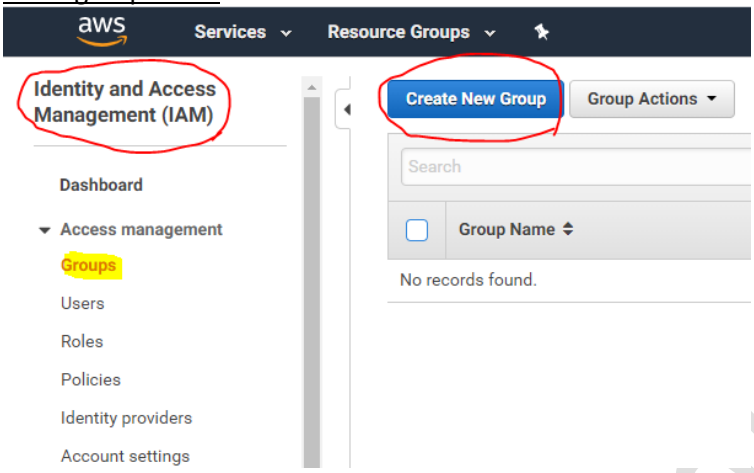
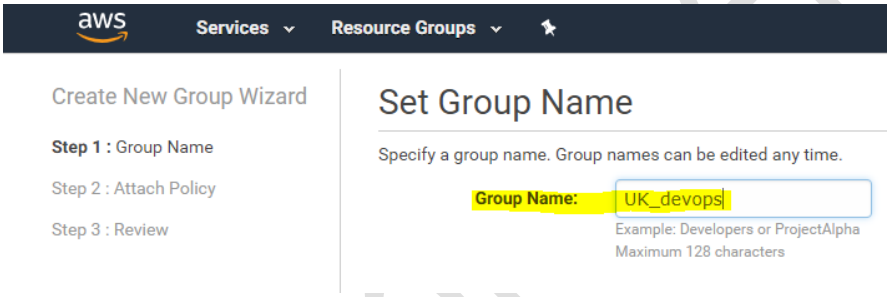
Identity and Access Management (IAM)

https://docs.aws.amazon.com/IAM/latest/UserGuide/intro-structure.html

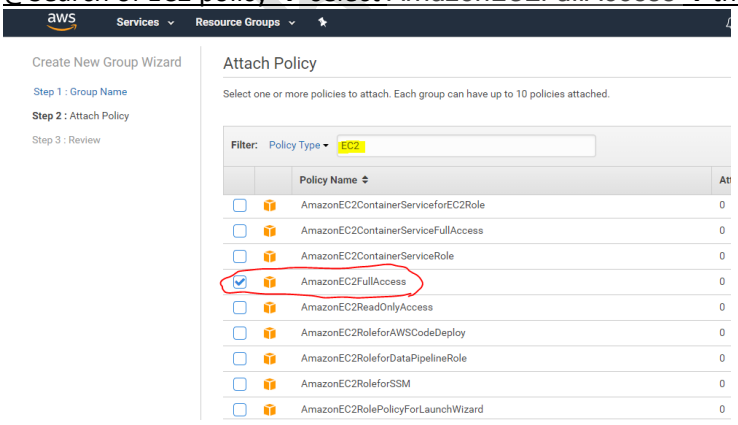
Step1:- Create a group and attach policy for EC2 full access.

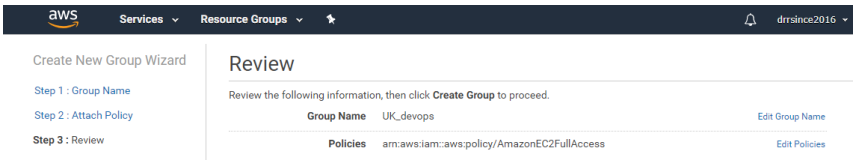
@Click Services → IAM → Expand **Access management** → select Groups → Create New Group→ enter group name





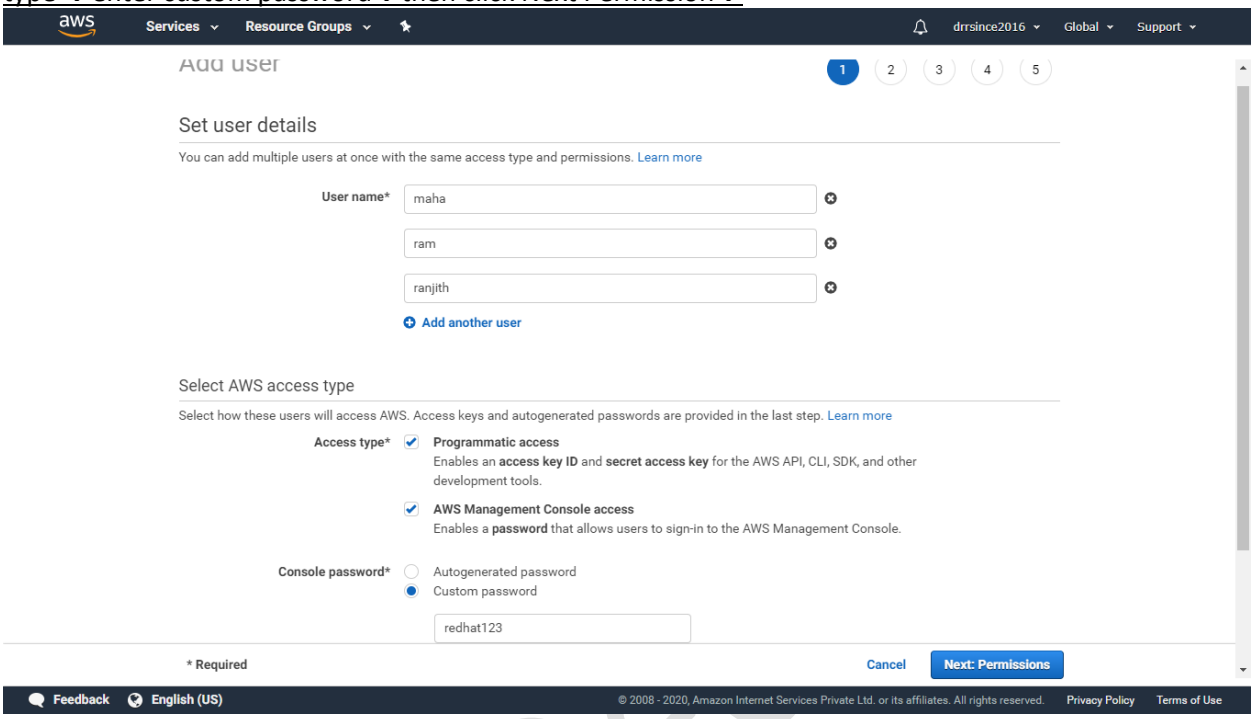
@Search of EC2 policy → select AmazonEC2FullAccess →then click Create Group.



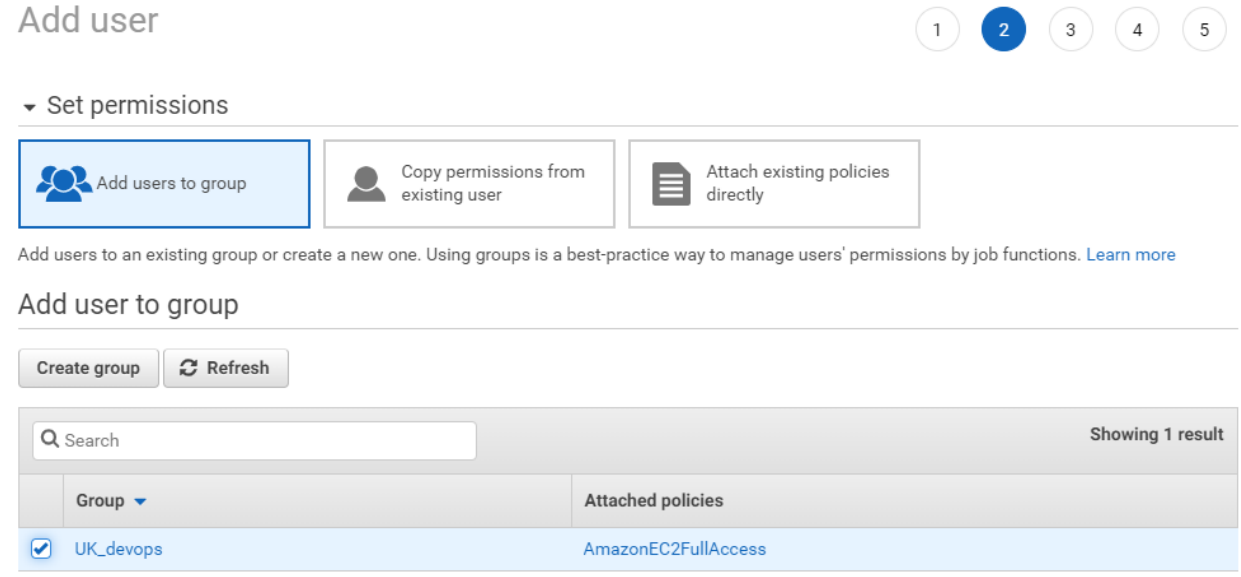


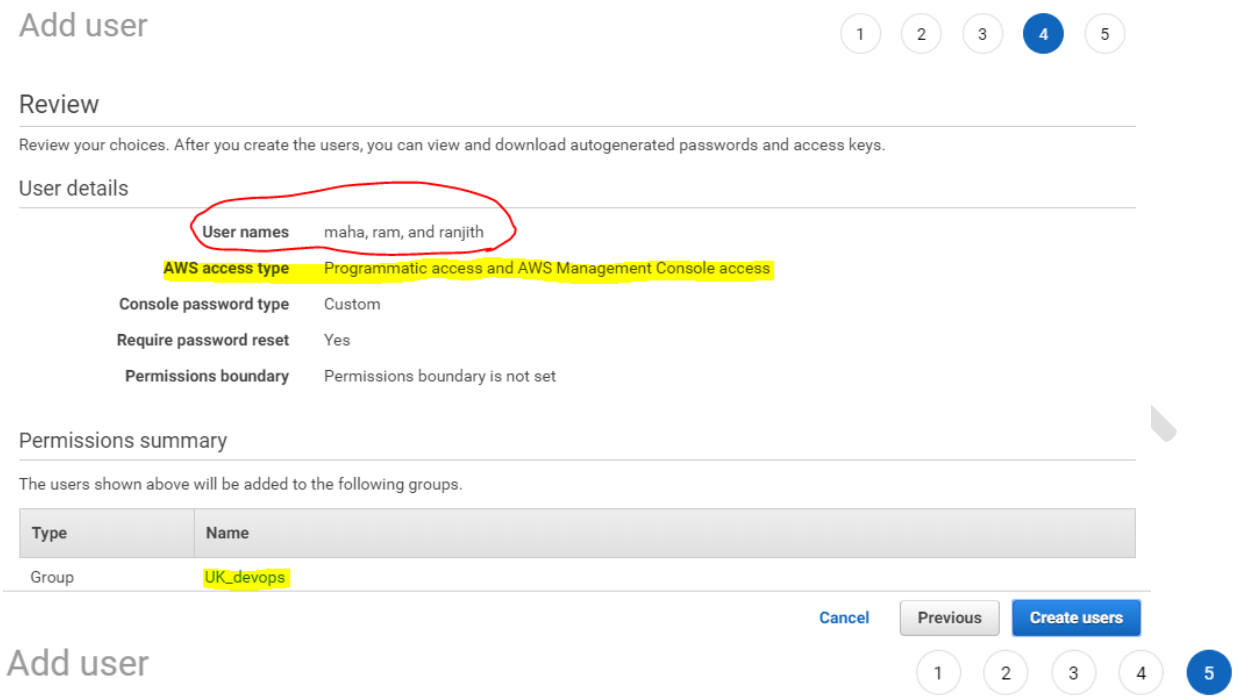
Step2:- Create users and added the same to newly created groups (UK_Devops)

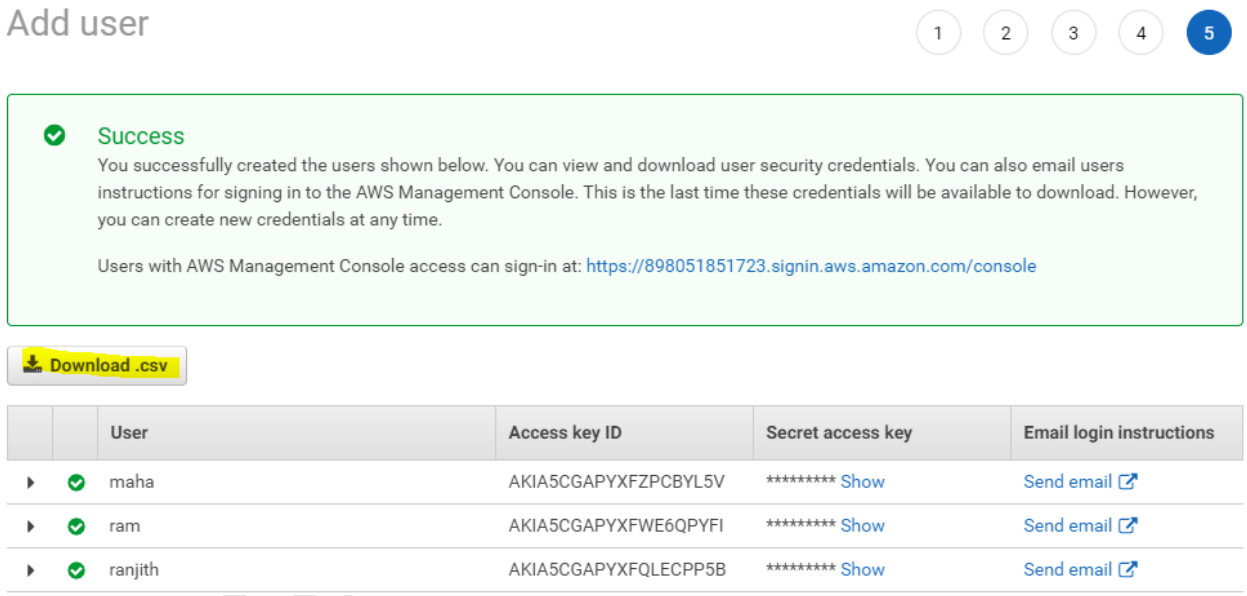
@Click Users → Add user→ then enter usernames (either one user or multiple users) → select access type →enter custom password→then click Next Permission→



@Select → UK_devops → click Next:Tags → Next:Review→Create users →





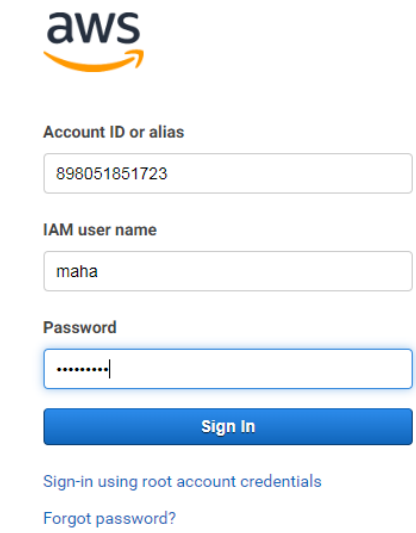


Note:- Users are created and added into group successfully, now download the .csv and save it safely for login purpose and use below console login link to access.

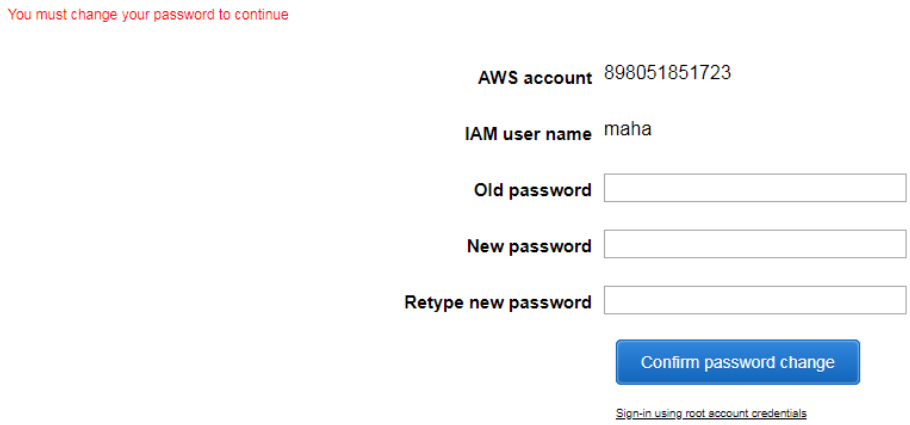
User name	Password	Access key ID	Secret access key	Console login link
maha		AKIA5CGAPYXFZPCBYL5V	8lTwRVp6zM3l+5LGKdCqFAUzJD9Huh+X9/2IvVoX	https://898051851723.signin.aws.amazon.com/console
ram		AKIA5CGAPYXFWE6QPYFI	HzPCbwa/D+EV9bqxCafYy2dXPErn8ZkxYsdeofMI	https://898051851723.signin.aws.amazon.com/console
ranjith		AKIA5CGAPYXFQLECPP5B	DH6c6zde7QJDeTguStVgqY2fDX/p7kM+6GIR36+J	https://898051851723.signin.aws.amazon.com/console

Step2.1:- now try to login with newly created user by using console link.

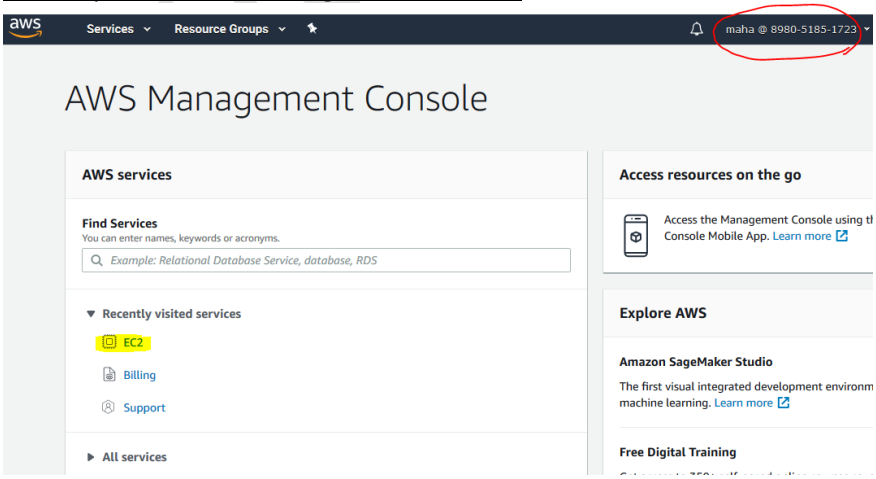
https://898051851723.signin.aws.amazon.com/console

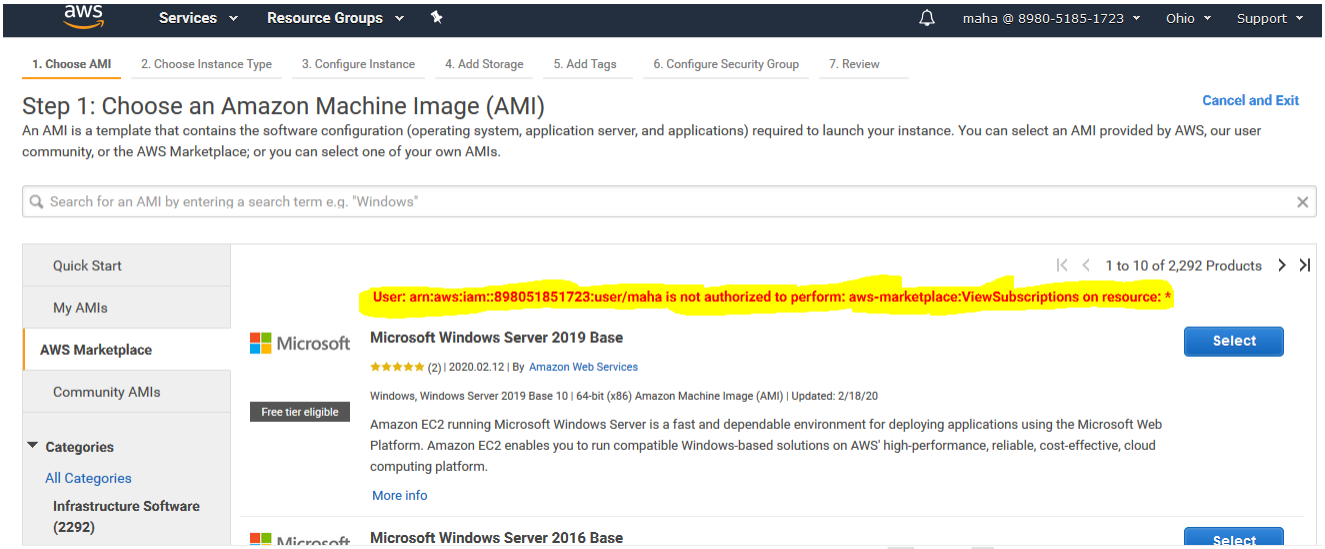


@Change the password at first login.



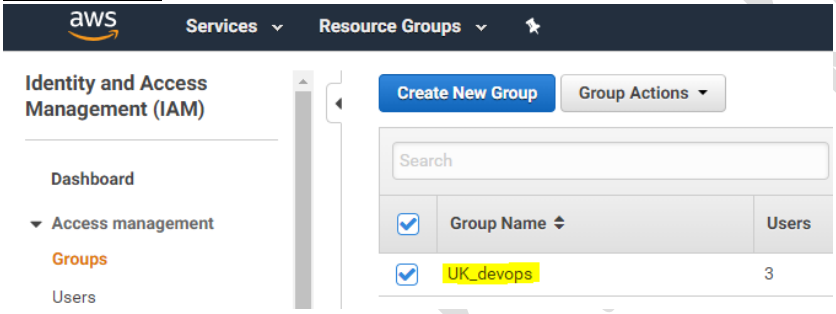
@Now you see AWS Management Console.

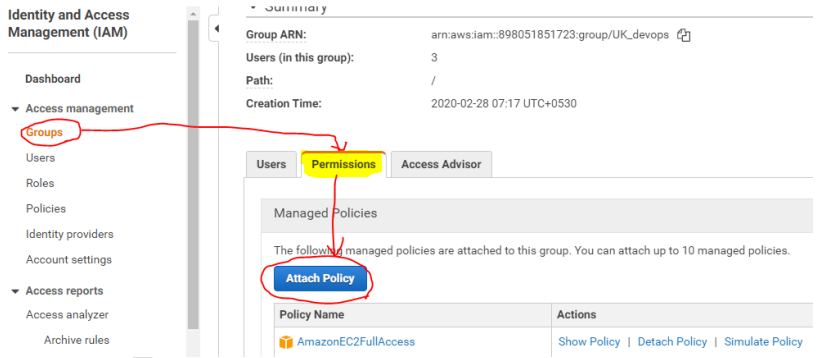


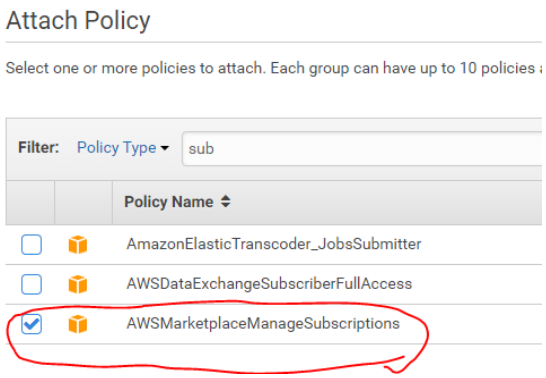


Note:- User is not able to create instance, lets try to give access and try the same again.

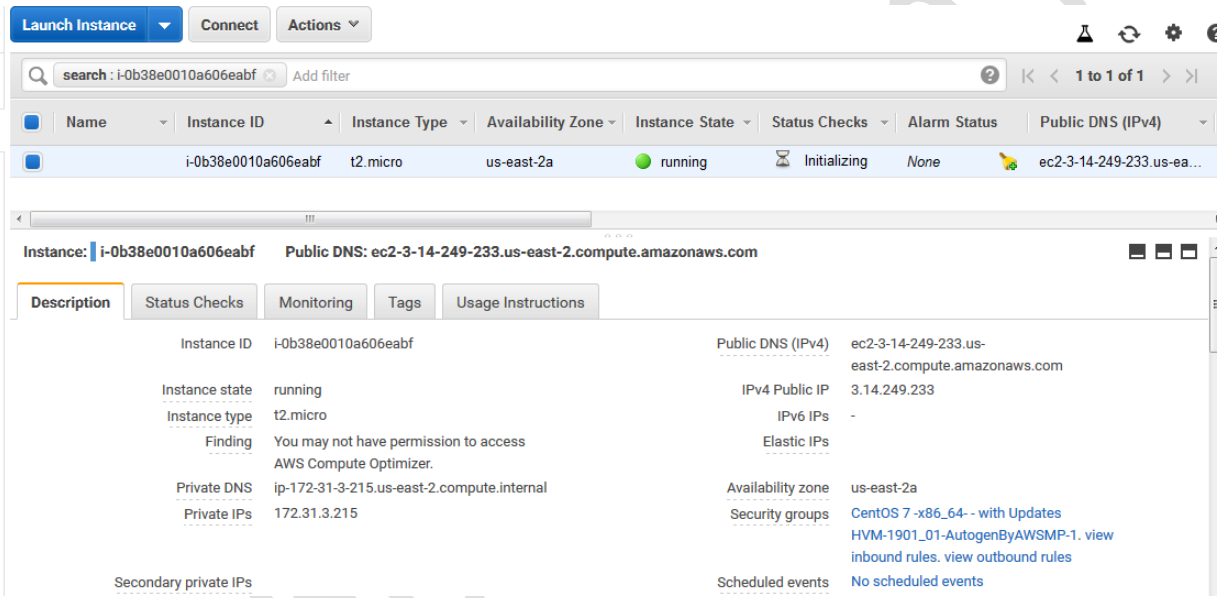
Step 3:- Go to groups and attach the policy (AWSMarketplaceManageSubscription) for user to create EC2 instance.



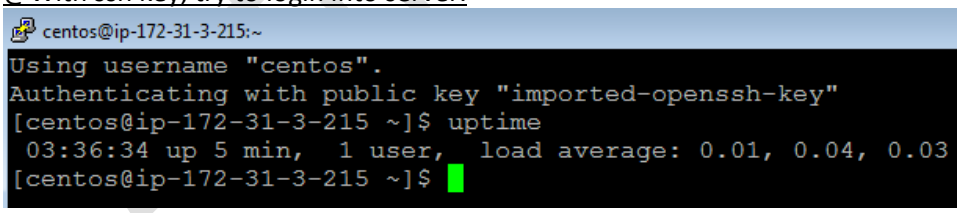




Step 3.1:- Launch the EC2 instance with help of (AWS_Launch-EC2instance.pdf)

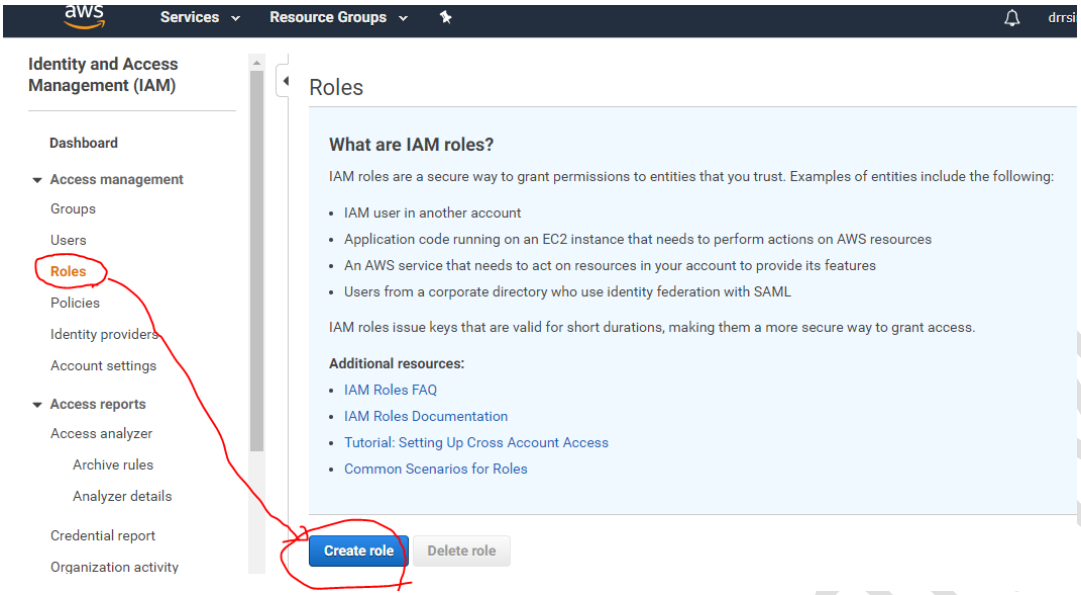


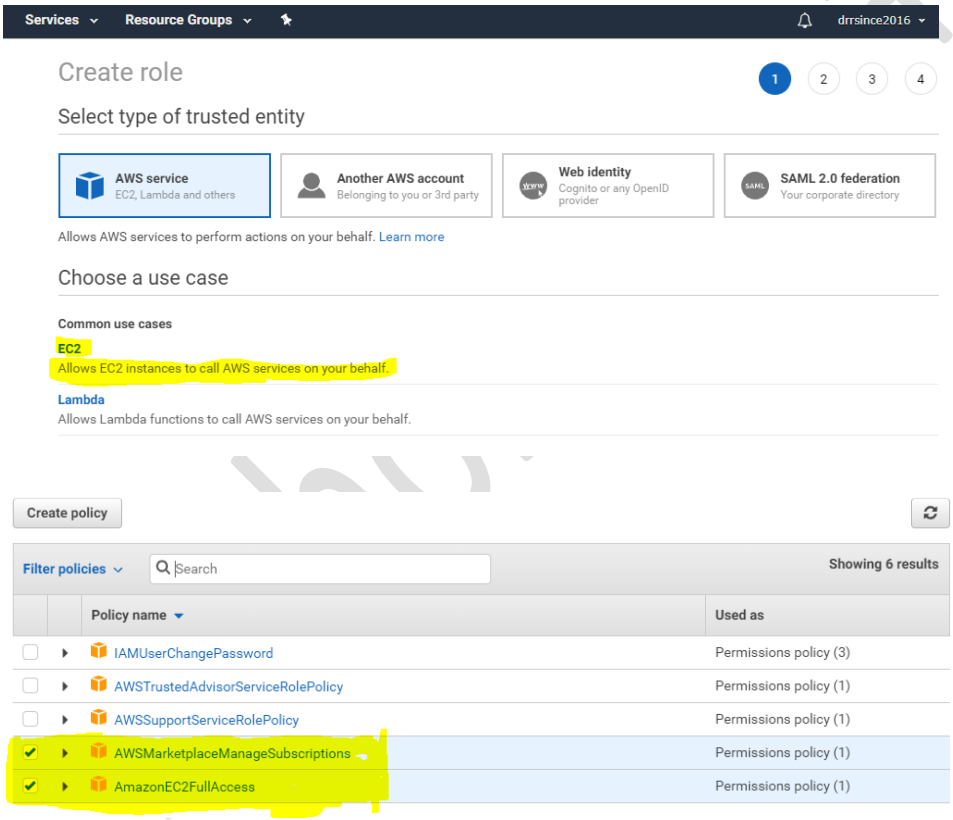
@With ssh key, try to login into server.



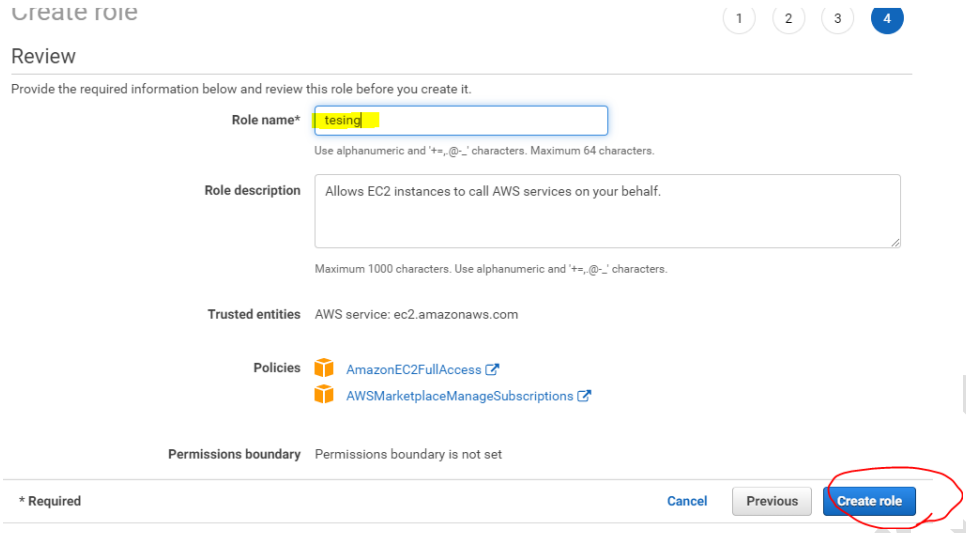
Note:-after attached the policy, now normal user can able to create/delete EC2 instances. The best way to attach the exact the policy. Kindly read out the error message whats popping up from user end while creating ec2 instance.

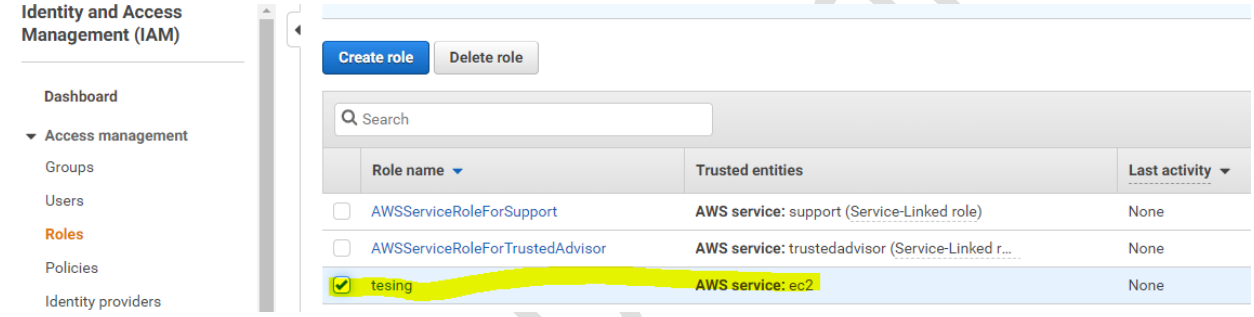
Step4:- How to create role and use role for access.
https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles.html
Click on Roles → Create role →select AWS service (EC2) →attach below policies →enter role name →click create role.


aws
Services
Resource Groups
drrsi
Identity and Access Management (IAM)
Dashboard
Access management
Groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzer details
Credential report
Organization activity
Roles
What are IAM roles?
IAM roles are a secure way to grant permissions to entities that you trust. Examples of entities include the following:
IAM user in another account
Application code running on an EC2 instance that needs to perform actions on AWS resources
An AWS service that needs to act on resources in your account to provide its features
Users from a corporate directory who use identity federation with SAML
IAM roles issue keys that are valid for short durations, making them a more secure way to grant access.
Additional resources:
IAM Roles FAQ
IAM Roles Documentation
Tutorial: Setting Up Cross Account Access
Common Scenarios for Roles
Create role
Delete role


Services
Resource Groups
drrsince2016
Create role
1
2
3
4
Select type of trusted entity
AWS service
EC2, Lambda and others
Another AWS account
Belonging to you or 3rd party
Web identity
Cognito or any OpenID provider
SAML 2.0 federation
Your corporate directory
Allows AWS services to perform actions on your behalf. Learn more
Choose a use case
Common use cases
EC2
Allows EC2 instances to call AWS services on your behalf.
Lambda
Allows Lambda functions to call AWS services on your behalf.

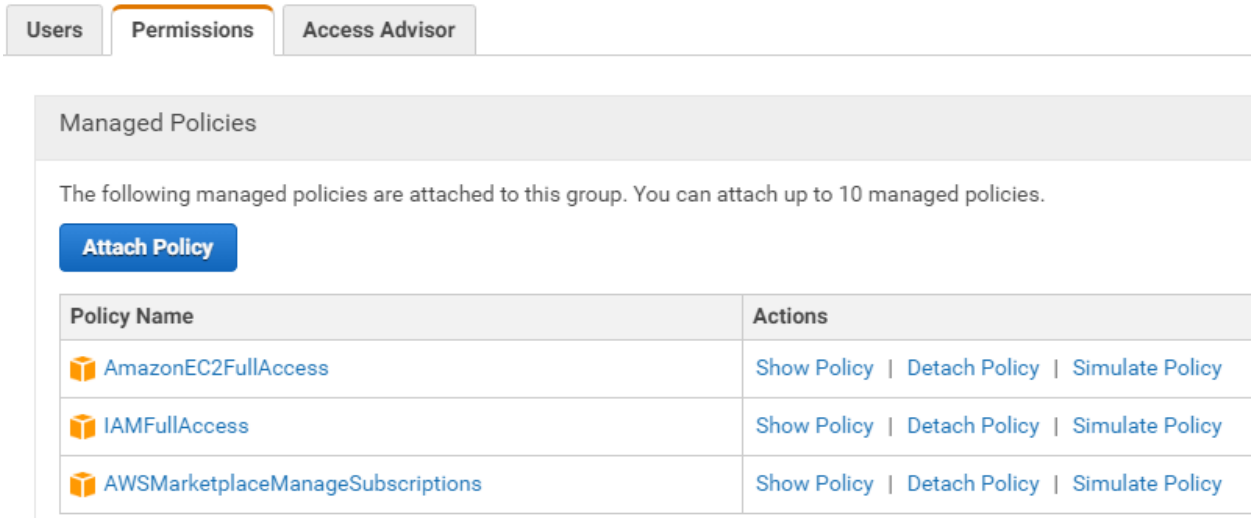
Create policy
Filter policies
Search
Showing 6 results
Policy name
Used as
IAMUserChangePassword
Permissions policy (3)
AWSTrustedAdvisorServiceRolePolicy
Permissions policy (1)
AWSSupportServiceRolePolicy
Permissions policy (1)
AWSMarketplaceManageSubscriptions
Permissions policy (1)
AmazonEC2FullAccess
Permissions policy (1)





Note:- Now role has been created.

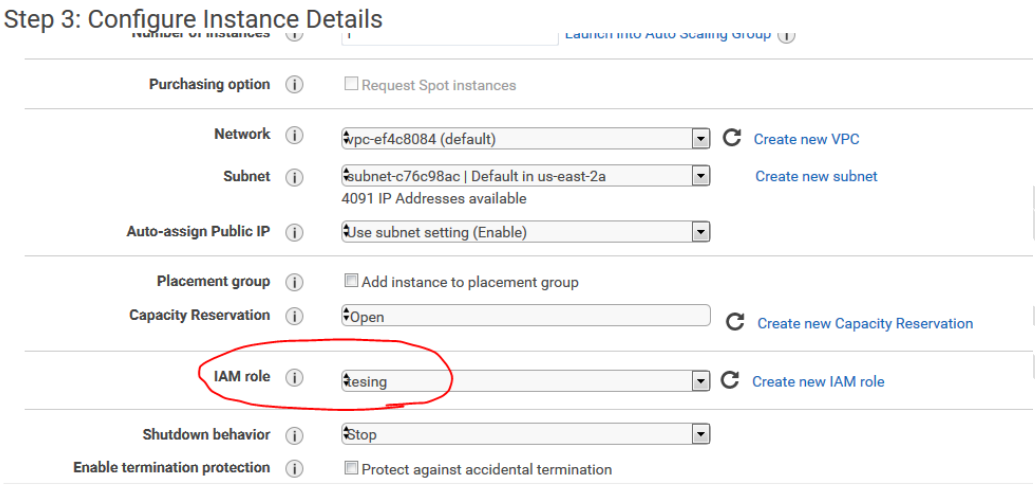
Step5:-select the existing group and attach the policy (IAM full access)



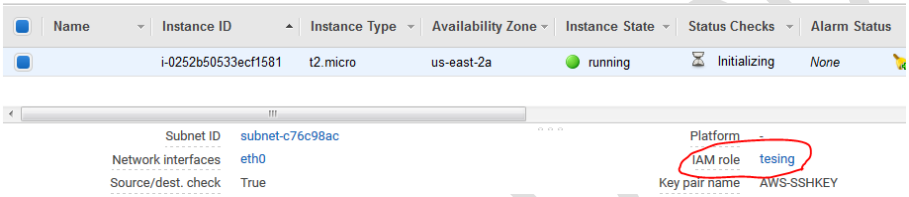
Note:- After attaching the policy, normal user from the group can able to select IAM role.

Step5.1:- from normal user try to launch the EC2 instance with help of (AWS_Launch-EC2instance.pdf)

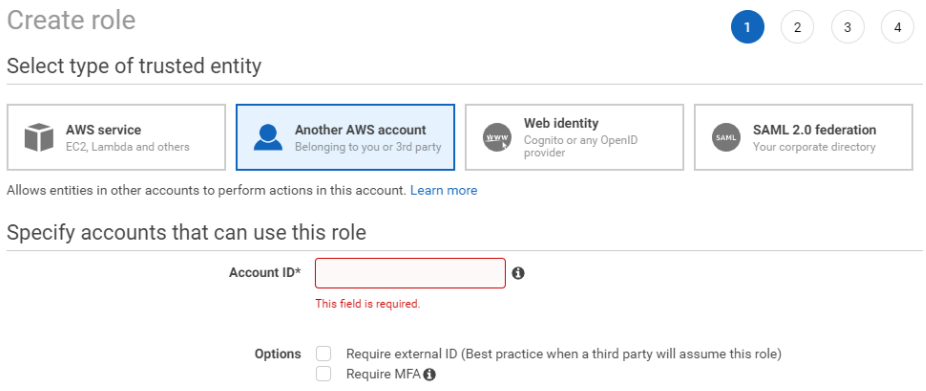
@While creating instance → you can select IAM role



@you can see the IAM role on instances details.



@@We can allow another AWS account with role to use specific services.



Note:- The maximum session duration setting applies only to sessions created using the AssumeRole* API operations or assume-role* CLI commands. The setting does not limit sessions assumed by AWS services.