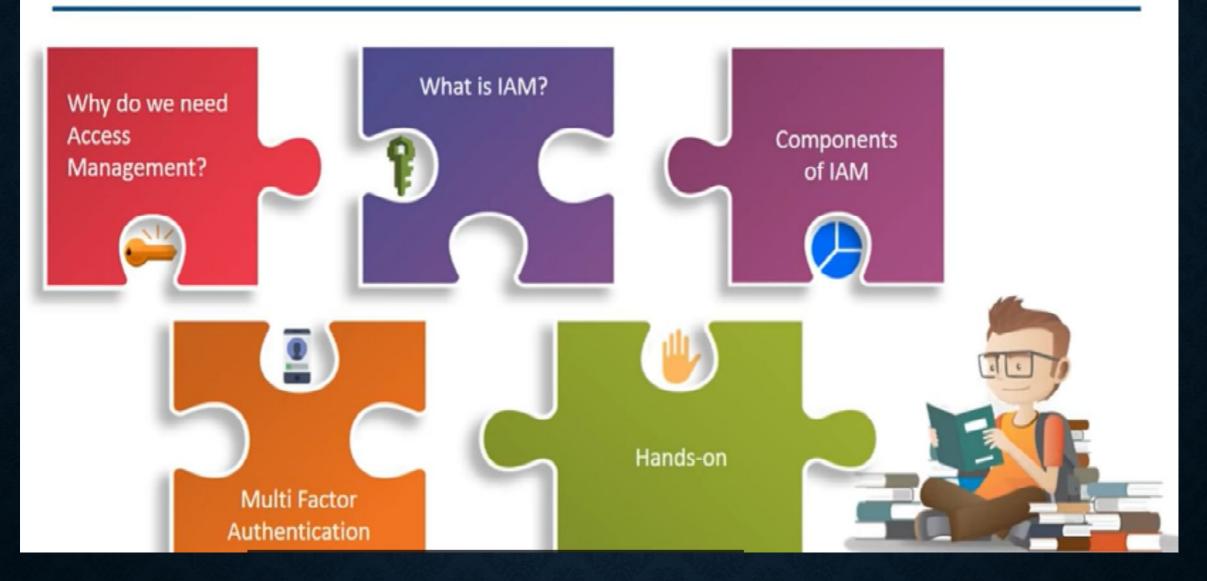


IAM

Manage User Access & Encryption Key

Agenda



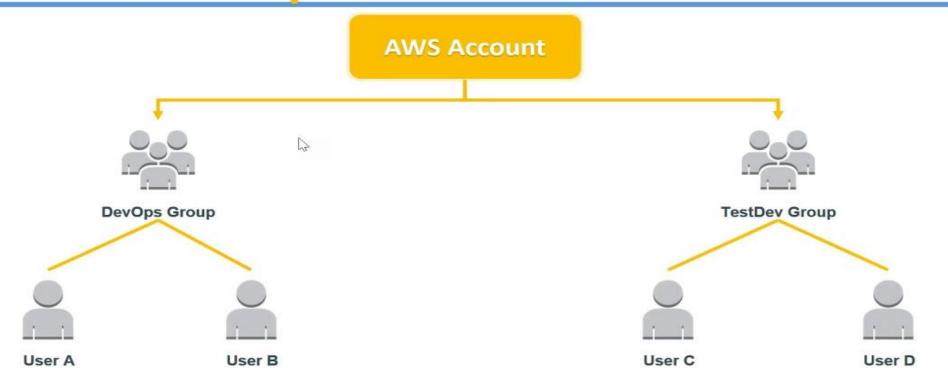
IAM

- AWS Identity and Access Management (IAM) enables you to manage access to AWS services and resources securely
- Securing Your AWS account using IAM
- Using IAM, you can create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources.
- IAM is a feature of your AWS account offered at no additional charge.
- With IAM, Organizations can centrally manage users, security credentials such as access keys, and permissions that control which AWS resources users can access.
- IAM enables the organization to create multiple users, each with its own security credentials, controlled and billed to a single aws account. IAM allows the user to do only what they need to do as a part of the user's job.



IAM: Groups









Features of IAM



Centralised control of your AWS account: You can control creation, rotation, and cancellation of each user's security credentials. You can also control what data in the aws system users can access and how they can access.

Shared Access to your AWS account: Users can share the resources for the collaborative projects.

Granular permissions: It is used to set a permission that user can use a particular service but not other services.

Multifactor Authentication: An AWS provides multifactor authentication as we need to enter the username, password, and security check code to log in to the AWS Management Console.

Permissions based on Organizational groups: Users can be restricted to the AWS access based on their job duties, for example, admin, developer, etc.

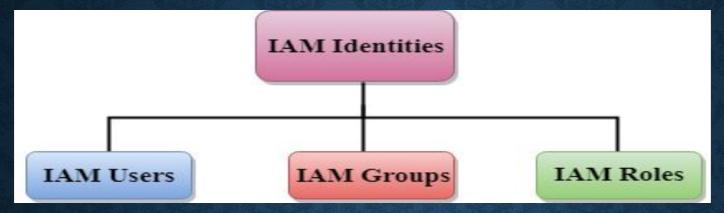
Networking controls: IAM also ensures that the users can access the AWS resources within the organization's corporate network.

Provide temporary access for users/devices and services where necessary: If you are using a mobile app and storing the data in AWS account, you can do this only when you are using temporary access.

Integrates with many different aws services: IAM is integrated with many different aws services.

IAM Identities





AWS Account Root User

When you first create an AWS account, you create an account as a root user identity which is used to sign in to AWS.

You can sign to the AWS Management Console by entering your email address and password. The combination of email address and password is known as **root user credentials**.

When you sign in to AWS account as a root user, you have unrestricted access to all the resources in AWS account.

The Root user can also access the billing information as well as can change the password also.

IAM Identities



User

Specific Individual, can receive personal logins.

Group

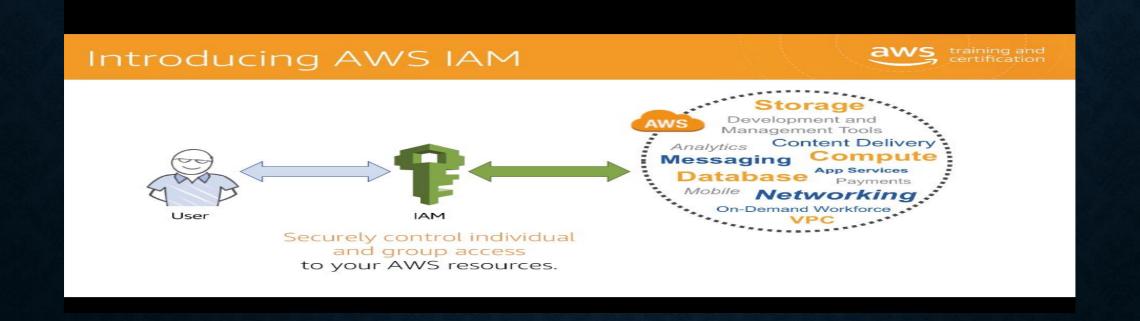
Collection of IAM users that you can manage as a unit.

Roles

Are a secure way to grant permissions to entities that you trust.

Policy

Set of Permissions





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