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Q1.

Marks: 20

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)

1.1

The screenshot displays the AWS Management Console interface. The top navigation bar shows the user is logged in as 'Harish_3569' in the 'Osaka' region. The left sidebar contains navigation links for 'New EC2 Experience', 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', 'CloudShell', 'Feedback', and 'Language'.

The main content area shows the 'Instances (1/11)' page. A table lists the instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
new	i-0480b5b06f3c65204	Running	t2.micro	Initializing	No alarms	ap-northeast-3a
new	i-0e2d9236086db39f7	Terminated	t2.micro	-	No alarms	ap-northeast-3a
new	i-0848a486565710278	Terminated	t2.micro	-	No alarms	ap-northeast-3a
ec2usecase2	i-091b7d5a39d50bf6d	Running	t2.micro	Initializing	No alarms	ap-northeast-3a

The 'ec2usecase2' instance is selected, and its details are shown in the 'Instance: i-091b7d5a39d50bf6d (ec2usecase2)' panel. The details include:

- Amazon Linux (Inferred)
- AMI: ami-0c2fe537881ed8210
- Platform details: Linux/UNIX
- Stop protection: Disabled
- Instance auto-recovery: Default
- AMI name: al2023-ami-2023.0.20230503.0-kernel-6.1-x86_64
- Launch time: Thu May 04 2023 14:15:22 GMT+0530 (India Standard Time) (3 minutes)
- Lifecycle: normal
- Termination protection: Disabled
- AMI location: amazon/al2023-ami-2023.0.20230503.0-kernel-6.1-x86_64
- Stop-hibernate behavior: disabled

The bottom of the screenshot shows the Windows taskbar with the search bar and various application icons.

1.2

The screenshot shows the AWS Management Console for the 'ap-northeast-3' region. The 'Instances' page is active, displaying a list of 11 instances. The instance 'ec2usecase2' (ID: i-091b7d5a39d50bf6d) is selected and highlighted. The details for this instance are shown below the list.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
new	i-0480b5b06f3c65204	Running	t2.micro	Initializing	No alarms	ap-northeast-3a
new	i-0e2d9236086db39f7	Terminated	t2.micro	-	No alarms	ap-northeast-3a
new	i-0848a486565710278	Terminated	t2.micro	-	No alarms	ap-northeast-3a
ec2usecase2	i-091b7d5a39d50bf6d	Running	t2.micro	Initializing	No alarms	ap-northeast-3a

Instance: i-091b7d5a39d50bf6d (ec2usecase2)

Platform details	AMI details	Termination protection
Amazon Linux (Inferred) Linux/UNIX	ami-0c2fe537881ed8210 al2023-ami-2023.0.20230503.0-kernel-6.1-x86_64	Disabled

Stop protection	Launch time	AMI location
Disabled	Thu May 04 2023 14:15:22 GMT+0530 (India Standard Time) (3 minutes)	amazon/al2023-ami-2023.0.20230503.0-kernel-6.1-x86_64

Instance auto-recovery	Lifecycle	Stop-hibernate behavior
Default	normal	disabled

1.3

The screenshot shows the AWS Management Console for the 'ap-northeast-3' region. The 'Instances' page is active, displaying a list of 11 instances. The instance 'ec2usecase2' (ID: i-091b7d5a39d50bf6d) is selected and highlighted. The details for this instance are shown below the list.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
new	i-0480b5b06f3c65204	Running	t2.micro	Initializing	No alarms	ap-northeast-3a
new	i-0e2d9236086db39f7	Terminated	t2.micro	-	No alarms	ap-northeast-3a
new	i-0848a486565710278	Terminated	t2.micro	-	No alarms	ap-northeast-3a
ec2usecase2	i-091b7d5a39d50bf6d	Running	t2.micro	Initializing	No alarms	ap-northeast-3a

Instance: i-091b7d5a39d50bf6d (ec2usecase2)

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	K
vol-029e83f533d7f1cbc	/dev/xvda	10	Attached	2023/05/04 14:15 GMT+5:30	No	-

Recent root volume replacement tasks

Task ID	Task state	Start time	Completion time	Tags
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1.4

The screenshot shows the AWS Management Console for the 'Instances' page. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main content area shows a list of instances with columns: Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. All instances listed are in a 'Terminated' state. Below the list, the details for instance 'i-091b7d5a39d50bf6d (ec2usecase2)' are displayed, showing its security group rules and outbound rules.

Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
i-1902d433fcc7e	Terminated	t2.micro	-	No alarms	ap-northeast-3a	-
i-84b7bc98d1ade4	Terminated	t2.micro	-	No alarms	ap-northeast-3a	-
i-dc64eac6205704	Terminated	t2.micro	-	No alarms	ap-northeast-3a	-
i-eff6f3e90f3572	Terminated	t2.micro	-	No alarms	ap-northeast-3a	-

Name	Security group rule ID	Port range	Protocol	Source
-	sgr-0eddb8ca52e68e0bdb	22	TCP	0.0.0.0/0

Name	Security group rule ID	Port range	Protocol	Destination
-	sgr-02106d0d75b9b4014	All	All	0.0.0.0/0

2.

Time:30 minutes

Marks: 25

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)

3.

Marks: 25

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)

3.1

The screenshot displays the AWS IAM Management Console interface. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/iamv2/home?region=ap-northeast-3#/groups/details/EC2-Admins?section=users`. The console header includes the AWS logo, a search bar, and navigation links for Services, Global, and the user profile (Harish_3569). The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), Access reports (Access analyzer, Archive rules, Analyzers), and Settings. The main content area is titled 'EC2-Admins' and includes a 'Delete' button. Below the title is a 'Summary' section with a table showing the user group name (EC2-Admins), creation time (May 04, 2023, 14:42 UTC+05:30), and ARN (arn:aws:iam::644836943054:group/EC2-Admins). There are also 'Edit' and 'Delete' buttons for the summary. Below the summary is a tabbed interface with 'Users', 'Permissions', and 'Access Advisor' tabs. The 'Users' tab is active, showing 'Users in this group (1)'. It includes a search bar, a 'Remove users' button, and an 'Add users' button. A table below lists the user with columns for checkboxes, User name, Groups, Last activity, and Creation time. The bottom of the screen shows the Windows taskbar with the search bar, task view button, and several application icons. The system tray shows the date and time as 14:43 on 04-05-2023.

3.2

The screenshot shows the AWS IAM Management Console in the 'us-east-1' region. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Access reports, and Settings. The main content area is titled 'EC2-Admins' and shows the 'Users' tab. The summary section displays the group name 'EC2-Admins', creation time 'May 04, 2023, 14:42 (UTC+05:30)', and ARN 'arn:aws:iam::644836943054:group/EC2-Admins'. Below this, the 'Users in this group' section shows one user, 'EC2Admin1', with a creation time of '3 minutes ago'. The bottom of the screen shows the Windows taskbar with various application icons and the system clock displaying '14:43' on '04-05-2023'.

3.3

The screenshot shows the AWS IAM Management Console in the 'us-east-1' region, specifically the 'Permissions' tab for the 'EC2-Admins' group. The left sidebar is identical to the previous screenshot. The main content area shows the 'Permissions policies (2)' section, indicating that two managed policies are attached to the group. The policies listed are 'AmazonEC2FullAccess' and 'AutoScalingFullAccess', both of which are 'AWS managed'. The bottom of the screen shows the Windows taskbar with the system clock displaying '14:44' on '04-05-2023'.

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IAM Management Console

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us-east-1.console.aws.amazon.com/iamv2/home?region=ap-northeast-3#/groups/details/EC2-Admins?section=permissions

ServicesSearch[Alt+S]

GlobalHarish_3569

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

Analizers

Settings

Summary

Edit

User group name

EC2-Admins

Creation time

May 04, 2023, 14:42 (UTC+05:30)

ARN

arn:aws:iam::644836943054:group/EC2-Admins

UsersPermissionsAccess Advisor

Permissions policies (2) Info

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter.

	Policy name	Type	Description
<input type="checkbox"/>	AmazonEC2FullAccess	AWS managed	Provides full access to Amazon EC2 via the AWS Management Console.
<input type="checkbox"/>	AutoScalingFullAccess	AWS managed	Provides full access to Auto Scaling.

https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-northeast-3#

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Type here to search

Activate Windows

Go to Settings to activate Windows.

14:44

04-05-2023