**AWS Class Notes**

IAM – Identity and Access Management Server

1. Authentication
   1. Ability to login into aws account
      1. Username/Password
   2. You say you are who you are.
2. Authorization
   1. What resources you are authorized to **view** or make changes (create/update/delete)
3. Users
   1. Authentication
      1. Programmatic
         1. No MFA
         2. Service accounts
         3. Comes with Access Key ID
         4. Comes with Secret Key
         5. SDK – software development kits
         6. APIs – Application programing interface
         7. CLI – Command Line Interface
         8. Third party tools or applications or some other programing languages. E.g java python, .net
      2. AWS Management Console
         1. Ability to login though the web browser (AWS console)
         2. Enable MFA (Multi-factor Authentication)
4. Roles
   1. Trust policy (Relationship)
5. Policies
   1. Authorization
      1. Written in JSON
         1. Set of rules(permission) granting or denying access into aws resources
6. Groups
   1. Set of users performing the same tasks
      1. Example – Administrators, Developers, Designers, Solutions Architect
   2. Assign the sample policy to every user in a group
7. ARN – Amazon Resource Name
8. Password Policy