

CIA-1

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

3Qi) (8 Marks)

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

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Roles

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Identity providers

Account settings

Access reports

Access analyzer

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Analyzers

EC2Admins user group created. View group

IAM > User groups

User groups (4) 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

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	EC2-Admins	Loading	Loading	Now
<input type="checkbox"/>	EC2Admins	1	Defined	Now
<input type="checkbox"/>	hasheemgroup	1	Loading	7 days ago
<input type="checkbox"/>	jacksparrowgroup	1	Loading	7 days ago

Activate Windows  
Go to Settings to activate Windows.

Feedback Language

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Type here to search

01:47 PM 04-05-2023

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

3Qii) (7 Marks)

The screenshot shows the AWS IAM Management Console. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Access reports, and Account settings. The main content area is titled 'Users (3)' and shows a table of IAM users. The user 'EC2Admin1' is highlighted, showing it belongs to the 'EC2-Admins' group and has never been active.

User name	Groups	Last activity	MFA	Password a...	Activ
EC2Admin1	EC2-Admins	Never	None	None	-
jacksparrow	jacksparrowgroup	7 days ago	Virtual	7 days ago	-
mohamed_hasheem	hasheemgroup	22 minutes ago	Virtual	8 days ago	-

The 'AmazonEC2FullAccess' policy should be attached.

3Qiii) (5 Marks)

The screenshot shows the 'Attach permissions policies' page in the AWS IAM Management Console. The page displays a list of policies that can be attached to the selected user group. The 'AmazonEC2FullAccess' policy is selected, and the 'Clear filters' button is visible.

Policy name	Type	Description
AmazonEC2FullAccess	AWS managed	Provides full access
AmazonEC2ReadOnlyAccess	AWS managed	Provides read only a
AmazonElasticMapReduceforEC2Role	AWS managed	Default policy for the
AmazonEC2RoleforDataPipelineRole	AWS managed	Default policy for the
AmazonEC2ContainerServiceforEC2Role	AWS managed	Default policy for the

The 'AutoScalingFullAccess' policy should be attached.

3Qiv) (5 Marks)

The screenshot displays the AWS IAM Management Console interface. The left sidebar shows the navigation menu with 'Identity and Access Management (IAM)' selected. The main content area is titled 'Summary' and shows details for the 'EC2-Admins' user group, including its creation time and ARN. Below this, the 'Permissions' tab is active, showing a list of attached policies. Two policies are listed: 'AmazonEC2FullAccess' and 'AutoScalingFullAccess', both of which are AWS managed policies. The 'AutoScalingFullAccess' policy is highlighted, indicating it is the one to be attached as per the question. The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

Summary

User group name: EC2-Admins

Creation time: May 04, 2023, 13:47 (UTC+05:30)

ARN: arn:aws:iam::017347043061:group/EC2-Admins

Permissions policies (2)

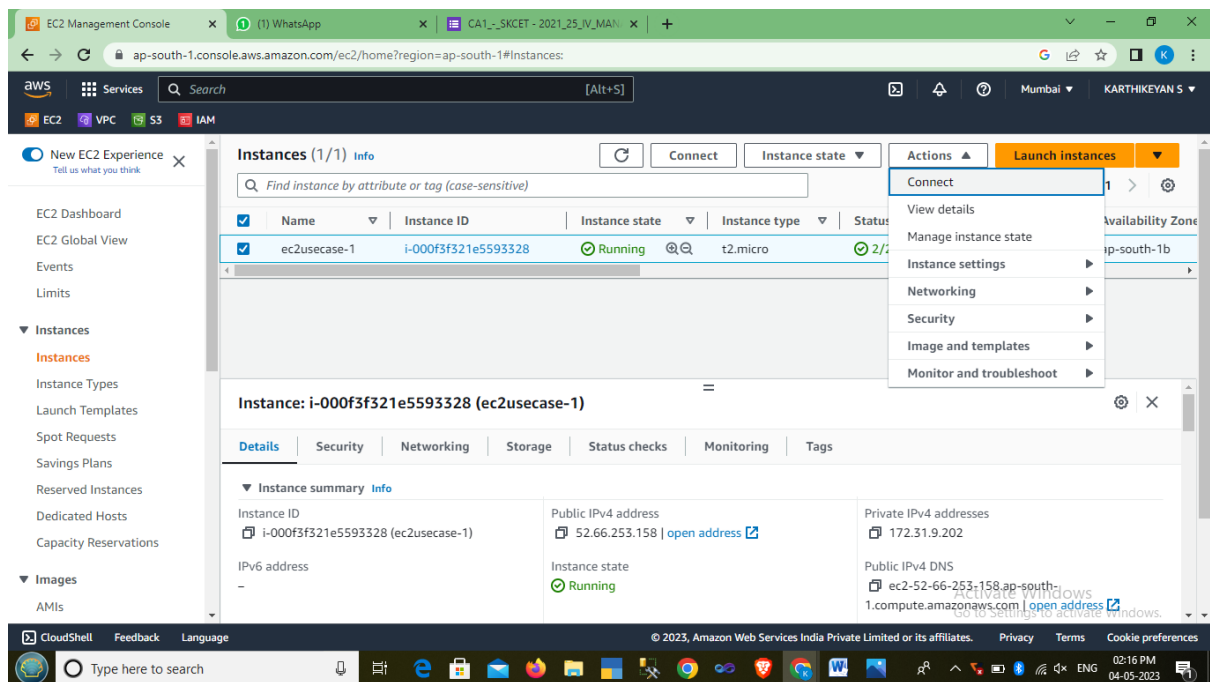
You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter.

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.

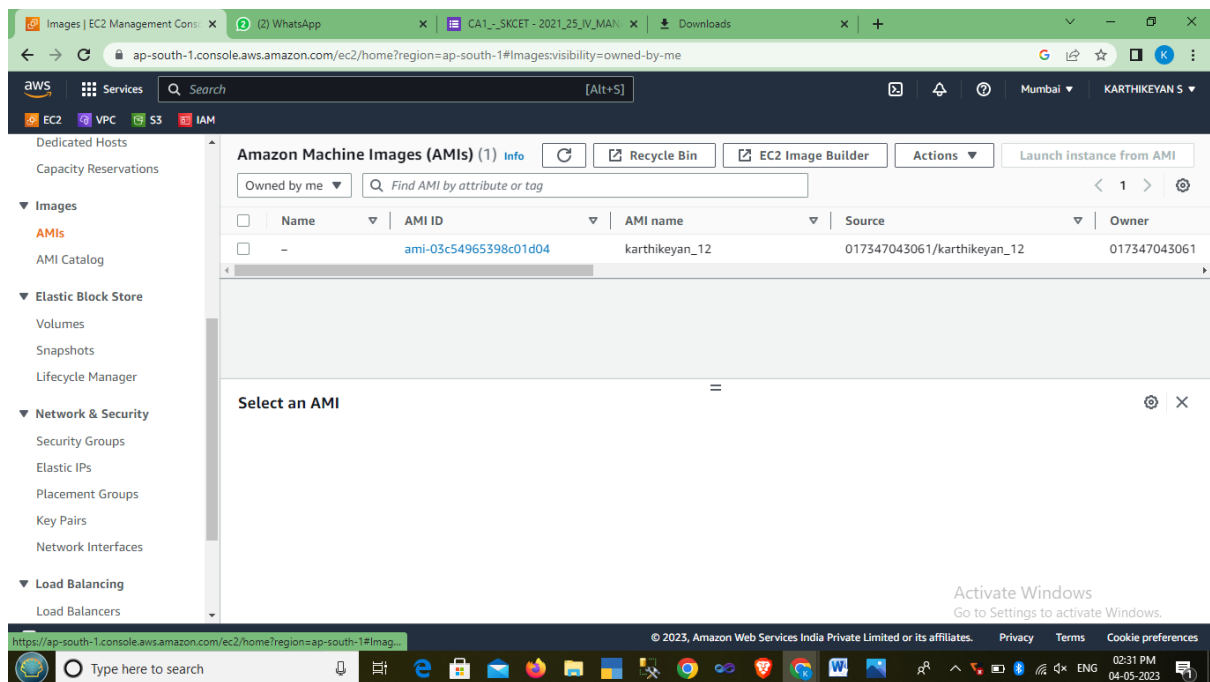
Give the Name tag of both server & keypair as "ec2usecase1"(Name).

2Qj) (8 Marks)



Select the AMI from the Windows OS Platform.

2Qii) (7 Marks)



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

2Qiii) (5 Marks)

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a table of instances. The instance 'ec2usecase-1' is selected, and a modal window shows its details. The instance is in a 'Running' state with a status check of '2/2 checks passed'. The Auto-assigned IP address is 52.66.253.158 [Public IP]. The VPC ID is vpc-0bdf87054a4d58432, and the Subnet ID is subnet-059e1c4a6ec4a2818. The IAM Role is 'ec2-instance-profile'. The modal also shows the AWS Compute Optimizer finding and the Auto Scaling Group name.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
ec2usecase-1	i-000f3f321e5593328	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b
ec2usecase2	i-0736427203545f38d	Terminated	t2.micro	-	No alarms	ap-south-1b

Auto-assigned IP address: 52.66.253.158 [Public IP]

VPC ID: vpc-0bdf87054a4d58432

Subnet ID: subnet-059e1c4a6ec4a2818

IAM Role: ec2-instance-profile

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations.

Auto Scaling Group name: -

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

3Qiv) (5 Marks)

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Security Groups' page is active, displaying the 'Inbound rules' tab. A new rule is being added for RDP (Remote Desktop Protocol) on port 3389. The rule is named 'sgr-08664f1ca3fa125d3' and is associated with the 'ec2-instance-profile' IAM Role. The rule is in a 'Pending' state.

Security group rule...	IP version	Type	Protocol	Port range
sgr-0de4b743232aa15...	IPv4	HTTPS	TCP	443
sgr-0eb0e324297e87b...	IPv4	HTTP	TCP	80
sgr-08664f1ca3fa125d3	IPv4	RDP	TCP	3389

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

(Marks 5)

1Qj)

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a list of four EC2 instances. The instance 'usecaselinux-2' (ID: i-0a75bfb07348350c7) is selected and its details are shown in the right-hand pane. The instance is in a 'Running' state, using the 't2.micro' instance type. The details pane shows the instance summary, including the instance ID, public IPv4 address (3.111.37.162), private IPv4 addresses (172.31.6.179), and public IPv4 DNS (ec2-3-111-37-162.ap-south-1).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
ec2usecase2	i-0736427203545f38d	Terminated	t2.micro	-	No alarms	ap-south-1b
ec2usecase-1	i-000f3f321e5593328	Terminated	t2.micro	-	No alarms	ap-south-1b
ec2usecase1	i-07dd90e767da6801f	Terminated	t2.micro	-	No alarms	ap-south-1b
usecaselinux-2	i-0a75bfb07348350c7	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b

**Instance: i-0a75bfb07348350c7 (usecaselinux-2)**

Instance summary	
Instance ID	i-0a75bfb07348350c7 (usecaselinux-2)
Public IPv4 address	3.111.37.162   open address
Private IPv4 addresses	172.31.6.179
Public IPv4 DNS	ec2-3-111-37-162.ap-south-1
Instance state	Running

Select the AMI from the Amazon Linux OS Platform.

1Qii) (Marks 5)

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Amazon Machine Images (AMIs)' page is active, displaying a list of two AMIs. The AMI 'ami-0ae398a0a4f3b21ae' is selected and its details are shown in the right-hand pane. The AMI is named 'linux\_12' and is owned by 'karthikeyan\_12'. The details pane shows the AMI ID, image type (machine), platform details (Linux/UNIX), root device type (EBS), AMI name (linux\_12), owner account ID (017347043061), architecture (x86\_64), usage operation (RunInstances), root device name, status, source, and virtualization type.

Name	AMI ID	AMI name	Source	Owner
-	ami-0ae398a0a4f3b21ae	linux_12	017347043061/linux_12	017347043061
-	ami-03c54965398c01d04	karthikeyan_12	017347043061/karthikeyan_12	017347043061

**AMI ID: ami-0ae398a0a4f3b21ae**

Details			
AMI ID	ami-0ae398a0a4f3b21ae	Image type	machine
AMI name	linux_12	Platform details	Linux/UNIX
Root device name	Status	Root device type	EBS
Source	Virtualization type	Architecture	x86_64
Usage operation	RunInstances	Owner account ID	017347043061

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

1Qiii) (Marks 5)

The screenshot displays the AWS Management Console for the 'ap-south-1' region. The 'Volumes' page is active, showing a table with one volume: 'vol-Obbaa2243ad8b5686' of type 'gp3' and size '10 GiB'. The console interface includes a sidebar with navigation options like Elastic Block Store, Network & Security, and Load Balancing. The top bar shows the user is logged in as KARTHIKEYAN S.

Expose Port No.22 for taking putty remote connection.

1Qiv) (Marks 5)

The screenshot displays the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, showing a table with four instances. The instance 'usecaselinux-2' is selected, showing it is in a 'Running' state. The console interface includes a sidebar with navigation options like EC2 Dashboard, Events, Limits, and Instances. The top bar shows the user is logged in as KARTHIKEYAN S.

Name	Security group rule ID	Port range	Protocol	Source
-	sgr-050f4743ae9c9c0af	22	TCP	0.0.0.0/0
-	sgr-0f6b928a7c4c4ff4c	80	TCP	0.0.0.0/0
-	sgr-0c3bcabea013d9ec9	443	TCP	0.0.0.0/0