**Assignment 3**

1. What is the need of IAM?

IAM stands for Identity access management which tell how the roles/permission/access will be given to users/groups to manage the various resources like EC2, IAM access, S3, etc.

It’s needed due to the following reasons: -

1. so as to differentiate the groups or teams in a organization like for a team of Development we will assign them dev ops role and where as for a team of database engineer we will assign them DBA Admin group.
2. To avoid the conflict between the team by limiting the access to their role.
3. To avoid any kind of incident by having access specific to their role.
4. To ease the management of roles defined in an organization by assigning them role specific to their job.
5. To ease the management of resources.
6. To ease the management of users/group/roles.
7. If i am a non tech person, how will you define policies in IAM.

Policies we can say a set of permission/access given to a user or group to perform the task as per their role.

1. Please define a scenario in which you would like to create your on own IAM policy.

Let’s suppose I wan to give read only access to one file only in S3 bucket for few users only.

In this case we will create a IAM policy in which we will give the name of that particular file in JSON query.

1. Why do we prefer not using root account?

Root user reside on the top level in terms of access and have all powers of AWS services which can create/delete/remove/updated. When we create services under root user in this case, we need to give the access of root user to everyone and which will cause the conflict and unavoidable incidents.

1. How to revoke policy for an IAM user?

It can be done using AWS console under users column left side, select the user for which we want to revoke the policy using root user.

1. Can a single IAM user be a part of multiple policy via group and root? how?

Yes user can be part of multiple groups and root policy, as we can attach multiple policies to group and users can be added to multiple groups using root account.