

Week-2 Identity and Access Management (IAM)

Name- Saish Dhiwar

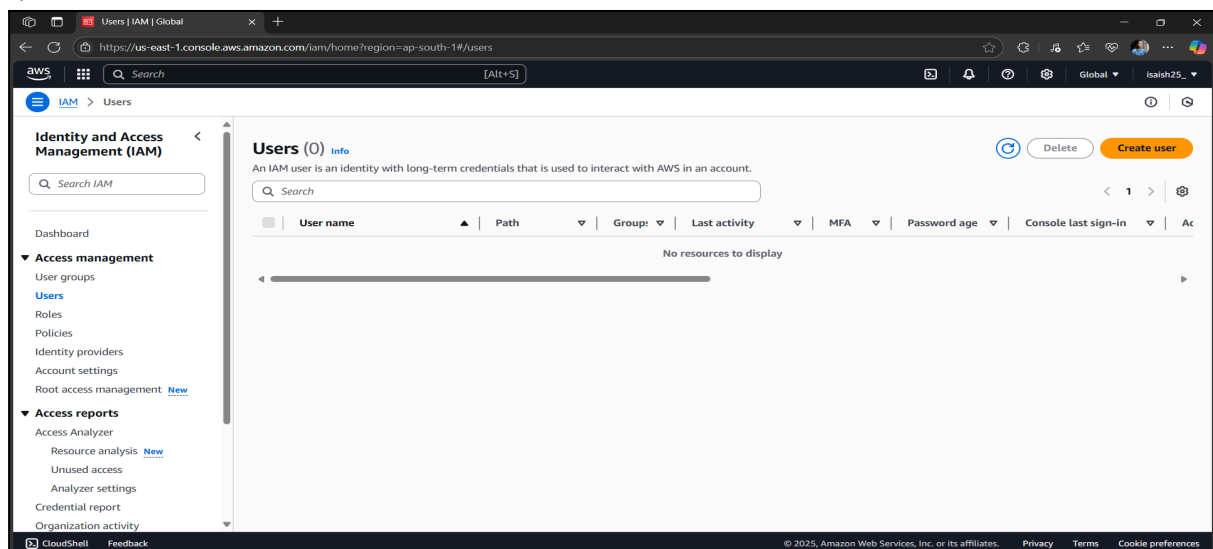
PRN- 2124UCSM2011

Email- saish.dhiwar_24ucs@sanjivani.edu.in

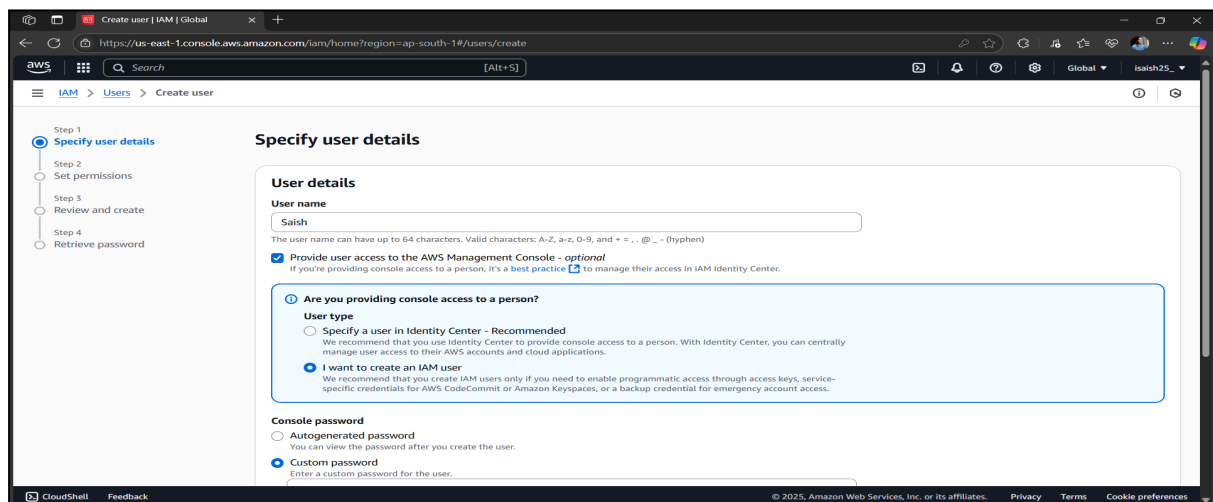
- Task-**
- 1) Create IAM users, groups, and roles.
 - 2) Apply the least privilege principle.
 - 3) Document policies and screenshots.

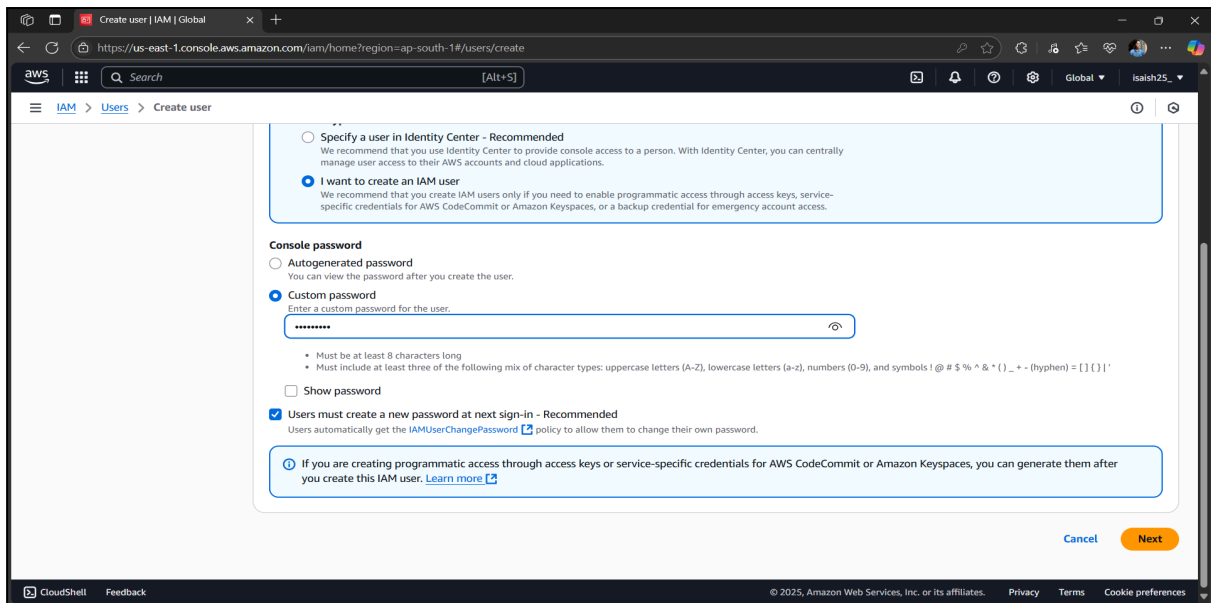
Steps to Create IAM Users, Groups, Roles-

- 1) Sign in to AWS Console, go to: <https://aws.amazon.com/>, sign in using your root user or IAM user.
- 2) Create IAM User, Go to IAM→ Users→ Click on Create user.

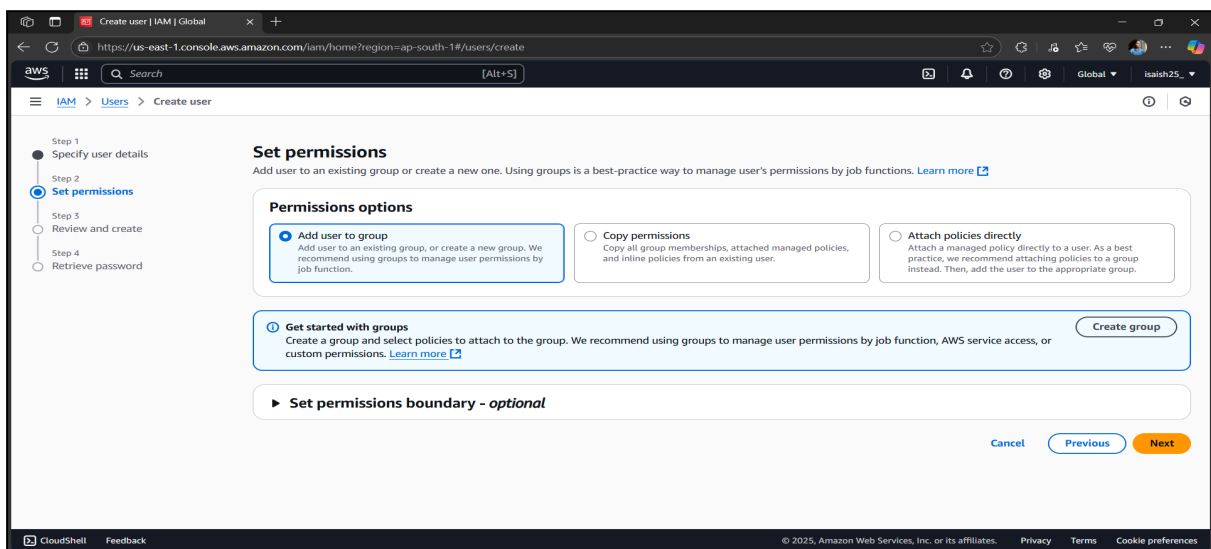


- 3) Enter the User name, Select AWS Management Console access, then check the custom password and reset the password and click Next Button.

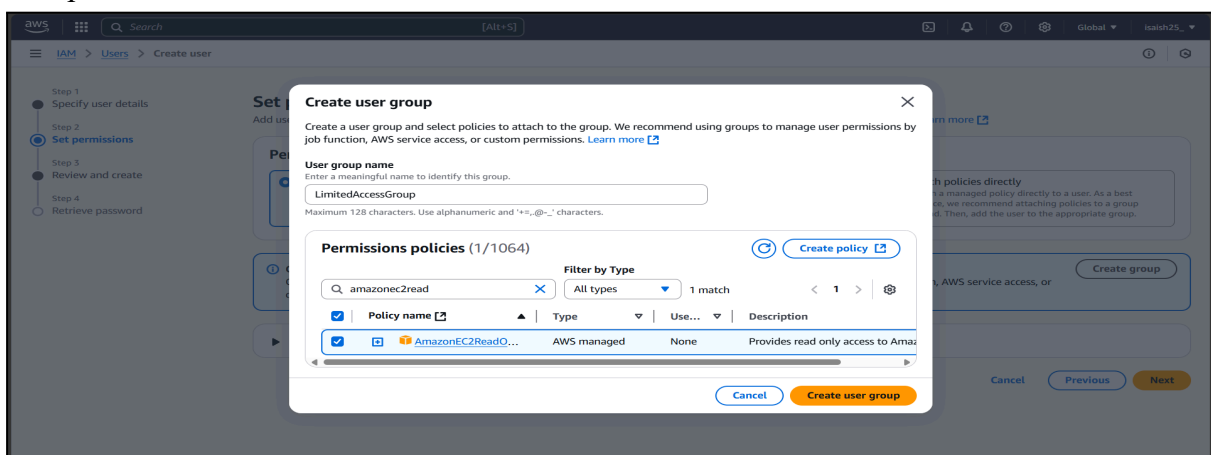




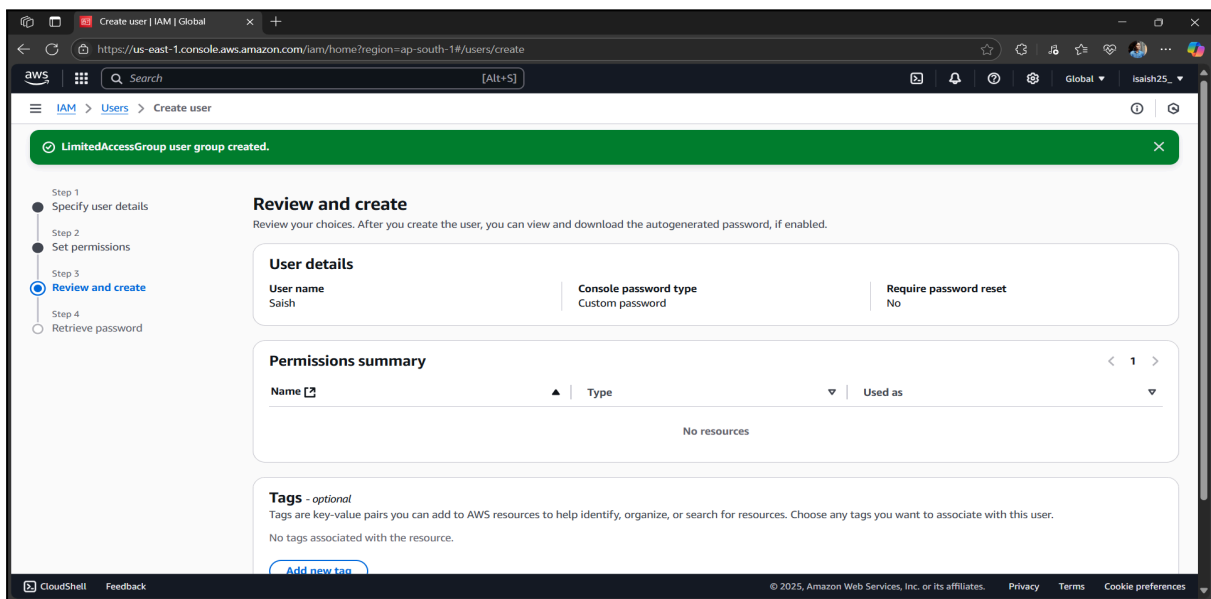
4) Set the permission and then click Create Group.



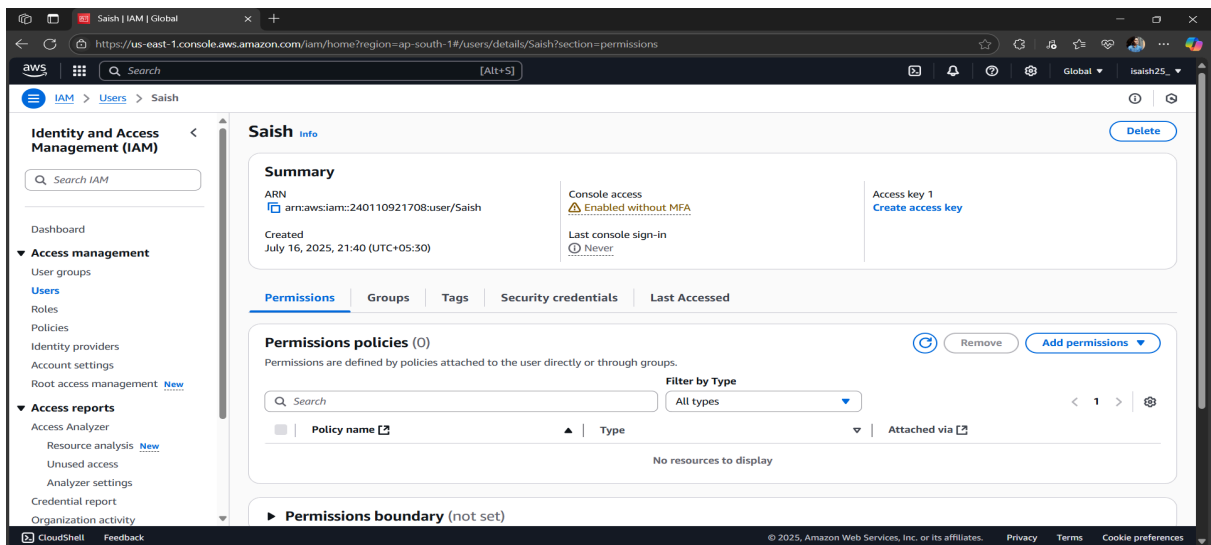
5) Enter the User group name, select the Permissions policies, and then click the Create User Group.



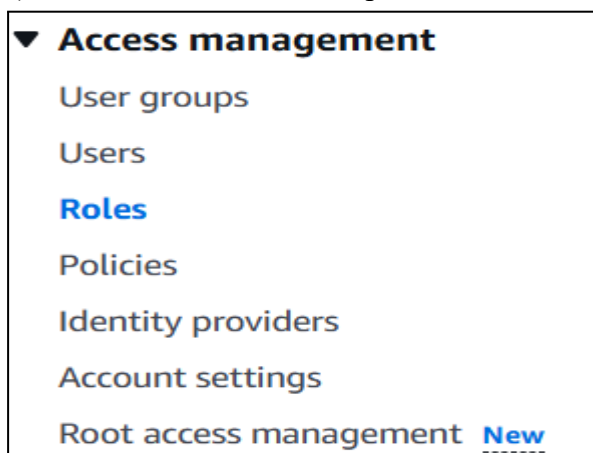
6) Click the Create user button.



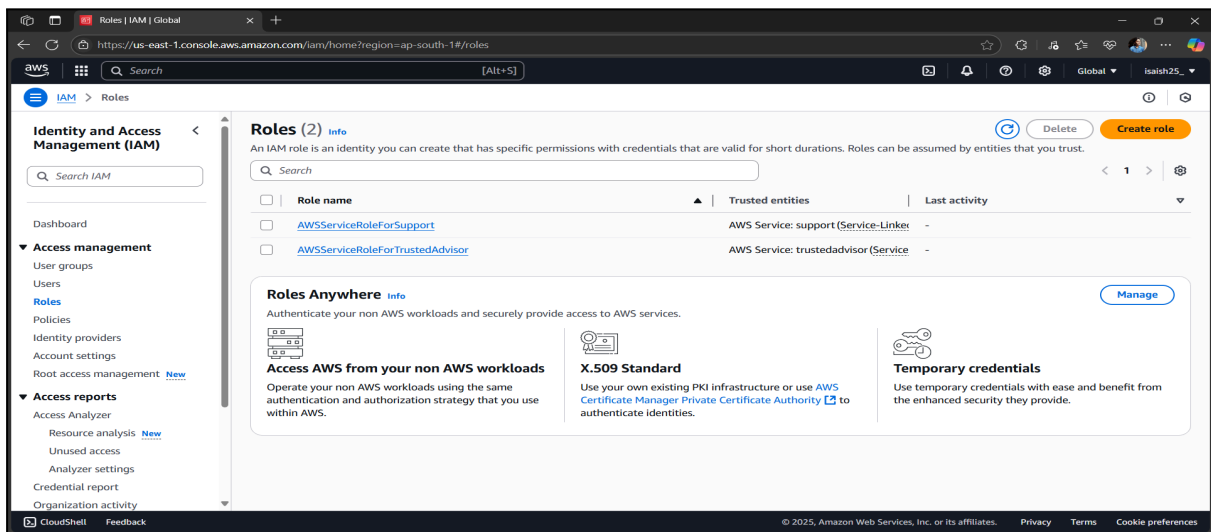
7) User Created Successfully.



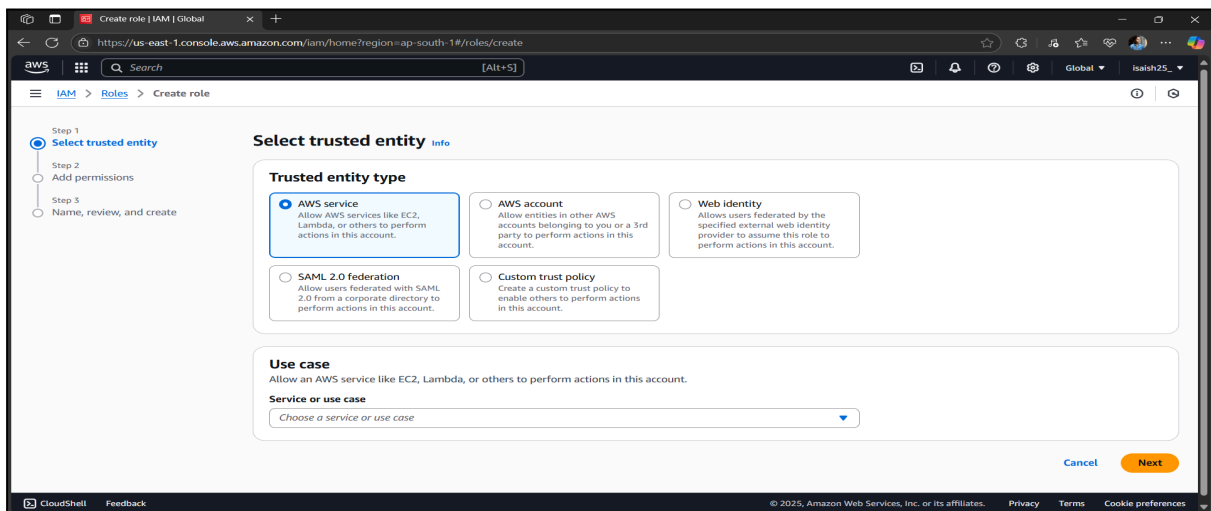
8) Create Role, click Role Option.



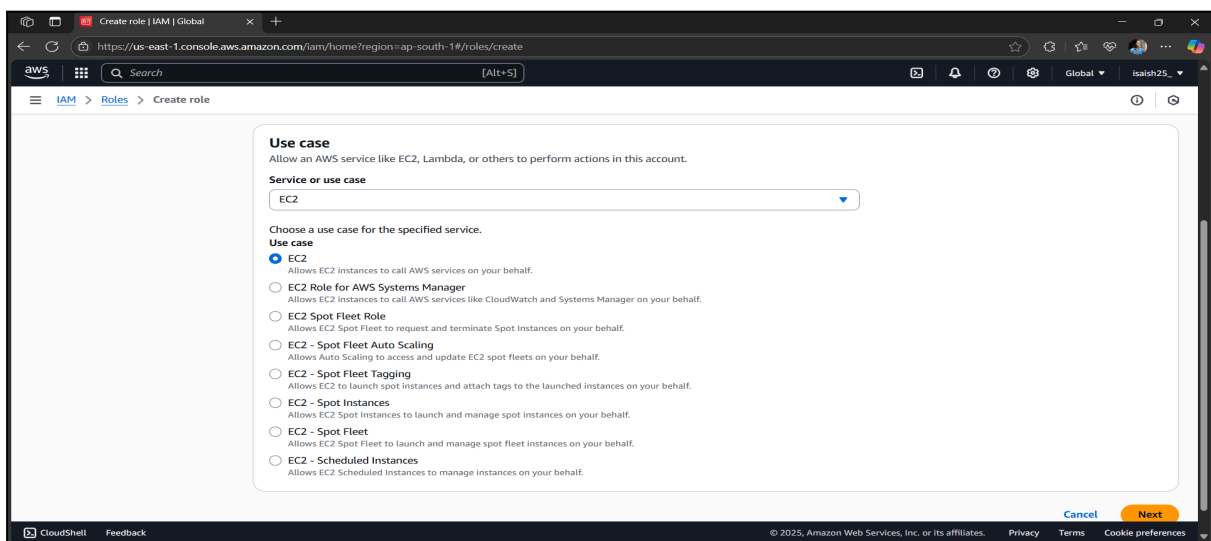
9) Click Create Role



10) Then select Trusted Entity.



11) Select the use case EC2, and then click Next.



12) Attach the policies `AmazonS3ReadOnlyAccess` and `CloudWatchAgentServerPolicy` and click the `Next` button.

Add permissions

Permissions policies (1/1064)

Choose one or more policies to attach to your new role.

amazonS3read

Filter by Type

All types

1 match

☒

Policy name

☒

AmazonS3ReadOnlyAccess

AWS managed

Provides read only access to all buckets v...

Set permissions boundary - optional

Cancel

Previous

Next

Add permissions

Permissions policies (2/1064)

Choose one or more policies to attach to your new role.

cloudwatchagent

Filter by Type

All types

2 matches

	Policy name	Type	Description
<input type="checkbox"/>	CloudWatchAgentAdminPolicy	AWS managed	Full permissions required to use Amazon...
<input checked="" type="checkbox"/>	CloudWatchAgentServerPolicy	AWS managed	Permissions required to use AmazonClou...

► Set permissions boundary - optional

Cancel

Previous

Next

13) Give the Role details like name and description.

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and '+,=,_,-' characters.

Description
Add a short explanation for this role.

Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _+.,@-/\[\]#\$%^&*~:~'"

14) Select Trusted Entities and check the permission.

Step 1: Select trusted entities

Trust policy

```

1 < [
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "sts:AssumeRole"
8       ],
9       "Principal": {
10        "Service": [
11          "ec2.amazonaws.com"
12        ]
13      }
14    ]
15  ]
16 }

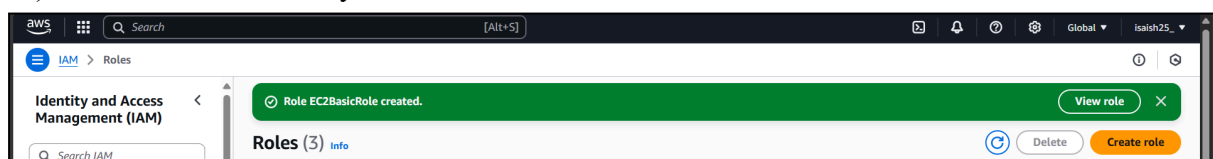
```

Step 2: Add permissions

Permissions policy summary

Policy name	Type	Attached as
AmazonS3ReadOnlyAccess	AWS managed	Permissions policy
CloudWatchAgentServerPolicy	AWS managed	Permissions policy

15) The role is successfully created.



Apply the least privilege principle.

This screenshot shows the AWS IAM console for the 'LimitedAccessGroup'. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, and Access reports. The main content area displays the 'Permissions' tab for the group. It shows a summary with the group name 'LimitedAccessGroup', creation time 'July 16, 2025, 21:40 (UTC+05:30)', and ARN 'arn:aws:iam::240110921708:group/LimitedAccessGroup'. Below the summary, there are tabs for 'Users', 'Permissions', and 'Access Advisor'. The 'Permissions' tab shows 'Permissions policies (1)' and a table with one policy: 'AmazonEC2ReadOnlyAccess', which is AWS managed and attached to the group.

This screenshot shows the AWS IAM console for the 'Saish' user. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, and Access reports. The main content area displays the 'Permissions' tab for the user. It shows a summary with the user name 'Saish', ARN 'arn:aws:iam::240110921708:user/Saish', creation time 'July 16, 2025, 21:40 (UTC+05:30)', and console access status 'Enabled without MFA'. Below the summary, there are tabs for 'Permissions', 'Groups', 'Tags', 'Security credentials', and 'Last Accessed'. The 'Permissions' tab shows 'Permissions policies (0)' and a message 'No resources to display'.

This screenshot shows the AWS IAM console for the 'EC2BasicRole'. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, and Access reports. The main content area displays the 'Permissions' tab for the role. It shows a summary with the role name 'EC2BasicRole', creation date 'July 16, 2025, 22:40 (UTC+05:30)', ARN 'arn:aws:iam::240110921708:role/EC2BasicRole', and instance profile ARN 'arn:aws:iam::240110921708:instance-profile/EC2BasicRole'. Below the summary, there are tabs for 'Permissions', 'Trust relationships', 'Tags', 'Last Accessed', and 'Revoke sessions'. The 'Permissions' tab shows 'Permissions policies (2)' and a table with two policies: 'AmazonS3ReadOnlyAccess' and 'CloudWatchAgentServerPolicy', both of which are AWS managed and attached to the role.