

AWS CLOUD COMPUTING

CONTINUOUS ASSESSMENT – I

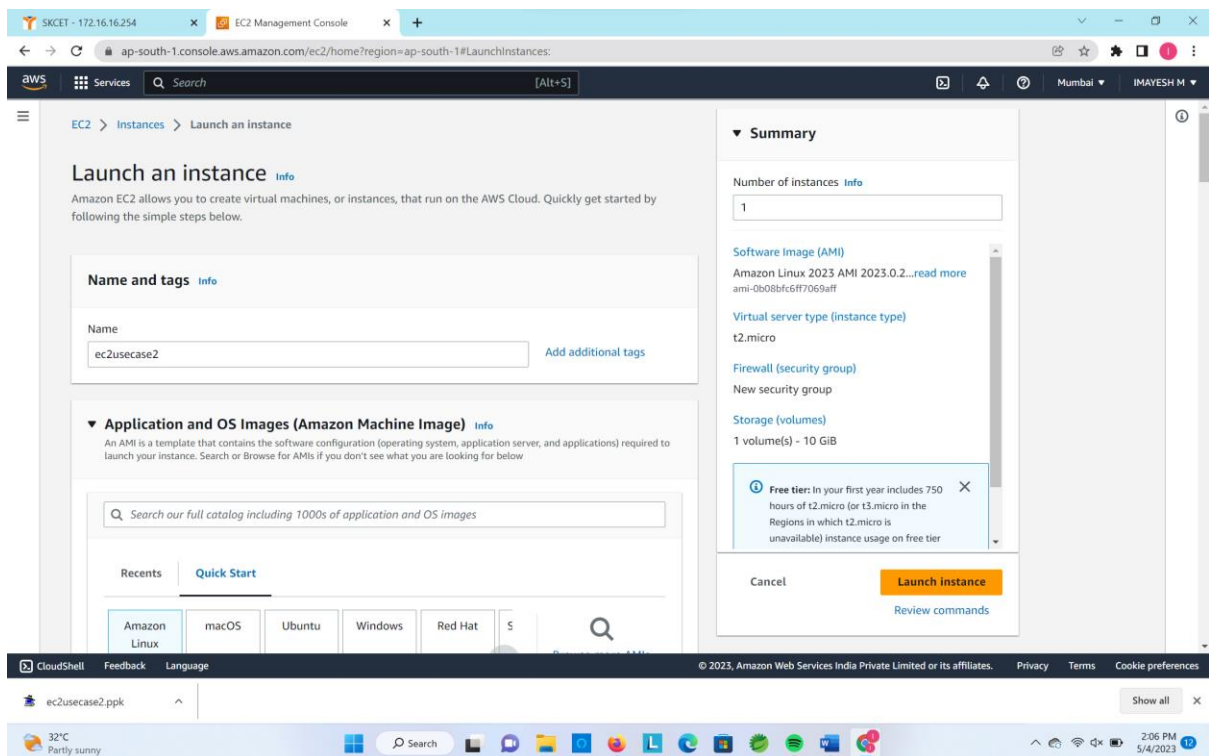
727721EUIT055

M.IMAYESH

Question-1:

1.

Server:



Keypair:

Instance type: 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

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

Network Info: vpc-0335f96b683bef23b

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) - 10 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) instance usage on free tier

Launch instance

2.

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

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-0b08bfc6ff7069aff (64-bit (x86)) / ami-0d583450f458cd8aa (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: 64-bit (x86)

AMI ID: 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

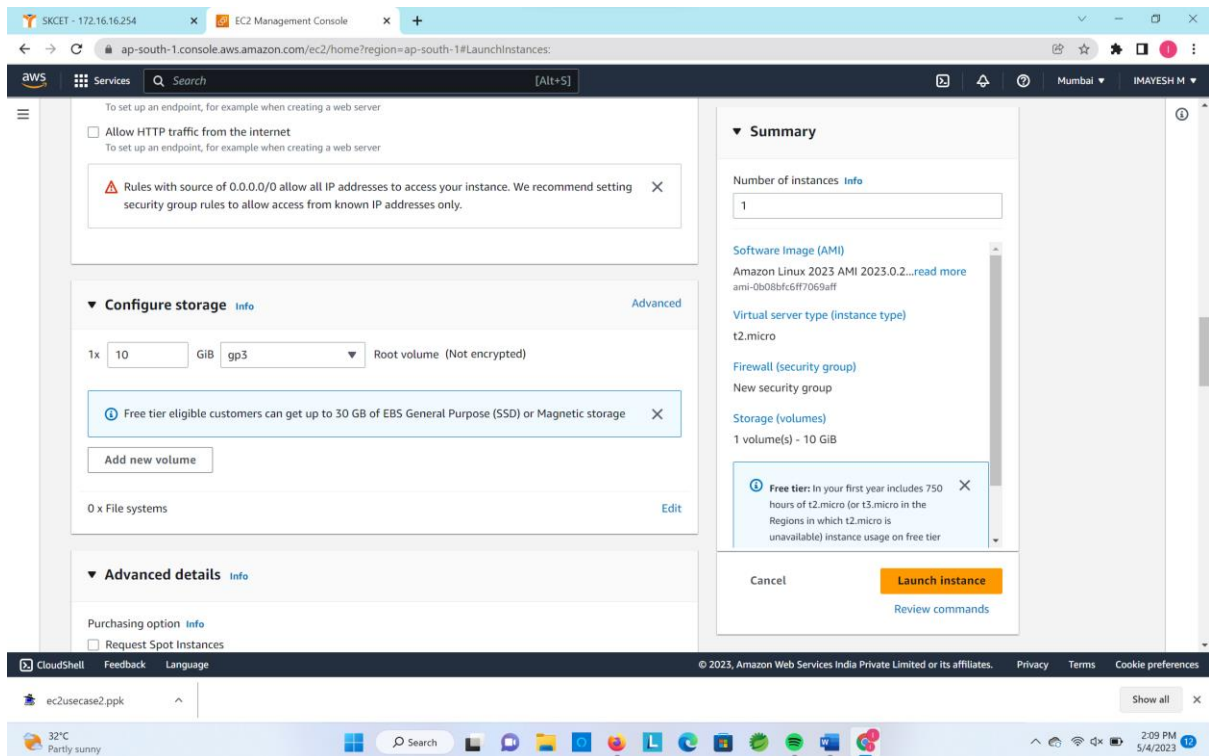
Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 10 GiB

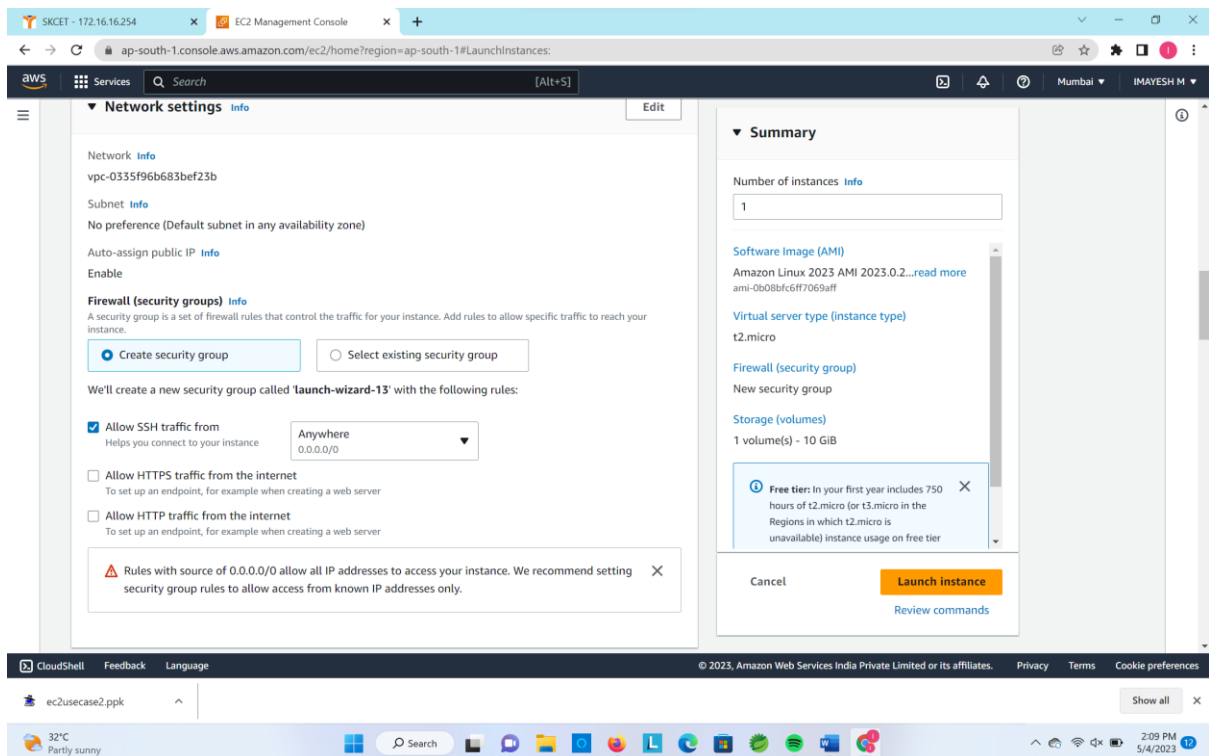
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

Launch instance

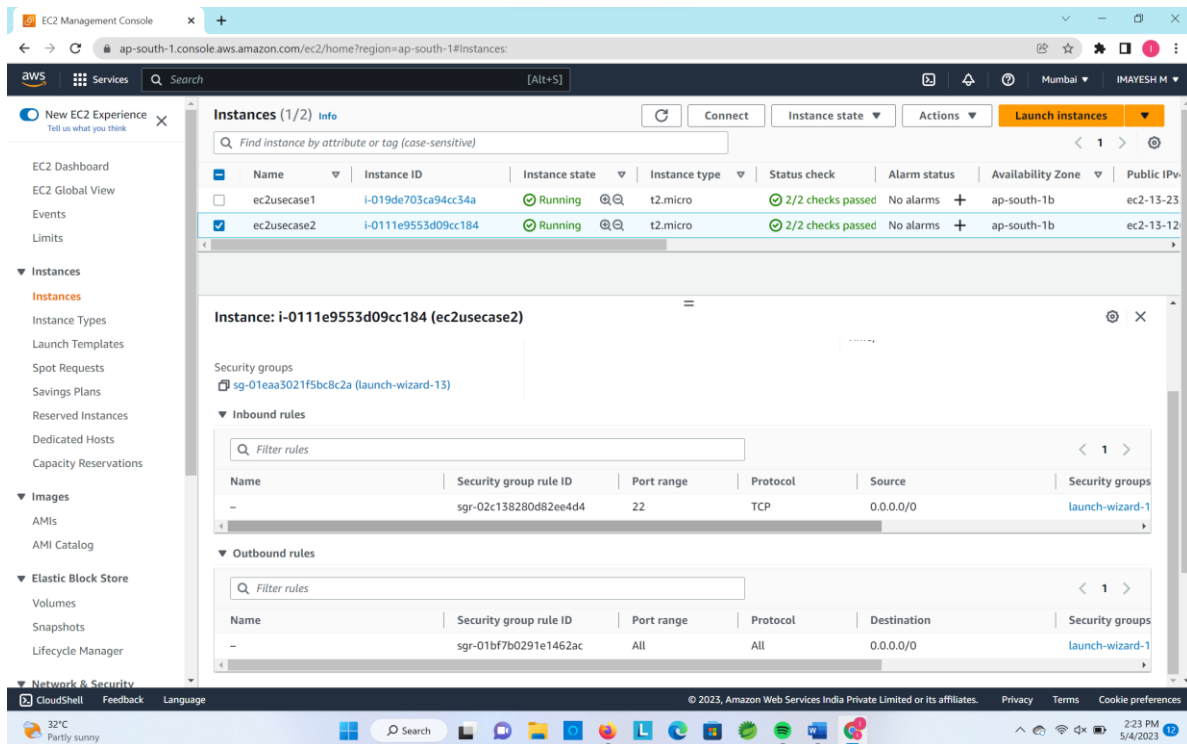
3.



4.



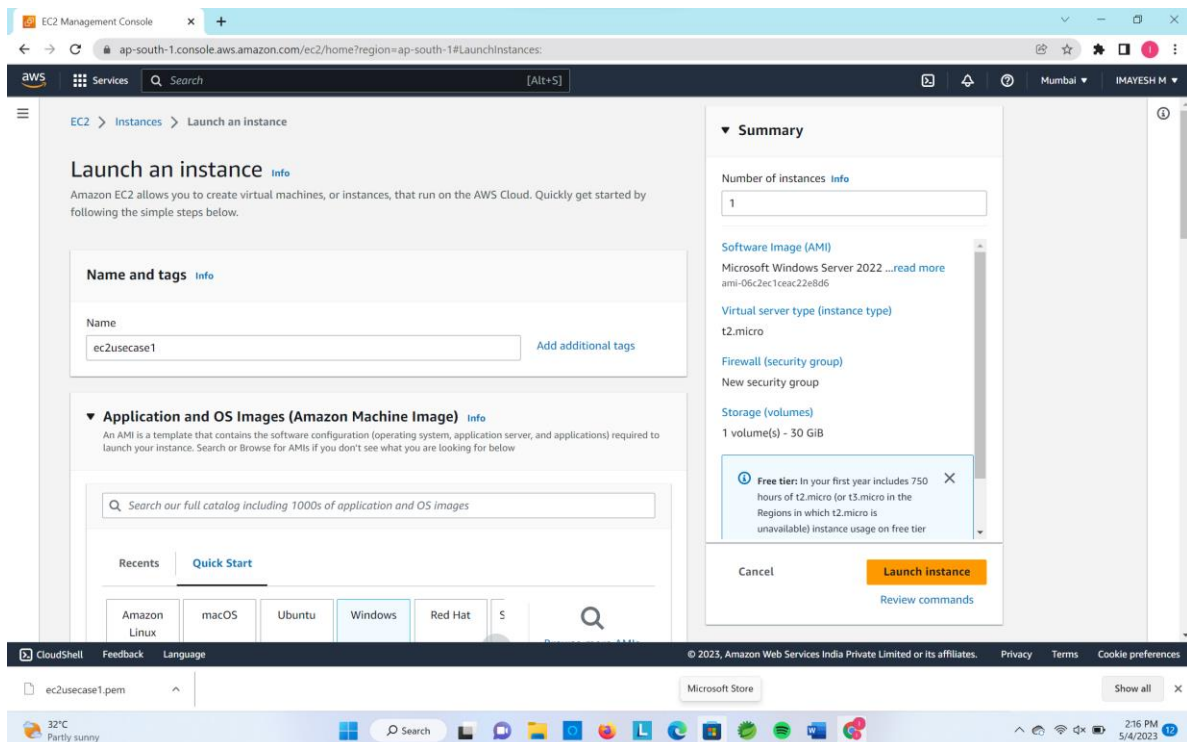
Creation of EC2 Instance:



Question-2:

1.

Server:



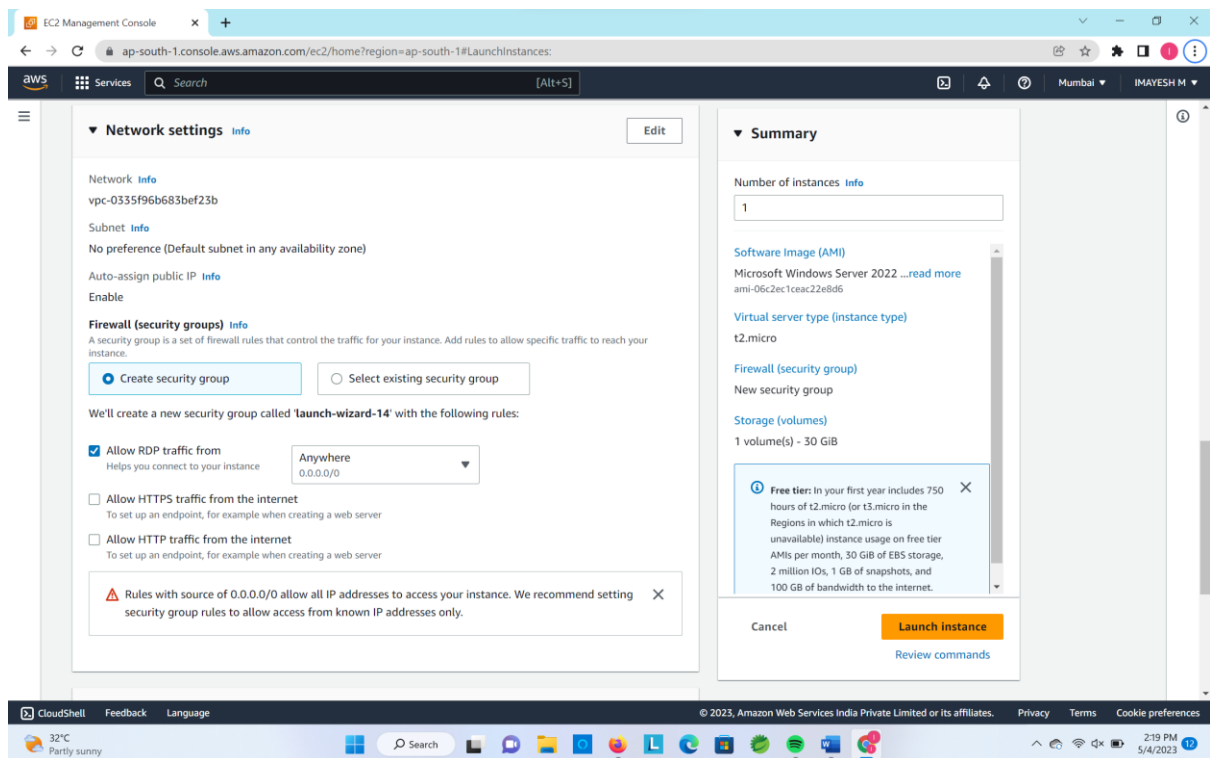
Keypair:

The screenshot shows the AWS Management Console 'Launch Instance' wizard. The 'Instance type' is set to t2.micro. The 'Key pair (login)' section shows a key pair named 'ec2usecase1'. The 'Network settings' section shows a VPC and Subnet. The 'Summary' section shows the number of instances as 1. The 'Launch Instance' button is highlighted.

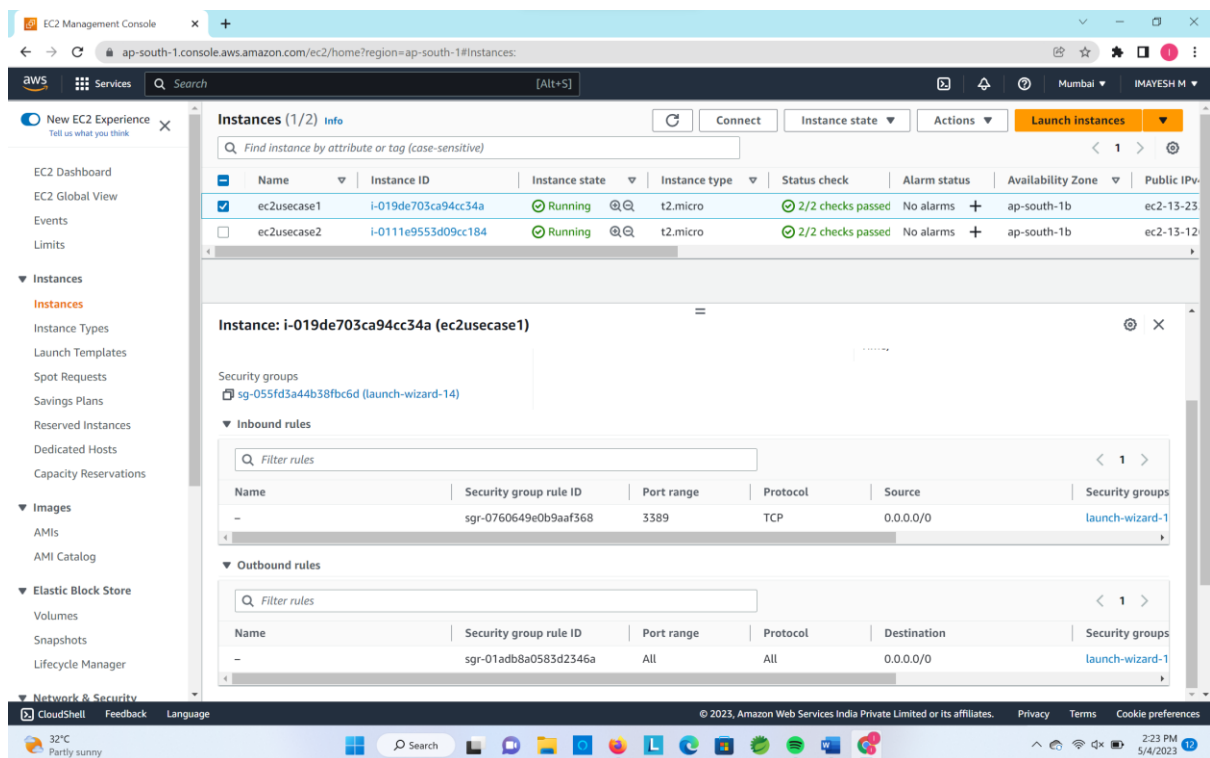
2.

The screenshot shows the AWS Management Console 'Application and OS Images (Amazon Machine Image)' section. The 'Quick Start' tab is selected, showing a list of AMIs. The 'Microsoft Windows Server 2022 Base' AMI is selected. The 'Summary' section shows the number of instances as 1. The 'Launch Instance' button is highlighted.

3,4.



Creation of EC2 Instance:



Question-3:

1.

The screenshot shows the AWS IAM Management Console interface. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, Access reports, and Related consoles. The main content area is titled 'Create user group' and includes a 'Name the group' section with a text input field containing 'EC2-Admins'. Below this is a section 'Add users to the group - Optional (1)' with a search bar and a table listing users. The table has columns for 'User name', 'Groups', 'Last activity', and 'Creation time'. One user, 'EC2Admin1', is listed with 0 groups, no last activity, and a creation time of '1 minute ago'. At the bottom, there is a section 'Attach permissions policies - Optional (843)' with a 'Create policy' button.

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
- Credential report
- Organization activity
- Service control policies (SCPs)

Related consoles

Feedback Language

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32°C Partly sunny

Search

2:27 PM 5/4/2023

2.

The screenshot shows the AWS IAM Management Console interface. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, Access reports, and Related consoles. The main content area is titled 'Users' and includes a 'Users (1)' section with a search bar and a table listing users. The table has columns for 'User name', 'Groups', 'Last activity', 'MFA', 'Password a...', and 'Active key age'. One user, 'EC2Admin1', is listed with 'None' for groups, 'Never' for last activity, 'None' for MFA, 'None' for password age, and '-' for active key age. A green banner at the top of the main content area states 'User created successfully' and provides instructions on how to view and download the user's password and email instructions for signing in to the AWS Management Console. A 'View user' button is also present.

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
- Credential report
- Organization activity
- Service control policies (SCPs)

Related consoles

Feedback Language

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Search

2:25 PM 5/4/2023

Adding the User with 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 (Selected 1/1) [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

<input checked="" type="checkbox"/>	User name	Groups	Last activity	Creation time
<input checked="" type="checkbox"/>	EC2Admin1	0	None	3 minutes ago

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 permissions that are defined in the selected policies.

Filter policies by property or policy name and press enter.

3.

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. 28 matches

EC2 X Clear filters

<input checked="" type="checkbox"/>	Policy name	Type	Description
<input checked="" type="checkbox"/>	AmazonEC2FullAccess	AWS managed	Provides full access to Amazon EC2 via the AWS Manage...
<input type="checkbox"/>	AmazonEC2ReadOnlyAccess	AWS managed	Provides read only access to Amazon EC2 via the AWS M...
<input type="checkbox"/>	AmazonElasticMapReduceforEC2Role	AWS managed	Default policy for the Amazon Elastic MapReduce for EC2...
<input type="checkbox"/>	AmazonEC2RoleforDataPipelineRole	AWS managed	Default policy for the Amazon EC2 Role for Data Pipeline ...
<input type="checkbox"/>	AmazonEC2ContainerServiceforEC2Role	AWS managed	Default policy for the Amazon EC2 Role for Amazon EC2 ...
<input type="checkbox"/>	AmazonEC2ContainerServiceRole	AWS managed	Default policy for Amazon ECS service role.
<input type="checkbox"/>	AmazonEC2RoleforAWSCodeDeploy	AWS managed	Provides EC2 access to S3 bucket to download revision. ...
<input type="checkbox"/>	AmazonEC2RoleforSSM	AWS managed	This policy will soon be deprecated. Please use AmazonS...
<input type="checkbox"/>	CloudWatchActionsEC2Access	AWS managed	Provides read-only access to CloudWatch alarms and met...
<input type="checkbox"/>	AmazonEC2ContainerRegistryReadOnly	AWS managed	Provides read-only access to Amazon EC2 Container Reg...
<input type="checkbox"/>	AmazonEC2ContainerRegistryPowerUser	AWS managed	Provides full access to Amazon EC2 Container Registry r...
<input type="checkbox"/>	AmazonEC2ContainerRegistryFullAccess	AWS managed	Provides administrative access to Amazon ECR resources

4.

The screenshot shows the AWS IAM Management Console interface. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, Access reports, and Related consoles. The main content area is titled 'Attach permissions policies - Optional (Selected 2/843)'. It displays a list of 16 AWS managed policies. The 'AutoScalingFullAccess' policy is selected, indicated by a blue checkmark in the first column. The policy description states: 'Provides full access to Auto Scaling.' The bottom of the console shows a Windows taskbar with various application icons and a system tray displaying the date and time as 2:31 PM on 5/4/2023.

	Policy name	Type	Description
<input type="checkbox"/>	AutoScalingNotificationAccessRole	AWS managed	Default policy for the AutoScaling Notification Access servi...
<input type="checkbox"/>	AmazonEC2ContainerServiceAutoscaleRole	AWS managed	Policy to enable Task Autoscaling for Amazon EC2 Contai...
<input type="checkbox"/>	AmazonEC2SpotFleetAutoscaleRole	AWS managed	Policy to enable Autoscaling for Amazon EC2 Spot Fleet
<input type="checkbox"/>	AmazonElasticMapReduceforAutoScalingRole	AWS managed	Amazon Elastic MapReduce for Auto Scaling. Role to allo...
<input type="checkbox"/>	AmazonSSMAutomationRole	AWS managed	Provides permissions for EC2 Automation service to exec...
<input checked="" type="checkbox"/>	AutoScalingFullAccess	AWS managed	Provides full access to Auto Scaling.
<input type="checkbox"/>	AutoScalingReadOnlyAccess	AWS managed	Provides read-only access to Auto Scaling.
<input type="checkbox"/>	AutoScalingConsoleFullAccess	AWS managed	Provides full access to Auto Scaling via the AWS Manage...
<input type="checkbox"/>	AutoScalingConsoleReadOnlyAccess	AWS managed	Provides read-only access to Auto Scaling via the AWS M...
<input type="checkbox"/>	ApplicationAutoScalingForAmazonAppStrea...	AWS managed	Policy to enable Application Autoscaling for Amazon AppS...
<input type="checkbox"/>	AmazonSSMAutomationApproverAccess	AWS managed	Provides access to view automation executions and send ...
<input type="checkbox"/>	AmazonRoute53AutoNamingReadOnlyAccess	AWS managed	Provides read-only access to all Route 53 Auto Naming a...
<input type="checkbox"/>	AmazonRoute53AutoNamingFullAccess	AWS managed	Provides full access to all Route 53 Auto Naming actions.

Creation of IAM Group:

The screenshot shows the AWS IAM Management Console interface after creating a new user group. A green notification banner at the top states 'EC2-Admins user group created.' with a 'View group' button. The main content area is titled 'User groups (Selected 1/1)'. It displays a table with one user group, 'EC2-Admins', which has 1 user, is in a 'Defined' state, and was created 'Now'. The bottom of the console shows a Windows taskbar with various application icons and a system tray displaying the date and time as 2:31 PM on 5/4/2023.

	Group name	Users	Permissions	Creation time
<input checked="" type="checkbox"/>	EC2-Admins	1	Defined	Now