


Assignment sheet for IAM

Assignment 1 :- Create an IAM user with username of your own wish and grant administrator policy.

 New feature to generate a policy based on CloudTrail events.
AWS uses your CloudTrail events to identify the services and actions used and generate a least privileged policy that you can attach to this user.

[Users](#) > [admin](#)

Summary

Delete user ⓘ

User ARN arn:aws:iam::[REDACTED]:user/admin ⓘ

Path /

Creation time 2022-09-10 14:22 UTC+0530

Permissions

Groups (1)

Tags


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 administrator ✕

▶ Permissions boundary (not set)

▼ Generate policy based on CloudTrail events

You can generate a new policy based on the access activity for this user, then customize, create, and attach it to this role. AWS uses your CloudTrail events to identify the services and actions used and generate a policy. [Learn more](#) ⓘ

Share your [feedback](#) and help us improve the policy generation experience.

Generate policy

No requests to generate a policy in the past 7 days.

Assignment 2 :- 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](#) > [avengers](#)

avengers

Delete

Summary

Edit

User group name avengers	Creation time November 21, 2022, 01:16 (UTC+05:30)	ARN arn:aws:iam::123456789012:group/avengers
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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.

Search

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ⓘ

<input type="checkbox"/>	User name ↗	Groups	Last activity	Creation time
<input type="checkbox"/>	hulk	1	None	1 minute ago
<input type="checkbox"/>	spiderman	1	None	1 minute ago
<input type="checkbox"/>	ironman	1	None	2 minutes ago

Assignment 3 :- 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

IAM > User groups > avengers

avengers Delete


Summary Edit

User group name avengers	Creation time November 21, 2022, 01:16 (UTC+05:30)	ARN  group/avengers
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Users **Permissions** Access Advisor

Permissions policies (1) Info
You can attach up to 10 managed policies.

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<input type="checkbox"/>	Policy name 🔗	Type	Description
<input type="checkbox"/>	 dev_policy_for_4_mmonths	Customer managed	

dev_policy_for_4_mmonths Copy Edit

```
1- {
2-   "Version": "2012-10-17",
3-   "Statement": [
4-     {
5-       "Sid": "VisualEditor0",
6-       "Effect": "Allow",
7-       "Action": "*",
8-       "Resource": "*",
9-       "Condition": {
10-        "ForAllValues:DateLessThan": {
11-          "aws:CurrentTime": "2023-03-01T00:00:00Z"
12-        },
13-        "ForAllValues:DateGreaterThan": {
14-          "aws:CurrentTime": "2022-11-01T00:00:00Z"
15-        }
16-      }
17-    }
18-  ]
19- }
```

Assignment 4 :- Prepare 15 authentic MCQ questions related to IAM.

1. What is the cost per user creation in aws IAM?
 - a. \$ 0.0001 / month
 - b. \$ 0.0002 / month
 - c. \$ 0.00005 / month
 - d. No charge, it's free.**
2. True or false: An explicit Allow in IAM precedes over an explicit deny.
 - a. True
 - b. False**
3. True or False: Sid in IAM policy is required field.
 - a. True
 - b. False**
4. True or False: Condition in IAM policy is optional.
 - a. True**
 - b. False

5. You're part of iam developer group with user testdev, new member joins your project to assist you in your role/job, how can we ensure new member also gets all the access that you already have to perform his work well?
- a. Ask new member to use your user credentials to perform work since you both are working on same project and on same goal.
 - b. Since you can't share your credentials for security reasons, you can login into new member machine with your credentials for temporary basis until he get's own credentials.
 - c. Create new user in aws and assign inline permissions same as in policy to get same access & ask new member to use that new user credentials.
 - d. Create new user in aws and add it to your developers group & ask new member to use that new user credentials.**
6. Which is not IAM JSON Policy Element?
- a. NotResource
 - b. NotPrincipal
 - c. NotAction
 - d. NotEffect**
7. Which is not IAM JSON Policy supported data types?
- a. Null
 - b. List
 - c. IpAddress
 - d. Double**

8. True or False: If a permissions boundary, Organizations SCP, or session policy is present, it might override the allow with an implicit deny.
- a. True**
 - b. False
9. A non-root user in aws wanted to view the billing details, is it possible in aws?
- a. Yes.**
 - b. No.
10. True or False: Any user by default can manage tags in aws.
- a. True.
 - b. False.**
11. A user in AWS wanted to use production EC2 instance for 5 minutes, which is the best practice which user can do?
- a. Attach new inline policy with expiration
 - b. Add user to the group which already has the access to production EC2 instance and once not required remove the user from that group.
 - c. Create new user with production EC2 access policy & use new user credentials and once user not required delete it.
 - d. Use AWS STS to get temporary credentials.**
12. True or False: To add permissions to users, groups, and roles, it is easier to write policies yourself than to use AWS managed policies.
- a. True
 - b. False**

13. True or False: If we lost secret access key, then we can get it from the console.
- a. True
 - b. False**
14. How many access key per IAM user can be assigned?
- a. 1
 - b. 2**
 - c. 3
 - d. no limit, any number can be assigned.
15. By default, how many users you can create in a AWS account?
- a. 500
 - b. 5000**
 - c. 50000
 - d. 50

Assignment 5 :- Launch your linux instance in IAM and update your machine.

```
[ec2-user@ip-172-31-33-236 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-notif
amzn2-core | 3.7 kB 00:00:00
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/applydelta 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-172-31-33-236 ~]$
```