

Roll No.: 26

Name: Manas Divekar

Date: 11/08/2023

Assignment NO.1

Aim: To make a EC2 Machine in AWS.

Theory:

Amazon Elastic Compute Cloud (Amazon EC2) provides ondemand, scalable computing capacity in the Amazon Web Services (AWS) Cloud. Using Amazon EC2 reduces hardware costs so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. You can add capacity (scale up) to handle compute-heavy tasks, such as monthly or yearly processes, or spikes in website traffic. When usage decreases, you can reduce capacity (scale down) again.

Output:

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Home

Resources

EC2 Global view

You are using the following Amazon EC2 resources in the Europe (Stockholm) Region:

Instances (running)	0	Auto Scaling Groups	0
Dedicated Hosts	0	Elastic IPs	0
Instances	2	Key pairs	0
Load balancers	0	Placement groups	0
Security groups	3	Snapshots	0
Volumes	0		

Learn more about the latest in AWS Compute from AWS re:Invent by viewing the EC2 Videos.

Account attributes

Default VPC

vpc-0be0abbbe55935485

Settings

- EBS encryption
- Zones
- EC2 Serial Console
- Default credit specification
- Console experiments

Explore AWS

Amazon GuardDuty Malware Protection

GuardDuty now provides agentless malware detection in Amazon EC2 & EC2 container workloads. Learn more

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eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances

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

aws-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

Summary

Number of instances

1

Software image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-0989fb15ce71ba39e

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel Launch instance

Review commands

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

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Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
ami-0989fb15ce71ba39e (64-bit (x86)) / ami-0ebb6753c095cb52a (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-05-16

Architecture

AMI ID

64-bit (x86) ami-0989fb15ce71ba39e

Free tier eligible

Summary

Number of instances

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more
ami-0989fb15ce71ba39e

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel Launch instance

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EC2 > Instances > Launch an instance

Launching instance

Launch initiation

69%

Details

Please wait while we launch your instance.

Do not close your browser while this is loading.

S3 Management Console x Amazon S3 x Amazon Simple Storage Service x Instances | EC2 Management Console x

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances

Gmail YouTube Maps

Search [Alt+S]

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New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Successfully terminated i-070f83832a0eed746,i-0e8c25fb9e7220b48

Instances (3) Info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	-	i-070f83832a0eed746	Terminated	t3.micro	-	No alarms	eu-north-1b
<input type="checkbox"/>	-	i-0e8c25fb9e7220b48	Terminated	t3.micro	-	No alarms	eu-north-1b
<input type="checkbox"/>	aws-server	i-019bcd4ecd10082e4	Running	t3.micro	Initializing	No alarms	eu-north-1b

Select an instance

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S3 Management Console x Amazon S3 x Amazon Simple Storage Service x Connect to instance | EC2 Management Console x EC2 Instance Connect x

eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=eu-north-1&connType=standard&instanceId=i-019bcd4ecd10082e4&osUser=ubuntu&sshPort=22

Gmail YouTube Maps

Search [Alt+S]

Stockholm manasdivakar

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See <https://ubuntu.com/esm> or run: `sudo pro status`

The list of available updates is more than a week old.

To check for new updates run: `sudo apt update`

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in `/usr/share/doc/*/copyright`.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.

ubuntu@ip-172-31-38-197:~\$

i-019bcd4ecd10082e4 (aws-server)

PublicIPs: 16.171.136.136 PrivateIPs: 172.31.38.197

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Conclusion:

Hence learned and implemented the steps to create an EC2 Machine.