IAM (Identity and Access management)

* To create users, groups, policy; IAM is used
* IAM does not have permission of billing
* IAM and Root both have permission of Read, write, execute and delete
* Ho to create User (using default policy)
  + Go to IAM
  + Go to user
  + Click Add User
    - Username: tom <any>
  + Select AWS access type
    - Select AWS credential type
    - Click both access key and password
    - Console password
      * Select custom password
        + Provide password
      * Uncheck require password
  + Click on next permission
    - In set permission
      * Click attach existing policies directly
      * Select Administrator Access Policy
      * Click next tag
      * Click next Review
      * Click create user
      * Click close
      * User created successfully
  + Login to User
    - Click on user
    - In security credential
      * Copy summary
    - Paste in browser
    - Provide username and password
    - Login
    - We will get same dashboard as of Root
* Create user using custom policy
  + Click on policy
  + Click on create policy
  + In visual editor
    - In select service
    - In service
      * Select S3
    - Specify the action allowed
      * Access level
        + Check n list check on Read
        + Check on Tagging
        + In write (check all)

Uncheck all delete options

* + - * + In permission management

Check all accept delete

* + - * + Click next tag

In resources (Actions)

Select all resources

* + - * + Again click next tag
        + Click review
      * Review policy
        + Name 🡪 EC2 Customise policy for HPCSA\_HPCSA
        + Click create
    - Assign this policy to user or group
      * Go to user group
      * Click create group
        + User group name 🡪 HPCSA-HPCSA
      * Attach permission policies
        + Select that policy which we have created
        + Click on create group
      * Click on User
        + Click on Add User
        + Give username
        + In permission

Select group we created

Next tag

* + - * + In permission summary

We will see our policy

* + - * + Click Create User

Qusetion-1: Create a policy for developer

1. Create policy Read, write for S3 lambda except delete
2. Create policy with Read for EC2.eks and EMR

Qusetion-2:

1. Create a policy with Read, write for S3 except delete
2. Create a policy with read for EC2,.eks, EMR and lambda

Qusetion-3: create 2 user, assign developer policy and QA policy to them.