

School of Computer Science, Engineering and Applications(SCSEA)
B.C.A. TY (CCSA)
Subject : Infrastructure Orchestration (P)

Name of the Student: Shrushti Krishna Shrivastav **PRN:** 20220801024

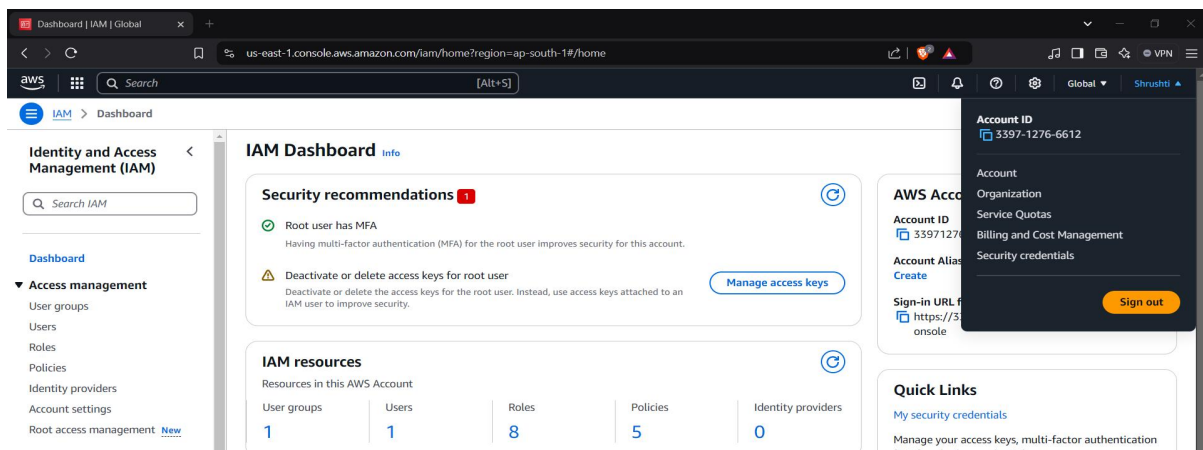
Title of Practical : Enabling Cross-Account Access in AWS for Secure Resource Sharing

Note--

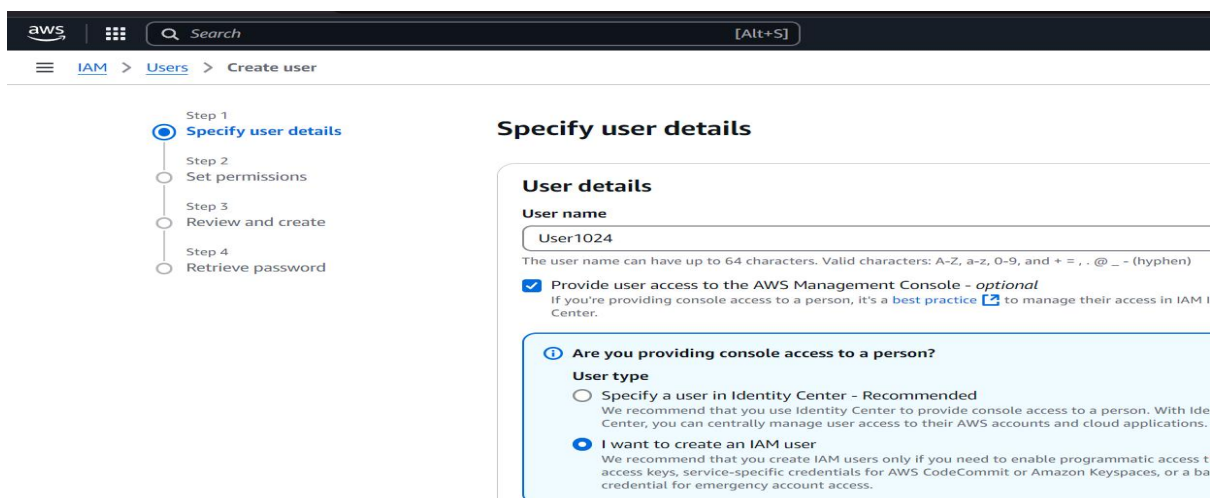
You must have 2 different aws account.

(first Account Id-- 3397-1276-6612 ; Second Account Id-- 2960-6256-1992)

STEP1: Login with first account and create one user



Provide user name and management access---





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We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

Console password

☐ Autogenerated password

You can view the password after you create the user.

☒ Custom password

Enter a custom password for the user.

user@0801024

- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), hyphen (-), underscore (_), equals (=), space, at-sign (@), dollar sign (\$), percent sign (%), asterisk (*), hash (#), tilde (~), colon (:), semicolon (;), comma (,), apostrophe ('), double quote (").

☒ Show password

☐ Users must create a new password at next sign-in - Recommended

Users automatically get the [IAMUserChangePassword](#) policy to allow them to change their own password.

i If you are creating programmatic access through access keys or service-specific credentials, you can generate them after you create this IAM user. [Learn more](#)

Create custom password so you can remember that

Uncheck the box for new password at sign-in

And proceed for next step--

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Permission for administrator access--

Set permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Permissions options

☐ Add user to group

Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

☐ Copy permissions

Copy all group memberships, attached managed policies, and inline policies from an existing user.

☒ Attach policies directly

Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

Permissions policies (1/1285)

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



[Create policy](#)

Filter by Type			
<input type="text" value="Search"/>		All types	
<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	AccessAnalyzerServiceRolePol...	AWS managed	0
<input checked="" type="checkbox"/>	AdministratorAccess	AWS managed - job function	1

Ensure everything is correct and create user--

Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

User details

User name
User1024

Console password type
Custom password

Require password reset
No

Permissions summary

Name	Type	Used as
AdministratorAccess	AWS managed - job function	Permissions policy

Tags - optional

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 more tags.

[Cancel](#)

[Previous](#)

[Create user](#)



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Download the csv file for future reference

Retrieve password

You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password.

Console sign-in details[Email sign-in instructions](#)

Console sign-in URL
 <https://339712766612.signin.aws.amazon.com/console>

User name
 User1024

Console password
 user@0801024 [Hide](#)

[Cancel](#) [Download .csv file](#) [Return to users list](#)

STEP2: Login with second account and create one role

Sign in

☒ **Root user**
Account owner that performs tasks requiring unrestricted access. [Learn more](#)

☐ **IAM user**
User within an account that performs daily tasks. [Learn more](#)

Root user email address

ketakic09@gmail.com

Next

By continuing, you agree to the [AWS Customer Agreement](#) or other agreement for AWS services, and the [Privacy Notice](#). This site uses essential cookies. [See our](#)

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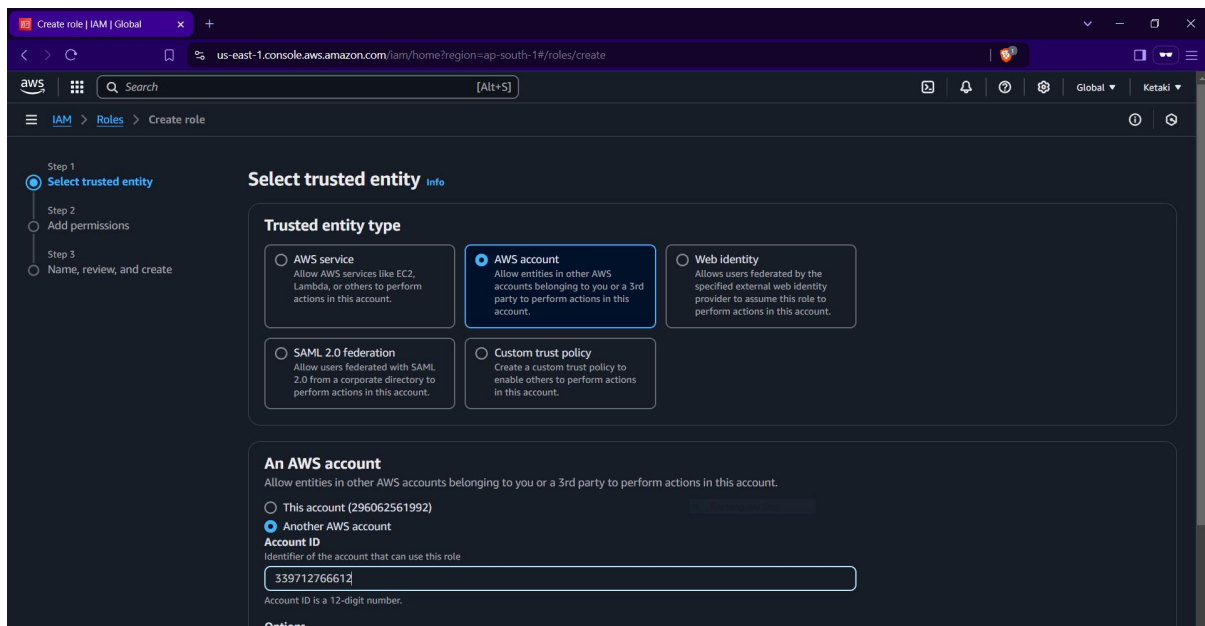
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This role is created for different account so provide the account id of first account.



Step 1: Select trusted entity

Select trusted entity Info

Trusted entity type

- ☐ AWS service
- ☒ AWS account
- ☐ Web identity
- ☐ SAML 2.0 federation
- ☐ Custom trust policy

An AWS account

☐ This account (296062561992)

☒ Another AWS account

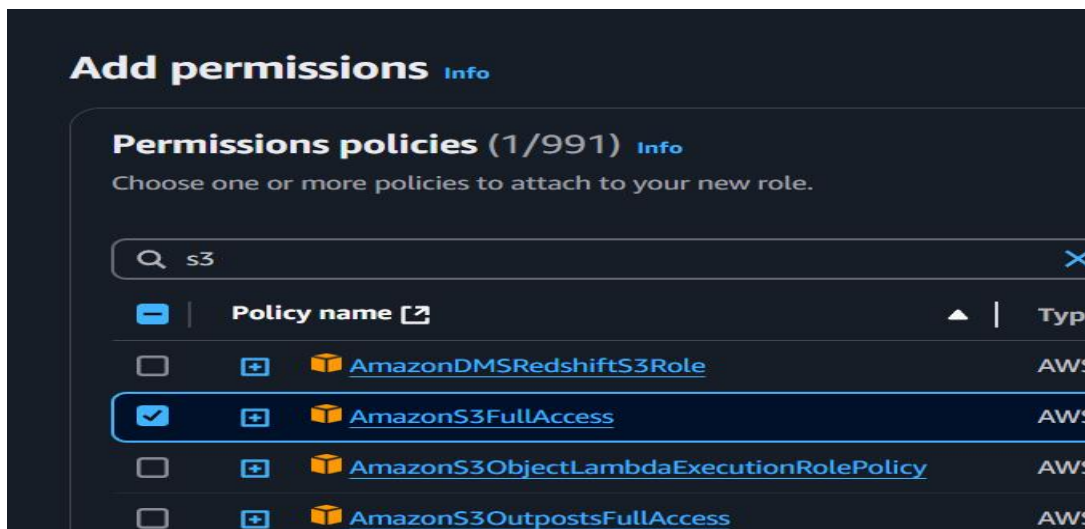
Account ID

Identifier of the account that can use this role

339712766612

Options

Add permission for s3 service only



Add permissions Info

Permissions policies (1/991) Info

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

Q s3

	Policy name	Type
<input type="checkbox"/>	AmazonDMSRedshiftS3Role	AWS
<input checked="" type="checkbox"/>	AmazonS3FullAccess	AWS
<input type="checkbox"/>	AmazonS3ObjectLambdaExecutionRolePolicy	AWS
<input type="checkbox"/>	AmazonS3OutpostsFullAccess	AWS

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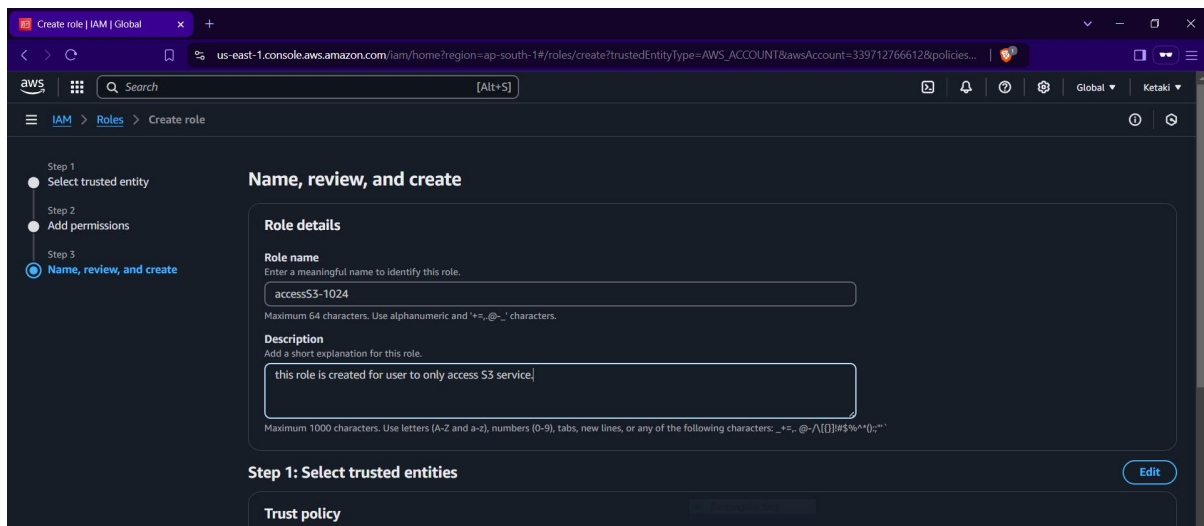
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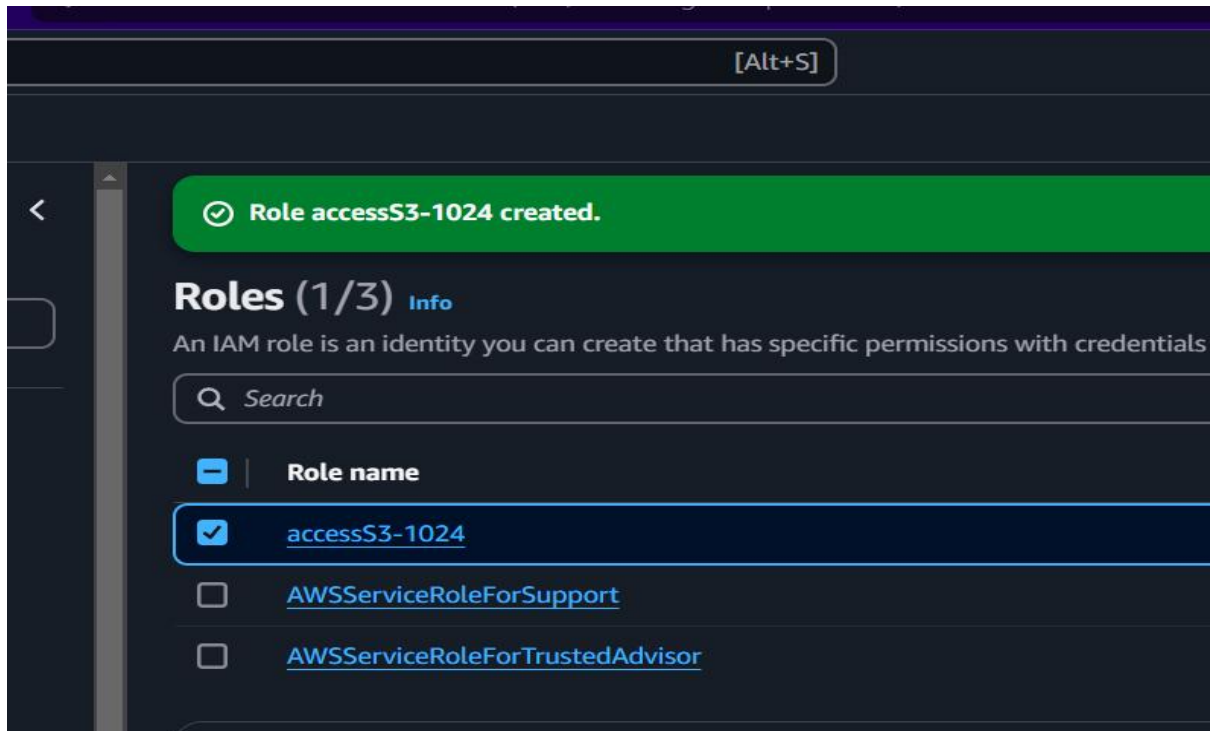
Title of Practical :

**Enabling Cross-Account Access in AWS for Secure
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Review and create--



The screenshot shows the AWS IAM console 'Create role' page, Step 3: Name, review, and create. The 'Role name' field is filled with 'accessS3-1024'. The 'Description' field contains 'this role is created for user to only access S3 service'. The 'Step 1: Select trusted entities' section is visible below.



The screenshot shows the AWS IAM console 'Roles' page. A green banner at the top states 'Role accessS3-1024 created.'. Below, the 'Roles (1/3)' section lists the roles. The role 'accessS3-1024' is selected with a checkmark. Other roles listed are 'AWSServiceRoleForSupport' and 'AWSServiceRoleForTrustedAdvisor'.



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STEP3: Login with IAM user-- (here give account id of First acc as we created user with that account.)

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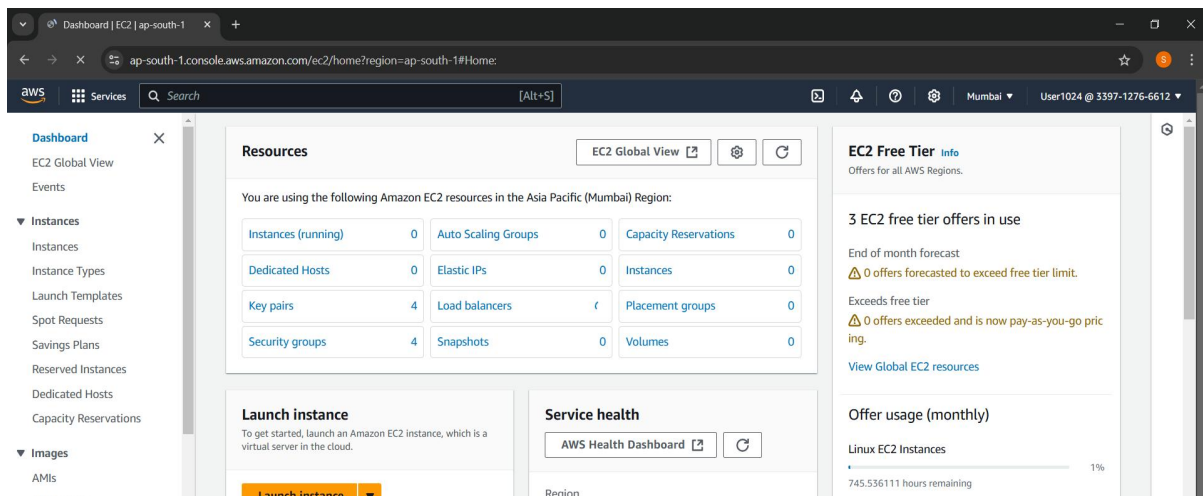
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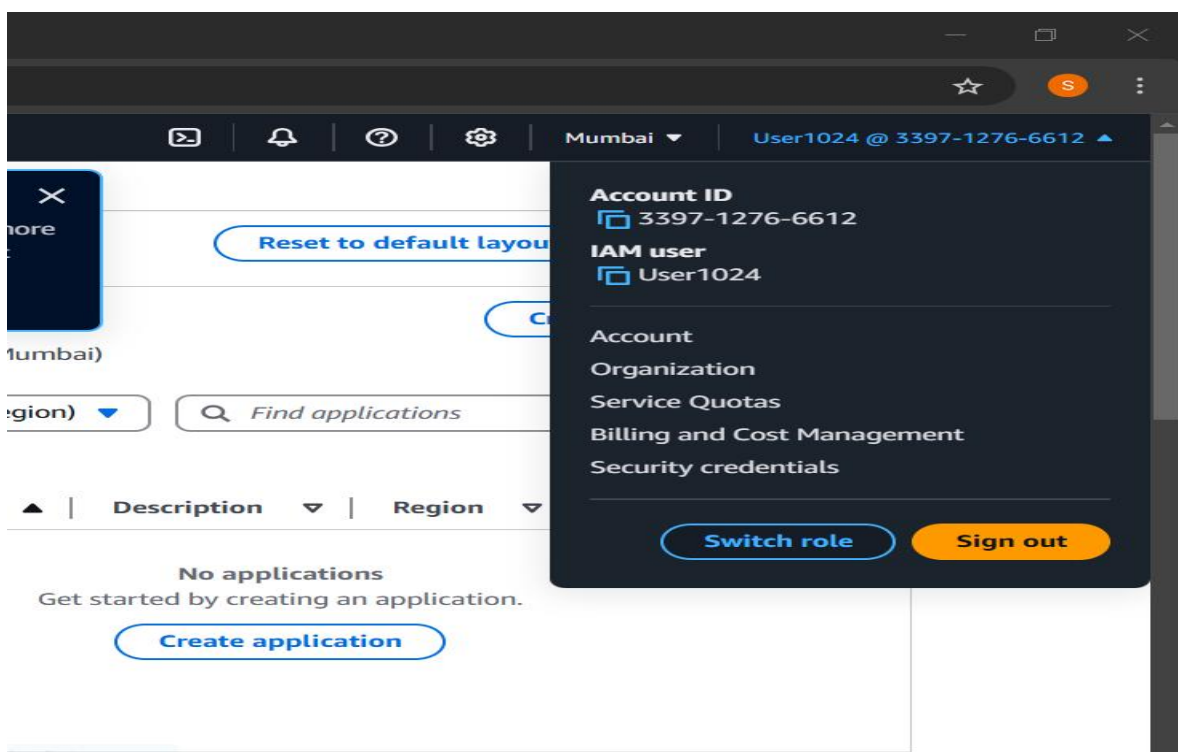
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Here user has access for all service (administrator access)



STEP4: Now switch role to access second account



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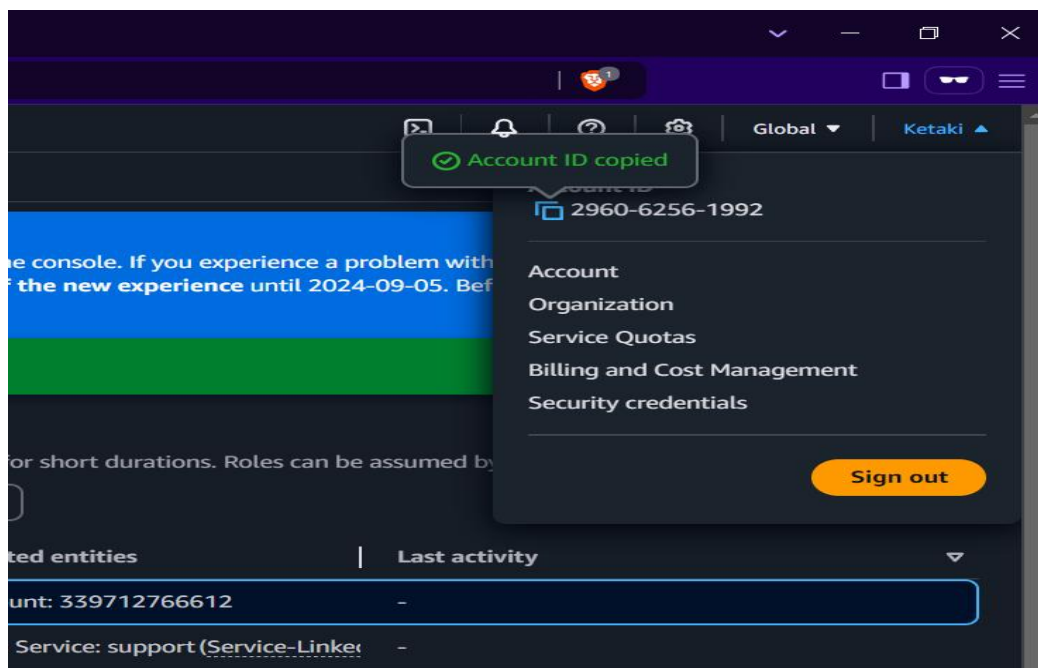
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We need account id to access -- copy account id of second account from which role was created--



To switch role , Fill all the necessary details--

Such as:

Account id--- the one we just got(refer above step).

Role name-- give name to this role so you can easily understand which role you want to access/switch .

Display name-- optional (for you to better understand role)

Display colour-- optional(to easily distinguish among various roles)

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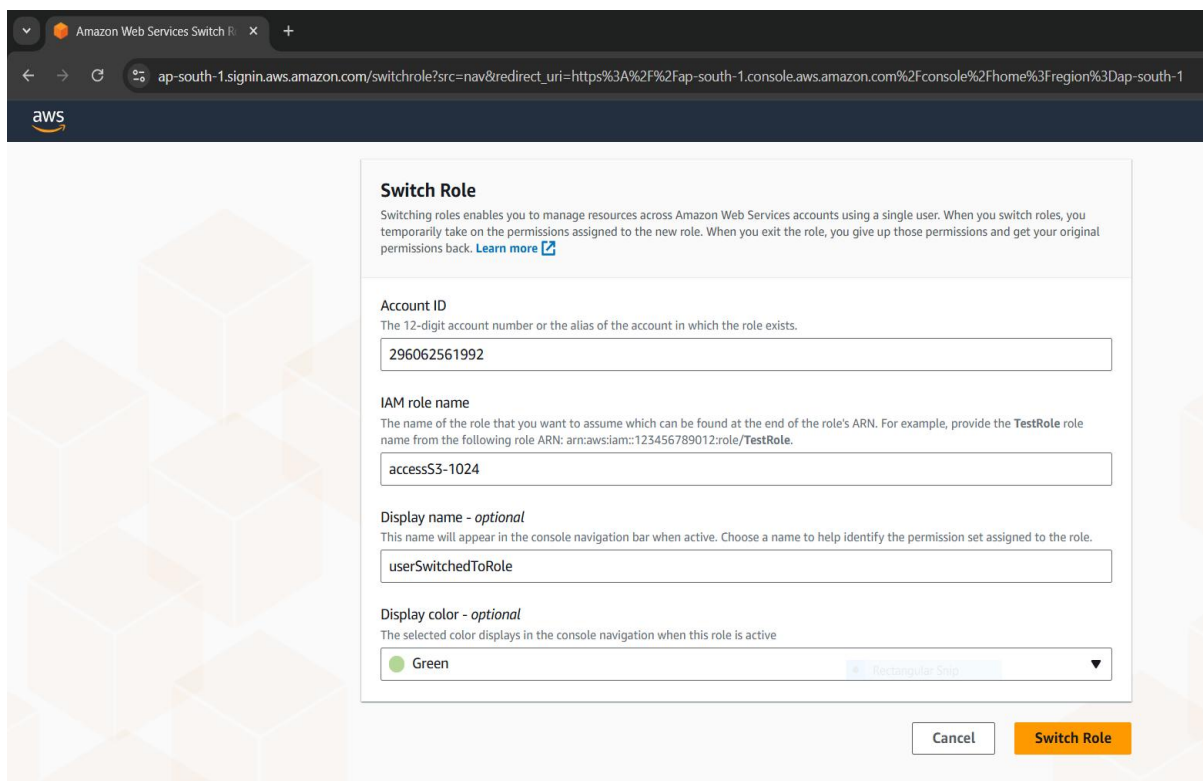
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Switch Role

Switching roles enables you to manage resources across Amazon Web Services accounts using a single user. When you switch roles, you temporarily take on the permissions assigned to the new role. When you exit the role, you give up those permissions and get your original permissions back. [Learn more](#)

Account ID
The 12-digit account number or the alias of the account in which the role exists.

296062561992

IAM role name
The name of the role that you want to assume which can be found at the end of the role's ARN. For example, provide the `TestRole` role name from the following role ARN: `arn:aws:iam::123456789012:role/TestRole`.

accessS3-1024

Display name - optional
This name will appear in the console navigation bar when active. Choose a name to help identify the permission set assigned to the role.

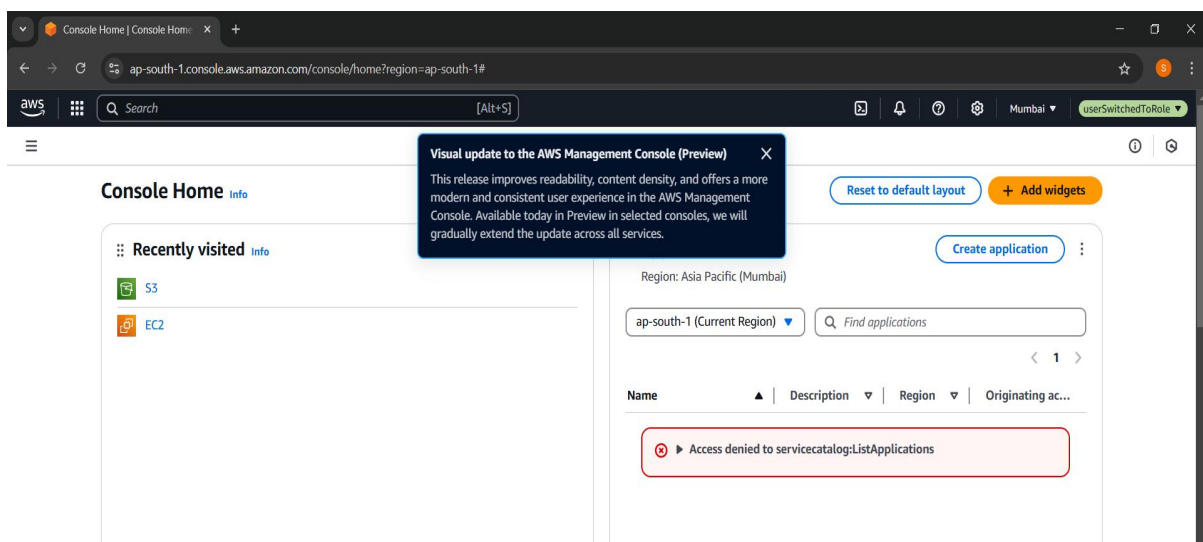
userSwitchedToRole

Display color - optional
The selected color displays in the console navigation when this role is active

Green

Cancel Switch Role

Switch role--



Visual update to the AWS Management Console (Preview)
This release improves readability, content density, and offers a more modern and consistent user experience in the AWS Management Console. Available today in Preview in selected consoles, we will gradually extend the update across all services.

Reset to default layout + Add widgets

Create application

Region: Asia Pacific (Mumbai)

ap-south-1 (Current Region) Find applications

1

Name Description Region Originating ac...

Access denied to servicecatalog:ListApplications

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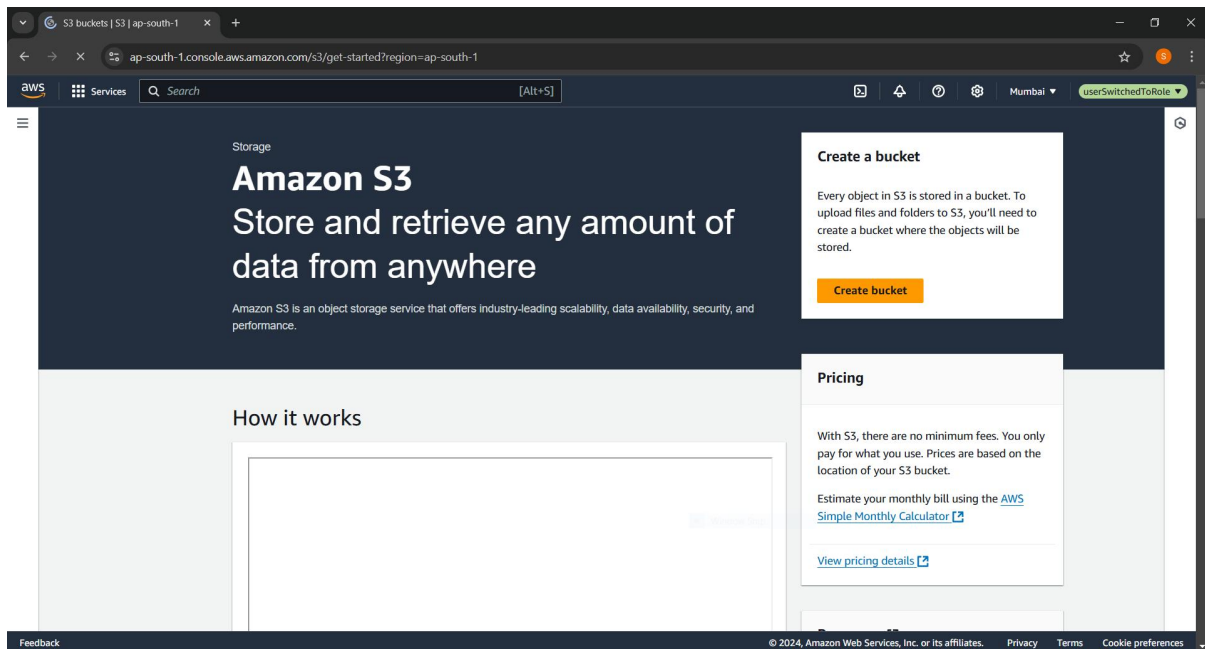
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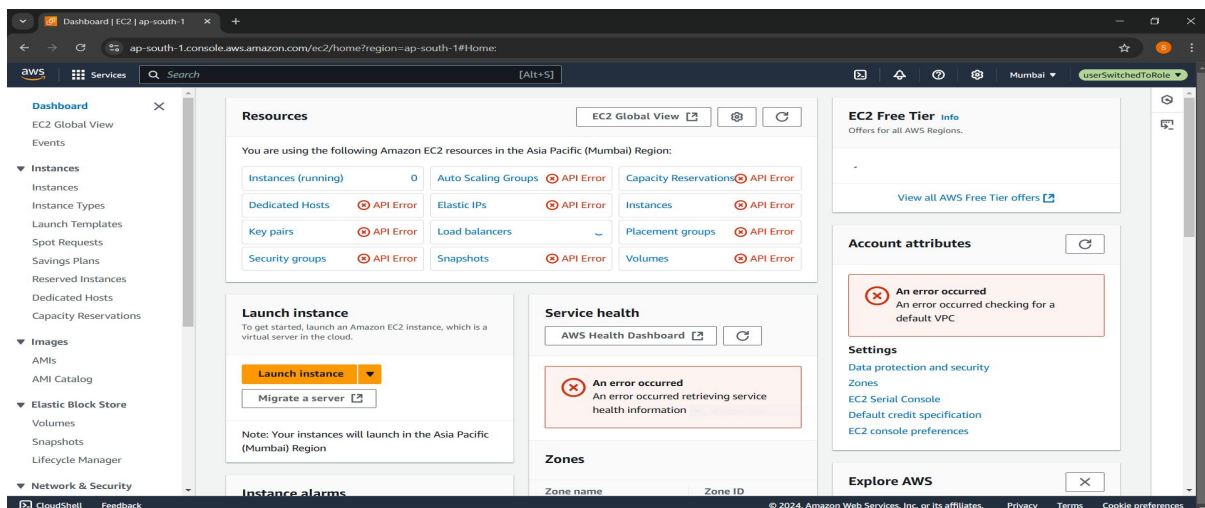
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Once you successfully switch role, you can access service as per the rules defined in role.(here only s3 service access is given)

Example--- access s3



Access ec2---



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Roles are saved , so user doesn't have to fill all the data every single time and he can easily switch between multiple roles.

