

Amazon IAM: IAM Roles -Task

Problem Statement:

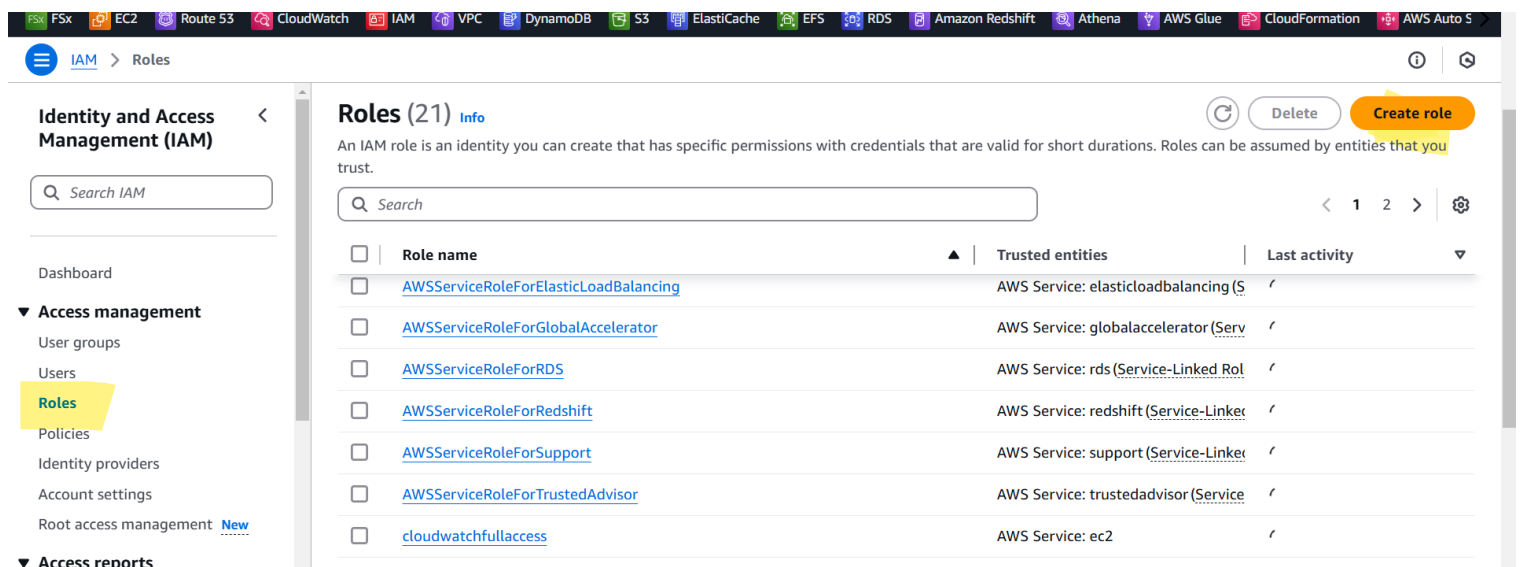
You work for XYZ Corporation. To maintain the security of the AWS account and the resources you have been asked to implement a solution that can help easily recognize and monitor the different users.

Tasks To Be Performed:

1. Create a role which only lets user1 and user2 from task 1 to have complete access to VPCs and DynamoDB.
2. Login into user1 and shift to the role to test out the feature.

1. Create a role which only lets user1 and user2 from task 1 to have complete access to VPCs and DynamoDB.

- Go to IAM dashboard , click roles , click create role, click custom trust policy, provides ARN of Dev1,Dev2, here user1,user2,.click next add permission , provides role name and click create role.



The screenshot displays the AWS IAM console interface. The top navigation bar includes various AWS services. The left sidebar shows the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Users, Roles, Policies, Identity providers, Account settings, and Root access management. The main content area is titled 'Roles (21)' and includes a search bar and a table of existing roles. The table has columns for Role name, Trusted entities, and Last activity. The roles listed include AWSServiceRoleForElasticLoadBalancing, AWSServiceRoleForGlobalAccelerator, AWSServiceRoleForRDS, AWSServiceRoleForRedshift, AWSServiceRoleForSupport, AWSServiceRoleForTrustedAdvisor, and cloudwatchfullaccess.

Role name	Trusted entities	Last activity
AWSServiceRoleForElasticLoadBalancing	AWS Service: elasticloadbalancing (S	✓
AWSServiceRoleForGlobalAccelerator	AWS Service: globalaccelerator (Serv	✓
AWSServiceRoleForRDS	AWS Service: rds (Service-Linked Rol	✓
AWSServiceRoleForRedshift	AWS Service: redshift (Service-Linker	✓
AWSServiceRoleForSupport	AWS Service: support (Service-Linker	✓
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service	✓
cloudwatchfullaccess	AWS Service: ec2	✓

- Step 1
● **Select trusted entity**
- Step 2
○ Add permissions
- Step 3
○ Name, review, and create

Select trusted entity [Info](#)

Trusted entity type

- ☐ **AWS service**
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
- ☐ **AWS account**
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- ☐ **Web identity**
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- ☐ **SAML 2.0 federation**
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- ☒ **Custom trust policy**
Create a custom trust policy to enable others to perform actions in this account.

web identity provider to assume this role to perform actions in this account.

corporate directory to perform actions in this account.

- ☒ **Custom trust policy**
Create a custom trust policy to enable others to perform actions in this account.

Custom trust policy

Create a custom trust policy to enable others to perform actions in this account.

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Sid": "Statement1",  
6       "Effect": "Allow",  
7       "Principal": {  
8         "AWS": ["arn:aws:iam::050451395918:user/Dev1",  
9           "arn:aws:iam::050451395918:user/Dev2"]  
10      },  
11      "Action": "sts:AssumeRole"  
12    }  
13  ]  
14 }
```

[Edit statement](#)

[Select a statement](#)

Select an existing statement
add a new statement

Permissions policies (1/1019) [Info](#)

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

Filter by Type

Q VPC



All types

14 matches

< 1 >

<input type="checkbox"/>	Policy name ↗	Type	Description
<input type="checkbox"/>	AmazonDMSVPCManagementRole	AWS managed	Provides access to manage VPC setting...
<input type="checkbox"/>	AmazonDRSVPCManagement	AWS managed	Provides access to manage VPC setting...
<input type="checkbox"/>	AmazonECSInfrastructureRolePoli...	AWS managed	Provides access to other AWS service r...
<input type="checkbox"/>	AmazonEKSVPCResourceController	AWS managed	Policy used by VPC Resource Controlle...
<input type="checkbox"/>	AmazonVPCCrossAccountNetworkI...	AWS managed	Provides access to create network inte...
<input checked="" type="checkbox"/>	AmazonVPCFullAccess	AWS managed	Provides full access to Amazon VPC via...

Add permissions [Info](#)

Permissions policies (2/1019) [Info](#)

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

Dy

X





Filter by Type

All types

4 matches

< 1 >

⚙

<input type="checkbox"/>	Policy name ?	Type	Description
<input checked="" type="checkbox"/>	 AmazonDynamoDBFullAccess	AWS managed	Provides full access to Amazon Dynam...
<input type="checkbox"/>	 AmazonDynamoDBReadOnlyAccess	AWS managed	Provides read only access to Amazon D...
<input type="checkbox"/>	 AWSLambdaDynamoDBExecution...	AWS managed	Provides list and read access to Dynam...
<input type="checkbox"/>	 AWSLambdaInvocation-DynamoDB	AWS managed	Provides read access to DynamoDB Str...

► Set permissions boundary - optional

Cancel

Previous

Next

Create role

create

Role details

Role name

Enter a meaningful name to identify this role.

task1

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

Description

Add a short explanation for this role.

task for the development

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",

Create role

Step 2: Add permissions [Edit](#)

Permissions policy summary

Policy name ?	Type	Attached as
AmazonDynamoDBFullAccess	AWS managed	Permissions policy
AmazonVPCFullAccess	AWS managed	Permissions policy

Step 3: Add tags

Add tags - optional [Info](#)

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel

Previous

Create role

task1

Info

task for the development

Delete

Summary

Edit

Creation date

December 06, 2024, 21:32 (UTC+05:30)

ARN

[arn:aws:iam::050451395918:role/task1](#)

Link to switch roles in console

<https://signin.aws.amazon.com/switchrole?roleName=task1&account=050451395918>

Last activity

-

Maximum session duration

1 hour

2Login into user1 and shift to the role to test out the feature.

- Login to Dev1 user and check it .

[Alt+S]

N. Virginia

Dev1 @ 0504-5139-5918

Reset to default layout

+ Add widgets

Applications (0)

Info

Create application

aws

Search

[Alt+S]

N. Virginia

Dev1 @ 0504-5139-5918

Console Home

Info

Reset to default layout

Recently visited

Info

VPC

DynamoDB

EC2

Applications (0)

Info

Region: US East (N. Virginia)

us-east-1 (Current Region)

Find applications

Name

Description

Region

Access denied to servicecatalog:ListApplications

Diagnose with Amazon Q

Account ID

0504-5139-5918

IAM user

Dev1

Account

Organization

Service Quotas

Billing and Cost Management

Security credentials

Role history

client

Switch role

Sign out

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.

050451395918

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`.

task1

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.

client

Display color - optional

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

Red

Cancel

Switch Role

[Alt+S]

N. Virginia

client

Create VPC

Launch EC2 Instances

Note: Your Instances will launch in the US East region.

Resources by Region

You are using the following Amazon VPC resources

VPCs

US East 1

NAT Gateways

US East 0

Service Health

[View complete service health details](#)

Settings

[Alt+S]

N. Virginia

client

Your VPCs (2) Info

Last updated less than a minute ago

Actions

Create VPC

Search

	Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	-	vpc-067409b5122bc64b5	Available	Off	172.31.0.0/16	-
<input type="checkbox"/>	project1-vpc	vpc-0f302cdf5ffe5a9d7	Available	Off	10.0.0.0/16	-

