

Assignment 3

Q1) Create an IAM user with username of your own wish and grant administrator policy.

[Users](#) > [Anand1](#)

Summary

[Delete user](#)[?](#)

User ARN

arn:aws:iam::685418332193:user/Anand1

Path

/

Creation time

2022-04-04 20:03 UTC+0530

Permissions

Groups (1)

Tags (1)

Security credentials

Access Advisor

▼ Permissions policies (1 policy applied)

Add permissions

[+ Add inline policy](#)

Policy name ▼	Policy type ▼	
Attached from group		
▶ AdministratorAccess	AWS managed policy from group Admin	✕

▶ Permissions boundary (not set)

Here user is Anand1 and he is having admin access from group admin.

Q2) Hello students, in this assignment you need to prepare a developers team of avengers. Create 3 IAM users of avengers and assign them in developer’s groups with IAM policy.

[IAM](#) > [User groups](#) > Developer

Developer

Delete

Summary

Edit

User group name

Developer

Creation time

December 03, 2022, 01:26 (UTC+05:30)

ARN

arn:aws:iam::685418332193:group/Developer

Users

Permissions

Access Advisor

Users in this group (3)

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

Q Search

< 1 >

☐

User name

Groups

Last activity

Creation time

☐

Hulk

1

None

2 minutes ago

☐

Thor

1

None

2 minutes ago

☐

Ironman

1

None

2 minutes ago

Here Developer grp is having IAMFullAccess policy attached.

[IAM](#) > [User groups](#) > Developer

Developer

Delete

Summary

Edit

User group name

Developer

Creation time

December 03, 2022, 01:26 (UTC+05:30)

ARN

arn:aws:iam::685418332193:group/Developer

Users

Permissions

Access Advisor

Permissions policies (1) [Info](#)

You can attach up to 10 managed policies.

Q Filter policies by property or policy name and press enter.

< 1 >

☐

Policy name

Type

Description

☐

IAMFullAccess

AWS managed

Provides full access to IAM via the AWS Management Console.

Q3) Define a condition in policy for expiration like
"DateGreaterThan":{"aws:CurrentTime":"2020-04-01T00:00:00Z"},
"DateLessThan":{"aws:CurrentTime":"2020-06-30T23:59:59Z"}
Define the span of 4 months as per your wish

[Policies](#) > [Date_greater_less](#)

Summary

Policy ARN

arn:aws:iam::685418332193:policy/Date_greater_less

Description

speciific to a particular ec2 instance

Permissions

Policy usage

Tags

Policy versions

Access Advisor

Policy summary

{ } JSON

Edit policy

1 {

2 "Version": "2012-10-17",

3 "Statement": [

4 {

5 "Sid": "Stmt1670004391949",

6 "Action": "ec2:*",

7 "Effect": "Allow",

8 "Resource": "arn:aws:ec2:ap-south-1:685418332193:instance/i-01e84457ae205d159",

9 "Condition": {

10 "DateGreaterThan": {

11 "aws:CurrentTime": "2022-12-03T00:00:00Z"

12 },

13 "DateLessThan": {

14 "aws:CurrentTime": "2022-04-02T23:59:59Z"

15 }

16 }

17 }

18]

19 }

Here I have created the policy for particular ec2-instance for the period of 4 months i.e from DEC 2022 to APR 2023.

Q4) Prepare 15 MCQ questions related to IAM.

1) What should we do to increase the root account security?

a) Enable MFA (multi-factor authentication)

b) use AWS only through CLI

2) IAM stands for?

a) Identity and access Manager

b) Identity and access Management

3) Which of the following is an IAM best practice?

a) Do not enable MFA for easier access

b) Do not use the root user account

c) Share the credentials so a friend can perform a task for you

4) Which answer is INCORRECT regarding IAM Users?

a) IAM users can belong to multiple groups

b) IAM users don't belong to a group

c) IAM users access AWS with root account credentials

5) How can we restrict the access of an IAM user?

a) Using IAM Roles

b) Using permissions boundary

c) Using IAM policy

6) What is a proper definition of IAM Roles?

a) A password policy

b) An IAM entity that defines a set of permissions for making AWS service requests, that will be used by AWS services

c) IAM users in multiple groups

7) IAM is a global service?

a) True b) False

8) What are IAM Policies?

a) JSON documents to define users, groups or roles permission

b) Rules to set up a password for IAM Users

9) Under the shared responsibility model, what is the customer responsible for in IAM?

a) Infrastructure security

b) Compliance validations

c) Assigning users proper IAM policies

10) Which principle should you apply regarding IAM Permissions?

a) Grant most privilege

b) Grant least privilege

11) Which of the following statements is TRUE regarding CLI?

a) Can interact with AWS using commands in command-line shell

b) Can interact with AWS programmatically

- 12) Which of the following is an IAM Security Tool?
- a) IAM services report
 - b) IAM credentials report**
 - c) IAM Root account Manager
- 13) Which of the following statements is TRUE regarding SDK?
- a) Can interact with AWS using commands in command-line shell
 - b) Can interact with AWS programmatically**
- 14) IAM is free service?
- a) True** b) False
- 15) Which one of the following is not part of IAM policy structure?
- a)sid b)statement c)version **d)pid**
-

Q4) Launch your linux instance in AWS and update your machine.

```
https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 1 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-32-185 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package kernel.x86_64 0:5.10.149-133.644.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                Arch                Version                Repository                Size
=====
Installing:
kernel                  x86_64              5.10.149-133.644.amzn2  amzn2extra-kernel-5.10    32 M
=====
Transaction Summary
=====
Install 1 Package

Total download size: 32 M
Installed size: 136 M
Is this ok [y/d/N]: y
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
kernel-5.10.149-133.644.amzn2.x86_64.rpm | 32 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : kernel-5.10.149-133.644.amzn2.x86_64 1/1
  Verifying  : kernel-5.10.149-133.644.amzn2.x86_64 1/1

Installed:
kernel.x86_64 0:5.10.149-133.644.amzn2

Complete!
[ec2-user@ip-172-31-32-185 ~]$
```