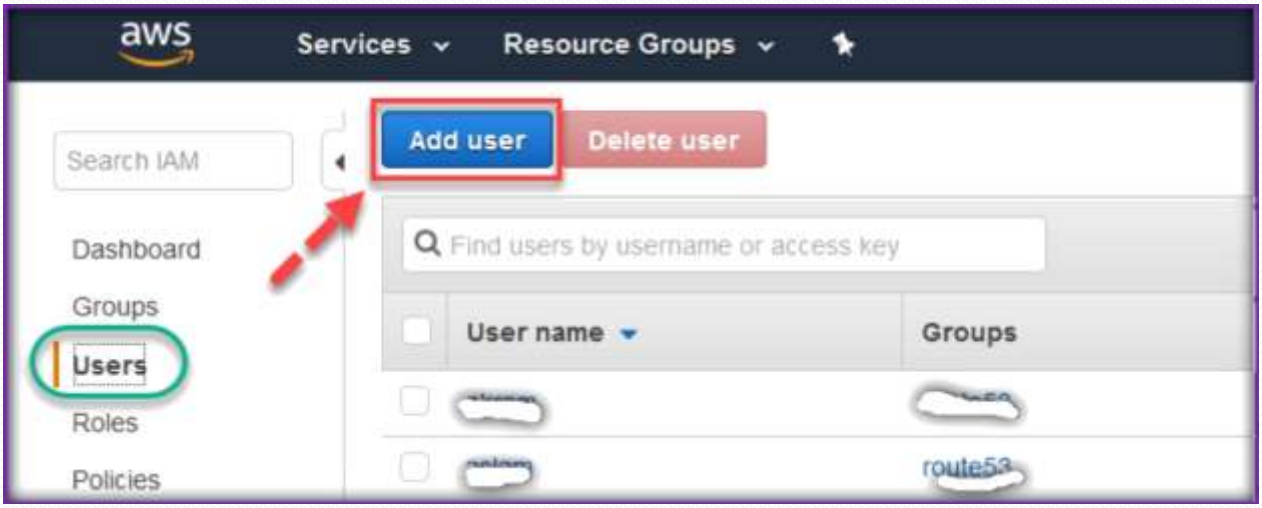
13. IDENTITY AND ACCESS MANAGEMENT

AWS Identity and Access Management (IAM) is a web service that helps you securely control access to AWS resources for your users. You use IAM to control who can use your AWS resources (*authentication*) and what resources they can use and in what ways (*authorization*).

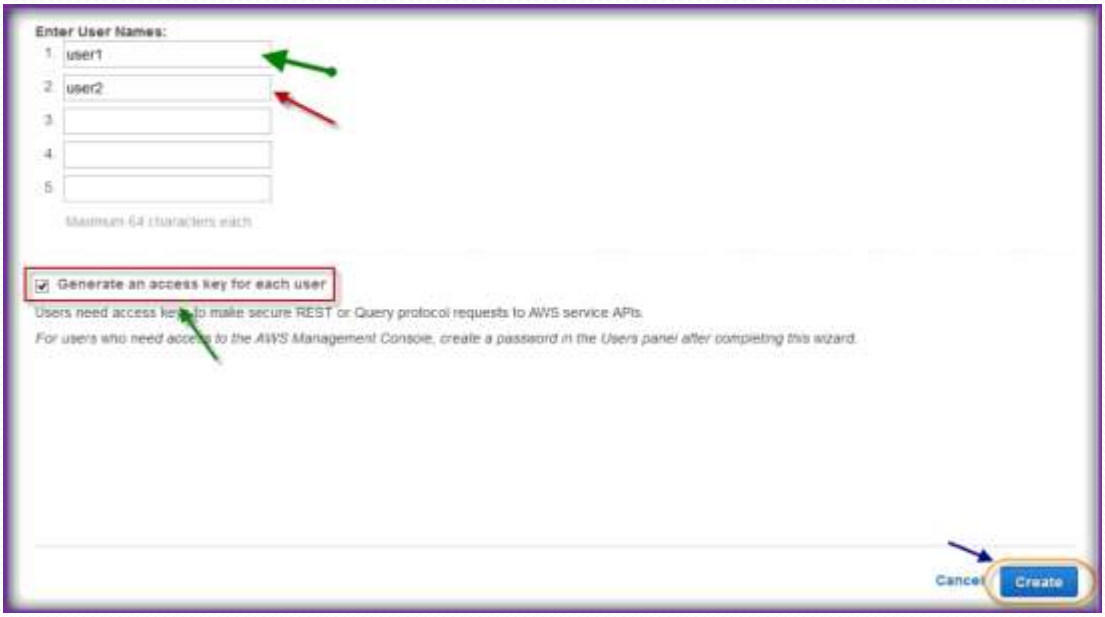
Choose Identity & Access management under Security & Identity from the AWS console page.

CREATING USERS:

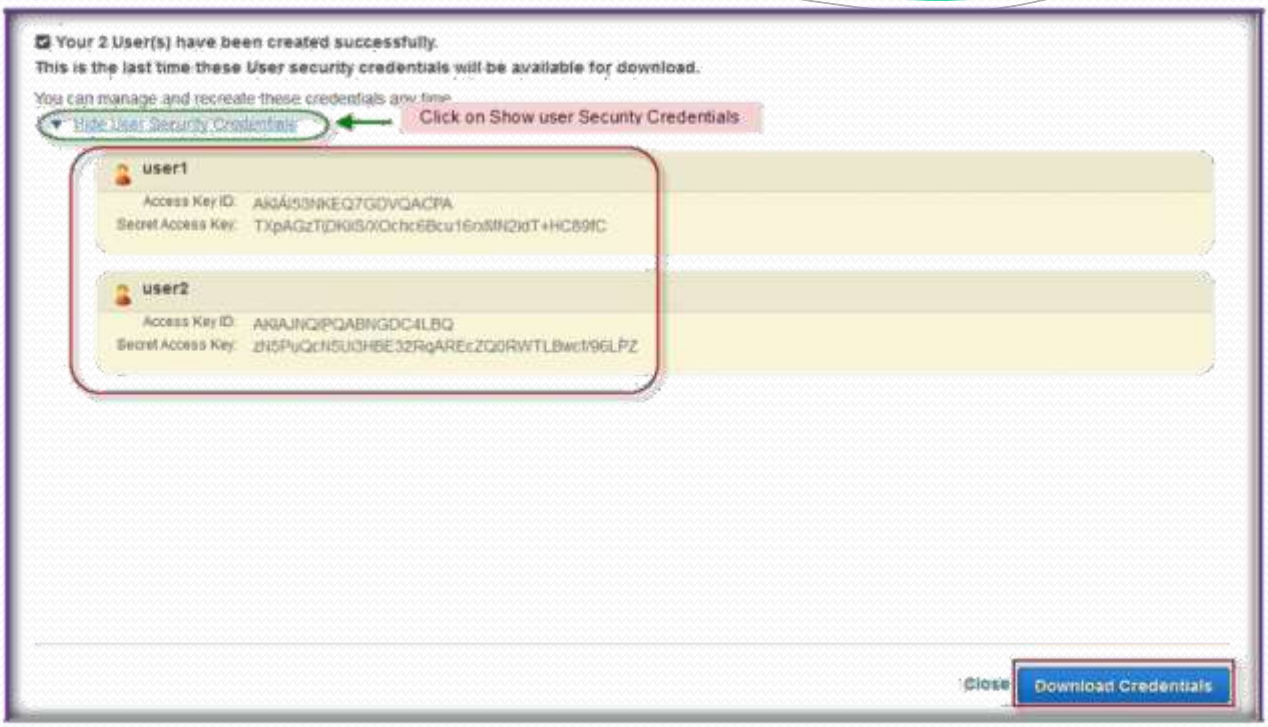
Once you are on IAM page, Click Users from left pane, then choose Add User to create a user.



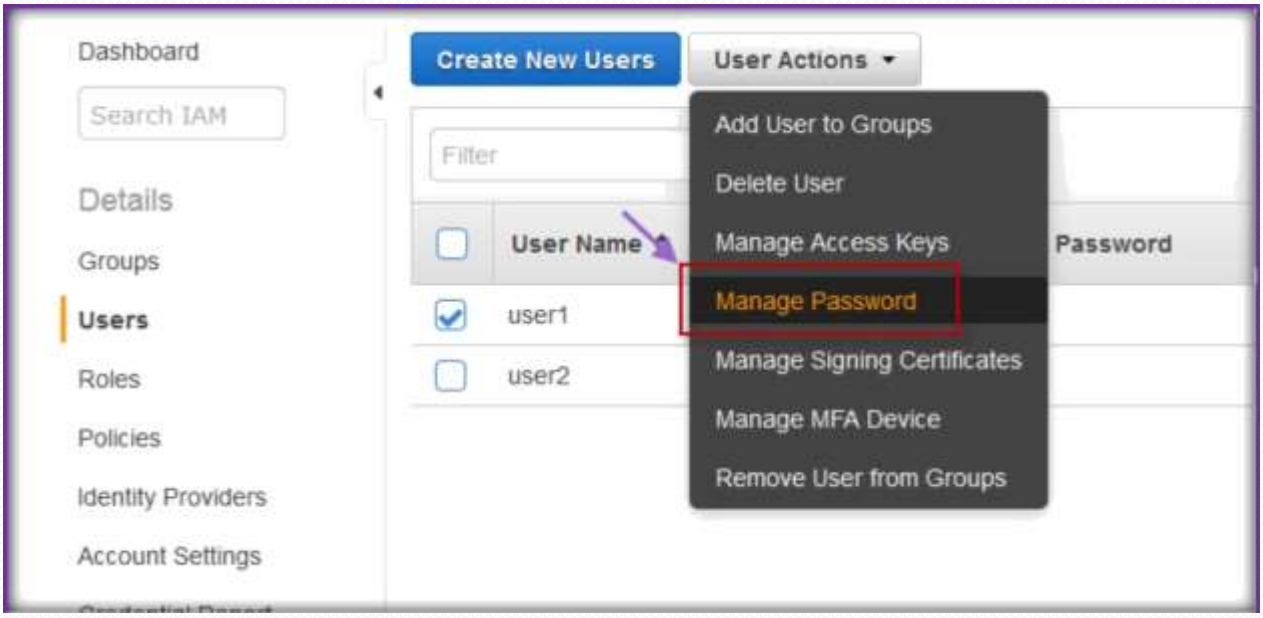
Specify user names in the text fields, if you do not want access keys for new users uncheck generate access keys, then choose Create.



On the next page, click on Show User Security Credentials to see access keys or choose Download Credentials to download them then click on close.



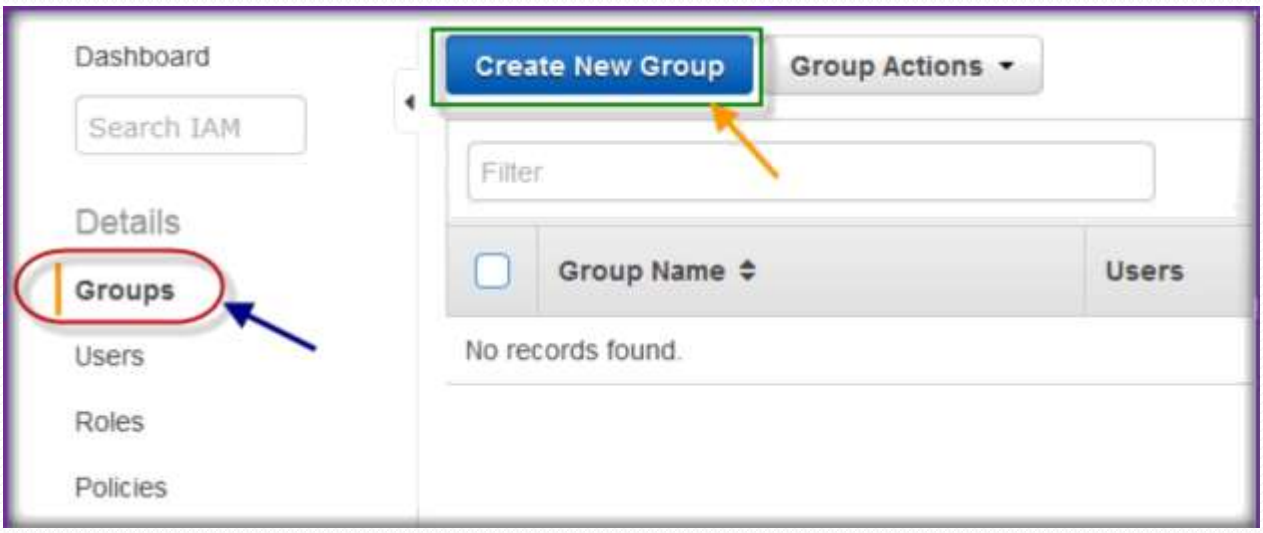
Under Users tab, select a user and click on User Actions, then select manage Password to create a new password.



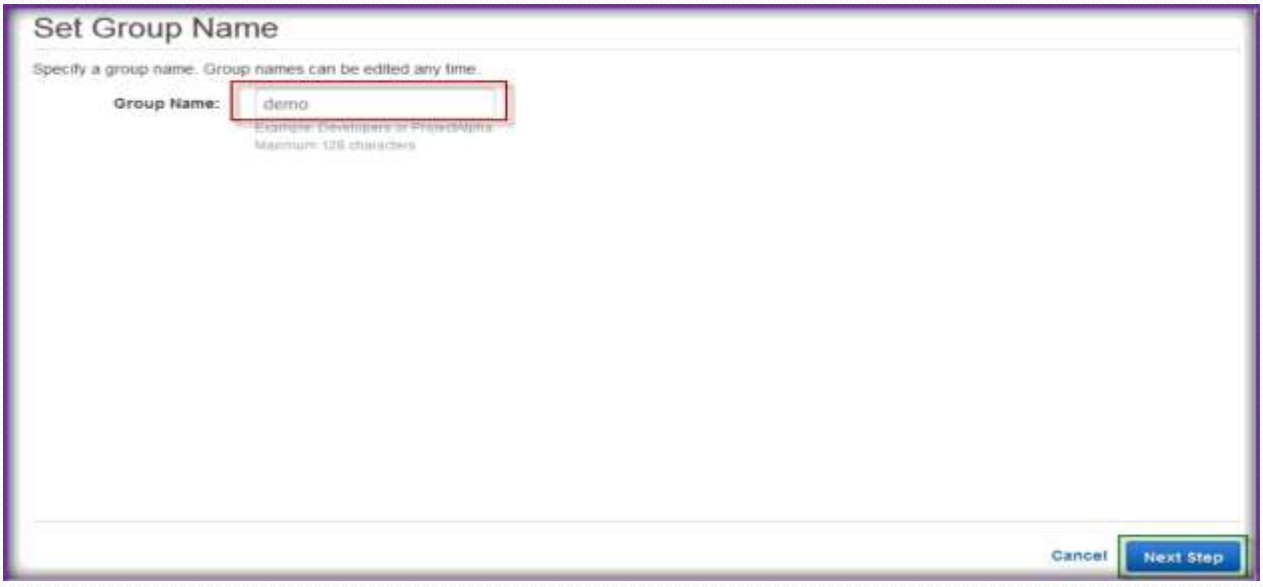
On the next page, choose either auto-generated or a custom password, then specify a password if you choose custom password.
Check box if you want user to create a new password at next sign-in, then choose Apply.

CREATING GROUPS:

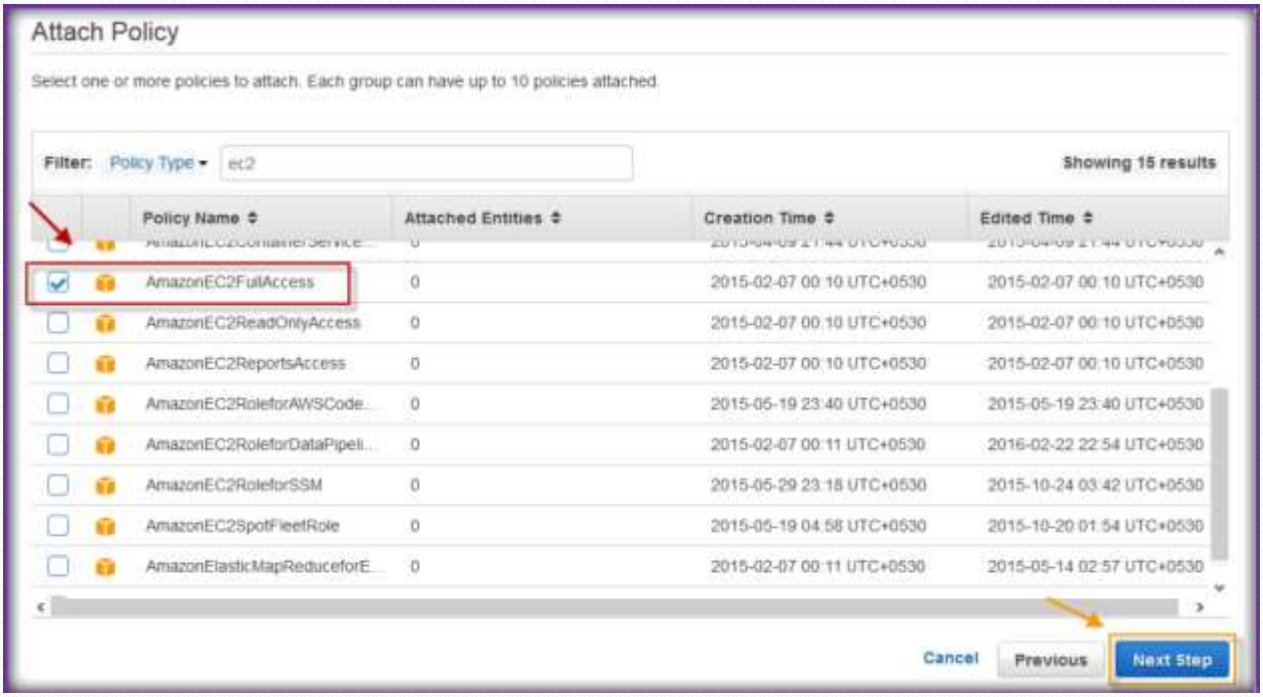
Choose Groups from the left pane, then choose Create New Group to create a new one.



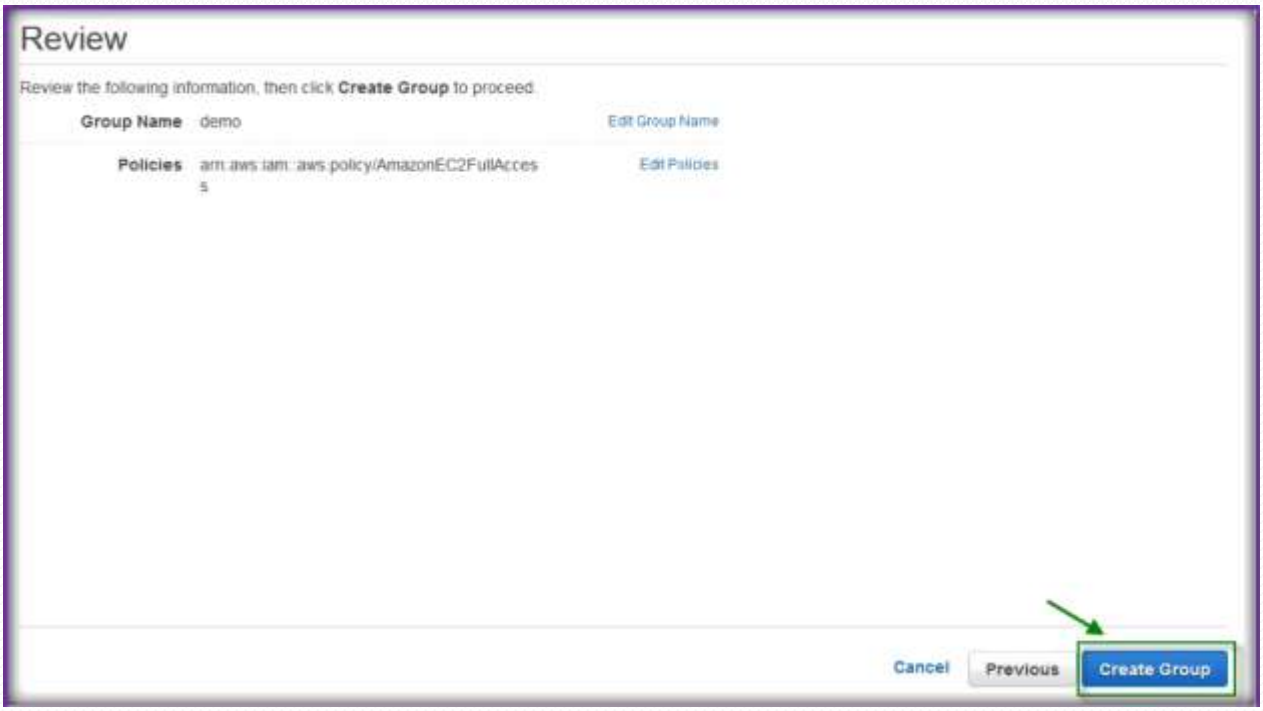
On next page, specify a new group name, choose next step.



On the next page, search a service name of AWS in the policy type text field, choose one or more policies for group, then choose Next Step.

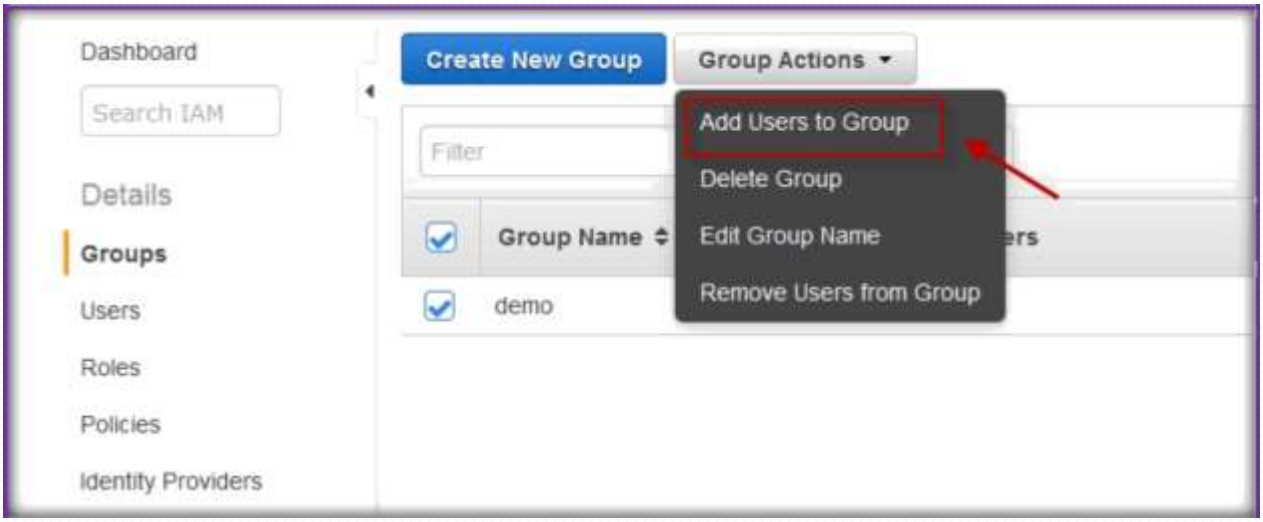


On the review page, choose Create Group.

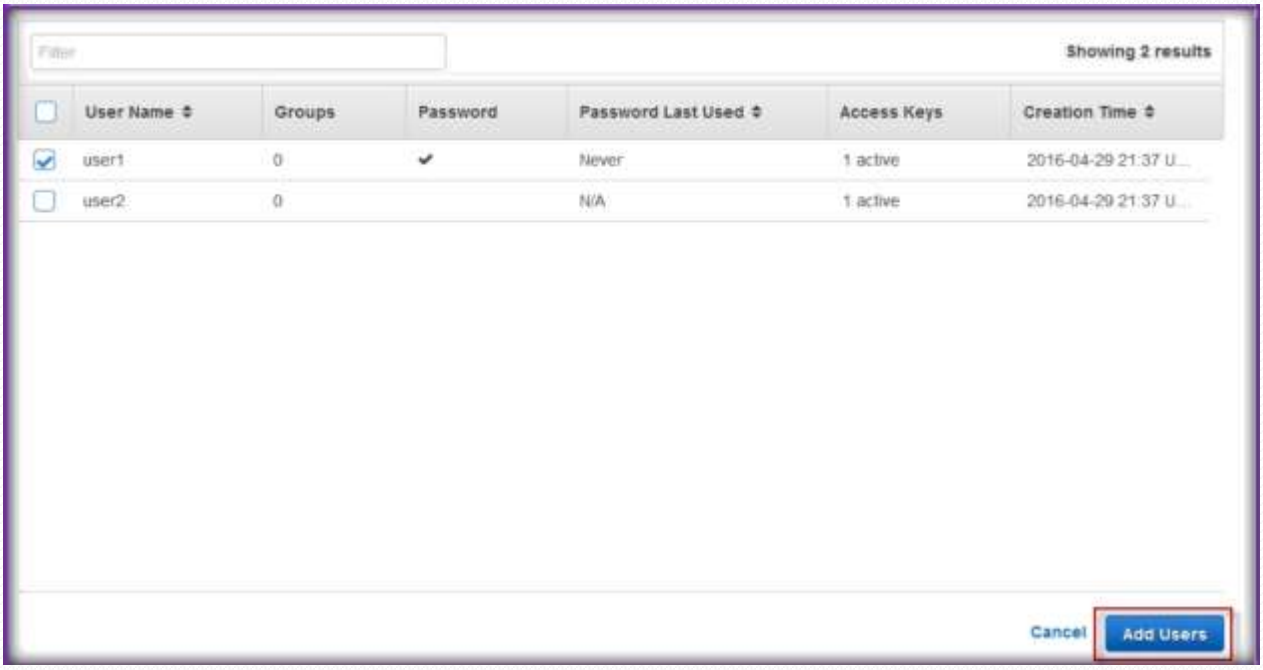


ADDING USERS TO GROUP:

select Groups from left pane, then select the group then click Group Actions. Under group actions choose Add users to Group.



Select users from the available users list then choose Add Users.

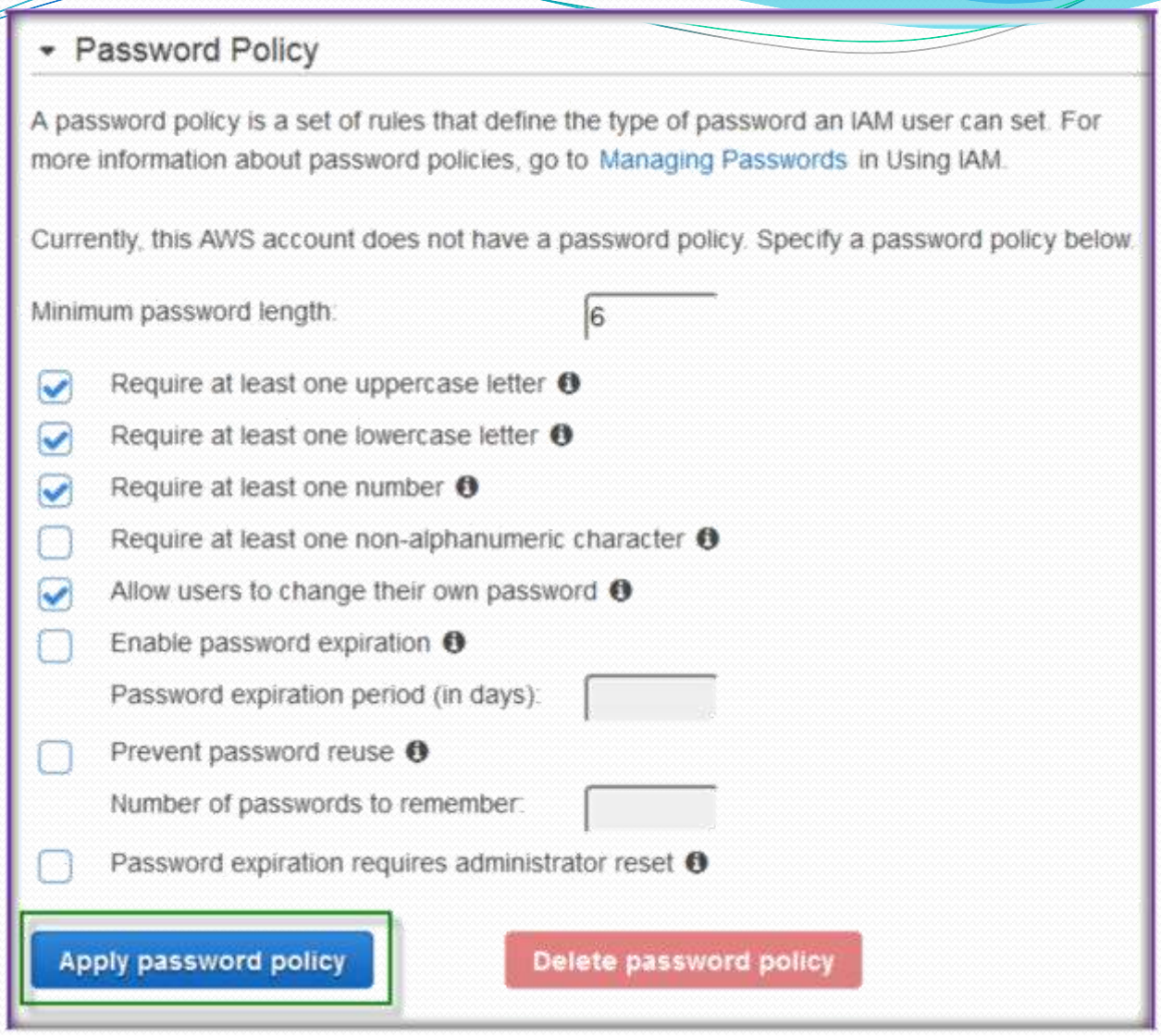


Now selected users will be added to your group.

MANAGE PASSWORD POLICY:

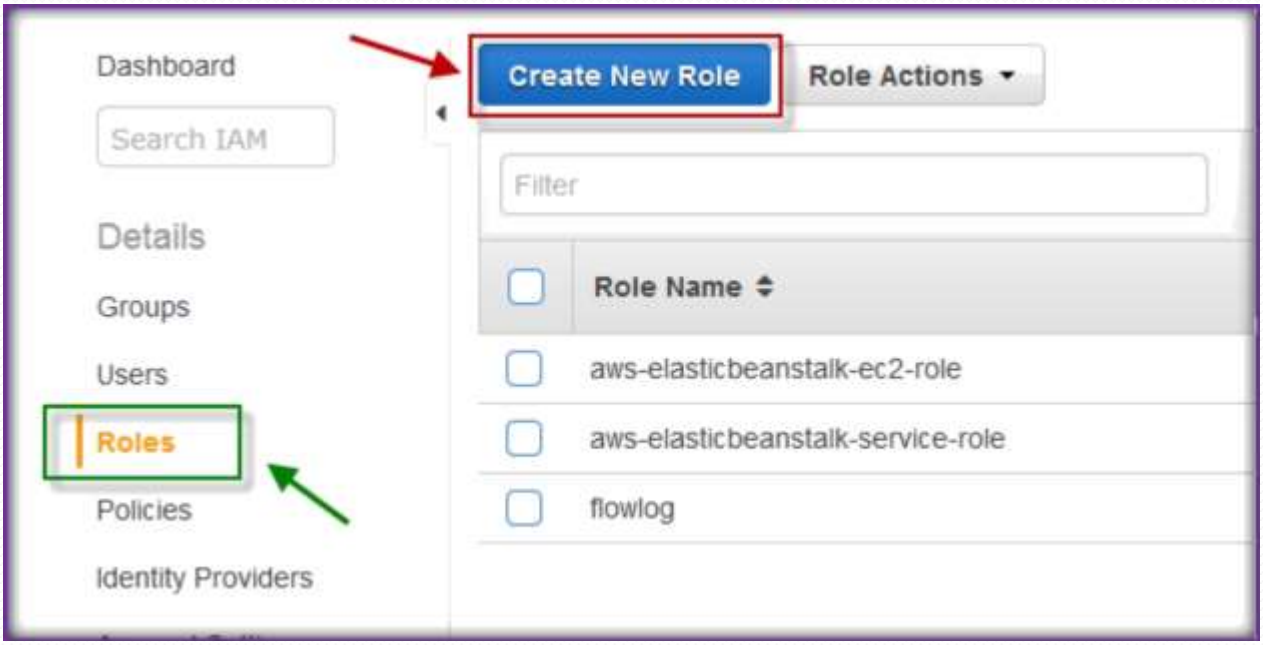
Under IAM dashboard, expand Apply an IAM password policy, then choose Manage Password Policy.

Select options which you want then Apply Password policy.

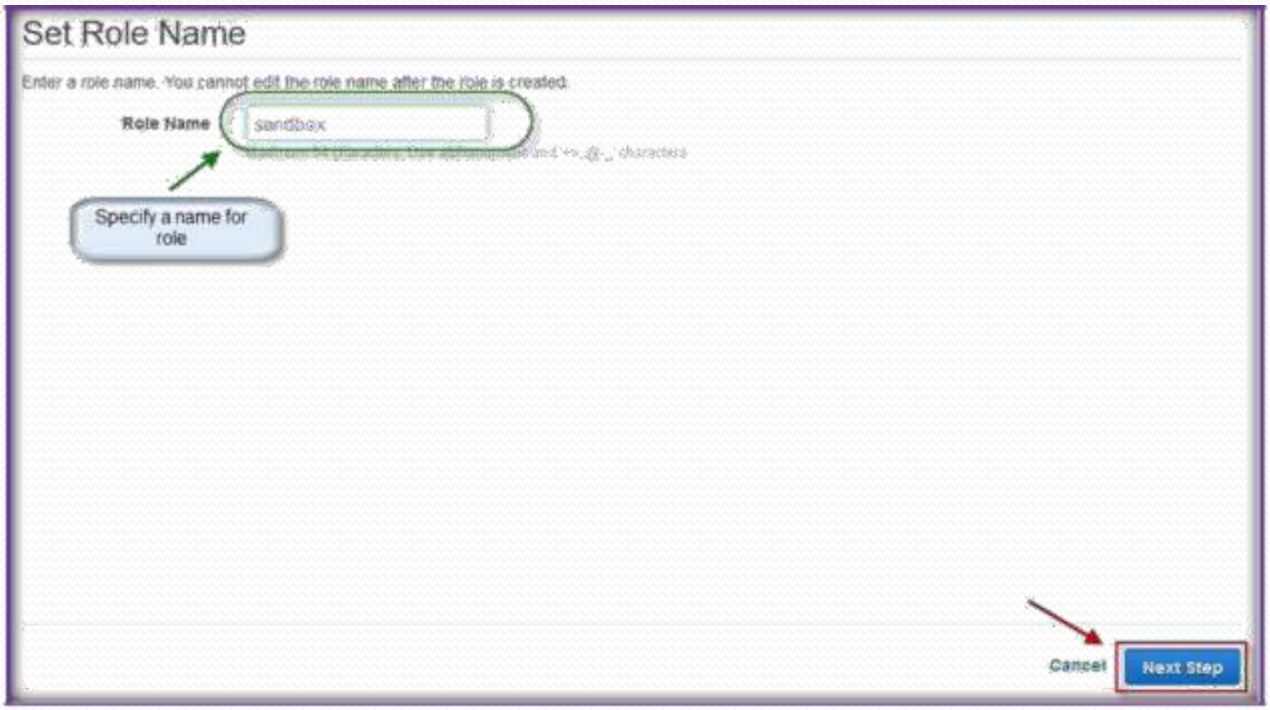

Password Policy
A password policy is a set of rules that define the type of password an IAM user can set. For more information about password policies, go to Managing Passwords in Using IAM.
Currently, this AWS account does not have a password policy. Specify a password policy below.
Minimum password length:
6
Require at least one uppercase letter
Require at least one lowercase letter
Require at least one number
Require at least one non-alphanumeric character
Allow users to change their own password
Enable password expiration
Password expiration period (in days):
Prevent password reuse
Number of passwords to remember:
Password expiration requires administrator reset
Apply password policy
Delete password policy

ROLES: An IAM *role* is similar to a user, in that it is an AWS identity with permission policies that determine what the identity can and cannot do in AWS. However, instead of being uniquely associated with one person, a role is intended to be assumable by anyone who needs it.
Also, a role does not have any credentials (password or access keys) associated with it.
Instead, if a user is assigned to a role, access keys are created dynamically and provided to the user.

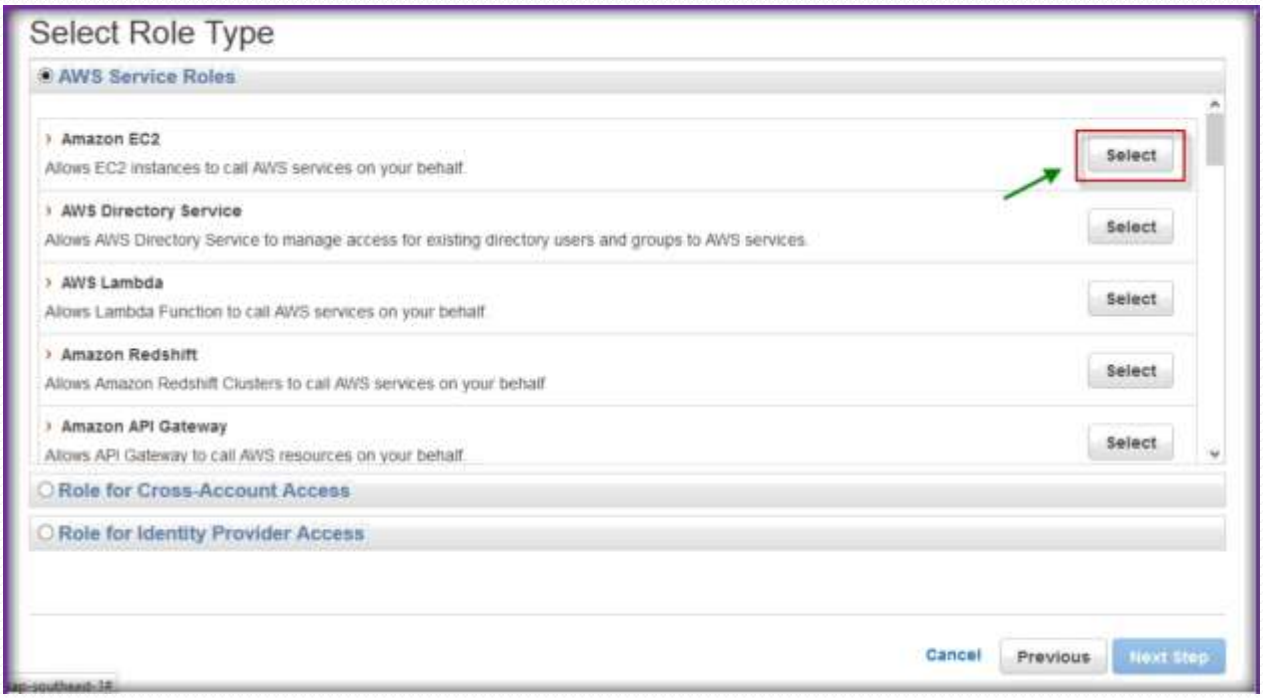
Once you are IAM dashboard, choose Roles from the left pane, then click on Create New Role.



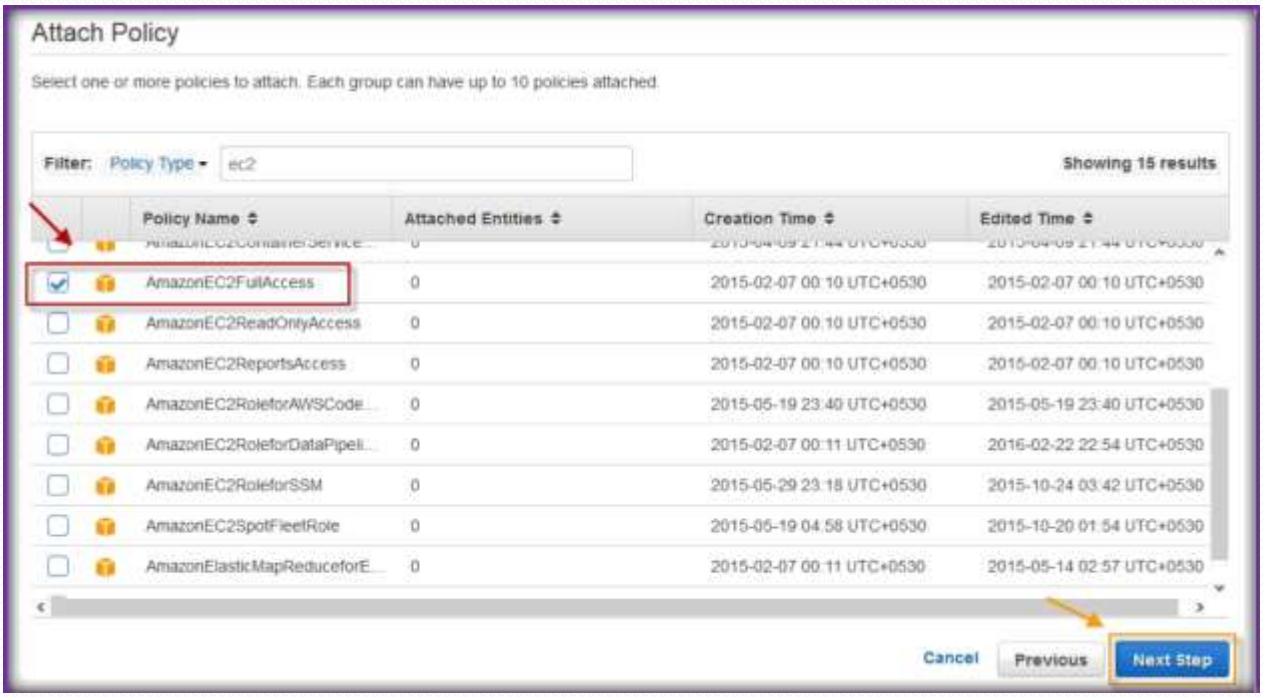
In the next page, specify a name for role and choose Next Step.



On next page, select role type, choose select button to respective AWS service.



On the next page, search a service name of AWS in the policy type text field, choose one or more policies for group, then choose Next Step.



On the review page, choose Create Role.