6. Explain the IAM role

AWS IAM stands for Identity & Access Management and is the primary service that handles authentication and authorization processes within AWS environments.

As an AWS account management service, it lets you control access to AWS services, in a secure manner and helps to monitor who is authenticated and allowed to use resources.

* By using AWS IAM, you can manage users and their access level.
* All account settings are made through this service.
* It allows us to create and manage objects such as User, Group, Role, and Policy.
* Account owner can identify and allow the user to use specified services.
* All kinds of user password restrictions and multifactor authentication settings are also made through IAM.

### IAM Features

* **Free to use:**
* **Shared access to your AWS account:**
* **Granular permissions:**
* **Secure access to AWS resources for applications that run on Amazon EC2:**
* **Multi-factor authentication :**
* **Identity federation:**
* **Identity information for assurance:**
* **Payment Card Industry and Data Security Standard Compliance:**
* **Integrated with many AWS services:**
* **Eventually Consistent:**