

## 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.

The screenshot shows the AWS IAM console 'Users' page. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, Access reports, and CloudShell. The main content area displays 'Users (2/2)' with a table listing two users: 'user1' and 'user2'. Both users have a path of '/', group of '0', and no MFA or password age requirements. The console header shows the account ID '2519-8547-6962' and the user 'Vellamma Mittagouli'.

User name	Path	Group	Last activity	MFA	Password age	Console last sign-in	Ac
user1	/	0	-	-	-	-	-
user2	/	0	-	-	-	-	-

The screenshot shows the AWS IAM console 'Create role' page. The 'trust policy' section contains a JSON policy that allows 'user1' and 'user2' to assume the role. The 'Step 2: Add permissions' section shows a 'Permissions policy summary' table with two policies: 'AmazonDynamoDBFullAccess' and 'AmazonVPCFullAccess', both of which are AWS managed and attached as 'Permissions policy'. The 'Step 3: Add tags' section is currently empty.

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Principal": {
7         "AWS": [
8           "arn:aws:iam::251985476962:user/user1",
9           "arn:aws:iam::251985476962:user/user2"
10        ]
11      },
12      "Action": "sts:AssumeRole"
13    }
14  ]
15 }
```

Policy name	Type	Attached as
<a href="#">AmazonDynamoDBFullAccess</a>	AWS managed	Permissions policy
<a href="#">AmazonVPCFullAccess</a>	AWS managed	Permissions policy

AWS Management Console - Roles (IAM) | Global

https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/roles

Search [Alt+S]

Account ID: 2519-8547-6962

Yellamma Mittagouni

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings
- Root access management

Access reports

- Access Analyzer
- Resource analysis
- Unused access
- Analyzer settings
- Credential report

Roles (1/12) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search: vpc-dyn 1 match

Role name	Trusted entities	Last activity
VPC-DynamoDB-Access-Role	Account: 251985476962	-

Roles Anywhere Info

Authenticate your non AWS workloads and securely provide access to AWS services.

Access AWS from your non AWS workloads

Operate your non AWS workloads using the same authentication and authorization strategy that you use within AWS.

X.509 Standard

Use your own existing PKI infrastructure or use AWS Certificate Manager Private Certificate Authority to authenticate identities.

Temporary credentials

Use temporary credentials with ease and benefit from the enhanced security they provide.

CloudShell Feedback

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20°C Sunny

AWS Management Console - Create policy | IAM | Global

https://251985476962-ztjdpc.us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/details/user1/createPolicy?step=addPermissions

Search [Alt+S]

Account ID: 2519-8547-6962

root

IAM > Users > user1 > Create policy

Step 1: Specify permissions

Step 2: Review and create

Specify permissions Info

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

Policy editor

Visual JSON Actions

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "Statement1",
6       "Effect": "Allow",
7       "Action": "sts:AssumeRole",
8       "Resource": "arn:aws:iam::251985476962:role/vpc-dynamodb-access-role"
9     }
10  ]
11 }
```

Edit statement Statement1

Add actions

Choose a service

Filter services

Included

STS

Available

- AI Operations
- AMP
- API Gateway
- API Gateway V2
- ARC Region switch
- ARC Zonal Shift

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26°C Mostly cloudy

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

22°C Mostly sunny

251985476962

Remember this account

user2

password

Show Password Having trouble?

Sign in

Sign in using root user email

Create a new AWS account

By continuing, you agree to AWS Customer Agreement or

Customize Amazon Nova models in SageMaker AI for your business needs

Learn more >

New sign in Multi-session enabled English

aws

IAM user sign in

Account ID or alias (Don't have?)

IAM username

Password

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VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Route servers

Security

Network ACLs

Security groups

You successfully created vpc-07235b25d47f322e3

VPC ID vpc-07235b25d47f322e3

State Available

Block Public Access Off

DNS hostnames Disabled

DNS resolution Enabled

Main network ACL acl-032691d4d967c1227

IPv6 CIDR (Network border group)

Tenancy default

Default VPC No

Network Address Usage metrics Disabled

DHCP option set dopt-0a70cc0ef04464d3

IPv4 CIDR 10.1.0.0/24

Route 53 Resolver DNS Firewall rule groups Failed to load rule groups

Main route table rtb-00632d74bd9e80d25

IPv6 pool

Owner ID 251985476962

Resource map

CIDRs

Flow logs

Tags

Integrations

Resource map

VPC Your AWS virtual network vpc-07235b25d47f322e3

Subnets (0) Subnets within this VPC

Route tables (1) Route network traffic to resources rtb-00632d74bd9e80d25

Network Connections (0) Connections to other network

Show all details

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AWS Management Console - List tables | Amazon DynamoDB - user1 | IAM | Global

https://251985476962-3l3pzmtc.us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#tables

United States (N. Virginia) Account ID: 2519-8547-6962 user1

DynamoDB > Tables

**DynamoDB**

- Dashboard
- Tables**
- Explore items
- PartiQL editor
- Backups
- Exports to S3
- Imports from S3
- Integrations
- Reserved capacity
- Settings

▼ **DAX**

- Clusters
- Subnet groups
- Parameter groups
- Events

The student-tab table was created successfully.

**Tables (1/1)** Info

Find tables Any tag key Any tag value < 1 >

<input checked="" type="checkbox"/>	Name	Status	Partition key	Sort key	Indexes	Replication Regions	Deletion protection	Favorite	Read capacity
<input checked="" type="checkbox"/>	student-tab	Active	student-id (S)	course (S)	0	0	Off	☆	On-demand

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AWS Management Console - List tables | Amazon DynamoDB - user1 | IAM | Global

https://251985476962-3l3pzmtc.us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#tables

United States (N. Virginia) Account ID: 2519-8547-6962 user1

DynamoDB > Tables

**DynamoDB**

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▼ **DAX**

- Clusters
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- Events

The request to delete the "student-tab" table has been submitted successfully.

**Tables (1)** Info

Find tables Any tag key Any tag value < 1 >

<input type="checkbox"/>	Name	Status	Partition key	Sort key	Indexes	Replication Regions	Deletion protection	Favorite	Read capacity
<input type="checkbox"/>	student-tab	Deleting	-	-	0	0	Off	☆	On-demand

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