

IAM Assignment

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

I created a aws account for me once all setted up in aws I went to IAM to create new user in my account

And created a user in the name of **Admin1** and given **administrator access permission**

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name	Admin1
AWS access type	AWS Management Console access - with a password
Console password type	Custom
Require password reset	No
Permissions boundary	Permissions boundary is not set

Permissions summary

The following policies will be attached to the user shown above.

Type	Name
Managed policy	AdministratorAccess

Tags

Cancel Previous **Create user**

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

Initially I created three IAM user in the name of Dr.Strange,Spider man & Iron man

<input type="checkbox"/>	Dr.Strange	None	Never	None	✓ 1 minute ago
<input type="checkbox"/>	IronMan	None	Never	None	✓ Now
<input type="checkbox"/>	Spiderman	None	Never	None	✓ Now

Once I created IAM Users I went to user group to create a group in the name of **Dev-Group** then I added my avenger users and provided IAM policy to that group

[IAM](#) > [User groups](#) > [Dev-Group](#)

Dev-Group

Summary

User group name	Creation time	ARN
Dev-Group	November 03, 2022, 08:51 (UTC+05:30)	arn:aws:iam::303450385177:group/Dev-Group

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.

<input type="checkbox"/>	User name	Groups	Last activity	Creation time
<input type="checkbox"/>	Dr.Strange	1	None	8 minutes ago
<input type="checkbox"/>	IronMan	1	None	6 minutes ago
<input type="checkbox"/>	Spiderman	1	None	7 minutes ago

Assignment 3 :- Define a condition in policy for expiration:

I created new policy called **DenyPolicy** which will deny all the services for particular period from **3rd nov 2022 to 01 feb 2023**

Create policy

1 2 3

A policy defines the AWS permissions that you can assign to a user, group, or role. You can create and edit a policy in the visual editor and using JSON. [Learn more](#)

Visual editor JSON Import managed policy

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Deny",
6       "Action": "*",
7       "Resource": "*",
8       "Condition": {
9         "DateGreaterThan": {"aws:CurrentTime": "2022-11-03T00:00:00Z"},
10        "DateLessThan": {"aws:CurrentTime": "2023-02-01T00:00:00Z"}
11      }
12    ]
13  }
14 }
```

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

Once I created them I assigned that policy to the user called Admin2

Add user

1 2 3 4 5

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name	Admin2
AWS access type	AWS Management Console access - with a password
Console password type	Autogenerated
Require password reset	No
Permissions boundary	Permissions boundary is not set

Permissions summary

The following policies will be attached to the user shown above.

Type	Name
Managed policy	DenyPolicy

Tags

No tags were added.

Assignment 3 :- Prepare 15 authentic MCQ questions related to IAM:

1.An IAM user:

- (a) is an entity that you create in AWS
- (b) is to give people the ability to sign in to the AWS Management Console for interacting with services using the API or CLI
- (c) A and B both
- (d) None of these

Answer:C

2.IAM group:

- (a) Is same as IAM users
- (b) Can be used to specify permissions for a collection of users
- (c) Is truly an identity
- (d) All of these

Answer:B

3.Names of IAM identities (users, roles, and groups):

- (a) Must be unique within the AWS account
- (b) Must be unique within the availability zone
- (c) Must be unique within the region
- (d) Must be unique within the AWS cloud whole

Answer:A

4.How many maximum groups can be created in an AWS account?

- (a) 25
- (b) 50
- (c) 100
- (d) 200

Answer:C

5.How many maximum users can be created in an AWS account?

- (a) 2000
- (b) 5000
- (c) 8000
- (d) 10000

Answer:B

6.How many maximum roles can be created in an AWS account?

- (a) 200
- (b) 300
- (c) 400
- (d) 500

Answer:D

7.An IAM user cannot be a member of more than __ groups.

- (a) 10
- (b) 20
- (c) 50
- (d) 100

Answer:A

8.When you first create an Amazon Web Services (AWS) account, you begin with a single sign-in identity that has complete access to all AWS services and resources in the account. This identity is called:

- (a) Root user
- (b) Main user
- (c) Super user
- (d) None of these

Answer:A

9.Choose the below statements are true or false for AWS:

1. When you create an IAM user, you grant it permissions by making it a member of a group that has appropriate permission policies attached (recommended), or by directly attaching policies to the user

2. You can also clone the permissions of an existing IAM user, which automatically makes the new user a member of the same groups and attaches all the same policies.

- (a) 1. True, 2. True
- (b) 1. True, 2. False
- (c) 1. False, 2. True
- (d) 1. False, 2. False

Answer:A

10.AWS evaluates _____ when an IAM principal makes a request.

- (a) Username and Password
- (b) MAC Address
- (c) Security Policies
- (d) IP Address

Answer:C

11.How many maximum managed policies can be assigned to an IAM entity?

- (a) 2
- (b) 5
- (c) 10
- (d) 20

Answer:C

12.What is the IAM Hierarchy of Privileges?

- (a) Root user-IAM user-user with temporary credentials
- (b) IAM user-user with temporary credentials-Root user
- (c) user with temporary credentials-Root user-IAM user
- (d) Root user-user with temporary credentials-IAM user

Answer:A

13.What are the 5 top security credentials in AWS IAM?

- (a) User-id and Password
- (b) E-mail address and Password
Access Keys
- (c) Key pair
Multi-factor authentication
- (d) All the above

Answer:D

14. How to control Authorization in AWS IAM?

- (a) control authorization by creating policies.
- (b) By Creating s3 bucket
- (c) By creating instances
- (d) By creating virtual private network

Answer: A

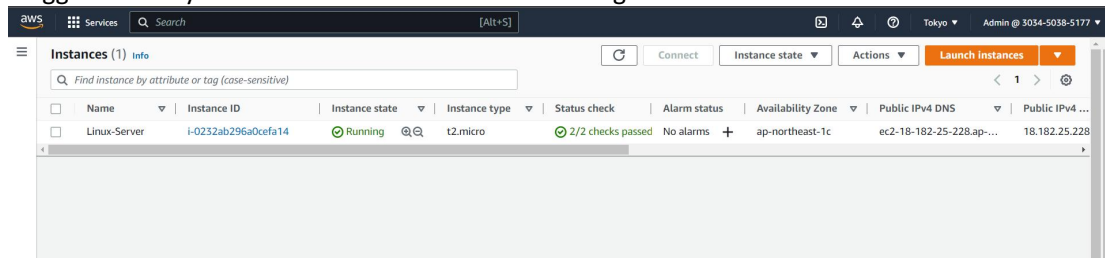
15. In the IAM service, can we monitor the IAM user activity?

- (a) Yes
- (b) No

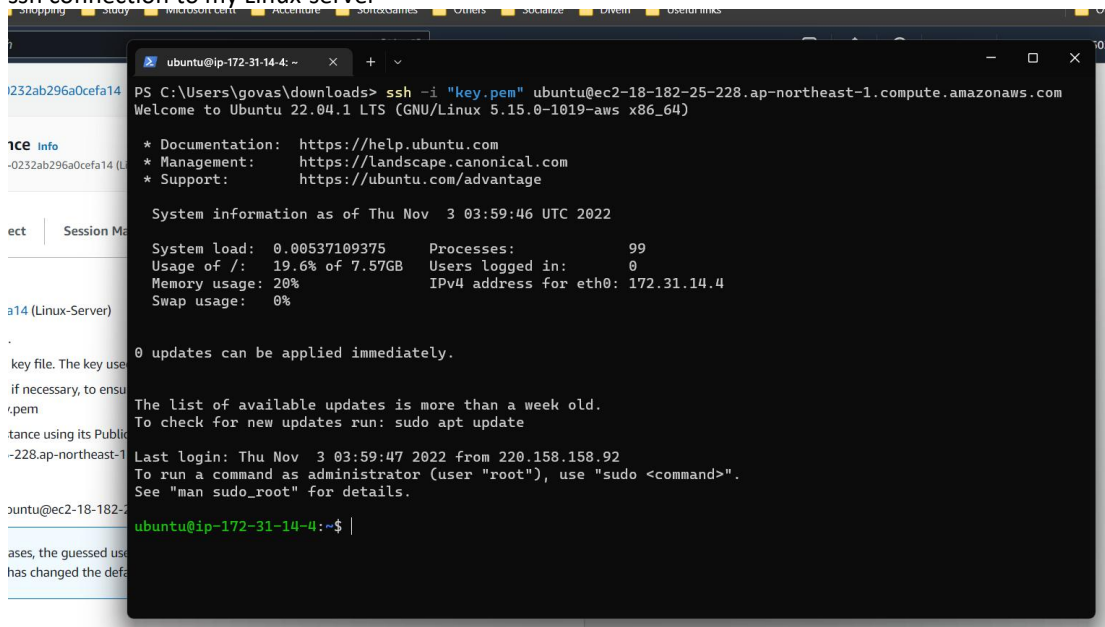
Answer: A

Assignment 4 :- Launch your linux instance in IAM and update your machine:

I logged in to my IAM User Admin and started creating Linux machine



And I created **ubuntu machine** in the name of **Linux-server** then I used windows terminal to establish ssh connection to my Linux-server



Then I started updating along with upgrading my linux server using below command

Sudo apt update && sudo apt upgrade

And now everything is in uptodate