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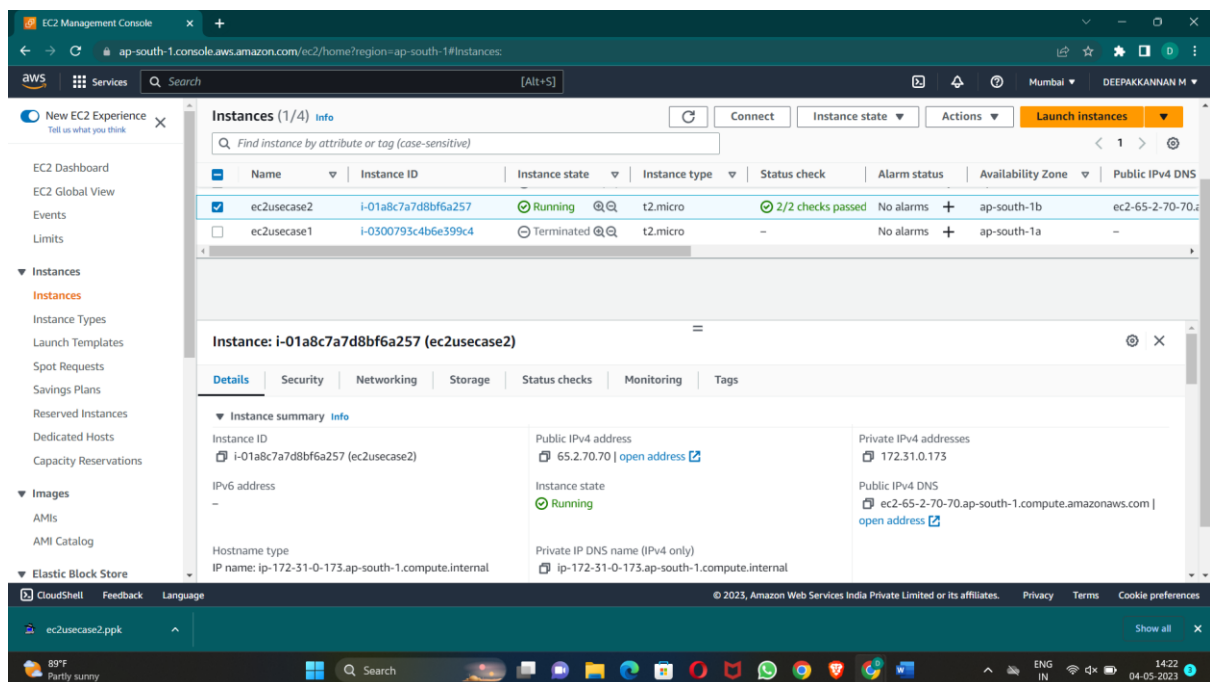
IT-A

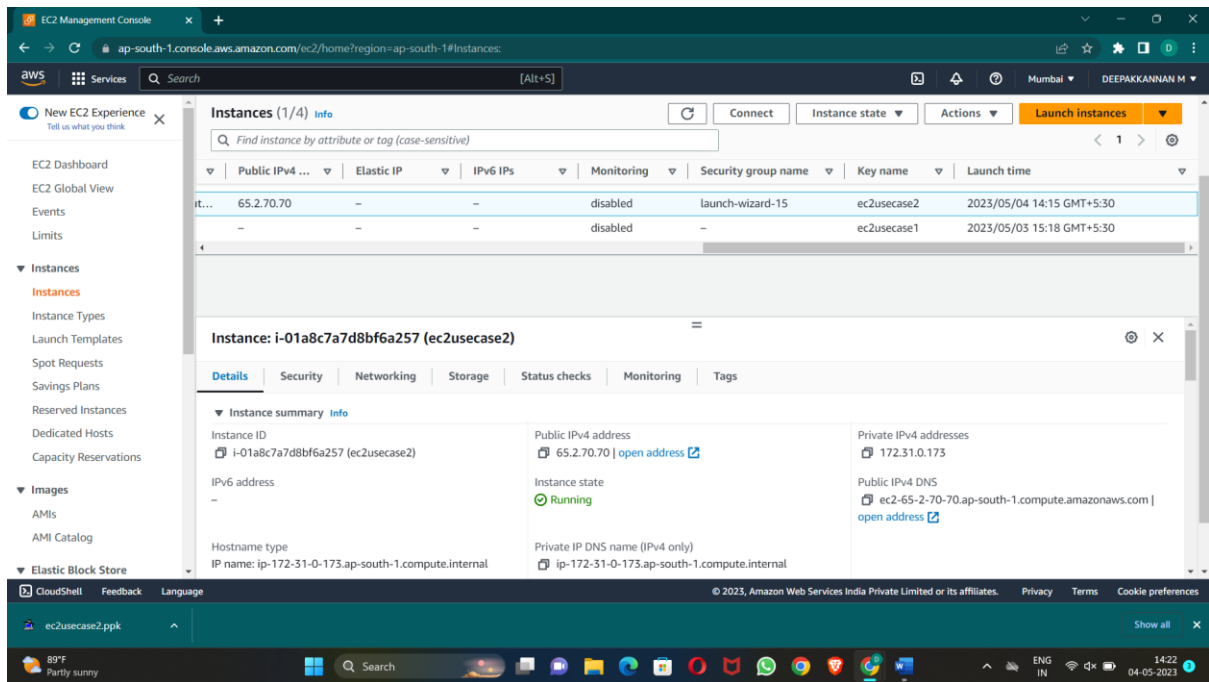
1.

Create an EC2 instance with the following requirements.

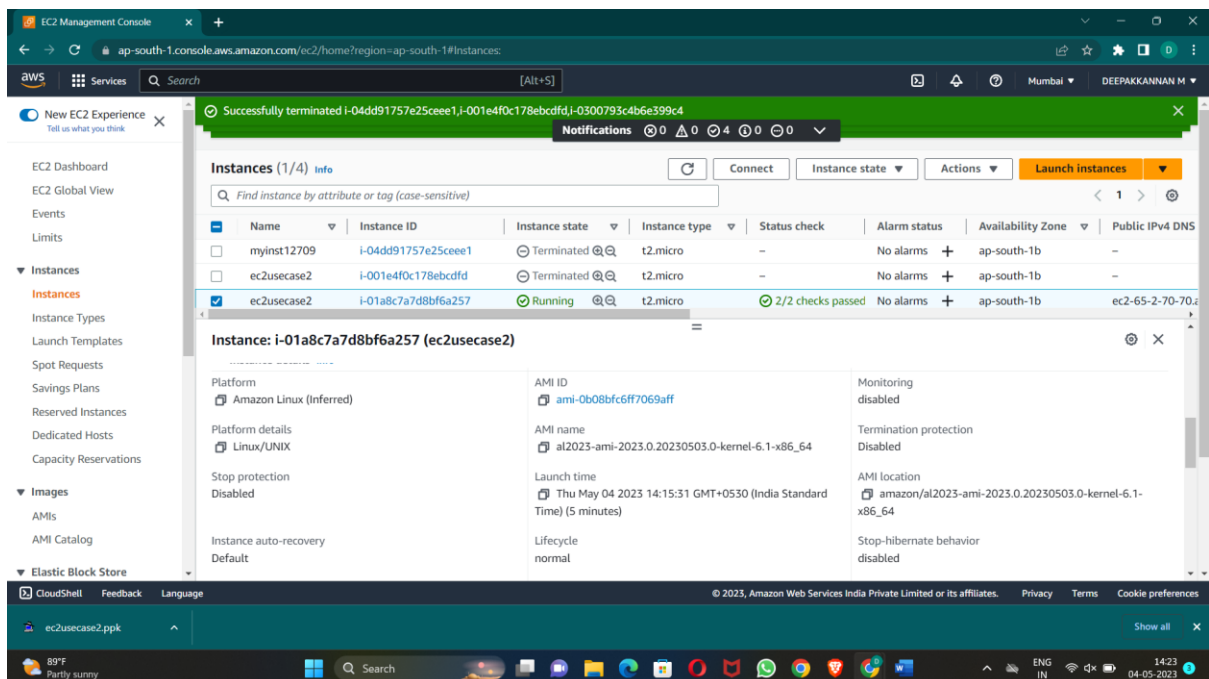
Give the Name tag of both server & keypair as "ec2usecase2"(Name).

(Marks 5)

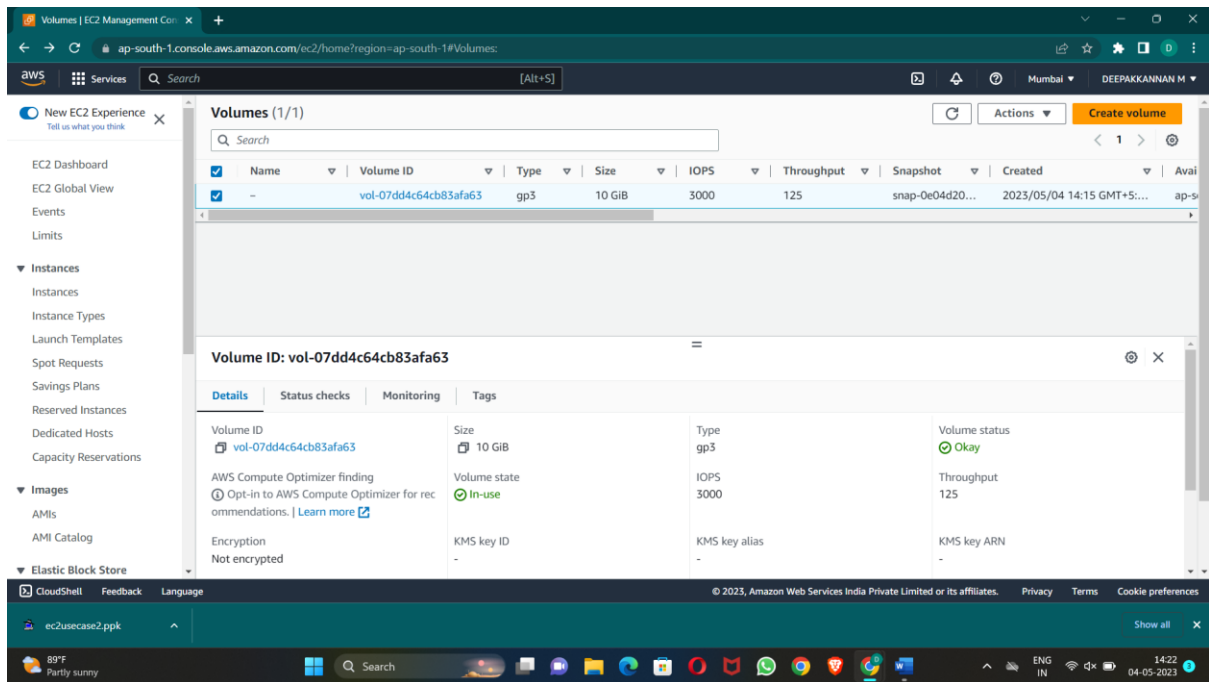




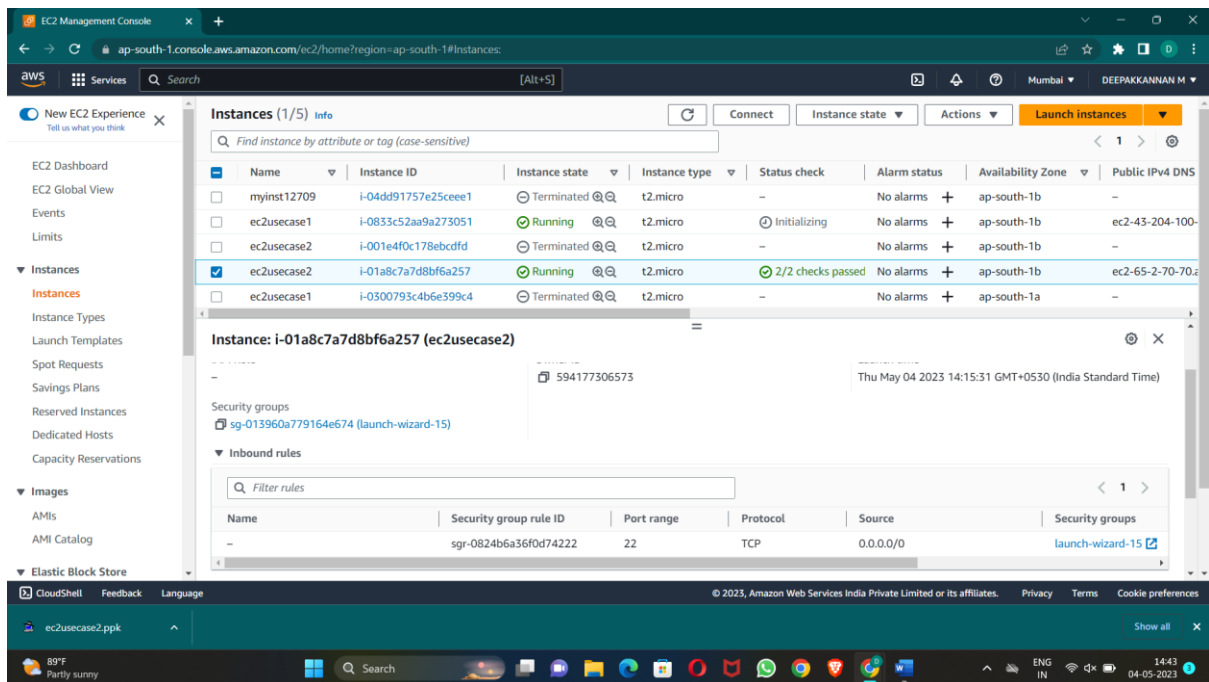
Select the AMI from the Amazon Linux OS Platform.
(Marks 5)



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)



2.

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

(8 Marks)

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a list of 5 instances. The instance 'ec2usecase1' (ID: i-0833c52aa9a273051) is highlighted and its details are shown in the right pane. The instance is in the 'Running' state, with a status check showing '2/2 checks passed'. The instance details include the following information:

Category	Value
Instance ID	i-0833c52aa9a273051 (ec2usecase1)
Public IPv4 address	43.204.100.108 open address
Private IPv4 addresses	172.31.9.50
Instance state	Running
Public IPv4 DNS	ec2-43-204-100-108.ap-south-1.compute.amazonaws.com open address
Private IP DNS name (IPv4 only)	ip-172-31-9-50.ap-south-1.compute.internal

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a list of 5 instances. The instance 'ec2usecase1' (ID: i-0833c52aa9a273051) is highlighted and its details are shown in the right pane. The instance is in the 'Running' state, with a status check showing '2/2 checks passed'. The instance details include the following information:

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Instance ID	i-0833c52aa9a273051 (ec2usecase1)
Public IPv4 address	43.204.100.108 open address
Private IPv4 addresses	172.31.9.50
Instance state	Running
Public IPv4 DNS	ec2-43-204-100-108.ap-south-1.compute.amazonaws.com open address
Private IP DNS name (IPv4 only)	ip-172-31-9-50.ap-south-1.compute.internal

Select the AMI from the Windows OS Platform.

(7 Marks)

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a list of instances. The instance 'ec2usecase1' with ID 'i-0833c52aa9a273051' is selected. The details for this instance are shown, including the AMI ID 'ami-06c2ec1ecac22e8d6' and the AMI name 'Windows_Server-2022-English-Full-Base-2023.04.12'. The instance is in the 'Running' state.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
myinst12709	i-04dd91757e25ceee1	Terminated	t2.micro	-	No alarms	ap-south-1b	-
ec2usecase1	i-0833c52aa9a273051	Running	t2.micro	Initializing	No alarms	ap-south-1b	ec2-43-204-100-
ec2usecase2	i-001e4f0c178ebcdff	Terminated	t2.micro	-	No alarms	ap-south-1b	-
ec2usecase2	i-01a8c7a7d8bf6a257	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-65-2-70-70-
ec2usecase1	i-0300793c4b6e399c4	Terminated	t2.micro	-	No alarms	ap-south-1a	-

Instance: i-0833c52aa9a273051 (ec2usecase1)

Platform
windows

AMI ID
ami-06c2ec1ecac22e8d6

AMI name
Windows_Server-2022-English-Full-Base-2023.04.12

Launch time
Thu May 04 2023 14:41:52 GMT+0530 (India Standard Time) (2 minutes)

Monitoring
disabled

Termination protection
Disabled

AMI location
amazon/Windows_Server-2022-English-Full-Base-2023.04.12

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

(5 Marks)

The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page is active, displaying a list of instances. The instance 'ec2usecase1' with ID 'i-0833c52aa9a273051' is selected. The details for this instance are shown, including the Auto-assigned IP address '43.204.100.108' and the VPC ID 'vpc-0d011506640bd61c9'. The instance is in the 'Running' state.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
myinst12709	i-04dd91757e25ceee1	Terminated	t2.micro	-	No alarms	ap-south-1b	-
ec2usecase1	i-0833c52aa9a273051	Running	t2.micro	Initializing	No alarms	ap-south-1b	ec2-43-204-100-
ec2usecase2	i-001e4f0c178ebcdff	Terminated	t2.micro	-	No alarms	ap-south-1b	-
ec2usecase2	i-01a8c7a7d8bf6a257	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-65-2-70-70-
ec2usecase1	i-0300793c4b6e399c4	Terminated	t2.micro	-	No alarms	ap-south-1a	-

Instance: i-0833c52aa9a273051 (ec2usecase1)

Hostname type
IP name: ip-172-31-9-50.ap-south-1.compute.internal

Answer private resource DNS name
IPv4 (A)

Auto-assigned IP address
43.204.100.108 [Public IP]

IAM Role
-

Private IP DNS name (IPv4 only)
ip-172-31-9-50.ap-south-1.compute.internal

Instance type
t2.micro

VPC ID
vpc-0d011506640bd61c9

Subnet ID
subnet-0b538c8354287c941

Elastic IP addresses
-

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name
-

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

(5 Marks)

The screenshot displays the AWS Management Console interface. The left sidebar shows the navigation menu with 'Instances' selected. The main content area shows a list of EC2 instances. One instance, 'ec2usecase1' with ID 'i-0833c52aa9a273051', is highlighted. Below the instance list, the 'Inbound rules' section for the associated security group is expanded, showing a rule that allows TCP traffic on port 3389 from the source '0.0.0.0/0'. The Windows taskbar at the bottom shows the system clock as 14:46 on 04-05-2023.

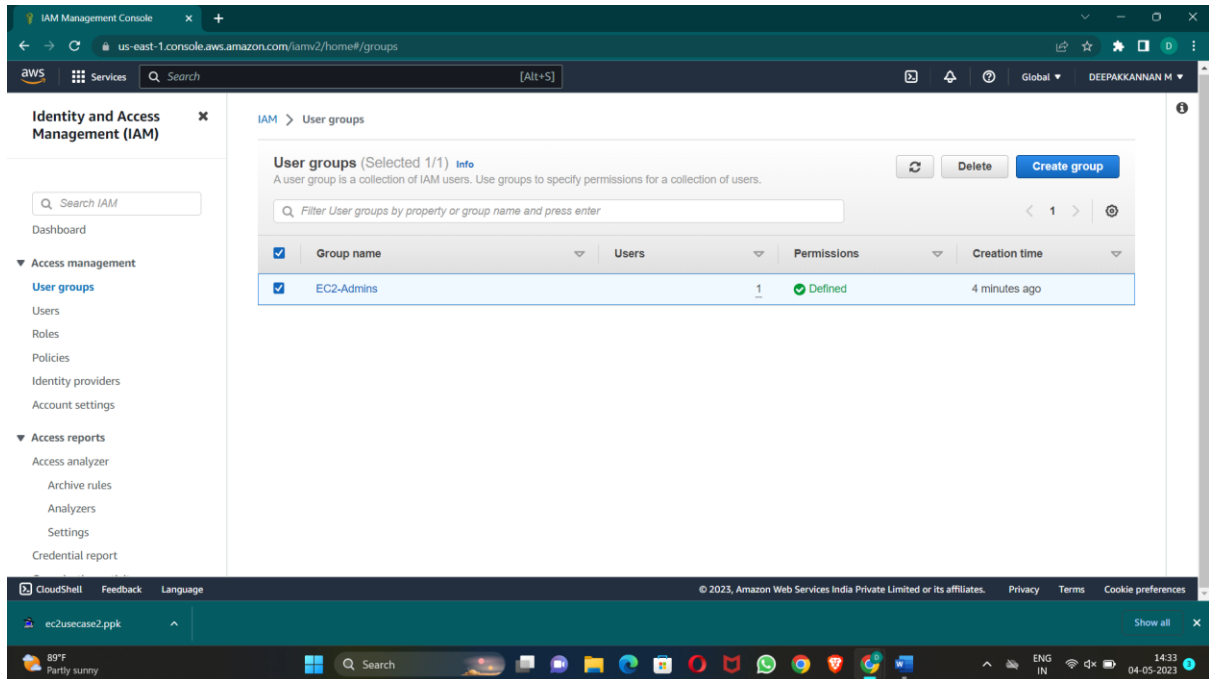
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
myinst12709	i-04dd91757e25ceee1	Terminated	t2.micro	-	No alarms	ap-south-1b	-
ec2usecase1	i-0833c52aa9a273051	Running	t2.micro	Initializing	No alarms	ap-south-1b	ec2-43-204-100-
ec2usecase2	i-001e4f0c178ebcdff	Terminated	t2.micro	-	No alarms	ap-south-1b	-
ec2usecase2	i-01a8c7a7d8bf6a257	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-65-2-70-70-
ec2usecase1	i-0300793c4b6e399c4	Terminated	t2.micro	-	No alarms	ap-south-1a	-

Name	Security group rule ID	Port range	Protocol	Source	Security groups
-	sgr-01e1d5316ed064127	3389	TCP	0.0.0.0/0	launch-wizard-16

3.

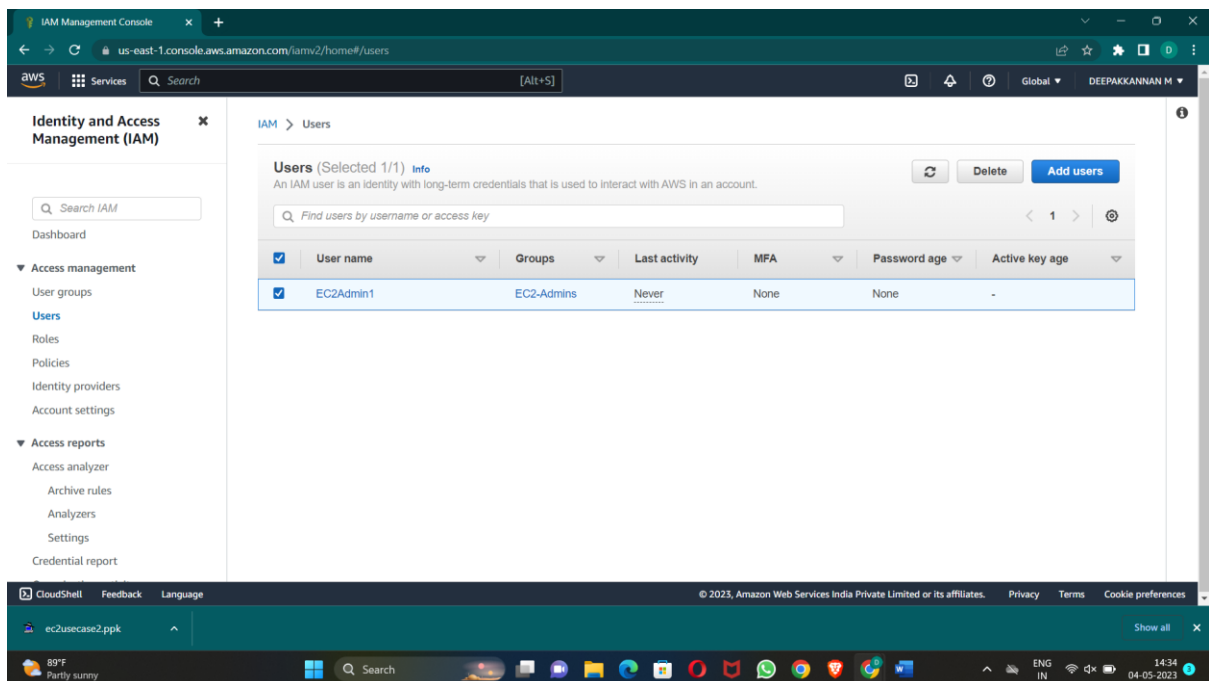
The name of the IAM group should be 'EC2-Admins'.

(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)

The screenshot shows the AWS IAM Management Console interface. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Access reports, and Credential report. The main content area is titled 'EC2-Admins' and shows the 'Permissions' tab. It displays a summary of the user group and a list of attached permissions policies. The policies listed are 'AmazonEC2FullAccess' and 'AutoScalingFullAccess', both of which are AWS managed policies.

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.

The screenshot shows the AWS IAM Management Console interface for a specific user, 'EC2Admin1'. The left sidebar is the same as the previous screenshot. The main content area is titled 'EC2Admin1' and shows the 'Permissions' tab. It displays a summary of the user and a list of attached permissions policies. The policies listed are 'AmazonEC2FullAccess' and 'AutoScalingFullAccess', both of which are AWS managed policies. The 'Attached via' column shows that these policies are attached directly to the user group 'EC2-Admins'.

Policy name	Type	Attached via
AmazonEC2FullAccess	AWS managed	Directly, Group EC2-Admins
AutoScalingFullAccess	AWS managed	Directly, Group EC2-Admins