April - 29 - 2022

(1) How many Individual users can be created in AWS?

5000

(2) what is IAM?

IAM stands for Identity and Access Management. It provides fined-grained access control across all of AWS. with IAM, you can specify who can access which services and resources and under which conditions.

(3) what is policy?

A policy is an object in AWS that, when associated with an entity or resource, defines their permissions. AWS evaluates these policies when a principal, such as a user, makes a request. permissions in the policies determine whether the request is allowed or denied. Most policies are stored in AWS as JSON documents.

(4) what is region & global services in AWS?

some of the services are only available in regions those services are called Regional services.

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EX :- EC2, EBC, ECS, Amazon API gateway, DynamoDB, Storage Gateway

Global Services :- The services which are available for the users globally.

EX :- Route 53, WAF, cloud Front

(5) what is user Group ?

It is a collection of IAM users. & to specify permissions for a collection of users

An IAM user group is a collection of IAM users managed as a unit. An IAM identity represents a user, and can be authenticated & then authorized to perform actions in AWS. Each IAM identity can be associated with one or more policies.

6) what is Authorization ?

It is a process by which a server determines if the client has permission to use a resource or access a file. Authorization is usually coupled with authentication so that the server has some concept of who the client is that is requesting access.

(7) what is Authentication ?

Authentication is how you sign in to AWS using your credentials. you must be authenticated (signed into AWS) as the AWS account root user, an IAM user, or by assuming an IAM role - also with mngmt console.

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8) what is MFA ?

MFA → Multi-factor Authentication is a multi step account login process that requires users to enter more information than just a password. It adds extra protection.

9) what are the 3 components on which billing and pricing is done in Aws ?

1) compute
2) storage
3) outbound data transfer.

10) what are the different ways to access Aws services & launch Aws services ?

(1) Through API
(2) Through CLI (command Line Interface)
(3) Through Management console.

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① what are the steps to create user & attach an existing policy?

1) open IAM and click on users.

2) click on Add users.

3) provide user name and check the password - AWS management console and choose the custom / Autogenerated pswd. and check mark the required pswd reset & click Next permission.

4) click on attach existing policies directly and click on next. again click on next.

5) See the review and click on create user

6) then download the csv file and click on the link in new cognito mode and login with the user credentials.

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② what are the steps to create group and assign users to it ?

1) open IAM
2) click on user groups.
3) click on Add create group.
4) Enter the user group name and Add the users to the group which the users has been created previously.
5) Add you can attach the existing policies as well.
6) click on create user group.

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③ List down IAM practices ?

* Lock away the AWS root user access keys.
* create individual IAM users.
* Use AWS defined policies to assign permissions whenever possible.
* Use groups to assign permissions to IAM users.
* Grant least privilege.
* Use access levels to review IAM permissions
* configure strong pswd policy for users.
* Enable MFA
* Remove unnecessary credentials.
* Use policy conditions for extra security.
* Monitor activity in your AWS account.

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(4) what are the diff Authentication methods;

1) Access Key (For API request)

2) password (For mgnt console)

3) CLI

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