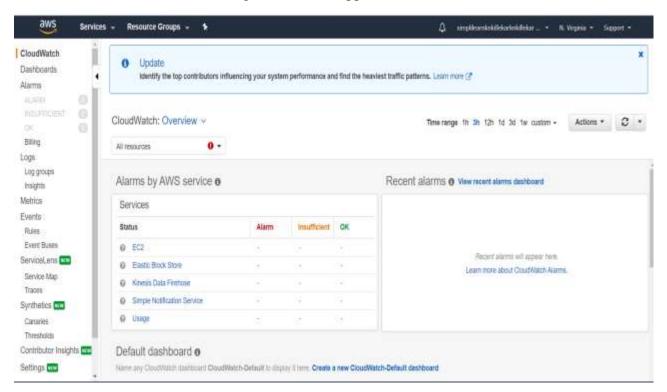
Project Details

In this project, I am going to meet the following objectives.

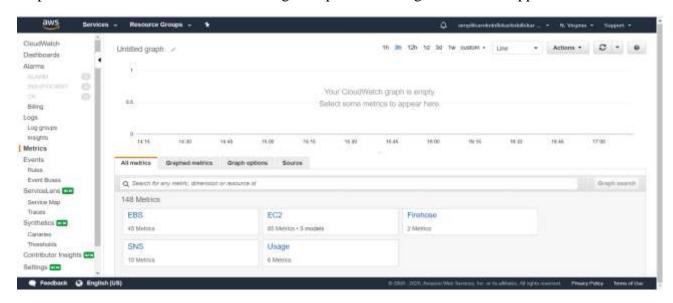
- 1. Check CPU utilization of EC2 instance.
- 2. Create an alarm for CPU utilization.
- 3.Create IAM user.
- 4. Create the IAM Administrator group and add user to IAM Administrator group.
- 5.Create role.

1. Check the CPU Utilization.

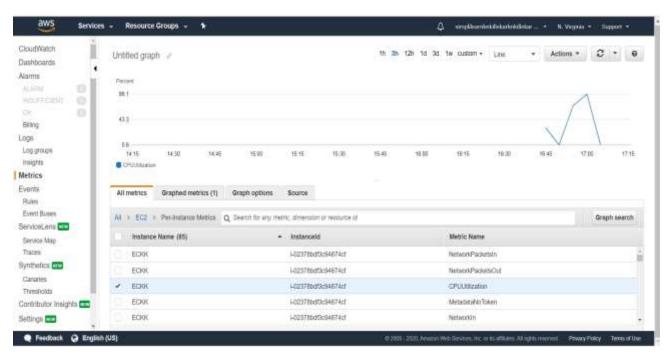
Step 1: Open AWS management console, click on Services. Go to Management & Governance and click on CloudWatch. Following window will appear.



Step 2: Next click on Metrics on left navigation pane following window will appear.

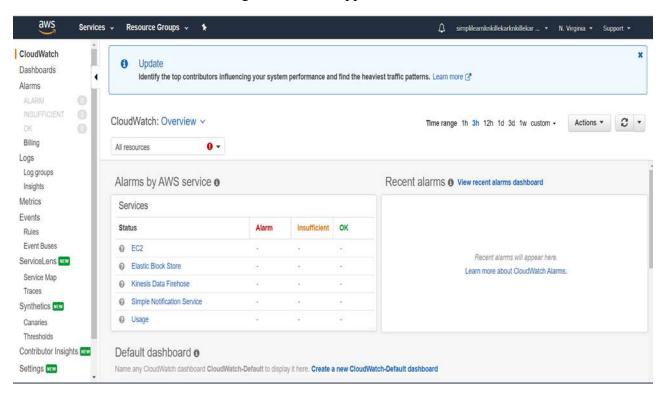


Step 3: Click on EC2 and then click on Per-Instance metrics. From Per-instance metrics select Instance Name as ECKK and Metric Name as CPUUtilization which displays the graph as shown below.

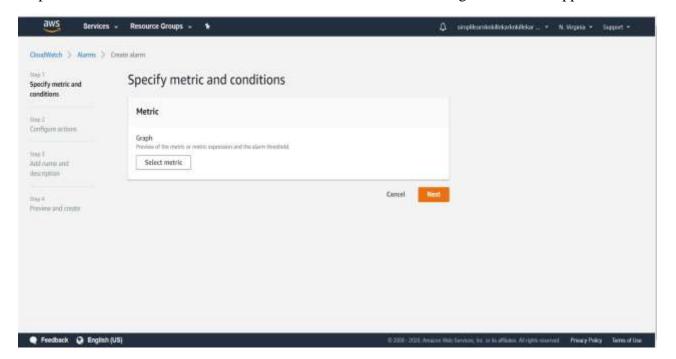


2. Create an Alarm.

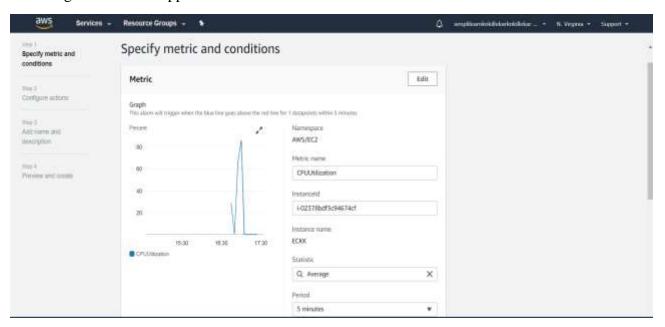
Step 1: Open AWS management console, click on Services. Go to Management & Governance and click on CloudWatch. Following window will appear.



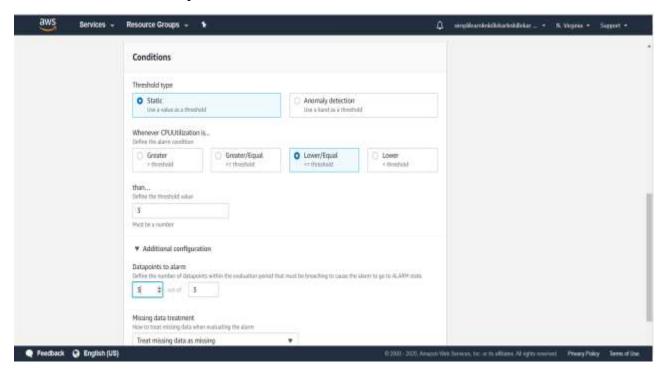
Step 2: Next click on Alarms and then click on create alarm following window will appear.



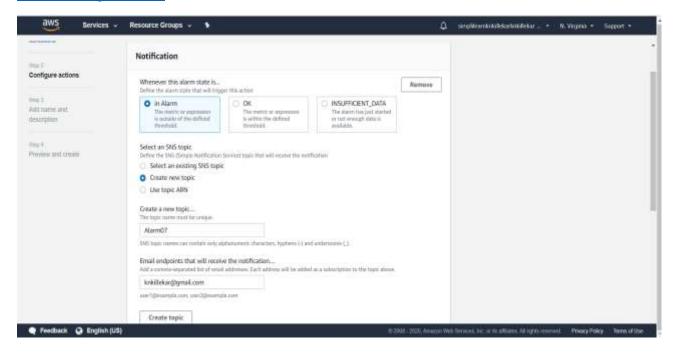
Step 3: Next click on EC2 and then click on Per-Instance metrics. From Per-instance metrics select Instance Name as ECKK and Metric Name as CPUUtilization and click on select metric following window will appear.



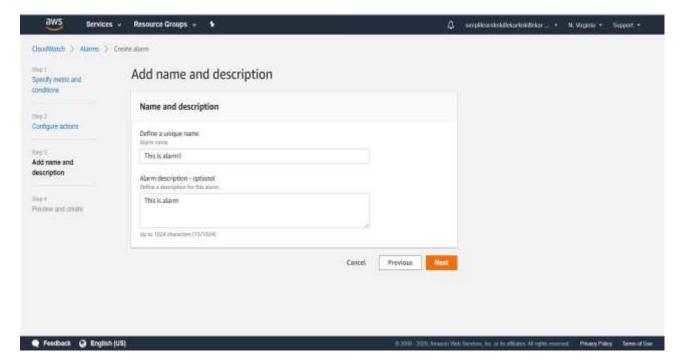
Step 4: Then set the threshold type to static ,select whenever CPUUtilization to <= threshold, threshold value=3 and datapoints to alarm=3, as shown below and click on next.



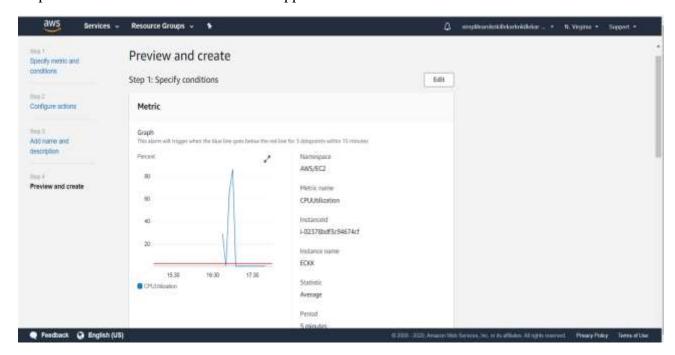
Step 5: Following window will appear and select the options as shown in the window. Create new topic as Alarm07 and Email endpoints that will receive the notification to knkillekar@gmail.com as shown below and click on next.



Step 6: A window of Add name and description will appear and enter the details as shown below and click on next.

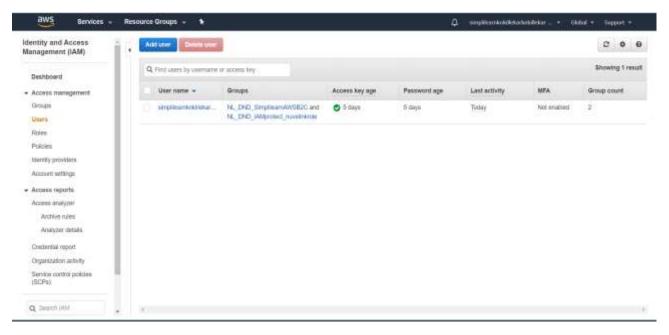


Step 7: Preview and create window will appear and click on create alarm as shown below.

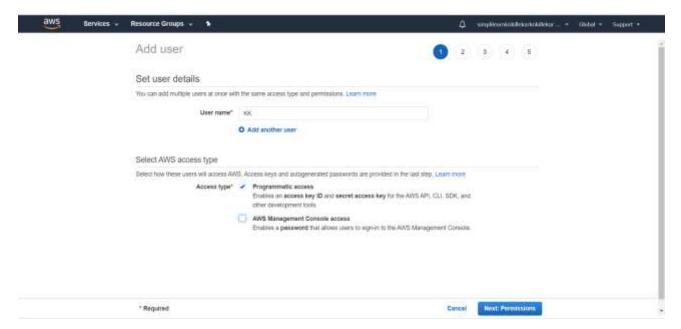


3. Create an IAM User.

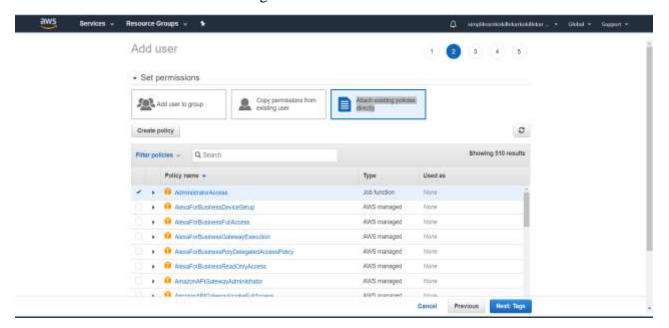
Step 1: Open AWS management console, click on Services. Go to Security, Identity, & Compliance and click on IAM. Then from left navigation pane select Users option following window will appear as shown below.



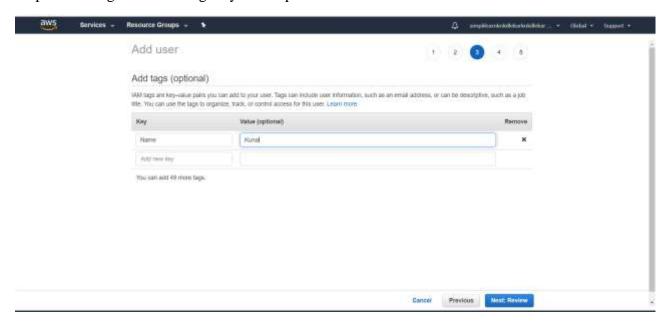
Step 2: Next click on Add user and enter the User name as "KK" and select the option Access type as "Programmatic access" as shown below and click on Next: Permissions.



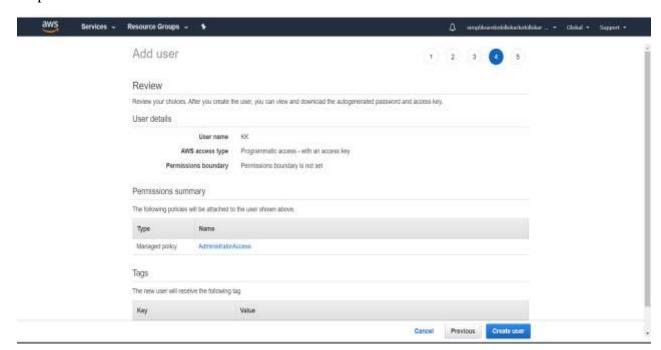
Step 3: Now set the permissions to Administrator access from Attach existing policies directly as shown below and click on Next: Tags.



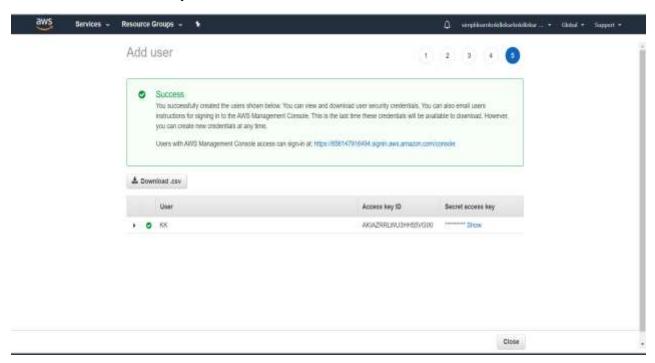
Step 4: Add tags to user using Key-Value pair as shown below and click on Next: Review



Step 5: Review the user details as shown below and click on Create user.

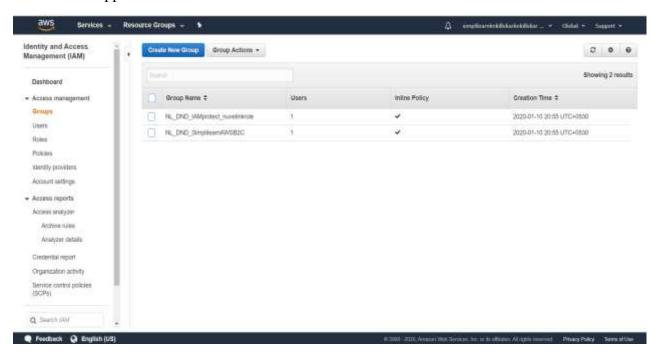


User is created successfully as shown below.

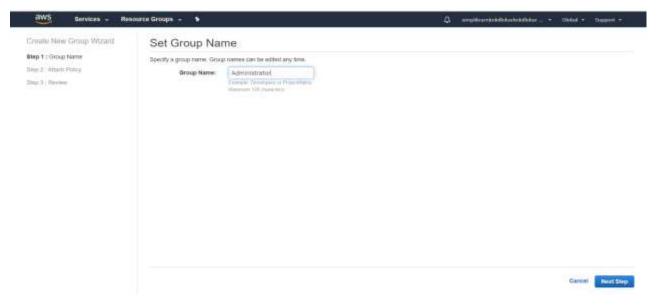


4. Create the IAM Administrator Group, and add the user to the Administrator Group.

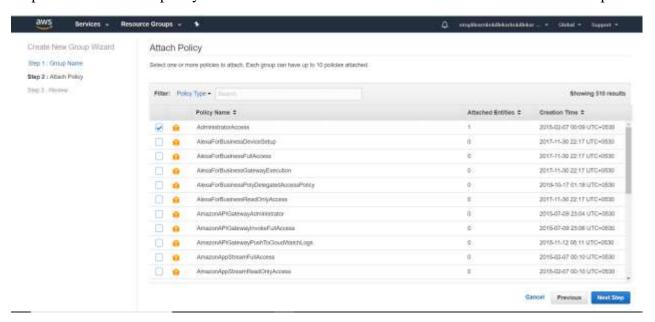
Step 1: Open AWS management console, click on Services. Go to Security, Identity, & Compliance and click on IAM. Then from left navigation pane select Groups option following window will appear as shown below.



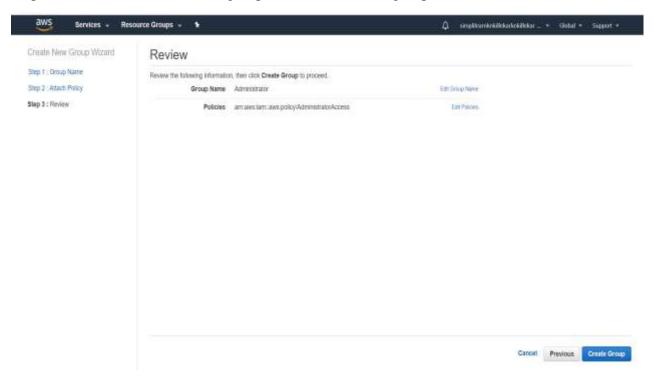
Step 2: Next click on create new group and set group name as "Administrator" as shown below and click on Next step.



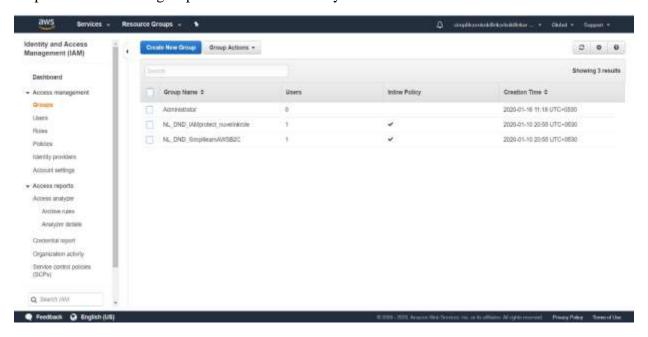
Step 3: Now attach the policy as AdministratorAccess as shown below and click on Next step.



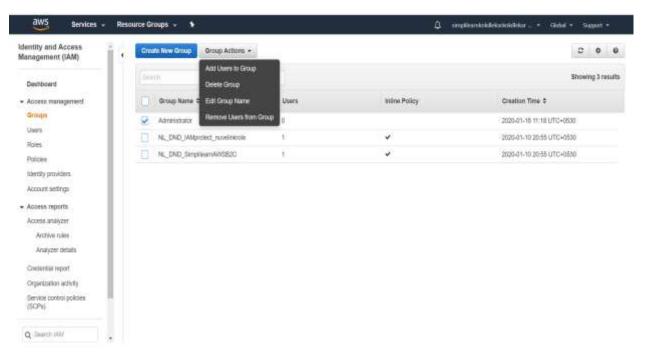
Step 4: Review the details of the group and click on create group.



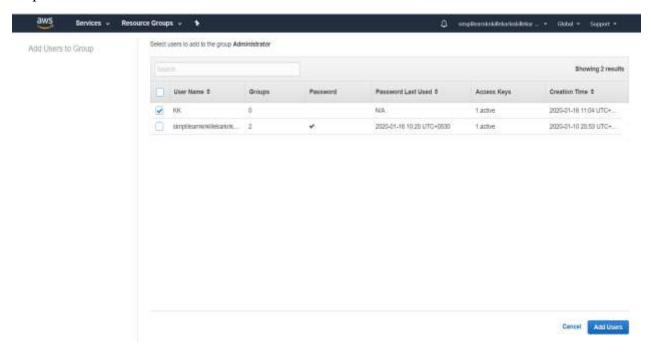
Step 5: Administrator group is created successfully as shown below.



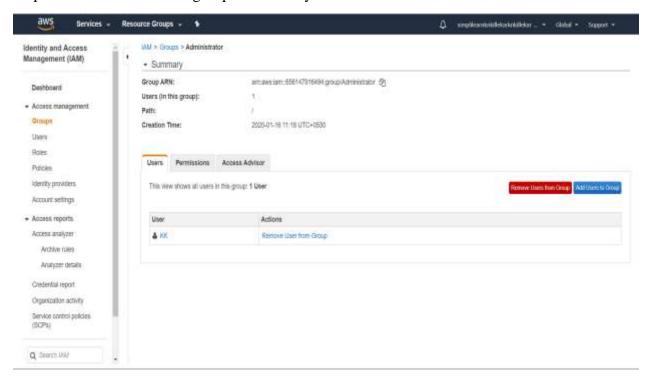
Step 6: To add users to group select the Administrator group as shown below. Then go to Group actions and select Add users to group option as shown below.



Step 7: Now select the user as "KK" as shown below and click on Add users.

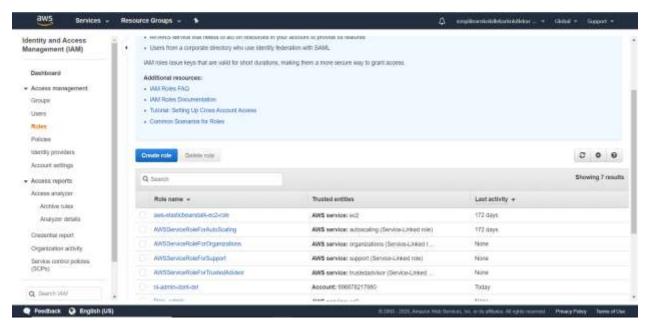


Step 8: User is added to the group successfully as shown below.

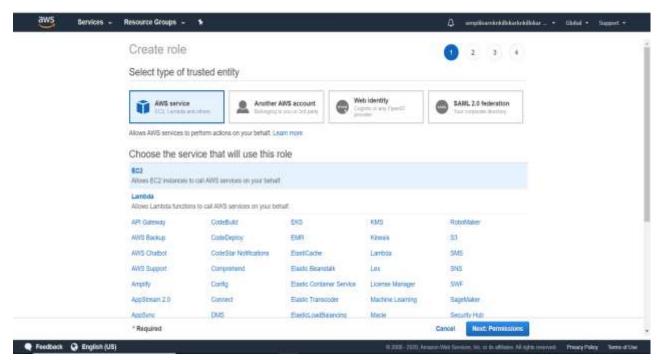


5. Create a Role.

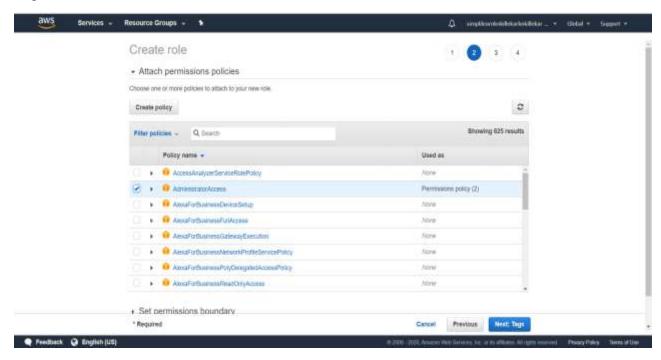
Step 1: Open AWS management console, click on Services. Go to Security, Identity, & Compliance and click on IAM. Then from left navigation pane select Roles option following window will appear as shown below.



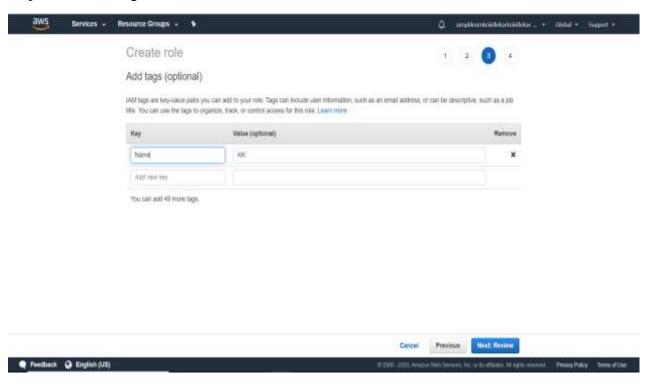
Step 2: Next click on create role and select the type of trusted entity as EC2 as shown below and click on Next: permissions.



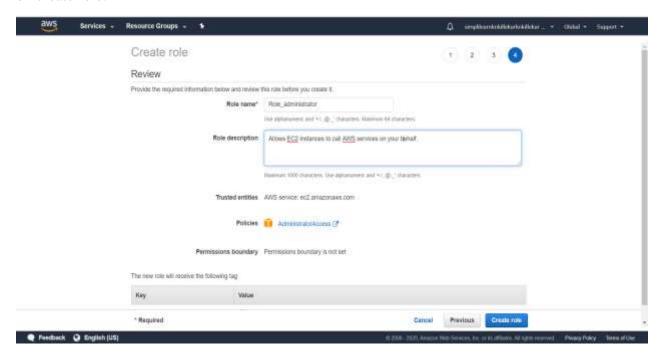
Step 3: Attach policy to the role as Administrator Access as shown below and click on Next: Tags.



Step 4: Now add tags to the role as shown below and click on Next: Review.



Step 5: In review section enter the role name as "Role_administrator" as shown below and click on create role.



Step 6: Role is created successfully as shown below.

