

AWS IAM Roles and STS.

What is an IAM Role?

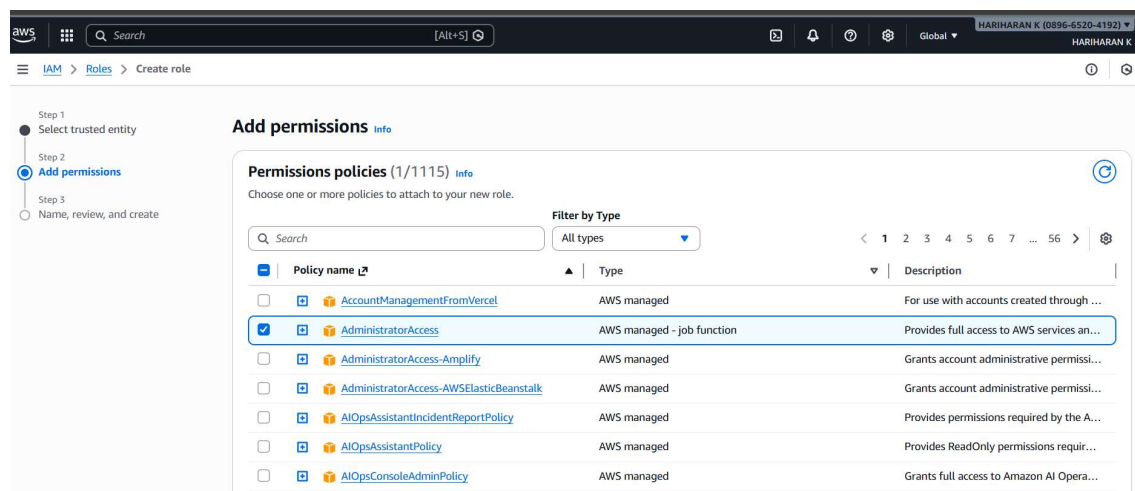
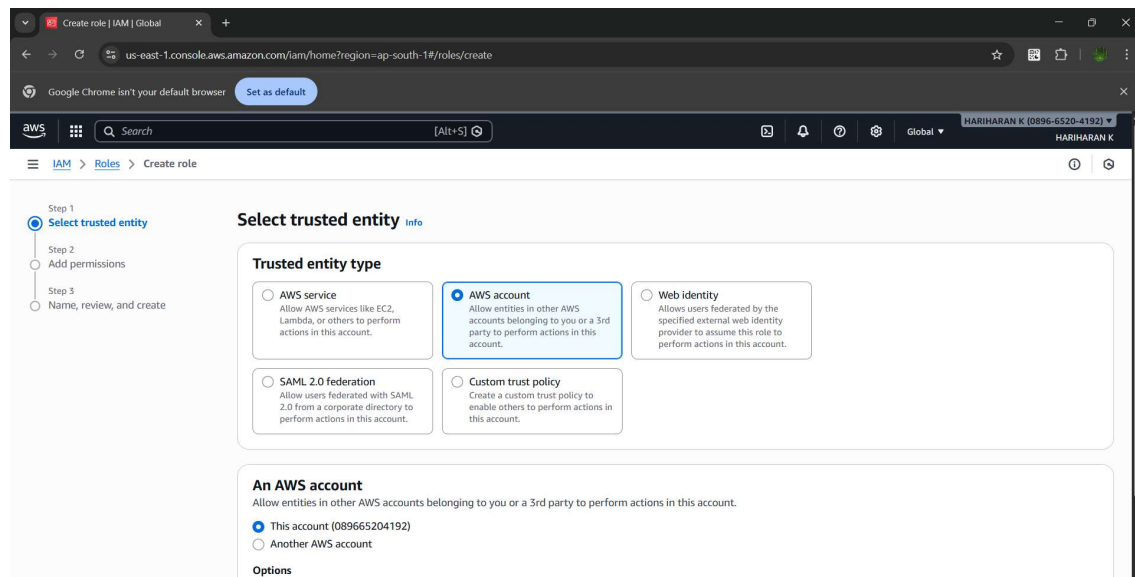
An IAM Role is a set of permissions that can be assumed temporarily.

Key point:

A role does NOT have permanent credentials.

It gives temporary credentials via STS.

First we created the user role.



Step 1: Select trusted entity

Step 2: Add permissions

Step 3: **Name, review, and create**

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.
temp-user
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: _+=, @-/_[]!#\$%^&*()~'"

Step 1: Select trusted entities [Edit](#)

Trust policy

```

1 = {
2   "Version": "2012-10-17",
3   "Statement": [

```

I have created an user and gave STS policy to that user.

Permissions policies (0) [Refresh](#) [Remove](#) [Add permissions](#)

Permissions are defined by policies attached to the user directly or through groups.

Filter by Type

Q sts [X](#) All types 0 matches

[Add permissions](#)
[Create inline policy](#)

Policy name	Type	Attached via
No resources to display		

This is the page of the STS.

STS [Refresh](#) [Trash](#)

Allowed All actions

Specify what actions can be performed on specific resources in STS.

Actions allowed

Specify actions from the service to be allowed.

Q Filter Actions

Manual actions | [Add actions](#)

☒ All STS actions (sts:*)

Access level

[Read \(Selected 5/5\)](#)

[Write \(Selected 9/9\)](#)

[Tagging \(Selected 2/2\)](#)

Resources

Specify resource ARNs for these actions.

☒ All ☐ Specific

Effect ☒ Allow ☐ Deny

[Expand all](#) | [Collapse all](#)

You have to give all permission to the user policy.

Manual actions | [Add actions](#)

☒ All STS actions (sts:*)

Access level

► **Read** (Selected 5/5)

► **Write** (Selected 9/9)

► **Tagging** (Selected 2/2)

[Expand all](#) | [Collapse all](#)

▼ **Resources**

Specify resource ARNs for these actions.

☒ All

☐ Specific

⚠ The all wildcard "*" may be overly permissive for the selected actions. Allowing specific ARNs for these service resources can improve security.

► **Request conditions - optional**

Actions on resources are allowed or denied only when these conditions are met.

[Alt+S]
Global ▼
HARIHARAN K (0896-6520-4192) ▼

IAM > Users > balu > Edit policy

Step 1
● Modify permissions in temp_policy

Step 2
● **Review and save**

Review and save info

Review the permissions, specify details, and tags.

Permissions defined in this policy info

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it

Allow (1 of 462 services)

Service	Access level	Resource	Request condition
STS	Full access	All resources	None

Show remaining 461 services

[Cancel](#)
[Previous](#)
[Save changes](#)

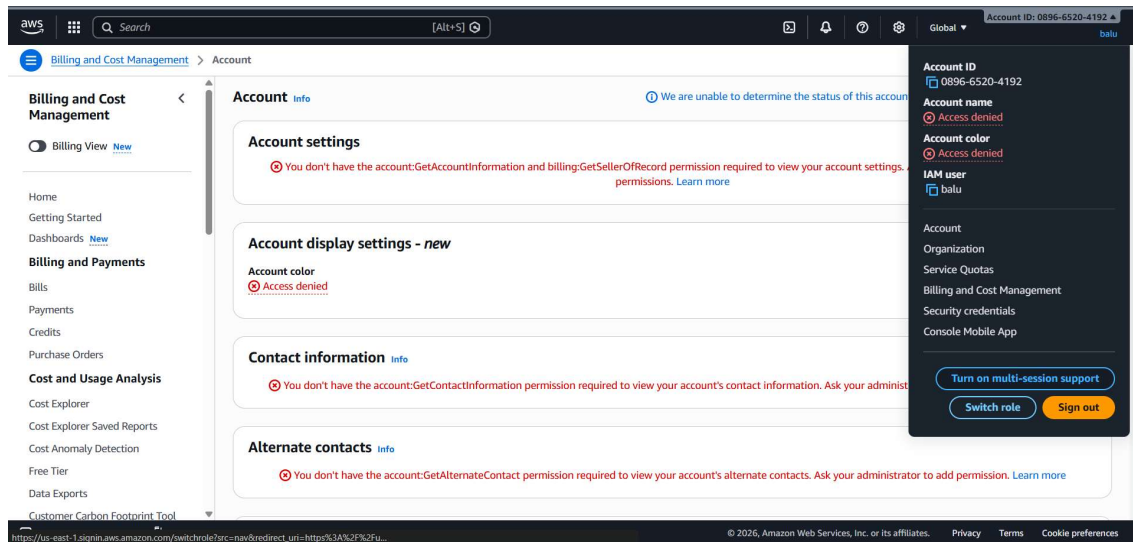
CloudShell Feedback Console Mobile App

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Then I have created the IAM Role to give the access with the Roles.

And then I have connected using IAM User and Switched to the Role.

Login to the user and click the switch user



Give the account id of the root user and role name.

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.

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`.

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.

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

Orange

Cancel

Switch Role

And then we will get this page.

It will give access to all the services.

Search

[Alt+S]

Global

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temp-user @ 089665204192

Billing and Cost Management

Account

Billing and Cost Management

Billing View

Home

Getting Started

Dashboards

Billing and Payments

Bills

Payments

Credits

Purchase Orders

Cost and Usage Analysis

Cost Explorer

Cost Explorer Saved Reports

Cost Anomaly Detection

Free Tier

Data Exports

Customer Carbon Footprint Tool

Account

Account settings

Account display settings - new

Contact information

Alternate contacts

We are unable to determine the s

You don't have the account:GetAccountInformation and billing:GetSellerOfRecord permission required to view your account's settings. Learn more

Account color

Unset

You don't have the account:GetContactInformation permission required to view your account's contact information.

You don't have the account:GetAlternateContact permission required to view your account's alternate contacts.

Currently active as

temp-user

Account ID

0896-6520-4192

Account name

HARIHARAN K

Account color

Unset

Account

Organization

Service Quotas

Billing and Cost Management

Signed in as

balu

Account ID

0896-6520-4192

Switch back

Role history

temp-user @ 089665204192

Turn on multi-session support