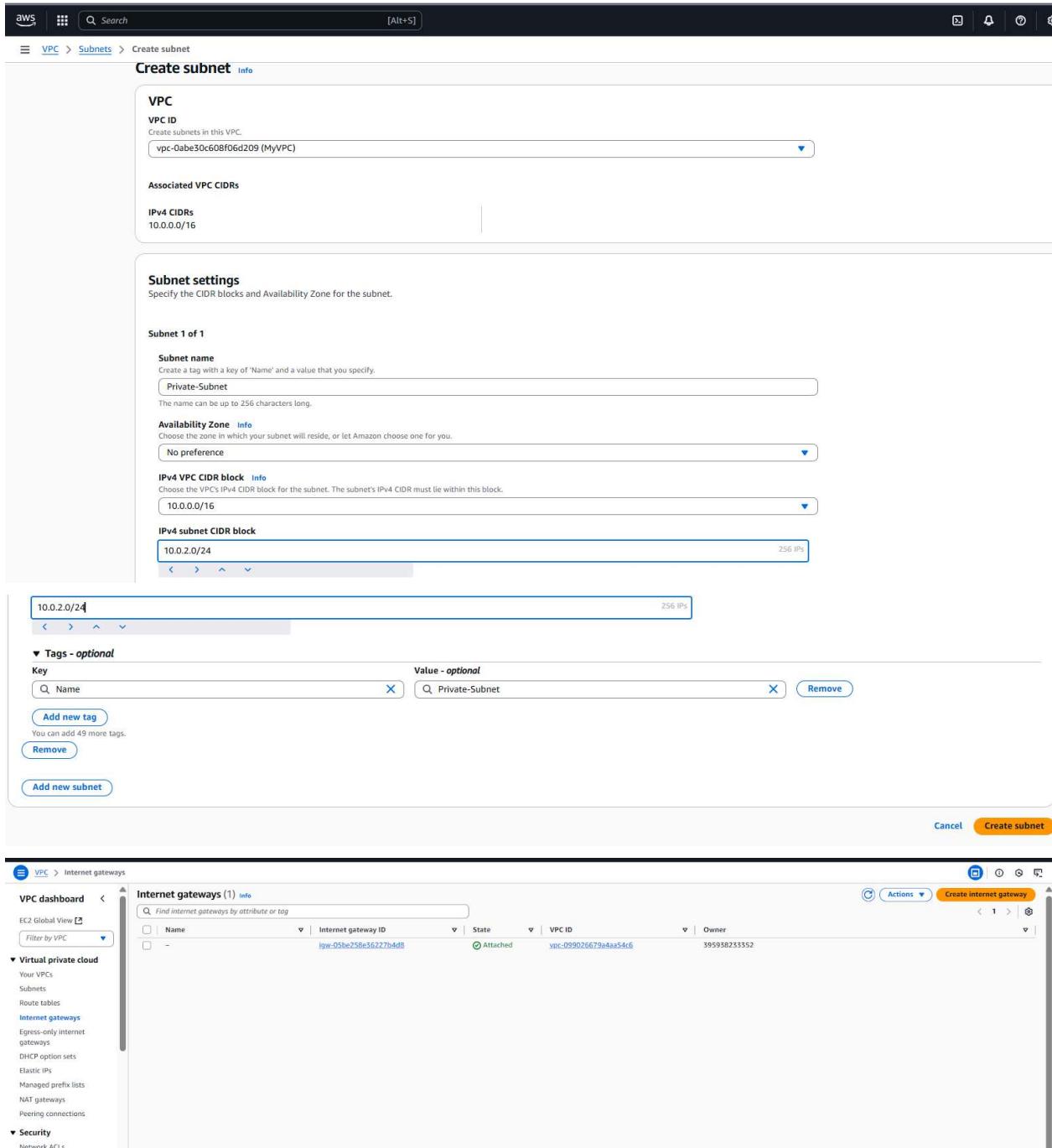
- Subnet name:**
- Availability Zone:**
- IPv4 VPC CIDR block:**
- IPv4 subnet CIDR block:**
- Tags - optional:**
  - Key:**  **Value - optional:**
  - Add new tag:**
  - Remove:**

**Buttons:**

### 3. Create Private Subnet:

- Repeat: Name: Private-Subnet
- Availability Zone: ap-south-1a (or no preference)
- IPv4 CIDR: 10.0.2.0/24

- Create.



The screenshot shows two screenshots of the AWS VPC console. The top screenshot is the 'Create subnet' wizard, step 1: Set VPC settings. It shows a VPC ID dropdown set to 'vpc-0abe30c608f06d209 (MyVPC)'. The 'Associated VPC CIDRs' section shows an IPv4 CIDR of '10.0.0.0/16'. The bottom screenshot shows the 'Internet gateways (1)' list, with one item: 'igw-05be258e36227b4d8' attached to 'vpc-099026679a4aa54c6'.

**Create subnet**

**VPC**

**VPC ID**  
Create subnets in this VPC.  
vpc-0abe30c608f06d209 (MyVPC)

**Associated VPC CIDRs**

**IPv4 CIDRs**  
10.0.0.0/16

**Subnet settings**  
Specify the CIDR blocks and Availability Zone for the subnet.

**Subnet 1 of 1**

**Subnet name**  
Create a tag with a key of 'Name' and a value that you specify.  
Private-Subnet

**Availability Zone** Info  
Choose the zone in which your subnet will reside, or let Amazon choose one for you.  
No preference

**IPv4 VPC CIDR block** Info  
Choose the VPCs IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.  
10.0.0.0/16

**IPv4 subnet CIDR block**  
10.0.2.0/24  
256 IPs

**Tags - optional**

**Key** Name Value - optional Private-Subnet

**Add new tag**  
You can add 49 more tags.  
Remove

**Add new subnet**

**Create subnet**

**Internet gateways (1)**

igw-05be258e36227b4d8

**Actions** Create internet gateway

## 2. Set Up Internet Gateway and Route Tables

### 1. Create Internet Gateway (IGW):

- Go to Internet gateways > Create internet gateway.
- Name: MyIGW

- Create.
  - Attach to VPC: Select MyVPC.
2. Create Public Route Table:
- Go to Route tables > Create route table.
  - Name: publicrt
  - VPC: MyVPC
  - Create.
  - Edit routes: Add 0.0.0.0/0 > Target: MyIGW.
  - Subnet associations: Associate with Public-Subnet.
3. Create Private Route Table:
- Repeat: Name: privatert
  - VPC: MyVPC
  - Create.
  - Subnet associations: Associate with Private-Subnet.
  - (No internet route needed for private.)

**Create internet gateway** Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

**Internet gateway settings**

**Name tag**  
Creates a tag with a key of 'Name' and a value that you specify.

**Tags - optional**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key  Value - optional    You can add 49 more tags.

**Internet gateways (2) Info**

The following internet gateway was created: igw-0d0aa4030a16b2f56 - MyIGW. You can now attach to a VPC to enable the VPC to communicate with the internet.

Name	Internet gateway ID	State	VPC ID	Owner
igw-05be258e56227b4d8	Attached	vpc-099025679ada54c6	395958253352	
MyIGW	Detached	-	395938233352	

The screenshot shows the AWS VPC console. The user is in the 'Attach to VPC' step for an Internet Gateway (igw-0d0aa4030a16b2f56). They are selecting a VPC to attach to. A search bar shows 'vpc-0abe30c608f06d209'. The 'Available VPCs' list shows 'vpc-0abe30c608f06d209 - MyVPC'. The 'Attach to a VPC' button is at the top right.

The screenshot shows the 'Route tables' section of the AWS VPC console. It lists two route tables: 'rtb-007ac05a970390f41' and 'rtb-03fd65655240c1081'. The table includes columns for Name, Route table ID, Explicit subnet associations, Edge associations, Main, VPC, and Owner ID. The 'Actions' and 'Create route table' buttons are at the top right.

The screenshot shows the 'Create route table' wizard. In the 'Route table settings' step, the user is creating a route table with the name 'publicrt'. They are selecting the VPC 'vpc-0abe30c608f06d209 (MyVPC)'. In the 'Tags' step, they are adding a tag 'publicrt' with the value 'publicrt'. The 'Create route table' button is at the bottom right.

The screenshot shows the 'Route tables' section of the AWS VPC console. It displays the newly created route table 'rtb-0c318b930dc4ee740 | publicrt'. The 'Details' tab shows the route table ID, VPC, and other basic information. The 'Routes' tab shows a single route entry: 'Destination: 10.0.0.0/16, Target: local, Status: Active, Propagated: No'. The 'Actions' and 'Create Route Table' buttons are at the top right.

**VPC dashboard** < EC2 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
- NAT gateways
- Peering connections

**Security**

- Network ACLs
- Security groups

**PrivateLink and Lattice**

**Details info**

Route table ID: rtb-0c318b930dc4ee740

Main: No

Owner ID: 395958233552

Explicit subnet associations: subnet-0a7ef4db7ad627bf5 / Public-Subnet

Edge associations: -

**Routes** | Subnet associations | Edge associations | Route propagation | Tags

**Routes (1)**

Destination	Target	Status	Propagated	Route Origin
10.0.0.0/16	local	Active	No	CreateRouteTable

**Subnet associations**

**Explicit subnet associations (1)**

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
Public-Subnet	subnet-0a7ef4db7ad627bf5	10.0.1.0/24	-

**Subnets without explicit associations (1)**

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
Private-Subnet	subnet-06fb930c6cc3edcb	10.0.2.0/24	-

**Routes** | Subnet associations | Edge associations | Route propagation | Tags

**Edit routes**

Destination: 10.0.0.0/16

Target: local

Status: Active

Propagated: No

Route Origin: CreateRouteTable

Target: Internet Gateway

Target: igw-0d0aa4030a16b2f5d

**Add route** | Remove | Cancel | Preview | Save changes

**Route Table Details (rtb-0c318b930dc4ee740):**

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	igw-0ff0aa4030a16b2f56	Active	No	Create Route
10.0.0.0/16	local	Active	No	Create Route Table

**Create Route Table (privater):**

**Route Table Settings:**

- Name: privater
- VPC: MyVPC

**Tags:**

- Key: Name, Value: privater

**Route Table Details (rtb-0286dde397164e104):**

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-06f89930c6cc5edcb	10.0.2.0/24	-

### 3. Create Security Groups

#### 1. Bastion-SG (for public bastion host):

- Go to Security Groups > Create security group.
- Name: Bastion-SG
- Description: bastionsg

- VPC: Your default VPC (or MyVPC if matching PDF).
  - Inbound: SSH (TCP/22) from <your-ip>/32 (e.g., 43.230.47.86/32).
  - Outbound: All traffic (default).
  - Create.
2. Private-EC2-SG (for private server):
- Name: Private-EC2-SG
  - Description: for App/DB EC2s
  - VPC: Same as above.
  - Inbound: SSH (TCP/22) from Bastion-SG (select by ID).
  - Outbound: All traffic.
  - Create.

**Security Groups (11) Info**

Find security groups by attribute or tag

Actions Export security groups to CSV Create security group

Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound
sg-03a5a7c985fc09802		default	vpc-0ab3e30c609ff6d209	default VPC security group	395938233352	1 Perr
sg-0f54a1f1bcc13d3f		launch-wizard-4	vpc-099026679a4aa54c6	launch-wizard-4 created 2025-08-04T0...	395938233352	3 Perr
sg-034504c00958ca655		default	vpc-099026679a4aa54c6	default VPC security group	395938233352	1 Perr
sg-007ccb14a64ab2e9d		launch-wizard-5	vpc-099026679a4aa54c6	launch-wizard-5 created 2025-08-06T0...	395938233352	3 Perr
sg-013365fe5f8fb9eb6		launch-wizard-6	vpc-099026679a4aa54c6	launch-wizard-6 created 2025-08-06T0...	395938233352	3 Perr
sg-0ba127884d4fb0ca8		launch-wizard-7	vpc-099026679a4aa54c6	launch-wizard-7 created 2025-08-11T0...	395938233352	3 Perr
sg-0763a1e5b9602bb28		launch-wizard-1	vpc-099026679a4aa54c6	launch-wizard-1 created 2025-08-01T0...	395938233352	3 Perr
sg-07a94787a811db1cf		launch-wizard-2	vpc-099026679a4aa54c6	launch-wizard-2 created 2025-08-01T0...	395938233352	3 Perr
sg-0e6e6521b4e559480a		launch-wizard-9	vpc-099026679a4aa54c6	launch-wizard-9 created 2025-08-12T0...	395938233352	3 Perr
sg-0170352309f4970d		launch-wizard-3	vpc-099026679a4aa54c6	launch-wizard-3 created 2025-08-04T0...	395938233352	3 Perr
sg-09f0c63f5ff9ec45		launch-wizard-8	vpc-099026679a4aa54c6	launch-wizard-8 created 2025-08-12T0...	395938233352	3 Perr

Select a security group

**Create security group Info**

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

**Basic details**

Security group name Info

Private-EC2-SG

Name cannot be edited after creation.

Description Info

Allows SSH access to developers

VPC Info

vpc-099026679a4aa54c6

**Inbound rules Info**

Type	Protocol	Port range	Source	Description - optional
SSH	TCP	22	Custom	sg-0056d93dc95012c78

**Outbound rules Info**

Type	Protocol	Port range	Destination	Description - optional
All traffic	All	All	Custom	0.0.0.0/0

for App/DB EC2s

VPC info  
vpc-099026679a4a54c6

Inbound rules info

Type info: SSH  
Protocol info: TCP  
Port range info: 22  
Source info: Custom  
Description - optional info: sg-0056d95d95012c78  
Delete

Add rule

Outbound rules info

Type info: All traffic  
Protocol info: All  
Port range info: All  
Destination info: Custom  
Description - optional info: 0.0.0.0/0  
Delete

Add rule

⚠ Rules with destination of 0.0.0.0/0 or ::/0 allow your instances to send traffic to any IPv4 or IPv6 address. We recommend setting security group rules to be more restrictive and to only allow traffic to specific known IP addresses.

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Create security group

## 4. Launch EC2 Instances

### 1. Launch Bastion Host (Public):

- Go to EC2 > Instances > Launch an instance.
- Name: Bastion-Host
- AMI: Amazon Linux 2023 (ami-0861f4e788f5069dd)
- Instance type: t3.micro
- Key pair: Harry (existing)
- Network: VPC MyVPC, Subnet Public-Subnet, Auto-assign public IP: Enable
- Security group: Bastion-SG
- Storage: 8 GiB gp3 (default)
- Launch.

aws Search [Alt+S] Account ID: 9999-123-1112 Harry-404

## Compute

# Amazon Elastic Compute Cloud (EC2)

Create, manage, and monitor virtual servers in the cloud.

Amazon Elastic Compute Cloud (Amazon EC2) offers the broadest and deepest compute platform, with over 600 instance types and a choice of the latest processors, storage, networking, operating systems, and purchase models to help you best match the needs of your workload.

**Launch a virtual server**

- Launch instance
- View dashboard
- Get started walkthroughs

Get started tutorial

### Benefits and features

**EC2 offers ultimate scalability and control**

Fully resizable compute capacity to support virtually any workload. This service is best if you want:

- Highest level of control of the entire technology stack, allowing full integration with all AWS services
- Wide variety of server size options
- Wide variety of operating systems to choose from including Linux, Windows, and macOS
- Global scalability

Find out more about EC2

### Use cases

**Run cloud-native and enterprise applications**

Amazon EC2 delivers secure, reliable, high-performance, and cost-effective compute infrastructure to meet demanding

**Scale for HPC applications**

Access the on-demand infrastructure and capacity you need to run HPC applications faster and cost-effectively.

### Additional actions

View running instances

Migrate a server

### Pricing (US)

EC2 pricing options

Use the AWS pricing calculator

Manage budgets

### Additional resources

Documentation

EC2 Global View

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AM Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

aws Search [Alt+S] Account ID: 9999-123-1112 Harry-404

## VPC

### Security Groups

sg-0056d93dc95012c78 - Bastion-SG

Successfully associated vpc-0abe30c608f06d209 with sg-0056d93dc95012c78.

**sg-0056d93dc95012c78 - Bastion-SG**

**Details**

Security group name	sg-0056d93dc95012c78
Owner	395938233552
Inbound rules count	1 Permission entry
Description	bastion
VPC ID	vpc-099026679a4aa5fc6

**Inbound rules** **Outbound rules** **Sharing - new** **VPC associations - new** **Tags**

**VPC associations**

Security group ID	VPC ID	VPC owner ID	Status	Status reason
sg-0056d93dc95012c78	vpc-0abe30c608f06d209	395938233552	Associated	-

**Actions**

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Network ACLs

Security groups

PrivateLink and Lattice

Getting started Updated

Endpoints Updated

Endpoint services

aws Search [Alt+S] Account ID: 9999-123-1112 Harry-404

## EC2

### Instances

Launch an instance

It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices

**Launch an instance**

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags**

Name: Bastion-Host

Add additional tags

**Application and OS Images (Amazon Machine Image)**

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose Browse more AMIs.

Search our full catalog including 1000s of application and OS images

Recent AMIs

- Amazon Linux
- macOS
- Ubuntu
- Windows
- Red Hat
- SUSE Linux
- Debian

Amazon Machine Image (AMI)

Amazon Linux 2023 kernel-6.1 AMI

**Summary**

Number of instances: 1

Software image (AMI): Amazon Linux 2023 AMI 2023.8.2...read more

Virtual server type (instance type): t3.micro

Firewall (security group): Bastion-SG

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

Launch instance

Preview code

The screenshot shows the AWS EC2 'Launch an instance' wizard. The configuration is as follows:

- Architecture:** 64-bit (x86)
- Boot mode:** uefi-preferred
- AMI ID:** ami-0861f4e788f5069dd
- Publish Date:** 2025-08-15
- Username:** ec2-user
- Verified provider:** (green checkmark)
- Instance type:** t3.micro (selected, Family: t3, 2 vCPU, 1 GiB Memory, Current generation: true, On-Demand Linux base pricing: 0.0112 USD per Hour, On-Demand SUSE base pricing: 0.0112 USD per Hour, On-Demand Windows base pricing: 0.0204 USD per Hour, On-Demand Ubuntu Pre base pricing: 0.0147 USD per Hour, On-Demand RHEL base pricing: 0.04 USD per Hour)
- Additional costs apply for AMIs with pre-installed software**
- Key pair (login):** Harry (selected)
- Network settings:**
  - VPC - required:** vpc-0abe50e50f0f6d209 (MyVPC)
  - Subnet:** subnet-0x7ef4db7ad627bf5 (selected, Zone type: Availability Zone, IP addresses available: 251, CIDR: 10.0.1.0/24)
  - Auto-assign public IP:** Enabled
- Summary:** Number of instances: 1
- Software image (AMI):** Amazon Linux 2023 AMI 2023.8.2... (read more)
- Virtual server type (instance type):** t3.micro
- Firewall (security group):** Bastion-SG
- Storage (volumes):** 1 volume(s) - 8 GiB
- Launch instance** button

## 2. Launch Private Server (for MariaDB):

- Name: Private-Server
- AMI: Same as above
- Instance type: t3.micro
- Key pair: Harry
- Network: VPC MyVPC, Subnet Private-Subnet, Auto-assign public IP: Disable
- Security group: Private-EC2-SG
- Launch.

Note IPs: Bastion gets a public IP; Private gets only private IP (e.g., 10.0.1.122).

It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices

[Take a walkthrough](#) [Do not show me this message again.](#)

**Launch an instance** [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags** [Info](#)

Name:  [Add additional tags](#)

**Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

[Recents](#) [Quick Start](#)

[Amazon Linux](#) [macOS](#) [Ubuntu](#) [Windows](#) [Red Hat](#) [SUSE Linux](#) [Debian](#)

[Search](#) [Browse more AMIs](#)  
Including AMIs from AWS, Marketplace and the Community

**Amazon Machine Image (AMI)**

Amazon Linux 2023 kernel-4.1 AMI  
ami-0861f4e78bf5069dd (64-bit (x86), uefi-preferred) / ami-0fad831b9405c6fb (64-bit (Arm), uefi)  
Virtualization: hvm ENA enabled: true Root device type: ebs

[Free tier eligible](#)

**Description**

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

Architecture	Boot mode	AMI ID	Publish Date	Username	Verified provider
64-bit (x86)	uefi-preferred	ami-0861f4e78bf5069dd	2025-08-13	ec2-user	<a href="#">Verified provider</a>

**Instance type** [Info](#) [Get advice](#)

**t3.micro**  
Family: t3 - 2 vCPU, 1 GB Memory, Current generation: true, On-Demand Linux base pricing: 0.0112 USD per Hour  
On-Demand SUSE base pricing: 0.0112 USD per Hour, On-Demand Windows base pricing: 0.0204 USD per Hour  
On-Demand Ubuntu Pro base pricing: 0.0147 USD per Hour, On-Demand RHEL base pricing: 0.04 USD per Hour

[Free tier eligible](#) [All generations](#) [Compare instance types](#)

**Key pair (login)** [Info](#)

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**:  [Create new key pair](#)

**Network settings** [Info](#)

**VPC - required** [Info](#)

vpc-0abe50c608f0f6d209 (MyVPC) [Create new VPC](#)

**Subnet** [Info](#)

subnet-01ef4db7ad6279b5 Public-Subnet [Create new subnet](#)

**Auto-assign public IP** [Info](#)

Disable

[CloudShell](#) [Feedback](#)

[Summary](#)

Number of instances: [Info](#)  
1

**Software Image (AMI)**  
Amazon Linux 2023 AMI 2023.8.2... [read more](#)  
ami-0861f4e78bf5069dd

**Virtual server type (instance type)**  
t3.micro

**Firewall (security group)**  
Private-EC2-SG

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

[Cancel](#) [Launch instance](#) [Preview code](#)

The screenshot shows the AWS EC2 'Launch an instance' wizard and the 'Instances' page. The wizard on the left shows the following configuration:

- Key pair name - required:** Harry
- Network settings:**
  - VPC - required:** vpc-0abe30c608f06d209 (MyVPC) 10.0.0.0/16
  - Subnet:** subnet-0a7ef4db7ad627bf5 (Public-Subnet) VPC vpc-0abe30c608f06d209 Owner: 39593823352 Availability Zone: ap-south-1a (apst1-a2z) IP addresses available: 250 CIDR: 10.0.1.0/24
  - Auto-assign public IP:** Disable
  - Firewall (security groups):** Create security group (radio button selected)
  - Common security groups:** Select security groups (dropdown menu)
  - Advanced network configuration:** (button)
- Configure storage:** 1x 8 GiB gp3 Root volume, 3000 IOPS, Not encrypted

The 'Instances' page on the right shows the launched instance:

- Instance summary for i-0ce584efe22588634 (Private-Server):**
  - Instance ID: i-0ce584efe22588634
  - IPv6 address: -
  - Hostname type: IP name: ip-10-0-1-122.ap-south-1.compute.internal
  - Answer private resource DNS name: -
  - Auto-assigned IP address: -
  - IAM Role: -
  - IMDsv2: Required
  - Operator: -
- Details:** (selected tab) Status and alarms, Monitoring, Security, Networking, Storage, Tags
- Instance details:** (sub-section)
  - AMI ID: ami-0861f4e788f5069dd
  - Monitoring: disabled
- Platform details:** Linux/UNIX

## 5. Connect and Install MariaDB on Private EC2

1. SSH to Bastion from local machine:

```
bash
```

```
chmod 400 Harry.pem
```

```
ssh -i "Harry.pem" ec2-user@<Bastion-Public-IP>
```

2. From Bastion, copy key and SSH to Private EC2:

```
bash
```

```
scp -i Harry.pem Harry.pem ec2-user@<Private-IP>:~/
```

```
chmod 400 Harry.pem
```

```
ssh -i "Harry.pem" ec2-user@<Private-IP>
```

```
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Hope Foundation>cd Downloads

C:\Users\Hope Foundation\Downloads>ssh -i "Harry.pem" ec2-user@35.154.92.80
The authenticity of host '35.154.92.80 (35.154.92.80)' can't be established.
ED25519 key fingerprint is SHA256:Shl7glTTfBf21uem/sjITbd6Y2vKEzRvRTKwNhw1k4U.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '35.154.92.80' (ED25519) to the list of known hosts.

          #_
  ~\_ #####_      Amazon Linux 2023
  ~~ \#####\_
  ~~   \###|
  ~~     \#/ ___  https://aws.amazon.com/linux/amazon-linux-2023
  ~~       \~'-'>
  ~~~      /
  ~~~.._  _/
  ~~~/_/_/
  _/m/'[ec2-user@ip-10-0-1-139 ~]$ |
```

```
PS C:\Users\Hope Foundation\Downloads> scp -i Harry.pem Harry.pem ec2-user@3.111.198.87:~/  
Harry.pem                                         100% 1678      54.6KB/s  00:00  
  
^C[ec2-user@ip-10-0-1-169 ~]$sh -i "Harry.pem" ec2-user@10.0.1.122~/  
@@@@@@@@@@@@@@@@@@@CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  
@           WARNING: UNPROTECTED PRIVATE KEY FILE!           @  
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  
Permissions 0664 for 'Harry.pem' are too open.  
It is required that your private key files are NOT accessible by others.  
This private key will be ignored.  
Load key "Harry.pem": bad permissions  
ec2-user@10.0.1.122: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).  
[ec2-user@ip-10-0-1-169 ~]$ chmod 400 Harry.pem  
[ec2-user@ip-10-0-1-169 ~]$ ssh -i "Harry.pem" ec2-user@10.0.1.122  
      #_  
  ~\_ #####_          Amazon Linux 2023  
  ~\_ #####\_  
  ~\# ##|  
  ~\# / _-- https://aws.amazon.com/linux/amazon-linux-2023  
  ~\# ' ' ->  
  ~~~ /  
  ~. - / /  
  / / /  
  _/ m /  
[ec2-user@ip-10-0-1-122 ~]$ |
```

### 3. On Private EC2, install MariaDB:

bash

```
sudo dnf update -y
sudo dnf install -y mariadb105-server
sudo systemctl start mariadb
sudo systemctl enable mariadb
```

```
[ec2-user@ip-10-0-1-169 ~]$ sudo yum update -y
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-10-0-1-169 ~]$ sudo yum install -y mariadb-server
Last metadata expiration check: 0:00:05 ago on Thu Aug 28 08:32:28 2025.
No match for argument: mariadb-server
Error: Unable to find a match: mariadb-server
[ec2-user@ip-10-0-1-169 ~]$ sudo yum install -y mariadb-server
Last metadata expiration check: 0:00:31 ago on Thu Aug 28 08:32:28 2025.
No match for argument: mariadb-server
Error: Unable to find a match: mariadb-server
[ec2-user@ip-10-0-1-169 ~]$ 
[ec2-user@ip-10-0-1-169 ~]$ sudo curl -sS https://downloads.mariadb.com/MariaDB/mariadb_repo_setup | sudo bash
sudo yum install -y MariaDB-server
bash: line 1: html: No such file or directory
bash: line 2: syntax error near unexpected token `<'
'ash: line 2: <head><title>301 Moved Permanently</title></head>
Last metadata expiration check: 0:01:25 ago on Thu Aug 28 08:32:28 2025.
No match for argument: MariaDB-server
Error: Unable to find a match: MariaDB-server
[ec2-user@ip-10-0-1-169 ~]$ 
[ec2-user@ip-10-0-1-169 ~]$ sudo yum update -y
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-10-0-1-169 ~]$ sudo dnf install mariadb105-server
Last metadata expiration check: 0:03:09 ago on Thu Aug 28 08:32:28 2025.
Dependencies resolved.
=====


| Package                    | Architecture | Version                    | Repository  | Size  |
|----------------------------|--------------|----------------------------|-------------|-------|
| <hr/>                      |              |                            |             |       |
| Installing:                |              |                            |             |       |
| mariadb105-server          | x86_64       | 3:10.5.29-1.amzn2023.0.1   | amazonlinux | 10 M  |
| Installing dependencies:   |              |                            |             |       |
| mariadb-connector-c        | x86_64       | 3.3.10-1.amzn2023.0.1      | amazonlinux | 211 k |
| mariadb-connector-c-config | noarch       | 3.3.10-1.amzn2023.0.1      | amazonlinux | 9.9 k |
| mariadb105                 | x86_64       | 3:10.5.29-1.amzn2023.0.1   | amazonlinux | 1.5 M |
| mariadb105-common          | x86_64       | 3:10.5.29-1.amzn2023.0.1   | amazonlinux | 28 k  |
| mariadb105-errmsg          | x86_64       | 3:10.5.29-1.amzn2023.0.1   | amazonlinux | 212 k |
| mysql-selinux              | noarch       | 1.0.4-2.amzn2023.0.3       | amazonlinux | 36 k  |
| perl-B                     | x86_64       | 1.80-477.amzn2023.0.7      | amazonlinux | 177 k |
| perl-DBD-MariaDB           | x86_64       | 1.22-1.amzn2023.0.4        | amazonlinux | 153 k |
| perl-DBI                   | x86_64       | 1.643-7.amzn2023.0.3       | amazonlinux | 700 k |
| perl-Data-Dumper           | x86_64       | 2.174-460.amzn2023.0.2     | amazonlinux | 55 k  |
| perl-File-Copy             | noarch       | 2.34-477.amzn2023.0.7      | amazonlinux | 20 k  |
| perl-FileHandle            | noarch       | 2.03-477.amzn2023.0.7      | amazonlinux | 15 k  |
| perl-Math-BigInt           | noarch       | 1:1.9998.39-2.amzn2023.0.2 | amazonlinux | 202 k |
| perl-Math-BigRat           | noarch       | 0.2624-500.amzn2023.0.2    | amazonlinux | 42 k  |
| perl-Math-Complex          | noarch       | 1.59-477.amzn2023.0.7      | amazonlinux | 46 k  |



---



```
Total download size: 20 M
Installed size: 117 M
Is this ok [y/N]: y
Downloading Packages:
(1/22): mariadb-connector-c-config-3.3.10-1.amzn2023.0.1.noarch.rpm          274 kB/s | 9.9 kB   00:00
(2/22): mariadb-connector-c-3.3.10-1.amzn2023.0.1.x86_64.rpm                  4.7 MB/s | 211 kB   00:00
(3/22): mariadb105-10.5.29-1.amzn2023.0.1.x86_64.rpm                         26 MB/s | 1.5 MB   00:00
(4/22): mariadb105-common-10.5.29-1.amzn2023.0.1.x86_64.rpm                  1.4 MB/s | 28 kB   00:00
(5/22): mariadb105-cracklib-password-check-10.5.29-1.amzn2023.0.1.x86_64.rpm  586 kB/s | 13 kB   00:00
(6/22): mariadb105-errmsg-10.5.29-1.amzn2023.0.1.x86_64.rpm                  8.9 MB/s | 212 kB   00:00
(7/22): mariadb105-gssapi-server-10.5.29-1.amzn2023.0.1.x86_64.rpm            768 kB/s | 15 kB   00:00
(8/22): mariadb105-backup-10.5.29-1.amzn2023.0.1.x86_64.rpm                  64 MB/s | 6.0 MB   00:00
(9/22): mariadb105-server-utils-10.5.29-1.amzn2023.0.1.x86_64.rpm            6.1 MB/s | 207 kB   00:00
(10/22): mysql-selinux-1.0.4-2.amzn2023.0.3.noarch.rpm                      1.6 MB/s | 36 kB   00:00
(11/22): perl-B-1.80-477.amzn2023.0.7.x86_64.rpm                           6.1 MB/s | 177 kB   00:00
(12/22): perl-DBD-MariaDB-1.22-1.amzn2023.0.4.x86_64.rpm                  5.5 MB/s | 153 kB   00:00
(13/22): perl-DBI-1.643-7.amzn2023.0.3.x86_64.rpm                          19 MB/s | 700 kB   00:00
(14/22): perl-Data-Dumper-2.174-460.amzn2023.0.2.x86_64.rpm                 2.3 MB/s | 55 kB   00:00
(15/22): mariadb105-server-10.5.29-1.amzn2023.0.1.x86_64.rpm                63 MB/s | 10 MB   00:00
(16/22): perl-File-Copy-2.34-477.amzn2023.0.7.noarch.rpm                   406 kB/s | 20 kB   00:00
(17/22): perl-FileHandle-2.03-477.amzn2023.0.7.noarch.rpm                  329 kB/s | 15 kB   00:00
(18/22): perl-Math-Complex-1.59-477.amzn2023.0.7.noarch.rpm                2.1 MB/s | 46 kB   00:00
(19/22): perl-Math-BigRat-0.2624-500.amzn2023.0.2.noarch.rpm                1.7 MB/s | 42 kB   00:00
(20/22): perl-Math-BigInt-1.9998.39-2.amzn2023.0.2.noarch.rpm                6.4 MB/s | 202 kB   00:00
(21/22): perl-base-2.27-477.amzn2023.0.7.noarch.rpm                         908 kB/s | 16 kB   00:00
(22/22): perl-Sys-Hostname-1.23-477.amzn2023.0.7.x86_64.rpm                 681 kB/s | 16 kB   00:00
-----
Total   59 MB/s | 20 MB   00:00
Running transaction check
```


```

#### 4. Test MariaDB:

```
bash  
sudo mysql -u root
```

#### 5. SQL commands:

```
sql  
  
CREATE DATABASE testdb;  
  
USE testdb;  
  
CREATE TABLE users (id INT AUTO_INCREMENT PRIMARY  
KEY, name VARCHAR(50), email VARCHAR(100));  
  
INSERT INTO users (name, email) VALUES ('Alice',  
'alice@example.com'), ('Bob', 'bob@example.com');  
  
SELECT * FROM users;  
  
EXIT;
```

```
[ec2-user@ip-10-0-1-169 ~]$ sudo mysql -u root  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 4  
Server version: 10.5.29-MariaDB MariaDB Server  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
MariaDB [(none)]> CREATE DATABASE testdb;  
Query OK, 1 row affected (0.000 sec)  
  
MariaDB [(none)]> |
```

```
MariaDB [(none)]> CREATE DATABASE testdb;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> USE testdb;
Database changed
MariaDB [testdb]> CREATE TABLE users (
    ->     id INT PRIMARY KEY AUTO_INCREMENT,
    ->     name VARCHAR(50),
    ->     email VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.008 sec)
```

```
MariaDB [testdb]> INSERT INTO users (name, email) VALUES ('Alice', 'alice@example.com');
Query OK, 1 row affected (0.002 sec)

MariaDB [testdb]> INSERT INTO users (name, email) VALUES ('Bob', 'bob@example.com');
Query OK, 1 row affected (0.001 sec)

MariaDB [testdb]> |
MariaDB [testdb]> INSERT INTO users (name, email) VALUES ('Alice', 'alice@example.com');
Query OK, 1 row affected (0.002 sec)

MariaDB [testdb]> INSERT INTO users (name, email) VALUES ('Bob', 'bob@example.com');
Query OK, 1 row affected (0.001 sec)

MariaDB [testdb]> SELECT * FROM users;
+---+-----+-----+
| id | name  | email           |
+---+-----+-----+
| 1  | Alice  | alice@example.com |
| 2  | Bob    | bob@example.com  |
+---+-----+-----+
2 rows in set (0.000 sec)

MariaDB [testdb]> exit
Bye
```

## Delete MariaDB from Bastion EC2

```
bash
```

```
sudo dnf remove mariadb105-server mariadb mariadb-common -y
sudo rm -rf /var/lib/mysql
sudo rm -rf /etc/my.cnf /etc/my.cnf.d
```

This removes the MariaDB server package and all configuration/data directories.

```
[ec2-user@ip-10-0-1-169 ~]$ sudo dnf remove mariadb105-server mariadb mariadb-common -y
sudo rm -rf /var/lib/mysql
sudo rm -rf /etc/my.cnf /etc/my.cnf.d
No match for argument: mariadb
No match for argument: mariadb-common
Dependencies resolved.
=====


| Package                                                                        | Architecture | Version                  | Repository                                     | Size  |
|--------------------------------------------------------------------------------|--------------|--------------------------|------------------------------------------------|-------|
| <hr/>                                                                          |              |                          |                                                |       |
| Removing:                                                                      |              |                          |                                                |       |
| <b>mariadb105-server</b>                                                       | x86_64       | 3:10.5.29-1.amzn2023.0.1 | @amazonlinux                                   | 68 M  |
| <hr/>                                                                          |              |                          |                                                |       |
| Removing unused dependencies:                                                  |              |                          |                                                |       |
| <b>mariadb-connector-c</b>                                                     | x86_64       | 3.3.10-1.amzn2023.0.1    | @amazonlinux                                   | 584 k |
| <b>mariadb-connector-c-config</b>                                              | noarch       | 3.3.10-1.amzn2023.0.1    | @amazonlinux                                   | 497   |
| <b>mariadb105</b>                                                              | x86_64       | 3:10.5.29-1.amzn2023.0.1 | @amazonlinux                                   | 18 M  |
| <b>mariadb105-backup</b>                                                       | x86_64       | 3:10.5.29-1.amzn2023.0.1 | @amazonlinux                                   | 23 M  |
| <b>mariadb105-common</b>                                                       | x86_64       | 3:10.5.29-1.amzn2023.0.1 | @amazonlinux                                   | 179 k |
| <b>mariadb105-cracklib-password-check</b>                                      | x86_64       | 3:10.5.29-1.amzn2023.0.1 | @amazonlinux                                   | 16 k  |
| <b>mariadb105-errmsg</b>                                                       | x86_64       | 3:10.5.29-1.amzn2023.0.1 | @amazonlinux                                   | 2.6 M |
| <b>mariadb105-gssapi-server</b>                                                | x86_64       | 3:10.5.29-1.amzn2023.0.1 | @amazonlinux                                   | 19 k  |
| <b>mariadb105-server-utils</b>                                                 | x86_64       | 3:10.5.29-1.amzn2023.0.1 | @amazonlinux                                   | 798 k |
| <b>mysql-selinux</b>                                                           | noarch       | 1.0.4-2.amzn2023.0.3     | @amazonlinux                                   | 49 k  |
| <b>perl-B</b>                                                                  | x86_64       | 1.80-477.amzn2023.0.7    | @amazonlinux                                   | 491 k |
| <b>perl-DBD-MariaDB</b>                                                        | x86_64       | 1.22-1.amzn2023.0.4      | @amazonlinux                                   | 378 k |
| <b>perl-DBI</b>                                                                | x86_64       | 1.643-7.amzn2023.0.3     | @amazonlinux                                   | 1.9 M |
| <b>perl-Data-Dumper</b>                                                        | x86_64       | 2.174-460.amzn2023.0.2   | @amazonlinux                                   | 109 k |
| <b>perl-File-Copy</b>                                                          | noarch       | 2.34-477.amzn2023.0.7    | @amazonlinux                                   | 21 k  |
| <b>perl-FileHandle</b>                                                         | noarch       | 2.03-477.amzn2023.0.7    | @amazonlinux                                   | 10 k  |
| <hr/>                                                                          |              |                          |                                                |       |
| <b>perl-FileHandle-2.03-477.amzn2023.0.7.noarch</b>                            |              |                          | <b>perl-Math-BigInt-1:1.9998.39-2</b>          |       |
| <b>perl-Math-BigRat-0.2624-500.amzn2023.0.2.noarch</b>                         |              |                          | <b>perl-Math-Complex-1.59-477.amzn2023.0.2</b> |       |
| <b>perl-Sys-Hostname-1.23-477.amzn2023.0.7.x86_64</b>                          |              |                          | <b>perl-base-2.27-477.amzn2023.0.7</b>         |       |
| <hr/>                                                                          |              |                          |                                                |       |
| <b>Complete!</b>                                                               |              |                          |                                                |       |
| [ec2-user@ip-10-0-1-169 ~]\$ rm ~/Harry.pem                                    |              |                          |                                                |       |
| rm: remove write-protected regular file '/home/ec2-user/Harry.pem'? y          |              |                          |                                                |       |
| [ec2-user@ip-10-0-1-169 ~]\$ Connection to 3.111.198.87 closed by remote host. |              |                          |                                                |       |
| Connection to 3.111.198.87 closed.                                             |              |                          |                                                |       |
| <hr/>                                                                          |              |                          |                                                |       |
| C:\Users\Hope Foundation\Downloads>                                            |              |                          |                                                |       |


```

## Terminate EC2 Instances

Go to EC2 Console:

- Select the Bastion and Private EC2 instances.
- Click Instance state → Terminate.

## Remove Security Groups

Go to VPC → Security Groups:

- Select **Bastion-SG** and **Private-EC2-SG**.
- Click Actions → Delete.

Security Groups (2/13) [View details](#) [Actions](#) [Export security group to CSV](#) [Create security group](#)

Name	Security group ID	Security group name	VPC ID	Description	Owner	Int
-	sg-0a5a7c985fc08802	default	vpc-0a8e30c608f06d209	default V	395958233352	1 F
-	sg-0f54a0f1bccc13d3f	launch-wizard-4	vpc-099026679a4aa54c6	launch-w	395958233352	3 F
-	sg-0b8e1228b4dfe0ca8	launch-wizard-7	vpc-099026679a4aa54c6	launch-w	395958233352	3 F
-	sg-0c170552309f4970d	launch-wizard-3	vpc-099026679a4aa54c6	launch-w	395958233352	3 F
<input checked="" type="checkbox"/>	sg-0f598b855f1e320fa1	Private-EC2-SG	vpc-099026679a4aa54c6	for App/DB EC2s	395958233352	1 F
-	sg-034504c00958c655	default	vpc-099026679a4aa54c6	default VPC security group	395958233352	1 F
-	sg-007ccb1a464ab209d	launch-wizard-5	vpc-099026679a4aa54c6	launch-wizard-5 created 2025-08-0610...	395958233352	3 F
<input checked="" type="checkbox"/>	sg-0056d93d495012c78	Bastion-SG	vpc-099026679a4aa54c6	bastionsg	395958233352	1 F
-	sg-01363fe5f8db9eb6	launch-wizard-6	vpc-099026679a4aa54c6	launch-wizard-6 created 2025-08-0610...	395958233352	3 F
-	sg-0763a1e5b9602b28	launch-wizard-1	vpc-099026679a4aa54c6	launch-wizard-1 created 2025-08-0110...	395958233352	3 F
-	sg-0794787a811db1cf	launch-wizard-2	vpc-099026679a4aa54c6	launch-wizard-2 created 2025-08-0110...	395958233352	3 F
-	sg-0e6e6521b4959480a	launch-wizard-9	vpc-099026679a4aa54c6	launch-wizard-9 created 2025-08-1210...	395958233352	3 F
-	sg-09d063f3f5ff9ec45	launch-wizard-8	vpc-099026679a4aa54c6	launch-wizard-8 created 2025-08-1210...	395958233352	3 F

Security Groups: sg-0056d93d495012c78, sg-0698d853f1e320fa1

sg-0698d853f1e320fa1 - Private-EC2-SG

Details | Inbound rules | Outbound rules | Sharing - new | VPC associations - new | Tags

VPC associations

Security group ID	VPC ID	VPC owner ID	Status	Status reason
sg-0698d853f1e320fa1	vpc-0a8e30c608f06d209	395958233352	Associated	-

sg-0056d93d495012c78 - Bastion-SG

Details | Inbound rules | Outbound rules | Sharing - new | VPC associations - new | Tags

VPC associations

Security group ID	VPC ID	VPC owner ID	Status	Status reason
sg-0056d93d495012c78	vpc-0a8e30c608f06d209	395958233352	Associated	-

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Successfully dissociated vpc-0a8e30c608f06d209 from sg-0056d93d495012c78.

Security Groups (2/13) [View details](#) [Actions](#) [Export security groups to CSV](#) [Create security group](#)

Name	Security group ID	Security group name	VPC ID	Description	Owner	Int
-	sg-0a5a7c985fc08802	default	vpc-0a8e30c608f06d209	default VPC security group	395958233352	1 F
-	sg-0f54a0f1bccc13d3f	launch-wizard-4	vpc-099026679a4aa54c6	launch-wizard-4 created 2025-08-0410...	395958233352	3 F
<input checked="" type="checkbox"/>	sg-0f598b855f1e320fa1	Bastion-SG	vpc-099026679a4aa54c6	bastionsg	395958233352	0 F
-	sg-0b8e1228b4dfe0ca8	launch-wizard-7	vpc-099026679a4aa54c6	launch-wizard-7 created 2025-08-1110...	395958233352	3 F
<input checked="" type="checkbox"/>	sg-0056d93d495012c78	Private-EC2-SG	vpc-099026679a4aa54c6	for App/DB EC2s	395958233352	0 F
-	sg-0c170552309f4970d	launch-wizard-3	vpc-099026679a4aa54c6	launch-wizard-3 created 2025-08-0410...	395958233352	3 F
-	sg-007ccb1a464ab209d	launch-wizard-5	vpc-099026679a4aa54c6	default V	395958233352	1 F
-	sg-0056d93d495012c78	default	vpc-099026679a4aa54c6	launch-wizard-5 created 2025-08-0610...	395958233352	3 F
-	sg-01363fe5f8db9eb6	launch-wizard-6	vpc-099026679a4aa54c6	launch-wizard-6 created 2025-08-0610...	395958233352	3 F
-	sg-0763a1e5b9602b28	launch-wizard-1	vpc-099026679a4aa54c6	launch-wizard-1 created 2025-08-0110...	395958233352	3 F
-	sg-0794787a811db1cf	launch-wizard-2	vpc-099026679a4aa54c6	launch-wizard-2 created 2025-08-0110...	395958233352	3 F
-	sg-0e6e6521b4959480a	launch-wizard-9	vpc-099026679a4aa54c6	launch-wizard-9 created 2025-08-1210...	395958233352	3 F
-	sg-09d063f3f5ff9ec45	launch-wizard-8	vpc-099026679a4aa54c6	launch-wizard-8 created 2025-08-1210...	395958233352	3 F

Delete security groups

Are you sure that you want to delete these security groups?

- sg-0f598b855f1e320fa1 - Private-EC2-SG
- sg-0056d93d495012c78 - Bastion-SG

To confirm deletion, enter delete below.

deleted

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

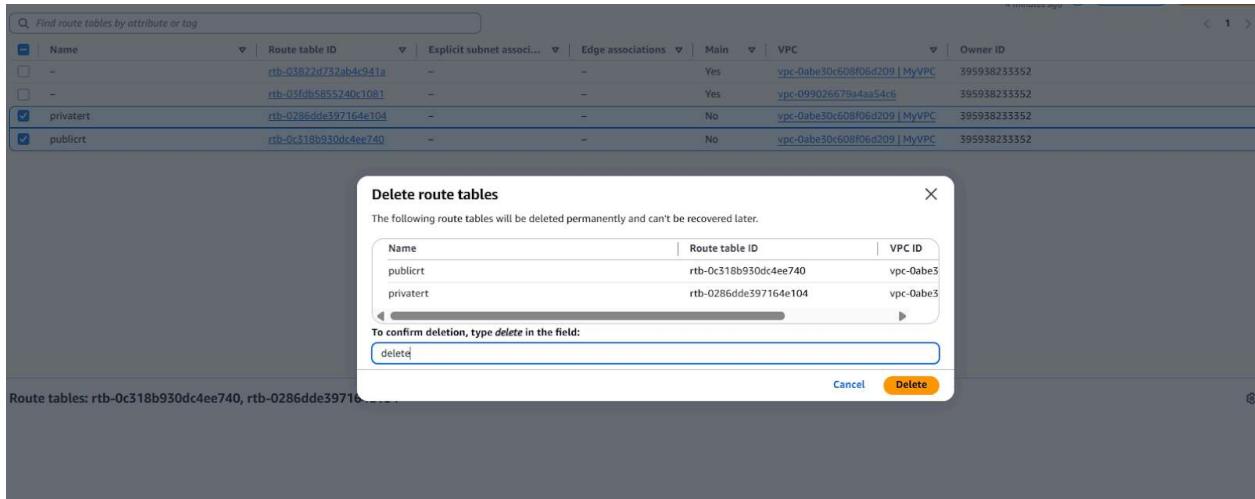
Security Groups: sg-0698d853f1e320fa1, sg-0056d93d495012c78

# Delete Route Tables

Go to VPC → Route Tables:

- Select **Public-RT** and **Private-RT**.

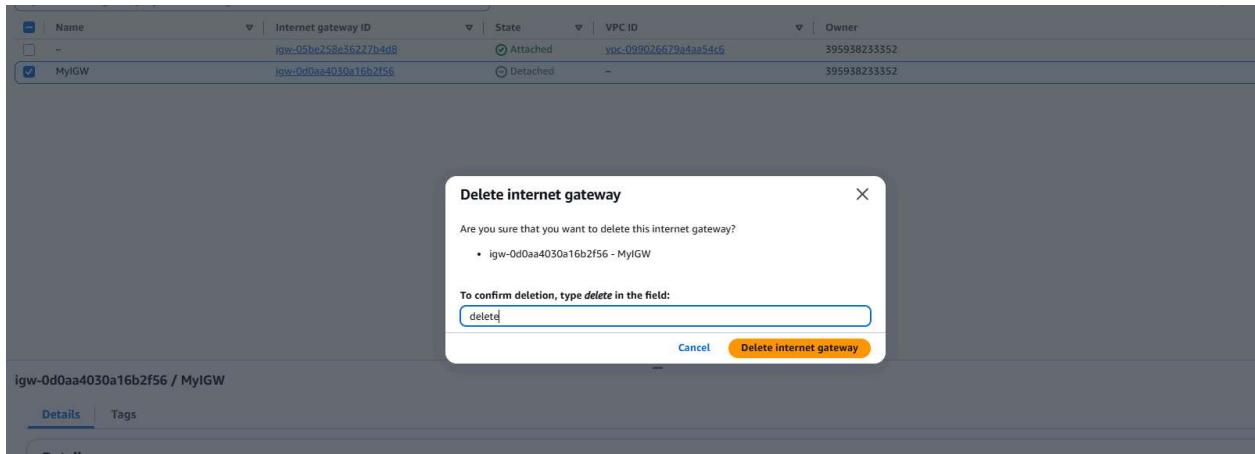
- Click Actions → Delete.



## Delete Internet Gateway (IGW)

Go to VPC → Internet Gateways:

- Detach from VPC if needed.
- Click Actions → Delete.



## Delete Subnets and VPC

Go to VPC → Subnets:

- Select [Public-Subnet](#) and [Private-Subnet](#).
- Click Actions → Delete.

Go to VPC → Your VPCs:

- Select [MyVPC](#).

- Click Actions → Delete VPC.

Subnets (2/5) [Info](#)

Find subnets by attribute or tag

Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR	IPv6 CIDR	IPv6 CIDR association ID
-	subnet-0b6ce01347fb83f6d	Available	vpc-099026679a4aa54c6	Off	172.31.32.0/20	-	-
<input checked="" type="checkbox"/> Public-Subnet	subnet-0a7ef4db7ad627bf5	Available	vpc-0abe30c608f06d209   MyVPC	Off	10.0.1.0/24	-	-
-	subnet-0aef9503b0783fb1	Available	vpc-099026679a4aa54c6	Off	172.31.16.0/20	-	-
-	subnet-0f63379312b4a9659	Available	vpc-099026679a4aa54c6	Off	172.31.0.0/20	-	-
<input checked="" type="checkbox"/> Private-Subnet	subnet-06f89930c6cc3edcb	Available	vpc-0abe30c608f06d209   MyVPC	Off	10.0.2.0/24	-	-

Last updated 3 minutes ago [Actions](#) [Create subnet](#)

Subnets: subnet-0a7ef4db7ad627bf5, subnet-06f89930c6cc3edcb

Delete subnets

The following subnets will be deleted permanently and cannot be recovered later.

Name	Subnet ID	State	VPC ID
Private-Subnet	subnet-06f89930c6cc3edcb	Available	vpc-0abe30c608f06d209
Public-Subnet	subnet-0a7ef4db7ad627bf5	Available	vpc-0abe30c608f06d209

To confirm deletion, type **delete** in the field

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

Subnets: subnet-0a7ef4db7ad627bf5, subnet-06f89930c6cc3edcb

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Your VPCs (1/2) [Info](#)

Find VPCs by attribute or tag

Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table
-	vpc-099026679a4aa54c6	Available	Off	172.31.0.0/16	-	dopt-0b9df20e9dfb80e55	rtb-03fb5855240c1081
<input checked="" type="checkbox"/> MyVPC	vpc-0abe30c608f06d209	Available	Off	10.0.0.0/16	-	dopt-0b9df20e9dfb80e55	rtb-03822d732d4c941a

Last updated 1 minute ago [Actions](#) [Create VPC](#)

vpc-0abe30c608f06d209 / MyVPC

Delete VPC

Will be deleted

This VPC will be deleted permanently and cannot be recovered later:

Name	VPC ID	State
<input checked="" type="checkbox"/> MyVPC	vpc-0abe30c608f06d209	Available

To confirm deletion, type **delete** in the field:

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

Resource	How to Delete
MariaDB	Remove from EC2 with <code>dnf remove</code> and delete data
Key files (.pem)	Remove from EC2 with <code>rm filename.pem</code>
EC2 Instances	Terminate from EC2 Console
Key Pair in AWS	Delete from EC2 → Key Pairs
Security Groups	Delete from VPC → Security Groups
Elastic IP	Release from EC2 → Elastic IPs
Route Tables	Delete from VPC → Route Tables
Internet Gateway	Detach & delete from VPC → IGWs
Subnets	Delete from VPC → Subnets
VPC	Delete from VPC → Your VPCs