

# CLOUD COMPUTING

NAME: ARO STEFHINA R  
ROLL NUMBER:727721EUIT012

**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.

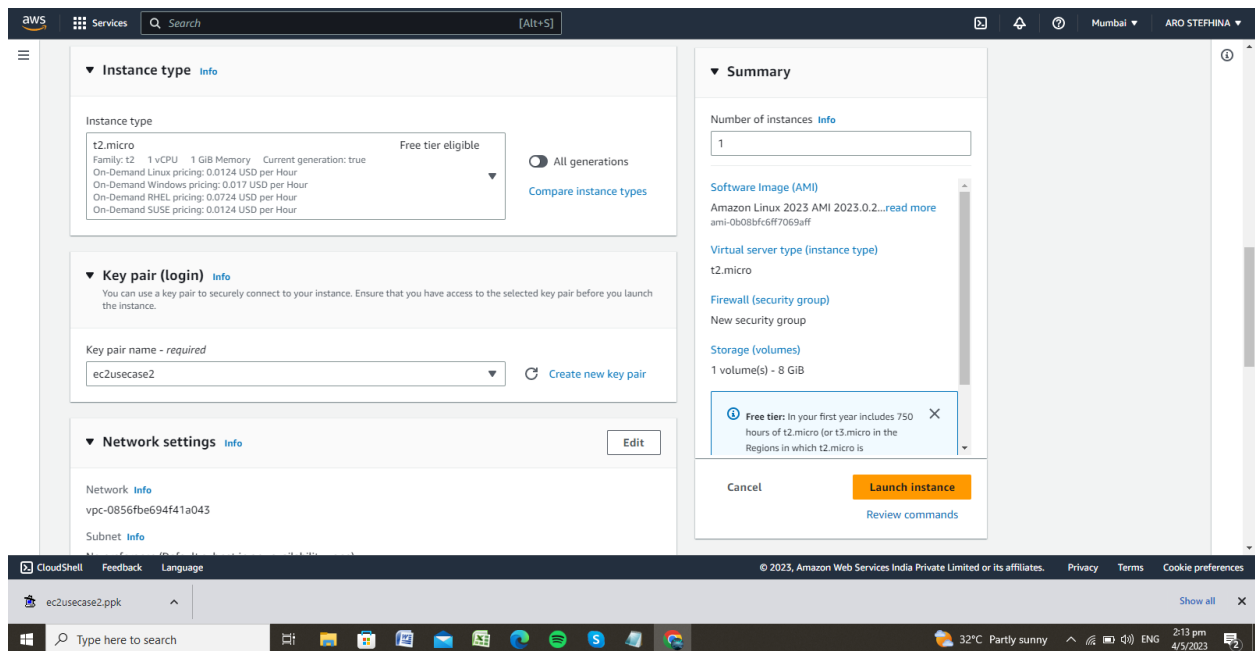
**(Marks 5)**

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)**



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Auto-assign public IP

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.

Configure storage

Info

Advanced

1x 8 GiB gp3 Root volume (Not encrypted)

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

Cancel

Launch instance

Review commands

CloudShell

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ec2usecase2.ppk

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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 8 GiB gp3 Root volume (Not encrypted)

1x 10 GiB gp3 EBS volume (Not encrypted)

Remove

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)

2 volume(s) - 16 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is

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Launch instance

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New EC2 Experience

Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Instances (2) Info

🔄

Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

☐

ec2usecase2

i-018fc35dc3f5bf10e

Running

t2.micro

Initializing

No alarms

ap-south-1b

ec2-3-110-183-108.ap-...

☐

stefins

i-036452364d582a26b

Terminated

t2.micro

-

No alarms

ap-south-1b

-

Select an instance

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Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Load Balancers

Target Groups

Auto Scaling

Launch Configurations

Auto Scaling Groups

Volumes (2)

🔄

Actions

Create volume

Search

☐

-

vol-090e994e843270f0d

gp3

10 GiB

3000

125

-

2023/05/04 14:16 GMT+5:...

ap-south-1b

☐

-

vol-0964cb654669b5d2a

gp3

8 GiB

3000

125

snap-0e04d20...

2023/05/04 14:16 GMT+5:...

ap-south-1b

Select a volume above

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**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)**

The screenshot displays the AWS Management Console interface for creating a new EC2 instance. The main panel is titled "Application and OS Images (Amazon Machine Image)" and includes a search bar and a "Quick Start" tab. Under "Quick Start", the "Windows" category is selected, showing the "Microsoft Windows Server 2022 Base" AMI. The AMI details include the ID "ami-06c2ec1ceac22e8d6", architecture "x86\_64", and a "Free tier eligible" status. The right-hand "Summary" panel provides a overview of the configuration: 1 instance, t2.micro instance type, a new security group, and a single 30 GiB volume. A "Free tier" notification indicates that the first year includes 750 hours of t2.micro usage. At the bottom of the console, there are "Cancel", "Launch instance", and "Review commands" buttons. The bottom of the image shows a Windows taskbar with a search bar and system tray.

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▼ Instance type [Info](#)

Instance type

t2.micro

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

Free tier eligible

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

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](#)

Network [Info](#)

vpc-0856fbee694f41a043

Edit

▼ 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

Cancel

Launch instance

Review commands

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ec2usecase1.pem

ec2usecase2.ppk

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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](#)

Network [Info](#)

vpc-0856fbee694f41a043

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-12' with the following rules:

Allow RDP 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

▼ 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

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Cancel

Launch instance

Review commands

CloudShell

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ec2usecase1.pem

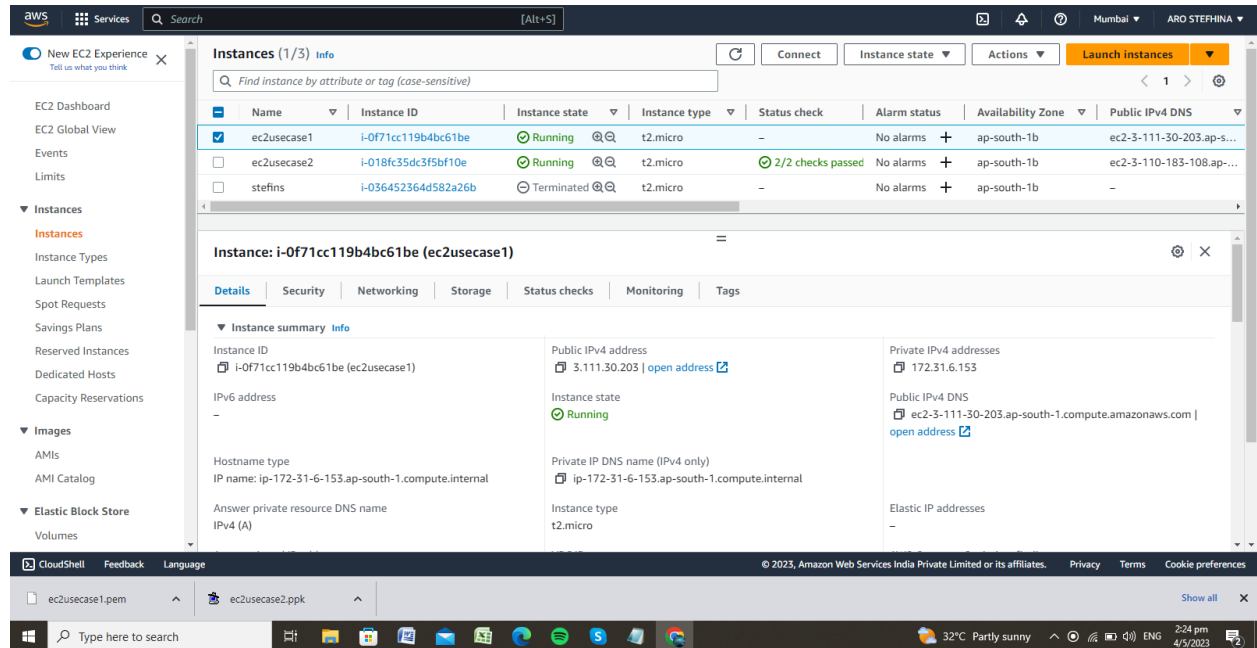
ec2usecase2.ppk

Show all

Type here to search

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**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)**

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Services

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Global

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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 > Create user group

Create user group

Name the group

User group name

Enter a meaningful name to identify this group.

EC2-Admins

Maximum 128 characters. Use alphanumeric and "+=, @, \_" characters.

Add users to the group - Optional (0) Info

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS. A user can belong to up to 10 groups.

Search

< 1 >

User name

Groups

Last activity

Creation time

No resources to display

Attach permissions policies - Optional (843) Info

You can attach up to 10 policies to this user group. All the users in this group will have

Create policy

CloudShell

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Identity and Access Management (IAM)

Search IAM

Dashboard

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Service control policies (SCPs)

Add users to the group - Optional (0) Info

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS. A user can belong to up to 10 groups.

Search

< 1 >

User name

Groups

Last activity

Creation time

No resources to display

Attach permissions policies - Optional (Selected 1/843) Info

You can attach up to 10 policies to this user group. All the users in this group will have permissions that are defined in the selected policies.

Filter policies by property or policy name and press enter.

1 match

< 1 >

AmazonEC2FullAccess

Clear filters

Policy name

Type

Description

AmazonEC2FullAccess

AWS managed

Provides full access to Am

Cancel

Create group

CloudShell

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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)

EC2-Admins user group created.

View group

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.

Filter User groups by property or group name and press enter

Group name

Users

Permissions

Creation time

EC2-Admins

Loading

Defined

Now

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IAM > Users > Create user

Step 1

Specify user details

Step 2

Set permissions

Step 3

Review and create

Specify user details

User details

User name

EC1Admin1

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and +, =, ., @, \_ - (hyphen)

Provide user access to the AWS Management Console - optional

If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.

If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. Learn more

Cancel

Next

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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

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Settings

Credential report

Organization activity

Service control policies (SCPs)

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

IAM > Users

Users (1) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Find users by username or access key

< 1 >

	User name	Groups	Last activity	MFA	Password age	Active key age
<input type="checkbox"/>	EC1Admin1			None		

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## Attach policy

Attach the policy to users, groups, or roles in your account

Filter: Filter Search Showing 2 results

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	EC1Admin1	User
<input checked="" type="checkbox"/>	EC2-Admins	Group

Cancel

Attach policy

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