

# Amazon IAM: IAM Policies-Task 2

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## 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 policy number 1 which lets the users to:
  - a. Access S3 completely
  - b. Only create EC2 instances
  - c. Full access to RDS
2. Create a policy number 2 which allows the users to:
  - a. Access CloudWatch and billing completely
  - b. Can only list EC2 and S3 resources
3. Attach policy number 1 to the Dev Team from task 1
4. Attach policy number 2 to Ops Team from task 1

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## Solution:

1. Create policy number 1 which lets the users to:
    - a. Access S3 completely
    - b. Only create EC2 instances
    - c. Full access to RDS
- Go to `polices` and click `create policy` and select the service click next select which you give permission and `create policy`
  - . First create policy number 1

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Policies (1312) Info

A policy is an object in AWS that defines permissions.

Filter by Type

All types

Search

1234567...66

	Policy name	Type	Used as	Description
	AdministratorAccess...	AWS managed	None	Grants account administrative permissions...
	AdministratorAccess...	AWS managed	None	Grants account administrative permissions...
	AIOpsAssistantPolicy	AWS managed	None	Provides ReadOnly permissions require...
	AIOpsConsoleAdmi...	AWS managed	None	Grants full access to Amazon AI Opera...
	AIOpsOperatorAccess	AWS managed	None	Grants access to the Amazon AI Opera...
	AIOpsReadOnlyAcc...	AWS managed	None	Grants ReadOnly permissions to the A...

aws

Search

[Alt+S]

Global

amal225

IAM > Policies > Create policy

Step 1

Specify permissions

Step 2

Review and create

Filter services

Commonly used services

Auto Scaling

CloudFront

EC2

IAM

Lambda

RDS

S3

SNS

Other services

Choose a service

Visual

JSON

Actions

+ Add more permissions

Cancel

Next

cloudwatchIAMVPCDynamoDBS3ElastiCacheEFSEFSRDSAmazon RedshiftAthenaAWS GlueCloudFormationAWS Auto S

Policy

S3

Allow

All actions

Specify what actions can be performed on specific resources in S3.

Actions allowed

Specify actions from the service to be allowed.

Filter Actions

Manual actions | Add actions

☒ All S3 actions (s3:\*)

Access level

List (Selected 16/16)

Read (Selected 61/61)

Write (Selected 59/59)

Effect

☒ Allow ☐ Deny

Expand all | Collapse all

- s3:CreateJob requires **1 more** action.
- s3:PutReplicationConfiguration requires **1 more** action.

## ▼ Resources

 All

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

► Request conditions - *optional*

[+ Add more permissions](#)

Cancel

> [Policies](#) > Create policy

1  
ify permissions

### Specify permissions [Info](#)


### Policy editor

▶ **S3** Allow All actions

[+ Add more permissions](#)

Cancel

ch

ate 53  Cloud

➤ Create policy

🔍 *Filter services*

### Commonly used services

[+ Add more permissions](#)

Cancel

<input type="checkbox"/> DescribeVpcEndpointConnectionNotific ations	<a href="#">Info</a>	<input type="checkbox"/> DescribeVpcEndpointConnections	<a href="#">Info</a>
<input type="checkbox"/> DescribeVpcEndpointServiceConfigurati ons	<a href="#">Info</a>	<input type="checkbox"/> DescribeVpcEndpointServicePermission s	<a href="#">Info</a>
<input type="checkbox"/> DescribeVpcPeeringConnections	<a href="#">Info</a>	<input checked="" type="checkbox"/> DescribeVpcs	<a href="#">Info</a>
<b>Read</b>			
<input type="checkbox"/> GetSecurityGroupsForVpc	<a href="#">Info</a>		
<b>Write</b>			
<input type="checkbox"/> AcceptTransitGatewayVpcAttachment	<a href="#">Info</a>	<input type="checkbox"/> AcceptVpcEndpointConnections	<a href="#">Info</a>
<input type="checkbox"/> AssociateSecurityGroupVpc	<a href="#">Info</a>	<input type="checkbox"/> AssociateVpcCidrBlock	<a href="#">Info</a>
<input type="checkbox"/> CreateDefaultVpc	<a href="#">Info</a>	<input type="checkbox"/> CreateLocalGatewayRouteTableVpcAsso ciation	<a href="#">Info</a>
<input checked="" type="checkbox"/> CreateVpc	<a href="#">Info</a>	<input type="checkbox"/> CreateVpcEndpoint	<a href="#">Info</a>

<input checked="" type="checkbox"/> DescribeInstances	<a href="#">Info</a>	<input type="checkbox"/> DescribeInstanceStatus	<a href="#">Inf</a>
<input type="checkbox"/> DescribeInstanceTypeOfferings	<a href="#">Info</a>	<input checked="" type="checkbox"/> DescribeInstanceTypes	<a href="#">Info</a>
<input type="checkbox"/> DescribeReservedInstancesOfferings	<a href="#">Info</a>	<input type="checkbox"/> DescribeReservedInstances	<a href="#">Info</a>
<input type="checkbox"/> ReportInstanceStatus	<a href="#">Info</a>	<input type="checkbox"/> RequestSpotInstances	<a href="#">Info</a>
<input checked="" type="checkbox"/> RunInstances	<a href="#">Info</a>	<input type="checkbox"/> RunScheduledInstances	<a href="#">Info</a>
<input checked="" type="checkbox"/> StartInstances	<a href="#">Info</a>	<input checked="" type="checkbox"/> StopInstances	<a href="#">Info</a>
<input type="checkbox"/> UnmonitorInstances	<a href="#">Info</a>		

#### List

<input type="checkbox"/> DescribeSecurityGroupReferences	<a href="#">Info</a>	<input checked="" type="checkbox"/> DescribeSecurityGroupRules	<a href="#">Info</a>	<input checked="" type="checkbox"/> DescribeSecurityGroups	<a href="#">Info</a>
<input type="checkbox"/> DescribeSecurityGroupVpcAssociations	<a href="#">Info</a>	<input type="checkbox"/> DescribeStaleSecurityGroups	<a href="#">Info</a>		

#### Read

<input type="checkbox"/> GetSecurityGroupsForVpc	<a href="#">Info</a>
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#### Write

<input type="checkbox"/> ApplySecurityGroupsToClientVpnTarget Network	<a href="#">Info</a>	<input type="checkbox"/> AssociateSecurityGroupVpc	<a href="#">Info</a>	<input type="checkbox"/> AuthorizeSecurityGroupEgress	<a href="#">Info</a>
<input type="checkbox"/> AuthorizeSecurityGroupIngress	<a href="#">Info</a>	<input checked="" type="checkbox"/> CreateSecurityGroup	<a href="#">Info</a>	<input type="checkbox"/> DeleteSecurityGroup	<a href="#">Info</a>
<input type="checkbox"/> DisassociateSecurityGroupVpc	<a href="#">Info</a>	<input type="checkbox"/> ModifySecurityGroupRules	<a href="#">Info</a>	<input type="checkbox"/> RevokeSecurityGroupEgress	<a href="#">Info</a>
<input type="checkbox"/> RevokeSecurityGroupIngress	<a href="#">Info</a>	<input type="checkbox"/> UpdateSecurityGroupRuleDescriptionsE gress	<a href="#">Info</a>	<input type="checkbox"/> UpdateSecurityGroupRuleDescriptionsI ngress	<a href="#">Info</a>

#### List

<input checked="" type="checkbox"/> DescribeKeyPairs	<a href="#">Info</a>
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#### Read

<input type="checkbox"/> GetEbsDefaultKmsKeyId	<a href="#">Info</a>
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#### Write

<input checked="" type="checkbox"/> CreateKeyPair	<a href="#">Info</a>
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## ▼ EC2

**Allow** 18 Actions

Specify what actions can be performed on specific resources in [EC2](#).

### ▼ Actions allowed

Specify actions from the service to be allowed.

#### List

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> DescribeReplaceRootVolumeTasks   <a href="#">Info</a> | <input type="checkbox"/> DescribeVolumeAttribute   <a href="#">Info</a> | <input checked="" type="checkbox"/> DescribeVolumes   <a href="#">Info</a> |
| <input type="checkbox"/> DescribeVolumesModifications   <a href="#">Info</a>   | <input type="checkbox"/> DescribeVolumeStatus   <a href="#">Info</a>    |  |

#### Write

- |   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> AttachVolume   <a href="#">Info</a> | <input type="checkbox"/> CreateReplaceRootVolumeTask   <a href="#">Info</a> | <input checked="" type="checkbox"/> CreateVolume   <a href="#">Info</a> |
| <input type="checkbox"/> DeleteVolume   <a href="#">Info</a>            | <input type="checkbox"/> DetachVolume   <a href="#">Info</a>                | <input type="checkbox"/> EnableVolumeIO   <a href="#">Info</a>          |
| <input type="checkbox"/> ImportVolume   <a href="#">Info</a>            | <input checked="" type="checkbox"/> ModifyVolume   <a href="#">Info</a>     | <input type="checkbox"/> ModifyVolumeAttribute   <a href="#">Info</a>   |

EC2Route 53CloudWatch

Filter services

Commonly used services

Auto Scaling

CloudFront

EC2

IAM

Lambda

RDS

S3

SNS

Other services

Access Analyzer

Choose a service

> Policies > Create policy

+ Add more permissions

Create policy

### Policy editor

Visual

JSON

Actions ▼



#### ▶ S3

**Allow** All actions



#### ▶ EC2

**Allow** 18 Actions



#### ▶ RDS

**Allow** All actions



+ Add more permissions

Security: 0 Errors: 0 Warnings: 0 Suggestions: 0

Cancel

Next

## Policy details

### Policy name

Enter a meaningful name to identify this policy.

Policy-number1

Maximum 128 characters. Use alphanumeric and '+=, @- \_' characters.

### Description - optional

Add a short explanation for this policy.

Maximum 1,000 characters. Use alphanumeric and '+=, @- \_' characters.

## 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 (us

Allow (3 of 437 services)

☐ Show remaining 434 services

Service	Access level	Resource	Request condition
<a href="#">EC2</a>	Limited: List, Write	All resources	None
<a href="#">RDS</a>	Full access	All resources	None
<a href="#">S3</a>	Full access	All resources	None

### 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 policy



✓ Policy Policy-number1 created.

View policy



## Policies (1313) [Info](#)

A policy is an object in AWS that defines permissions.



Actions

Delete

Create policy

Filter by Type

Search

Customer managed

1 match

< 1 >

Policy name

Type

Used as

Description



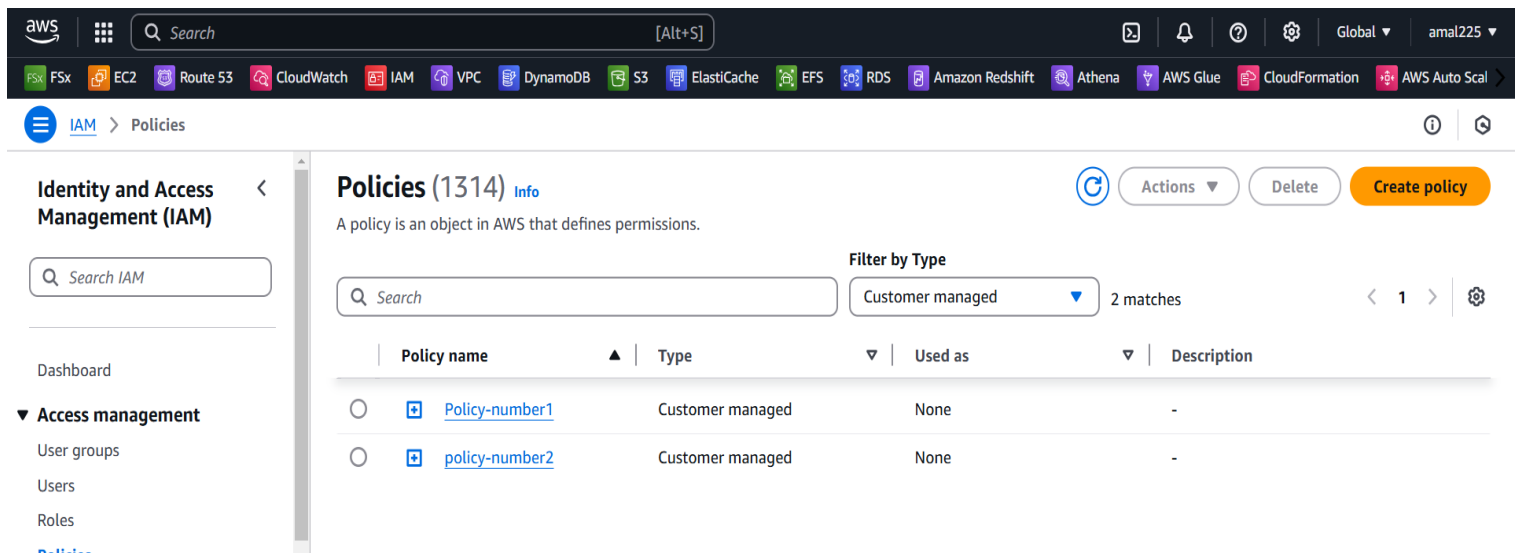
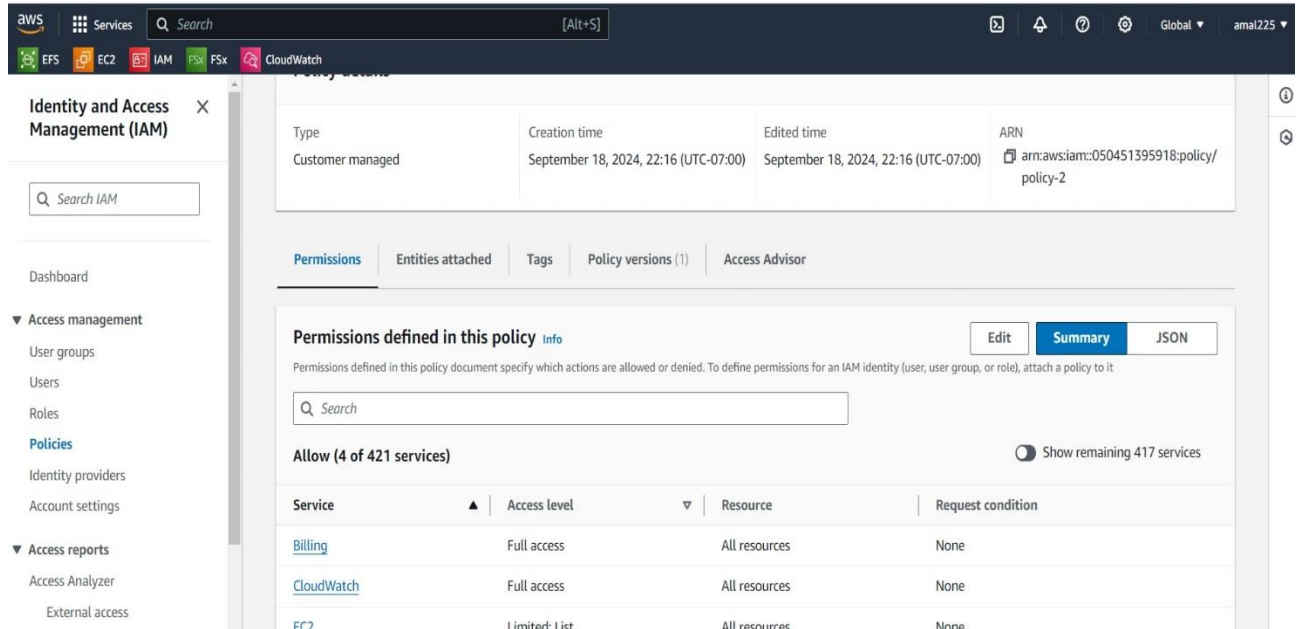
[Policy-number1](#)

Customer managed

None

-

- 2 Create a policy number 2 which allows the users to:
  - a. Access CloudWatch and billing completely
  - b. Can only list EC2 and S3 resources
- Create same as it is, follow same process above policy-number1 .here I am created policy-number2
- .



1. Attach policy number 1 to the Dev Team from task1
- In policy , go to custom policy select your policy and click action , click attach, select group name, Dev-Team and attach policy.

<



- Attach policy number 2 to ops-Team same as it follow above process.

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CloudWatchIAMVPCDynamoDBS3ElastiCacheEFSDSAmazon RedshiftAthenaAWS GlueCloudFormationAWS Auto Scal

Globalamal225

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Policy attached to entity Ops-Team.

Refresh

Delete

Create group

User groups (2) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Search

< 1 >

Settings

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	<a href="#">Dev-Team</a>	2	Defined	3 hours ago
<input type="checkbox"/>	<a href="#">Ops-Team</a>	3	Defined	3 hours ago