# AWS Topic/Troubleshoot

## Cloud

**Public Cloud:** AWS Azure, google managing all the server's infrastructure.

**Private Cloud:** you are managing all the infrastructure of your company cloud(server, data center continence,network, workers to manage 7 so on)

**Dis:**

* **Managing data center, networking**

## Virtualization

## Authentication/Authorization

### IAM(Identity access management)

-gives least level of permission

#### Roles

* Give the access to the resource to access service.

#### Group

* Create a dev, QA, trainee, administrator group & depending upon their work assign the user in this grp with read/write permission.

#### Policies

* Create a policy depending upon the access needed Read/ Write permission to the user.

#### User

* It is used for authentication

# EC2

**Elastic compute cloud**

**Why?**

* if you created your own virtual machine the difficulties we will face is
  + 1000 server
  + **Timely upgrade**
  + **Security issue**
  + **Server is down**

Aws will take care of management effort & it is also optimized cost.

**Type:**

* **General purpose**
* **Compute optimised**
* **Memory-optimized**
* **Storage- optimized**
* **Accelerated optimized**

Region: Datacenter across the world.

Availability zones: in 1 region we have multiple AZ.

Remember Security, Latency.