

AWS Solutions Architect Certification Training

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Module 8 - Assignment IAM Cloudwatch COMPLETED by Nagesha. K.S.

Please check the following screenshots for each question.

Problem Statement:

You work for XYZ Corporation, and the company is using AWS for its infrastructure. For administrative purposes, it needs to provide certain employees with access to certain tasks.

You are asked to:

1.
 - a) Create a user account that can login to the console
 - b) Create a group, and make sure that the group can only launch or stop EC2 instances using the previously created account
2.
 - a) Provide the permission to let the users of the previously created account create VPCs, subnets, NACL, and security groups
 - b) Further, add the permission for the users to be able to create an RDS instance
 - c) Explore security options to protect the AWS resources and secure the permissions provided to the group
 - d) Create an IAM Access Analyzer, and find any role that might indicate a potential risk

mod-8-ec2-launcher-user | IAM

us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/users/details/mod-8-ec2-launcher-user?section=permissions

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Identity and Access Management (IAM)

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Access Analyzer

External access

Unused access

mod-8-ec2-launcher-userInfoDelete

Summary

ARN
arn:aws:iam::289436155303:user/mod-8-ec2-launcher-user

Console access
Enabled without MFA

Access key 1
Create access key

Created
August 13, 2024, 10:37 (UTC+05:30)

Last console sign-in
Never

PermissionsGroupsTagsSecurity credentialsAccess Advisor

Permissions policies (1)

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

Search

Filter by Type
All types

RefreshRemoveAdd permissions

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10:38
13-08-2024

mod-8-ec2-operators-group | x

AWS Identity and Access Mana x +

us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/groups/details/mod-8-ec2-operators-group?section=users

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mod-8-ec2-operators-group

Info

Delete

Summary

Edit

User group name

mod-8-ec2-operators-group

Creation time

August 13, 2024, 10:44 (UTC+05:30)

ARN

arn:aws:iam::289436155303:group/mod-8-ec2-operators-group

Users (1)

Permissions

Access Advisor

Users in this group (1)

Refresh

Remove

Add users

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Search

< 1 > ⚙

☐

User name

▲

Groups

Last activity

Creation time

☐

[mod-8-ec2-launcher-user](#)

1

None

Activated 48 minutes ago

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mod-8-ec2-operators-group | IAM

mod-8-ec2-launcher-user | IAM

AWS Identity and Access Management

us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/users/details/mod-8-ec2-launcher-user?section=groups

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mod-8-ec2-launcher-user

Info

Delete

Summary

ARN

arn:aws:iam::289436155303:user/mod-8-ec2-launcher-user

Console access

Enabled without MFA

Access key 1

Create access key

Created

August 13, 2024, 10:37 (UTC+05:30)

Last console sign-in

Never

Permissions

Groups (1)

Tags

Security credentials

Access Advisor

User groups membership (1)

Remove

Add user to groups

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users. A user can be a member of up to 10 groups at a time.

Group name

Attached policies

mod-8-ec2-operators-group

AmazonEC2ReadOnlyAccess, mod-8-rds-creation-policy and 2...

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Q Search IAM

Created
August 13, 2024, 10:37 (UTC+05:30)

Last console sign-in
Never

Access key 1

Create access key

Permissions	Groups (1)	Tags	Security credentials	Access Advisor
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Manage console access

Console password
Updated 49 minutes ago (2024-08-13 10:37 GMT+5:30)

Last console sign-in
ⓘ Never

Remove Resync Assign MFA device

Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an MFA device. Each user can have a maximum of 8 MFA devices assigned. [Learn more](#)

mod-8-ec2-operators-group | x

mod-8-ec2-launcher-user | IAM x

mod-8-ec2-start-stop-policy | x

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us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/policies/details/arn%3Aaws%3Aiam%3A%3A289436155303%3Apolicy%2Fmod-8-ec2-start-stop-policy?se... N

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Policy details

Type

Customer managed

Creation time

August 13, 2024, 10:47 (UTC+05:30)

Edited time

August 13, 2024, 10:47 (UTC+05:30)

ARN

arn:aws:iam::289436155303:policy/mod-8-ec2-start-stop-policy

Permissions

Entities attached

Tags

Policy versions (1)

Access Advisor

Permissions defined in this policy Info

Edit

Summary

JSON

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

Search

Allow (1 of 420 services) Show remaining 419 services

Service	Access level	Resource	Request condition
EC2	Limited: Write	InstanceID string like All, region string like All	None

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us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/policies/details/arn%3Aaws%3Aiam%3A%3A289436155303%3Apolicy%2Fmod-8-rds-creation-policy?secti...

us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/policies/details/arn%3Aaws%3Aiam%3A%3A289436155303%3Apolicy%2Fmod-8-rds-creation-policy?secti...

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Policy details

Type

Creation time

Edited time

ARN

Customer managed

August 13, 2024, 11:11 (UTC+05:30)

August 13, 2024, 11:11 (UTC+05:30)

arn:aws:iam::289436155303:policy/mod-8-rds-creation-policy

Permissions

Entities attached

Tags

Policy versions (1)

Access Advisor

Permissions defined in this policy

Edit

Summary

JSON

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

Search

Allow (1 of 420 services)

Show remaining 419 services

Service

Access level

Resource

Request condition

RDS

Limited: List, Write

All resources

None

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ARN
arn:aws:iam::289436155303:
policy/mod-8-rds-creation-
policy

Permissions

Entities attached

Tags

Policy versions (1)

Access Advisor

Permissions defined in this policy [Info](#)

Copy

Edit

Summary

JSON

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

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Effect": "Allow",  
6       "Action": [  
7         "rds:CreateDBInstance",  
8         "rds:DescribeDBInstances",  
9         "rds>DeleteDBInstance"  
10      ],  
11      "Resource": "*"   
12    }  
13  ]  
14 }
```

Activate Windows
Go to Settings to activate Windows.

mod-8-ec2-operators-group | IAM

mod-8-ec2-launcher-user | IAM

mod-8-vpc-creation-policy | IAM

AWS Identity and Access Manager

us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/policies/details/arn%3Aaws%3Aiam%3A%3A289436155303%3Apolicy%2Fmod-8-vpc-creation-policy?sect...

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Policy details

Type	Creation time	Edited time	ARN
Customer managed	August 13, 2024, 10:57 (UTC+05:30)	August 13, 2024, 10:57 (UTC+05:30)	arn:aws:iam::289436155303:policy/mod-8-vpc-creation-policy

PermissionsEntities attachedTagsPolicy versions (1)Access Advisor

Permissions defined in this policy Info

EditSummaryJSON

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.

Search

Allow (1 of 420 services)Show remaining 419 services

Service	Access level	Resource	Request condition
EC2	Limited: Write	All resources	None

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Identity and Access Management (IAM)	Customer managed	August 13, 2024, 10:57 (UTC+05:30)	August 13, 2024, 10:57 (UTC+05:30)	arn:aws:iam::289436155303:policy/mod-8-vpc-creation-policy	
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Permissions defined in this policy Info

CopyEditSummaryJSON

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

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "ec2:CreateVpc",
8         "ec2:CreateSubnet",
9         "ec2:CreateNetworkAcl",
10        "ec2:CreateSecurityGroup"
11      ],
12      "Resource": "*"
13    }
14  ]
15 }
```

mod-8-ec2-operators-group | x

mod-8-ec2-launcher-user | IAM | x

External access | Access Analyze | x

AWS Identity and Access Mana | x

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us-west-2.console.aws.amazon.com/access-analyzer/home?region=us-west-2#/external-access-findings

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Analyzer settings

Credential report

Organization activity

IAM > Access Analyzer > External access

External access Info

Analyzer

Last scan: 7 minutes ago

Manage analyzer

ExternalAccess-ConsoleAnalyzer-8db9eef6-f445-46c8-a0b7-39955fd498f2

Zone of trust: Current account (289436155303)

Findings (0)

🔄

Actions ▾

Status

Active ▾

🔍

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■ Finding ID 📄

Resource

External ...

Condition

Shared th...

Access level

Last

No findings to show

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mod-8-ec2-operators-group | x

mod-8-ec2-launcher-user | IAM | x

Analyzer | Access Analyzer | us- | x

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us-west-2.console.aws.amazon.com/access-analyzer/home?region=us-west-2#/analyzer/ExternalAccess-ConsoleAnalyzer-8db9eef6-f445-46c8-a0b7-39955fd498f2

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Organization activity

IAM > Access Analyzer > Analyzer settings > Analyzer

ExternalAccess-ConsoleAnalyzer-8db9eef6-f445-46c8-a0b7-39955fd498f2

Delete analyzer

View findings

Analyzer details

Name ExternalAccess-ConsoleAnalyzer-8db9eef6-f445-46c8-a0b7-39955fd498f2	Type External access	Status Active
ARN arn:aws:access-analyzer:us-west-2:289436155303:analyzer/ExternalAccess-ConsoleAnalyzer-8db9eef6-f445-46c8-a0b7-39955fd498f2	Region US West (Oregon)	Last scan 7 minutes ago
Zone of trust Account (289436155303)		

Archive rules

Tags

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