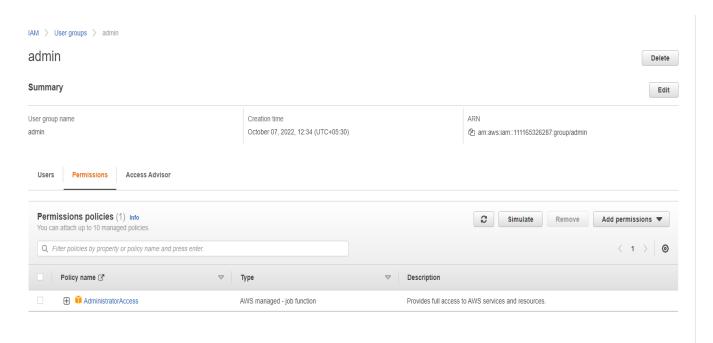
# Assignment sheet for IAM

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

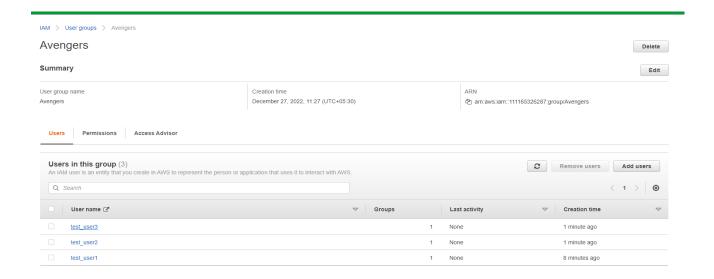
Answer: Created an IAM user with the name of "admin" and assigned him the administrator permissions



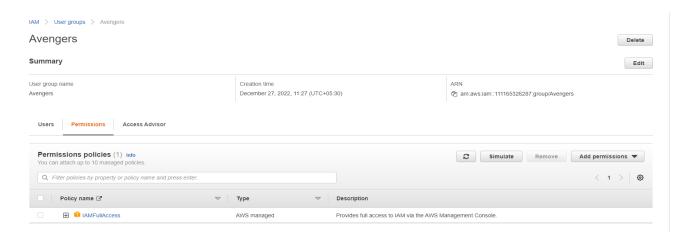
Assignment 2 :- Hello students, in this assignment you need to prepare adevelopers team of avengers.

- Create 3 IAM users of avengers and assign them in developer's groups withIAM policy.

Created three new users test\_user1, test\_user2 and test\_user3 and assingned them in the Avengers group



# **Permissions of the Avengers Group:**



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

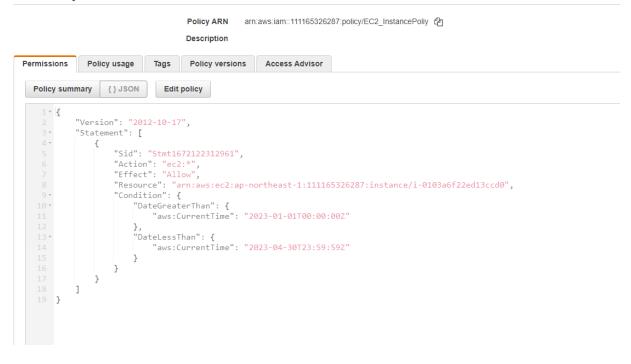
```
"DateGreaterThan": {"aws:CurrentTime":
"2020-04-01T00:00:00Z"},

"DateLessThan": {"aws:CurrentTime":"2020-06-30T23:59:59Z"}
```

Define the span of 4 months as per your wish

Answer: Created a policy and added the expiration conditions

## Summary



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

- 1. Which statement is true regarding IAM?
  - a) It allows you to deploy and manage applications in the AWS Cloud.
  - b) IAM allows you to manage users, groups, roles, and their corresponding level of access to the AWS Platform.
  - c) IAM allows you to manage users' passwords only and can be done via raising a ticket
  - d) IAM allows you to manage permissions for AWS resources only

#### Answer: B

- 2. Which of these is a part of IAM (Choose two)
  - a) MFA.
  - b) Billing
  - c) Instance
  - d) Policy

## Answer: a and d

- 3. In which language IAM policies ae being written
  - a) html
  - b) xml
  - c) json
  - d) java

## Answer: c

4. Can a user belong to multiple groups?

- a) true
- b) false

## Answer: a

- 5. By default an IAM user created will have
  - a) Partial permission
  - b) No permission
  - c) Full permission

#### Answer: b

- 6. Which of the following is not a part of Policy structure
  - a) version
  - b) id
  - c) statement
  - d) Access

## Answer: d

- 7. Which of the following is true about principal
  - a) account/user/role to which this policy applied to
  - b) an identifier for the statement
  - c) list of actions this policy allows or denies
  - d) list of resources to which the actions applied to

#### Answer: a

- 8. An user cannot inherit the permissions assigned in the group
  - a) true
  - b) false

# Answer: b

- 9. What is an additional way to secure the AWS accounts of both the root account and new users alike?
  - a) Implement Multi-Factor Authentication for all accounts.
- b) Store the access key id and secret access key of all users in a publicly accessible plain text document on S3 of which only you and members of your organization know the address to.
- c) Configure the AWS Console so that you can only log in to it from your internal network IP address range.
- d) Configure the AWS Console so that you can only log in to it from a specific IP Address range

#### Answer: a

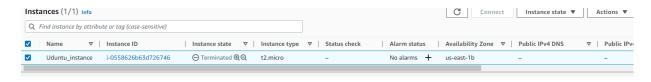
10. What is the optional element in IAM policy document

b) Action c) Effect
d) Condition
Answer: d
11. A is a document that provides a formal statement of one or more permissions.
a) Group
b) Policy
c) Role d) User
Answer: b
12. Can we revoke a policy assigned to a user?
a) true
b) false
Answer: a
13. Which of these is Identity in IAM?
a) roles
b) groups c) users
d) all of these
Answer: b
14. Which of the following can be used along multiple identities?
a) roles
b) policies c) users
d) password
Answer: b
45 Miles of these is 1000 main size 12
15. Which of these is IAM principal?
a) roles
b) application
c) users d) all of these
Answer: d

a) Version

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

Answer: Created an ubuntu instance and updated the machine



```
aws | Services | Q | Search | [Alt+S] |

abuntu@ip-172-31-84-213:~$ sudo apt-get update |

fit:1 | http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease |

Set:2 | http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease | [114 kB] |

Set:3 | http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease | [99.8 kB] |

Set:4 | http://security.ubuntu.com/ubuntu jammy-security InRelease | [110 kB] |

Set:5 | http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 | Packages | [14.1 MB] |

Set:6 | http://security.ubuntu.com/ubuntu jammy-security/main amd64 | Packages | [532 kB] |

Set:8 | http://security.ubuntu.com/ubuntu jammy-security/main Translation-en | [114 kB] |

Set:9 | http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 | Packages | [460 kB] |

Set:10 | http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 | Packages | [460 kB] |

Set:11 | http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en | [70.5 kB] |

Set:12 | http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 | C-n-f | Metadata | [532 B] |

Set:13 | http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 | Packages | [622 kB] |

Set:14 | http://security.ubuntu.com/ubuntu jammy-security/universe amd64 | Packages | [622 kB] |

Set:14 | http://security.ubuntu.com/ubuntu jammy-security/universe amd64 | Packages | [622 kB] |

Set:15 | http://security.ubuntu.com/ubuntu jammy-security/universe amd64 | Packages | [622 kB] |

Set:15 | http://security.ubuntu.com/ubuntu jammy-security/universe amd64 | Packages | [622 kB] |

Set:15 | http://security.ubuntu.com/ubuntu jammy-security/universe amd64 | Packages | [622 kB] |

Set:15 | http://security.ubuntu.com/ubuntu jammy-security/universe amd64 | Packages | [622 kB] |

Set:15 | http://security.ubuntu.com/ubuntu jammy-security/universe | Packages | [622 kB] |

Set:15 | http://security.ubuntu.com/ubuntu jammy-security/universe | Packages | [622 kB] |

Set:16 | http://security.ubuntu.com/ubuntu jammy
```

```
Set:37 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [272 B]

Get:38 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]

Get:39 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [6740 B]

Get:40 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [348 B]

Get:41 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [348 B]

Get:42 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [348 B]

Get:42 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [348 B]

Fetched 25.1 MB in 49 (6084 kB/s)

Beading package is in a hone

ubuntu@ip-172-31-84-213:*S sudo apt-get upgrade

Reading package is in a hone

Reading package is in a hone

Reading package will be upgraded:
    apport binutils binutils-common binutils-x86-64-linux-gnu ca-certificates cloud-init initramfs-tools initramfs-tools-bin initramfs-tools-core

libpython3.10-minimal libpython3.01-stdlib libxml2 python3-apport python3-distupgrade python3-problem-report python3-tz python3.10

Read to get 13.6 MB of archives.

Need to get 13.6 MB of archives.

After this operation, 138 kB of additional disk space will be used.

Do you want to continue? [Yn] y

Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpython3.10 amd64 3.10.6-1-22.04.2 [1955 kB]

Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpython3.10-minimal amd64 3.10.6-1-22.04.2 [1832 kB]

Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpython3.10-minimal amd64 3.0.6-1-22.04.2 [100 kB]

Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpython3.10-minimal amd64 3.0.6-1-22.04.2 [100 kB]

Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpython3.10-minimal amd64 3
```