

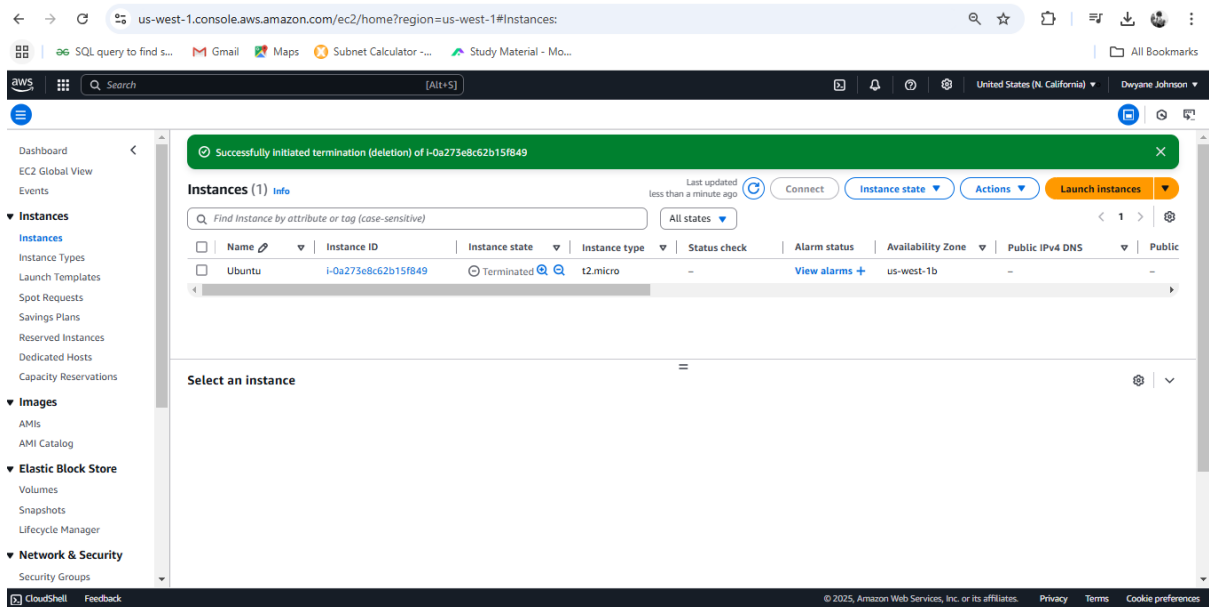
Submitted by: Mohammed Saquib

Date: 18/01/2025

Batch no: DevOps SA2412033

L1 - Demonstrate the AWS EC2 Ubuntu Instance Creation steps and connect to EC2 Instance using Mobaxterm.

Step1: Creating an Ubuntu



us-west-1.console.aws.amazon.com/ec2/home?region=us-west-1#LaunchInstances:

SQL query to find s... Gmail Maps Subnet Calculator -... Study Material - Mo... All Bookmarks

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United States (N. California) Dwayne Johnson

EC2 > Instances > Launch an instance

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

e.g. My Web Server

Add additional tags

Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

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

Recents Quick Start

Amazon Linux

ubuntu

Microsoft

Red Hat

SUSE Linux

Debian

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...read more

ami-07d2649d67db8e8900

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and

Cancel

Launch instance

Preview code

CloudShell Feedback

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EC2 > Instances > Launch an instance

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

Ubuntu_California

Create new key pair

Network settings

Network

vpc-00253d94073dc1147

Subnet

No preference (Default subnet in any availability zone)

Auto-assign public IP

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

Summary

Number of instances

1

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Canonical, Ubuntu, 24.04, amd64...read more

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Launch instance

Preview code

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EC2 > Instances > Launch an instance

Network settings

Network | Info
vpc-00253d94073dc1147

Subnet | Info
No preference (Default subnet in any availability zone)

Auto-assign public IP | Info
Enable
Additional charges apply when outside of free tier allowance

Firewall (security groups) | Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

☒ Allow SSH traffic from
Helps you connect to your instance

☐ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

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.

Edit

Summary

Number of instances | Info

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Canonical, Ubuntu, 24.04, amd64...read more
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Cancel **Launch instance** Preview code

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EC2 > Instances > Launch an instance

Launching Instance
Creating security group rules 23%

Details

Please wait while we launch your instance.
Do not close your browser while this is loading.

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us-west-1.console.aws.amazon.com/ec2/home?region=us-west-1#LaunchInstances:

Success
Successfully initiated launch of instance (i-0ce62f7477bbd7f3b)

Launch log

Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
[Create EBS snapshot policy](#)

Manage detailed monitoring
Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2

Create Load Balancer
Create an application, network gateway or classic Elastic Load Balancer

Create AWS budget
AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a

Manage CloudWatch alarms
Create or update Amazon CloudWatch alarms for the instance.

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us-west-1.console.aws.amazon.com/ec2/home?region=us-west-1#Instances:

Successfully initiated termination (deletion) of i-0a273e8c62b15f849

Instances (1/2) info
Find instance by attribute or tag (case-sensitive)
All states

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
<input type="checkbox"/>	Ubuntu	i-0a273e8c62b15f849	Terminated	t2.micro	–	View alarms +	us-west-1b	–	–
<input checked="" type="checkbox"/>		i-0ce62f7477bbd7f3b	Running	t2.micro	Initializing	View alarms +	us-west-1b	ec2-3-101-148-58.us-w...	3.101.

i-0ce62f7477bbd7f3b

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary info
Instance ID
i-0ce62f7477bbd7f3b
IPV6 address
–
Public IPv4 address
3.101.148.58 | [open address](#)
Instance state
Running
Private IPv4 addresses
172.31.4.223
Public IPv4 DNS
ec2-3-101-148-58.us-west-1.compute.amazonaws.com | [open address](#)

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Step 2: Connecting to EC2 Instance using MobaXterm

