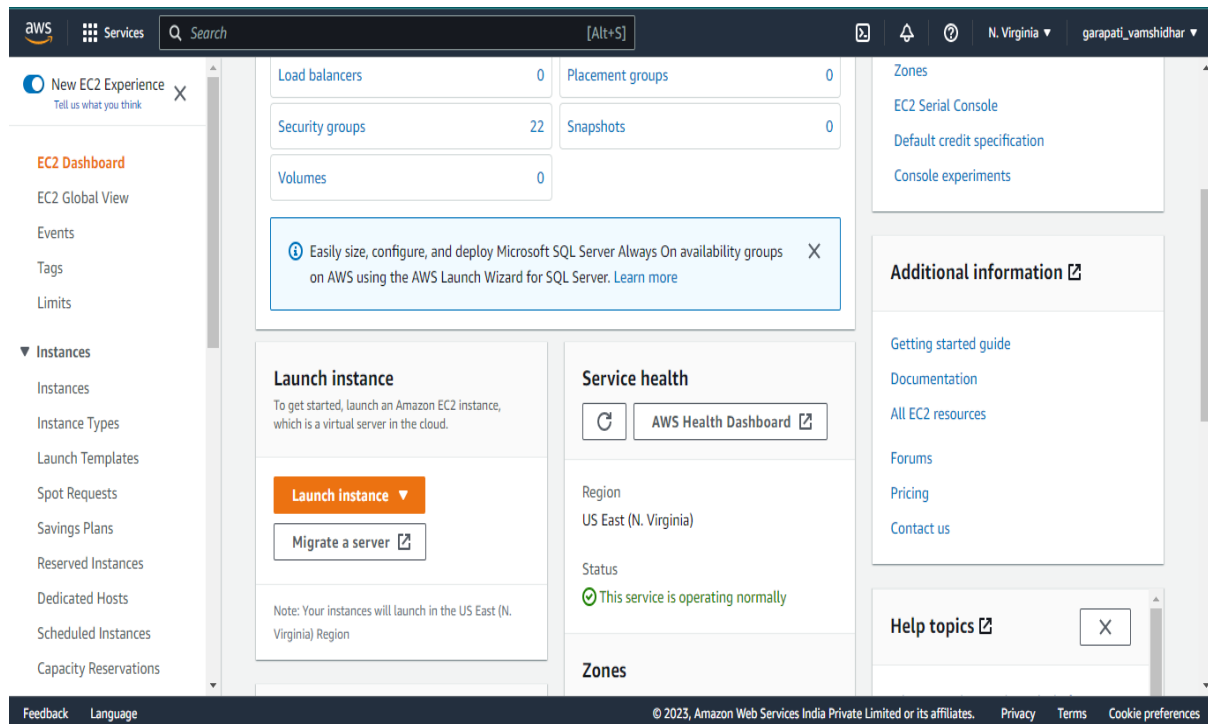
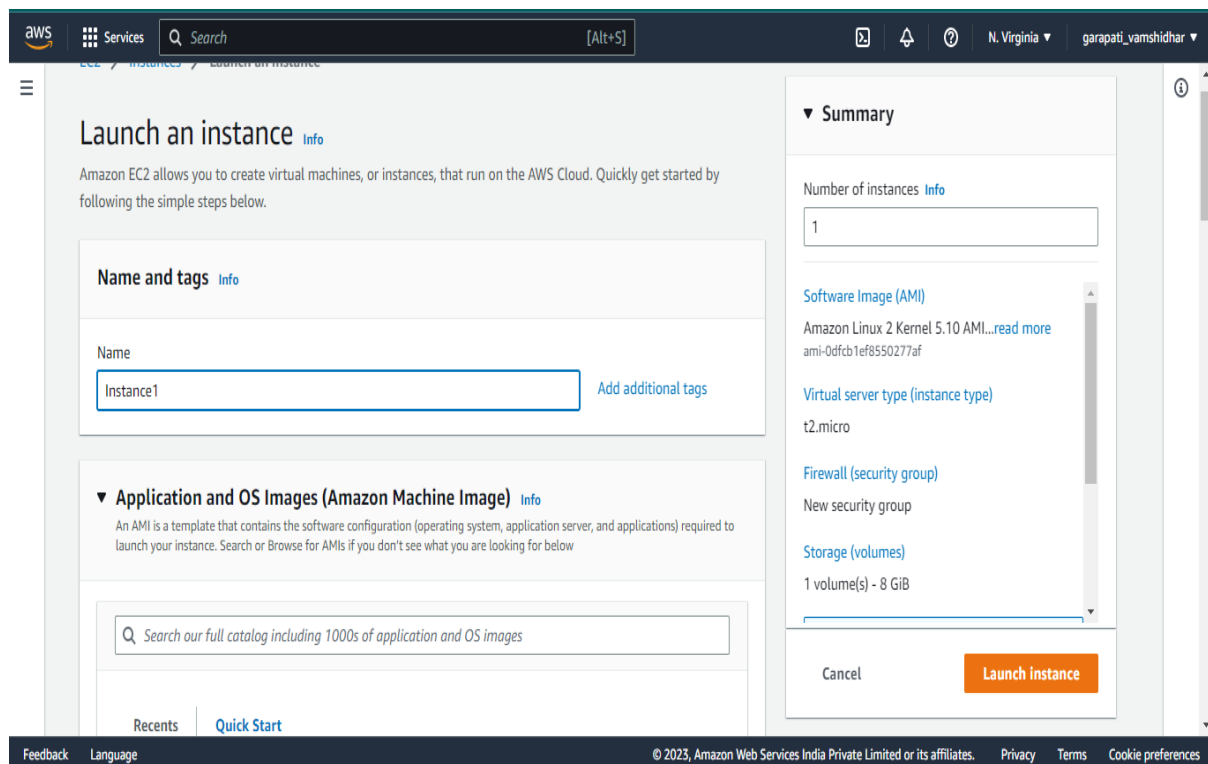


Assignment: Please Insert Snapshot of as follow

1. EC2 Instance Launch Page



2. EC2 Name and Tag Creation



3. EC2 AMI Selection

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

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 macOS Ubuntu Windows Red Hat S

Amazon Linux

ami-0dfcb1ef8550277af (64-bit (x86)) / ami-0cd7323ab3e63805f (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)

ami-0dfcb1ef8550277af

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel **Launch Instance**

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type Free tier eligible

ami-0dfcb1ef8550277af (64-bit (x86)) / ami-0cd7323ab3e63805f (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20230207.0 x86_64 HVM gp2

Architecture **AMI ID**

64-bit (x86) ami-0dfcb1ef8550277af **Verified provider**

Instance type [Info](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory

On-Demand Windows pricing: 0.0162 USD per Hour

On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand RHEL pricing: 0.0716 USD per Hour

On-Demand Linux pricing: 0.0116 USD per Hour

[Compare instance types](#)

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)

ami-0dfcb1ef8550277af

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel **Launch Instance**

4. EC2 Key Pair Creation

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Key pair name

ins1-key

The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

☒ .pem
For use with OpenSSH

☐ .ppk
For use with PuTTY

Cancel Create key pair

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5. EC2 Security Group Creation (SSH,HTTP,HTTPS)

▼ Network settings Info

VPC - required Info

vpc-044950d87417385e3 (default) ↕

Subnet Info

subnet-096d6b4f8ab6c33ed default-2 ↕ Create new subnet

Auto-assign public IP Info

Enable

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

Security group name - required

launch-wizard-19

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-./[]+=&:~*`

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0dfcb1ef8550277af

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel Launch Instance

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Description - required Info
launch-wizard-19 created 2023-02-27T11:10:54.250Z

Inbound security groups rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0) Remove

Type Info Protocol Info Port range Info
ssh TCP 22

Source type Info Source Info Description - optional Info
Anywhere Add CIDR, prefix list or security e.g. SSH for admin desktop
0.0.0.0/0 X

▼ Security group rule 2 (TCP, 443, 0.0.0.0/0) Remove

Type Info Protocol Info Port range Info
HTTPS TCP 443

Source type Info Source Info Description - optional Info

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0dfcb1ef8550277af

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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

Cancel Launch instance

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Source type Info Source Info Description - optional Info
Anywhere Add CIDR, prefix list or security e.g. SSH for admin desktop
0.0.0.0/0 X

▼ Security group rule 3 (TCP, 80, 0.0.0.0/0) Remove

Type Info Protocol Info Port range Info
HTTP TCP 80

Source type Info Source Info Description - optional Info
Anywhere Add CIDR, prefix list or security e.g. SSH for admin desktop
0.0.0.0/0 X

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. X

Add security group rule

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0dfcb1ef8550277af

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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

Cancel Launch instance

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6. EC2 VPC and Subnet Selection

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▼ Network settings Info

VPC - required Info
vpc-044950d87417385e3 (default) ↻
172.31.0.0/16

Subnet Info
subnet-096d6b4f8ab6c33ed default-2 ↻ Create new subnet
VPC: vpc-044950d87417385e3 Owner: 753281509398
Availability Zone: us-east-1a IP addresses available: 4091 CIDR: 172.31.0.0/20

Auto-assign public IP Info
Enable

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0dfcb1ef8550277af

Virtual server type (instance type)
t2.micro

7. EC2 EBS Volume Selection

The screenshot shows the AWS Management Console interface for configuring an EC2 instance. The 'Configure storage' section is active, showing a single volume of 8 GiB of gp2 type. A notification states: 'Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage'. The 'Summary' panel on the right shows the instance configuration: 1 instance, Amazon Linux 2 Kernel 5.10 AMI (ami-0dfcb1ef8550277af), t2.micro instance type, New security group, and 1 volume of 8 GiB. The 'Launch instance' button is visible.

8 . User Data Insertion Page with below command

```
#!/bin/bash
yum update -y
yum install httpd -y
service httpd start
chkconfig httpd on
IP_ADDR=$(curl http://169.254.169.254/latest/meta-data/public-ipv4)
echo "Manual instance with IP $IP_ADDR" > /var/www/html/index.html
```

The screenshot shows the AWS Management Console interface for configuring an EC2 instance. The 'User data' section is active, showing the command script entered in the text area. The 'Summary' panel on the right shows the instance configuration: 1 instance, Amazon Linux 2 Kernel 5.10 AMI (ami-0dfcb1ef8550277af), t2.micro instance type, New security group, and 1 volume of 8 GiB. The 'Launch instance' button is visible.

9. EC2 Launch Logs

The screenshot shows the AWS Management Console interface for the 'Launch an instance' page. At the top, there's a navigation bar with the AWS logo, 'Services', a search bar, and user information. The main content area has a breadcrumb trail: 'EC2 > Instances > Launch an instance'. A green success message box states: 'Success Successfully initiated launch of instance (i-0fde01a00a04f571e)' with a 'Launch log' link. Below this is a 'Next Steps - preview' section with a search bar and a list of actions: 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', and 'Create EBS snapshot policy'. The footer contains 'Feedback', 'Language', and copyright information.

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EC2 > Instances > Launch an instance

Success
Successfully initiated launch of instance (i-0fde01a00a04f571e)
▶ Launch log

Next Steps - preview

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

Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots

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10 . EC2 Instance Running State

The screenshot shows the AWS Management Console interface for the 'Instances' page. The left sidebar has a navigation menu with 'New EC2 Experience' and various options like 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', and 'Instances'. The main content area is titled 'Instances (1) Info' and shows a table with one instance: 'Instance1' with ID 'i-0fde01a00a04f571e', state 'Running', type 't2.micro', and status '2/2 checks passed'. The footer contains 'Feedback', 'Language', and copyright information.

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New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Tags
Limits
▼ Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Instances (1) Info
Find instance by attribute or tag (case-sensitive)
Connect Instance state Actions Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Instance1	i-0fde01a00a04f571e	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

Select an instance

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11. EC2 Summary Page with Public and Private IP

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Instance summary for i-0fde01a00a04f571e (Instance1) Info

ConnectInstance state ▼Actions ▼

Updated less than a minute ago

Instance ID
i-0fde01a00a04f571e (Instance1)

IPv6 address
-

Hostname type
IP name: ip-172-31-6-24.ec2.internal

Answer private resource DNS name
IPv4 (A)

Auto-assigned IP address
3.239.242.43 [Public IP]

IAM Role
-

Public IPv4 address
3.239.242.43 | [open address](#)

Instance state
Running

Private IP DNS name (IPv4 only)
ip-172-31-6-24.ec2.internal

Instance type
t2.micro

VPC ID
vpc-044950d87417385e3

Subnet ID
subnet-096d6b4f8ab6c33ed (default-2)

Private IPv4 addresses
172.31.6.24

Public IPv4 DNS
ec2-3-239-242-43.compute-1.amazonaws.com | [open address](#)

Elastic IP addresses
-

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | [Learn more](#)

Auto Scaling Group name
-

12. EC2 Instance Monitoring Page

aws

Services

Search

[Alt+S]

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New EC2 Experience
Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

DetailsSecurityNetworkingStorageStatus checksMonitoringTags

Manage detailed monitoring

1h3h12h1d3d1wCustom

CPU utilization (%)

Percent

2512.50

10:3011:30

Status check failed (an...

Count

10.50

10:3011:30

Status check failed (ins...

Count

10.50

10:3011:30

Status check failed (sy...

Count

10.50

10:3011:30

Network in (bytes)

Bytes

20.1M10.1M0

10:3011:30

Network out (bytes)

Bytes

63.0k31.5k0

10:3011:30

Network packets in (co...

Count

14.1k7.05k0

10:3011:30

Network packets out (c...

Count

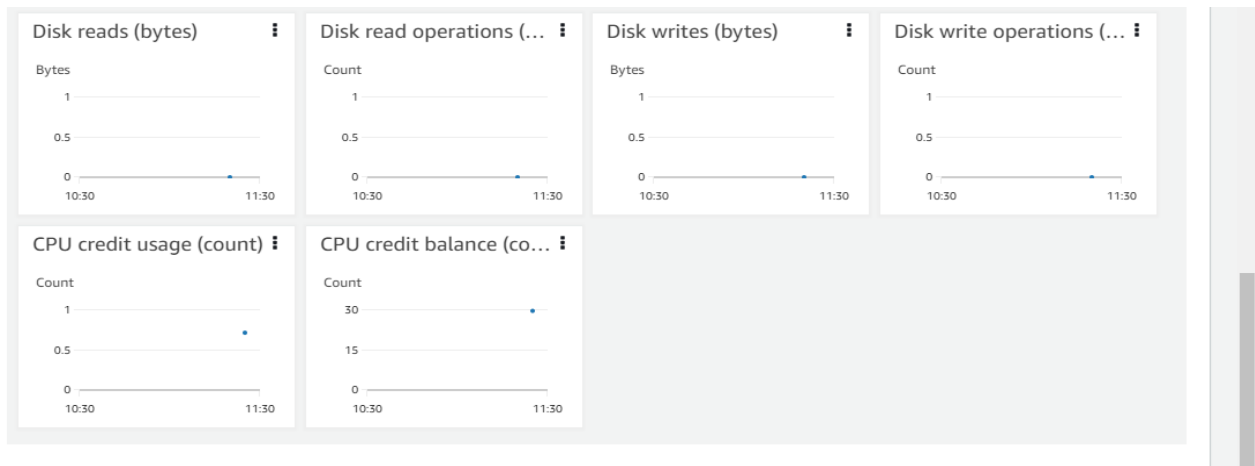
1.30k6490

10:3011:30

Add to dashboard

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13. SSH Access of EC2 instance in Local Machine.

```
C:\Users\vamsi>cd downloads

C:\Users\vamsi\Downloads>ssh -i "ins1-key.pem" ec2-user@ec2-3-239-242-43.compute-1.amazonaws.com

  __|  __|_ )
 _| (  /  Amazon Linux 2 AMI
---|\---|---|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-6-24 ~]$
```

14. Browsing EC2 instance in the Browser Local Machine.



Manual instance with IP 3.239.242.43

15. Terminating the Resource .

The screenshot shows the AWS Management Console interface. On the left is a navigation sidebar with options like 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', and 'Instances'. The 'Instances' section is expanded, showing 'Instance1' with ID 'i-0fde01a00a04f571e' in a 'Running' state. A context menu is open over the instance, with 'Terminate instance' highlighted. The main panel shows a table with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. Below the table, the instance details for 'i-0fde01a00a04f571e (Instance1)' are displayed.

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 Zone
<input checked="" type="checkbox"/>	Instance1	i-0fde01a00a04f571e	Running	t2.micro	Checks passed	No alarms	us-east-1a

Instance: i-0fde01a00a04f571e (Instance1)

This screenshot shows the AWS Management Console after the instance has been terminated. A green banner at the top states 'Successfully terminated i-0fde01a00a04f571e'. The instance table now shows 'Instance1' with ID 'i-0fde01a00a04f571e' in a 'Terminated' state. The 'Instance state' dropdown in the top right is set to 'Instance state'. The main panel shows a 'Select an instance' prompt.

Successfully terminated i-0fde01a00a04f571e

Instances (1) Info

Find instance by attribute or tag (case-sensitive)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Instance1	i-0fde01a00a04f571e	Terminated	t2.micro	-	No alarms	us-east-1a

Select an instance