

## ① Users and groups:

- ① Users: 1) Individuals who can log in to a cloud service with unique credentials

Access control: Users are assigned specific permissions to determine what resources and actions they can access.

Authentication and Authorization: Verifying user identity and granting appropriate permissions.

- ② Groups: 1) A collection of users with similar access rights and permissions

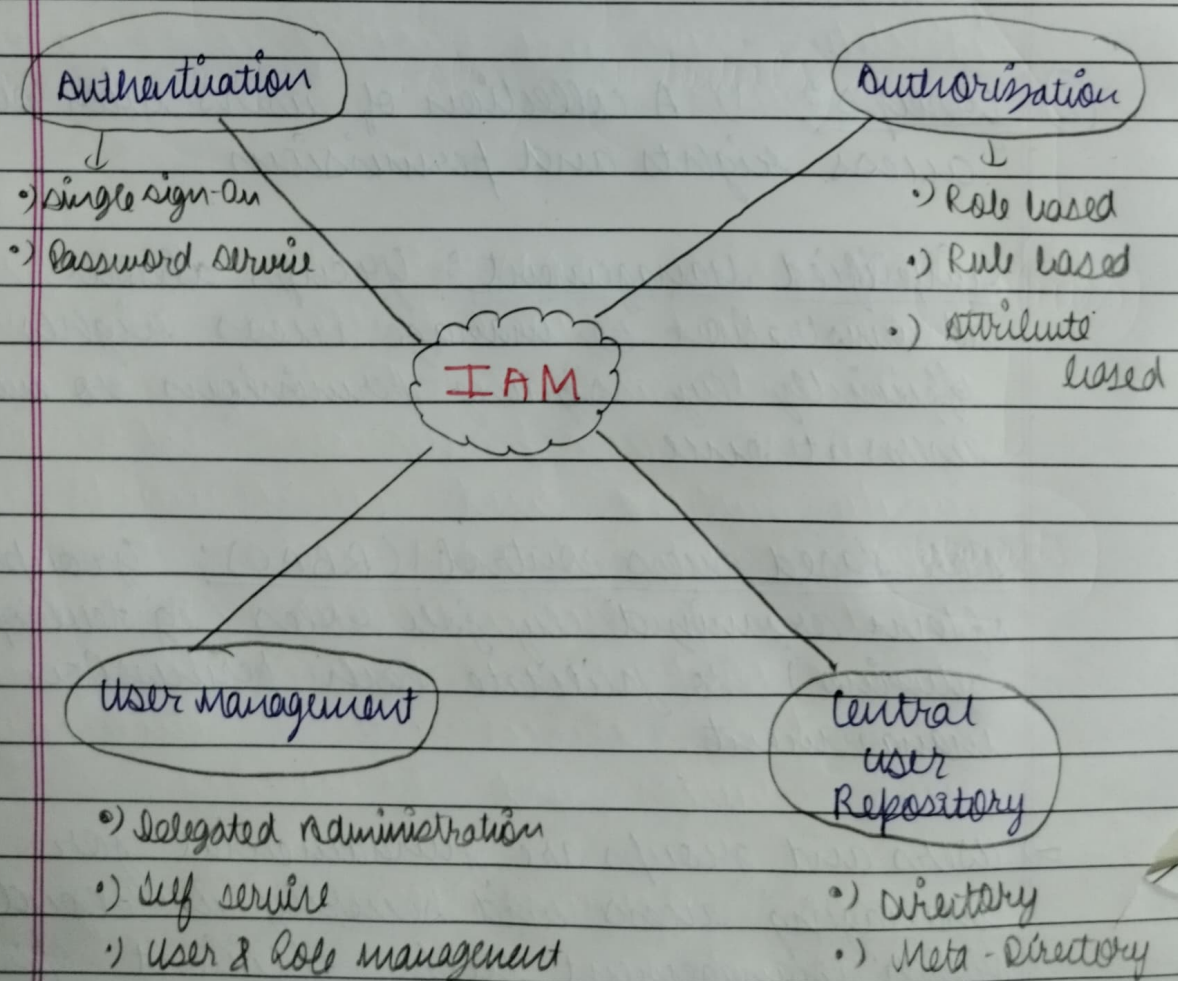
Simplified management: Groups allow administration to manage access rights efficiently by assigning permissions to multiple users at once.

Role Based Access Control (RBAC): Groups are often organized by job roles (eg developers, admins) to facilitate each permission management.

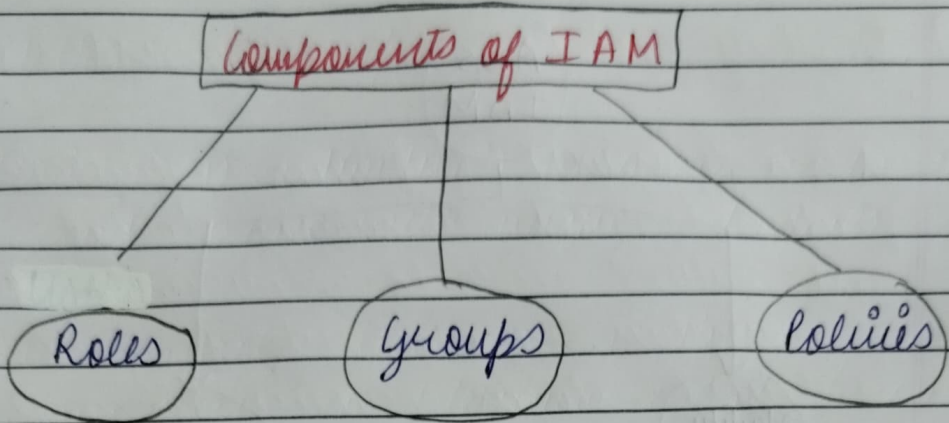
⇒ Users and groups are fundamental for managing access and security in cloud env. Proper management helps efficient operations, enhanced security, and compliance with regulatory requirements.

## ② Identity and Access Management (IAM):

It is a framework of policies, technologies, and practices designed to manage digital identities and control access to resources within an organization. In the context of CC, it plays a crucial role in securing access to cloud services and ensuring that only authorized users and services have the necessary permissions to perform actions on cloud resources.







With these new applications being created over the cloud, mobile and on-premise can hold sensitive and regulated info. It's no longer acceptable and feasible to just create an identity server and provide users based on the requests.

③ **IAM Roles**: IAM roles are critical feature within cloud service platforms like AWS, Azure and Google cloud. They are designed to manage users permissions and ensure security within cloud environments. Unlike traditional IAM users, which are linked to specific individuals, IAM roles provide temporary credentials that can be used by various entities, including users, services, and applications.

Use cases: 1) Services Access: Allowing AWS services like EC2 etc.

2) Temporary Usage Access: Granting short term access.

