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Q1.

Create an EC2 instance with the following requirements.

Give the Name tag of both server & keypair as "ec2usecase2"(Name).

(Marks 5)

Select the AMI from the Amazon Linux OS Platform.

(Marks 5)

Increase the root EBS volume size to 10 GB from the default size.

(Marks 5)

Expose Port No.22 for taking putty remote connection.

(Marks 5)

aws   Services   🔍 Search   [Option+S]   ▣   🔔   ❓   Mumbai ▾   HARINI P ▾

t2.micro   Free tier eligible
Family: t2   1 vCPU   1 GiB Memory   Current generation: true
On-Demand Linux pricing: 0.0124 USD per Hour
On-Demand Windows pricing: 0.017 USD per Hour
On-Demand RHEL pricing: 0.0724 USD per Hour
On-Demand SUSE pricing: 0.0124 USD per Hour

⬤ 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*

ec2usecase2   ▾   ⟳   Create new key pair

▼ Network settings   Info   Edit

Network   Info
vpc-03db2bba2d17951d8

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

Auto-assign public IP   Info
Enable

Firewall (security groups)   Info

▼ Summary

Number of instances   Info

1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more
ami-0b08bfc6ff7069aff

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)

Cancel   **Launch instance**

Review commands

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aws   Services   🔍 Search   [Option+S]   ▣   🔔   ❓   Mumbai ▾   HARINI P ▾

▼ 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	🔍
aws	Mac	ubuntu®	■ Microsoft	Red Hat		Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI   Free tier eligible
ami-0b08bfc6ff7069aff (64-bit (x86)) / ami-0d683450f458cdbaa (64-bit (Arm))
Virtualization: hvm   ENA enabled: true   Root device type: ebs   ▾

Description
Amazon Linux 2023 AMI 2023.0.20230503.0 x86_64 HVM kernel-6.1

Architecture   AMI ID

| 64-bit (x86)   ▾ | ami-0b08bfc6ff7069aff   ✓ Verified provider |

▼ Summary

Number of instances   Info

1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more
ami-0b08bfc6ff7069aff

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)

Cancel   **Launch instance**

Review commands

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.   ✕

▼ Configure storage   Info   Advanced

1x   [10]   GiB   [gp3 ▾]   Root volume (Not encrypted)

ⓘ Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage   ✕

[Add new volume]

0 x File systems   Edit

▶ Advanced details   Info

▼ Summary

Number of instances   Info

[1]

Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more
ami-0b08bfc6ff7069aff

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)   ✕

Cancel   [Launch instance]

Review commands

▼ Network settings   Info   [Edit]

Network   Info
vpc-03db2bba2d17951d8

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

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 │
└─────────────────────────────┘ └─────────────────────────────┘

We'll create a new security group called '**launch-wizard-11**' with the following rules:

☑ Allow SSH traffic from
Helps you connect to your instance   [Anywhere   ▾]
                                            0.0.0.0/0

☐ 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.   ✕

▼ Summary

Number of instances   Info

[1]

Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more
ami-0b08bfc6ff7069aff

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)   ✕

Cancel   [Launch instance]

Review commands

Q2.

Create an EC2 Instance in the given AWS account with the following requirements.

Give the Name tag of both server & keypair as "ec2usecase1"(Name).

(8 Marks)

Select the AMI from the Windows OS Platform.

(7 Marks)

Ensure that Auto-Assigned Public-IP must be enabled.

(5 Marks)

Expose Port No.3389 for taking the remote desktop connection.

(5 Marks)

aws | ::: Services | 🔍 Search [Option+S] | Mumbai ▾ | HARINI P ▾

Name and tags Info

Name
| ec2usercase1 | Add additional tags

▼ **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 | 🔍 Browse more AMIs |
| aws | Mac | ubuntu | ⊞ Microsoft | Red Hat | | Including AMIs from AWS, Marketplace and the Community |

Amazon Machine Image (AMI)

Microsoft Windows Server 2022 Base   Free tier eligible
ami-...

▼ **Summary**

Number of instances Info
| 1 |

Software Image (AMI)
Microsoft Windows Server 2022 ...read more
ami-06c2ec1ceac22e8d6

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 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) ✕

Cancel   **Launch instance**

Review commands

---

aws | ::: Services | 🔍 Search [Option+S] | Mumbai ▾ | HARINI P ▾

On-Demand SUSE pricing: 0.0124 USD per Hour

▼ **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*
| ec2usecase1 ▾ | ⟳ Create new key pair

For Windows instances, you use a key pair to decrypt the administrator password. You then use the decrypted password to connect to your instance.

▼ **Network settings** Info   Edit

Network Info
vpc-03db2bba2d17951d8

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

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

▼ **Summary**

Number of instances Info
| 1 |

Software Image (AMI)
Microsoft Windows Server 2022 ...read more
ami-06c2ec1ceac22e8d6

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 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) ✕
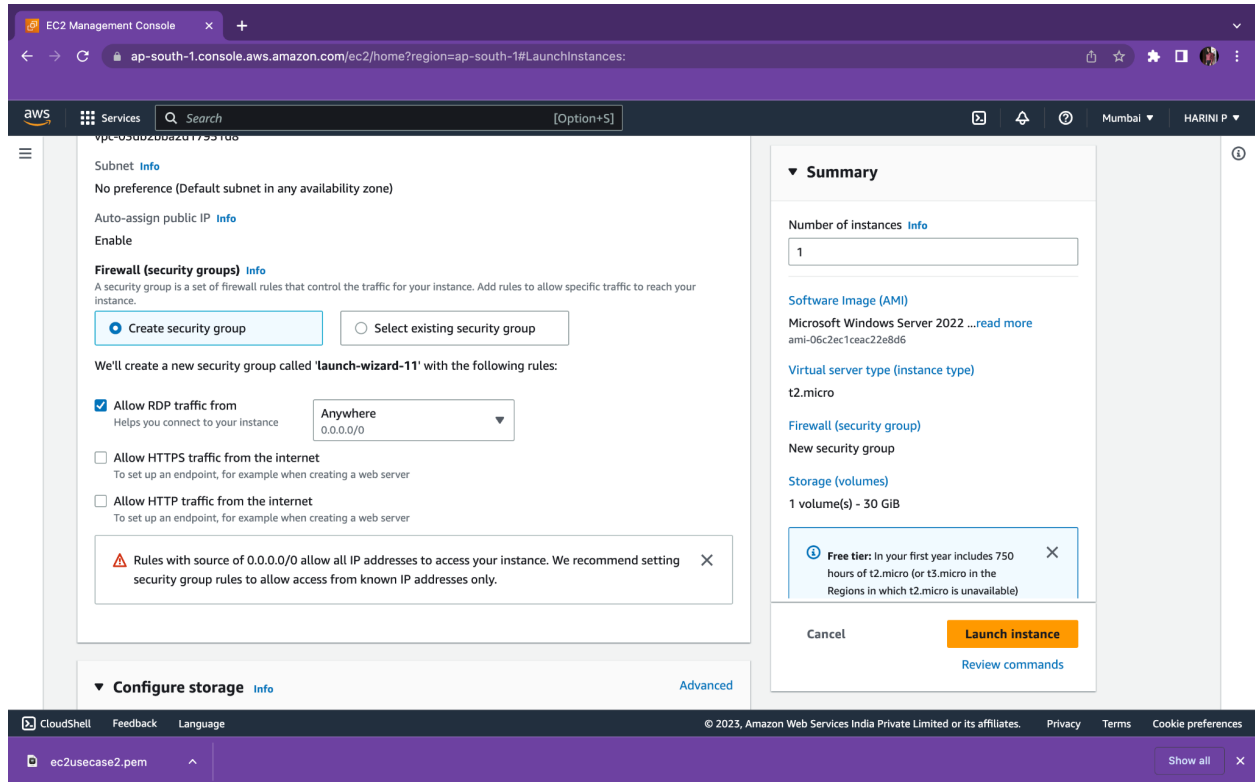
Cancel   **Launch instance**

Review commands

Q4.

Create an IAM group called 'EC2-Admins' with 'AmazonEC2FullAccess' and 'AutoScalingFullAccess' policies, then add an IAM user called as 'EC2Admin1'.

The name of the IAM group should be 'EC2-Admins'.

(8 Marks)

The name of the IAM user should be 'EC2Admin1'.

(7 Marks)

The 'AmazonEC2FullAccess' policy should be attached.

(5 Marks)

The 'AutoScalingFullAccess' policy should be attached.

(5 Marks)

aws ⊞ Services 🔍 Search [Option+S]   ⚙ 🔔 ? Global ▾ HARINI P ▾

Identity and Access Management (IAM) ✕

🔍 Search IAM

Dashboard

▼ Access management
  User groups
  Users
  Roles
  Policies
  Identity providers
  Account settings

▼ Access reports
  Access analyzer
    Archive rules
    Analyzers
    Settings
  Credential report
  Organization activity
  Service control policies (SCPs)

IAM › User groups

User groups (1) Info
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

⟳ Delete **Create group**

🔍 Filter User groups by property or group name and press enter

‹ 1 › ⚙

	Group name	Users	Permissions	Creation time
☐	EC2-Admins	1	⟳ Loading	6 minutes ago

ℹ

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Identity and Access Management (IAM) ✕

✓ **User created successfully**
You can view and download the user's password and email instructions for signing in to the AWS Management Console.

View user ✕

🔍 Search IAM

Dashboard

▼ Access management
  User groups
  Users
  Roles
  Policies
  Identity providers
  Account settings

▼ Access reports
  Access analyzer
    Archive rules
    Analyzers
    Settings
  Credential report
  Organization activity
  Service control policies (SCPs)

IAM › Users

Users (2) Info
An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

⟳ Delete **Add users**

🔍 Find users by username or access key

‹ 1 › ⚙

	User name	Groups	Last activity	MFA	Password age	Active key age
☐	EC2Admin1	EC2-Admins		None	⟳	
☐	S3Admin1	None	✓ 7 days ago	None	⟳	-

ℹ

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aws Services Search [Option+S]

Global ▼   HARINI P ▼

Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management
  User groups
  Users
  Roles
  Policies
  Identity providers
  Account settings

▼ Access reports
  Access analyzer
      Archive rules
      Analyzers
      Settings
  Credential report
  Organization activity
  Service control policies (SCPs)

IAM > User groups > EC2-Admins

EC2-Admins

Delete

Summary

Edit

User group name
EC2-Admins

Creation time
May 04, 2023, 14:29 (UTC+05:30)

ARN
arn:aws:iam::349360989237:group/EC2-Admins

Users   **Permissions**   Access Advisor

Permissions policies (2)   Info

You can attach up to 10 managed policies.

Simulate   Remove   Add permissions ▼

Filter policies by property or policy name and press enter.

< 1 >

	Policy name ↗	Type	Description
	⊞ AmazonEC2FullAccess	AWS managed	Provides full access to Amazon EC2 via the AWS Management Console.
	⊞ AutoScalingFullAccess	AWS managed	Provides full access to Auto Scaling.

https://us-east-1.console.aws.amazon.com/iamv2/home#

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ec2usecase2.pem

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