

ASSIGNMENT 2

WORKING WITH EC2

A. Create an ec2 instance, Enable termination protection and display instance details.

- Choose AMI
- Choose CPU
- Configure no of instances and vpc
- Enable termination protection
- Add storage
- Add tags
- Add security group
- Review and launch

Launch instance wizard | EC2 M... x

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

aws Services Search for services, features, marketplace products, and docs [Alt+S]

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parameter

Quick Start

1 to 41 of 41 AMIs

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only ⓘ

Amazon Linux

Free tier eligible

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-04db49c0fb2215364 (64-bit x86) / ami-0086e63bfa49c3b49 (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

☒ 64-bit (x86)
☐ 64-bit (Arm)

Red Hat

Free tier eligible

Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-06a0b4e3b7eb7a300 (64-bit x86) / ami-0cbe04a3ce796c98e (64-bit Arm)

Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

☒ 64-bit (x86)
☐ 64-bit (Arm)

SUSE Linux Enterprise Server 45 SP2 (HVM), SSD Volume Type - ami-0b2ac6e4d907475 (64-bit x86) / ami-0b2ac6e4d907475 (64-bit Arm)

Select

☒ 64-bit (x86)
☐ 64-bit (Arm)

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Launch instance wizard | EC2 M... x

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs ⓘ	Memory (GiB)	Instance Storage (GB) ⓘ	EBS-Optimized Available ⓘ	Network Performance ⓘ	IPv6 Support ⓘ
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

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Launch instance wizard | EC2 M...

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances1Launch into Auto Scaling Group

Purchasing optionRequest Spot Instances

Networkvpc-1cc92977 (default)Create new VPC

SubnetNo preference (default subnet in any Availability Zone)Create new subnet

Auto-assign Public IPUse subnet setting (Enable)

Placement groupAdd instance to placement group

Capacity ReservationOpen

Domain join directoryNo directoryCreate new directory

IAM roleNoneCreate new IAM role

Shutdown behaviorStop

CancelPreviousReview and LaunchNext: Add Storage

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 3: Configure Instance Details

Shutdown behaviorStop

Stop - Hibernate behaviorEnable hibernation as an additional stop behavior

Enable termination protectionProtect against accidental termination

MonitoringEnable CloudWatch detailed monitoringAdditional charges apply.

TenancyShared - Run a shared hardware instanceAdditional charges will apply for dedicated tenancy.

Credit specificationUnlimitedAdditional charges may apply

File systemsAdd file systemCreate new file system

Advanced Details

EnclaveEnable

Metadata accessibleEnabled

CancelPreviousReview and LaunchNext: Add Storage

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Launch instance wizard | EC2 M...

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encryption ⓘ
Root	/dev/xvda	snap-0bdcc50b291983cea	8	General Purpose SSD (gp2) ▾	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt ▾

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

CancelPreviousReview and LaunchNext: Add Tags

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Launch instance wizard | EC2 M...

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances ⓘ	Volumes ⓘ	Network Interfaces ⓘ
Name	Server1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

CancelPreviousReview and LaunchNext: Configure Security Group

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Launch instance wizard | EC2 M...

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a **new** security group
☐ Select an **existing** security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Warning

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

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Launch instance wizard | EC2 M...

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Launch Status

Initiating Instance Launches

Please do not close your browser while this is loading

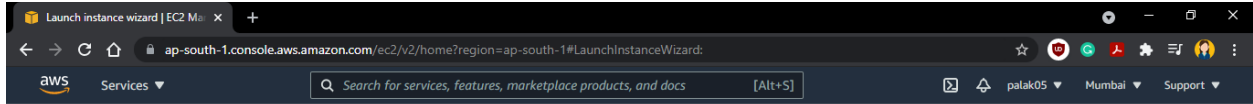
Creating security groups... Successful

Authorizing inbound rules... Successful


Initiating launches...


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Launch Status

 **Your instances are now launching**
The following instance launches have been initiated: [i-05749d0e825c34cb0](#) [View launch log](#)

 **Get notified of estimated charges**
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

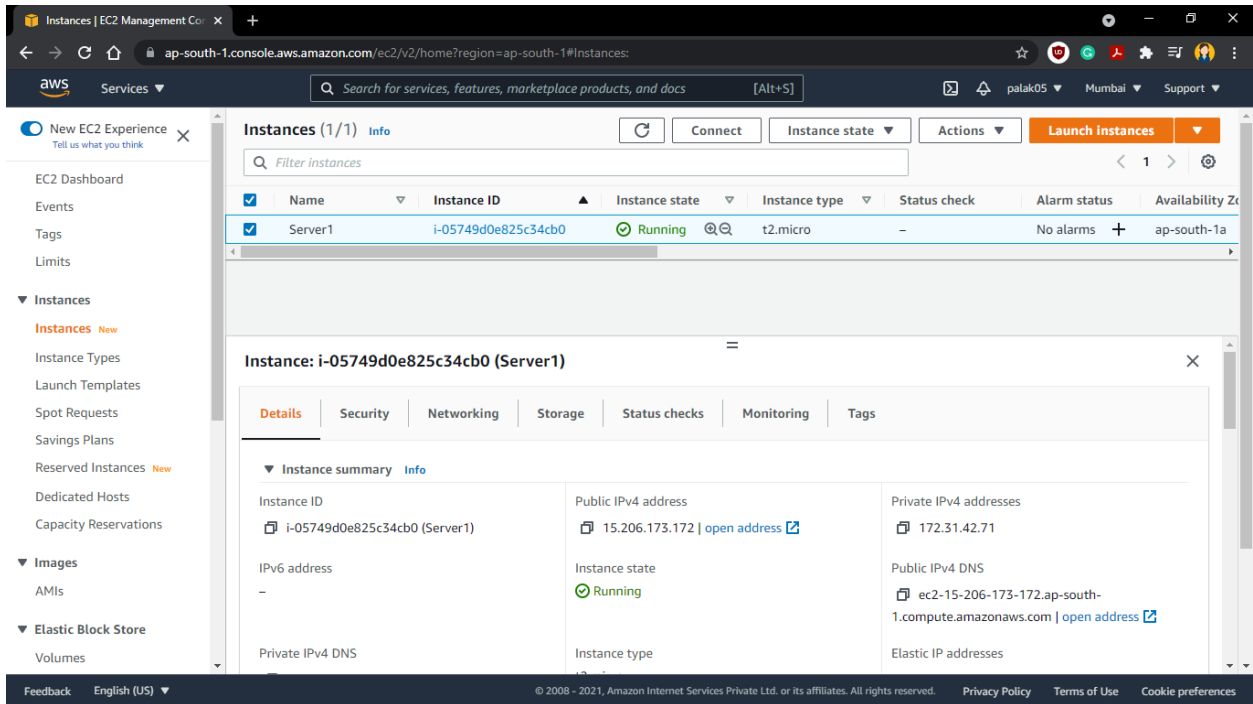
▼ Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)

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Instances | EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

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Services

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Spot Requests

Savings Plans

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AMIs

Elastic Block Store

Volumes

Instances (1/1) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Server1	i-05749d0e825c34cb0	Running	t2.micro	-	No alarms	ap-south-1a

Instance: i-05749d0e825c34cb0 (Server1)

VPC ID
vpc-1cc92977

Subnet ID
subnet-710f0619

Platform
Amazon Linux (Inferred)

Platform details
Linux/UNIX

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more

AMI ID
ami-04db49c0fb2215364

AMI name
amzn2-ami-hvm-2.0.20210721.2-x86_64-gp2

IAM Role
-

Monitoring
disabled

Termination protection
Enabled

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Instances | EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

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Instances (1/1) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Server1	i-05749d0e825c34cb0	Running	t2.micro	-	No alarms	ap-south-1a

Instance: i-05749d0e825c34cb0 (Server1)

Platform
Amazon Linux (Inferred)

Platform details
Linux/UNIX

Launch time
Wed Aug 04 2021 23:06:35 GMT+0530 (India Standard Time) (less than a minute)

Stop-hibernate behavior
disabled

AMI ID
ami-04db49c0fb2215364

AMI name
amzn2-ami-hvm-2.0.20210721.2-x86_64-gp2

AMI location
amazon/amzn2-ami-hvm-2.0.20210721.2-x86_64-gp2

AMI Launch index
0

Monitoring
disabled

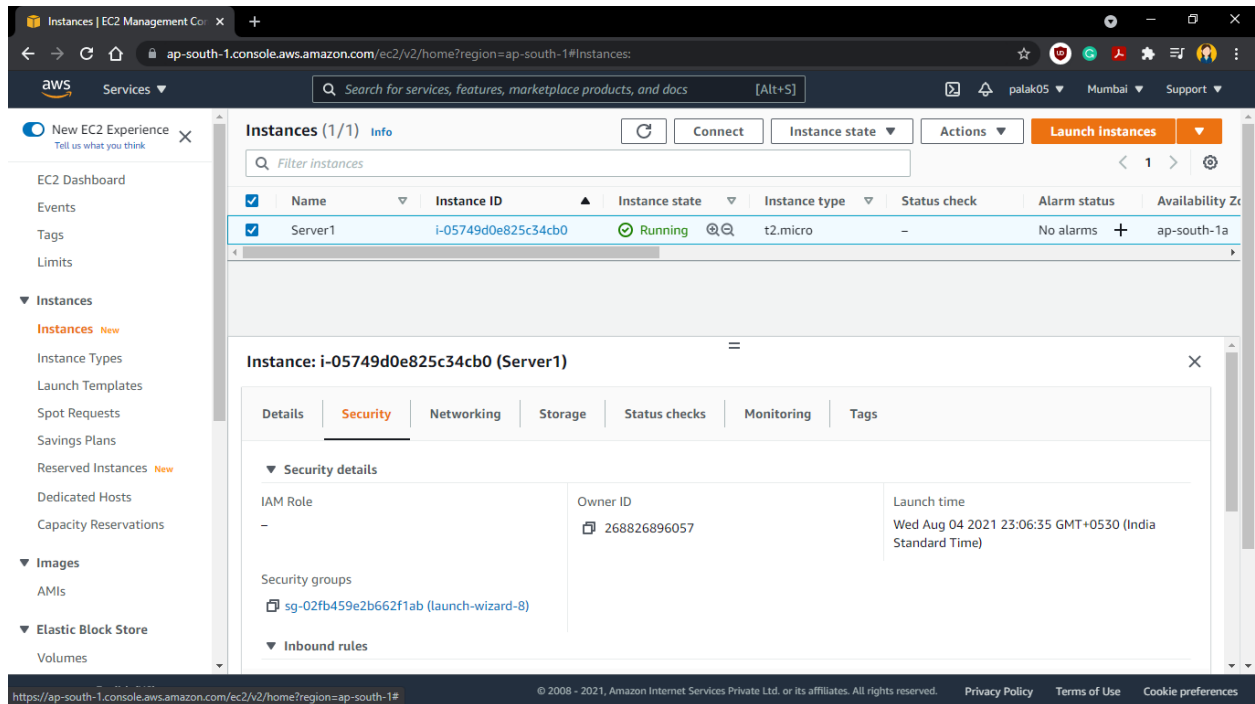
Termination protection
Enabled

Lifecycle
normal

Key pair name
cloud

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B. Terminate your instance after disabling termination protection

- Firstly I tried terminating instance with termination protection enabled
- It showed error
- I disabled the protection
- It got terminated successfully

Instances | EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

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Failed to terminate an instance: The instance i-05749d0e825c34cb0 may not be terminated. Modify its 'disableApiTermination' instance attribute and try again.

Instances (1/1) Info

Filter instances

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	Server1	i-05749d0e825c34cb0	Running	t2.micro	-	No alarms	ap-south-1a

Instance: i-05749d0e825c34cb0 (Server1)

Details Security Networking Storage Status checks Monitoring Tags

Security details

IAM Role

Owner ID

Launch time

Wed Aug 04 2021 23:06:35 GMT+0530 (India Standard Time)

Security groups

sg-02fb459e2b662f1ab (launch-wizard-8)

Inbound rules

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Instances | EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

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Instances (1/1) Info

Filter instances

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	Server1	i-05749d0e825c34cb0	Running	t2.micro	-	No alarms	ap-south-1a

Instance: i-05749d0e825c34cb0 (Server1)

Details Security Networking Storage Status checks Monitoring Tags

Security details

IAM Role

Owner ID

Launch time

Wed Aug 04 2021 23:06:35 GMT+0530 (India Standard Time)

Security groups

sg-02fb459e2b662f1ab (launch-wizard-8)

Inbound rules

Actions

- Connect
- View details
- Manage instance state
- Instance settings
- Networking
- Security
- Image and templates
- Monitor and troubleshoot

Attach to Auto Scaling Group

Change instance type

Change Nitro Enclaves

Change termination protection

Change shutdown behavior

Change credit specification

Modify instance placement

Modify Capacity Reservation settings

Edit user data

Manage tags

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Change termination protection

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#ChangeTerminationProtection:instanceId=i-05749d0e825c34cb0

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EC2 > Instances > i-05749d0e825c34cb0 > Change termination protection

Change termination protection [Info](#)


Enable termination protection to prevent your instance from being accidentally terminated.

Instance ID

i-05749d0e825c34cb0 (Server1)

Termination protection

☐ Enable

**Termination protection disabled.**
The instance is no longer protected against accidental termination. If the instance is terminated, data stored on ephemeral storage is lost.

Cancel

Save

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By: Palak Singhania
Due Date: 4 Aug 2021

This screenshot shows the AWS Management Console for the 'ap-south-1' region. A green banner at the top indicates 'Disabled termination protection for i-05749d0e825c34cb0'. The 'Instances' page shows one instance, 'Server1', with ID 'i-05749d0e825c34cb0', in a 'Running' state. The instance type is 't2.micro' and it has passed 2/2 status checks. A modal window is open with the text 'Select an instance above'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Server1	i-05749d0e825c34cb0	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a

This screenshot shows the AWS Management Console for the 'ap-south-1' region. A green banner at the top indicates 'Successfully terminated i-05749d0e825c34cb0'. The 'Instances' page shows one instance, 'Server1', with ID 'i-05749d0e825c34cb0', in a 'Shutting-down' state. The instance type is 't2.micro' and it has passed 2/2 status checks. A modal window is open showing the details of the instance 'i-05749d0e825c34cb0 (Server1)'. The instance is in the 'Shutting-down' state.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Server1	i-05749d0e825c34cb0	Shutting-down	t2.micro	2/2 checks passed	No alarms	ap-south-1a

Instance: i-05749d0e825c34cb0 (Server1)		
Details	Security	Networking
Instance summary		
Instance ID i-05749d0e825c34cb0 (Server1)	Public IPv4 address 15.206.173.172 open address	Private IPv4 addresses 172.31.42.71
IPv6 address -	Instance state Shutting-down	Public IPv4 DNS ec2-15-206-173-172.ap-south-1.compute.amazonaws.com Open address

THANK YOU!!