# **LAB-6 Identity and Access Management**

There are 4 components in IAM

**Users** 

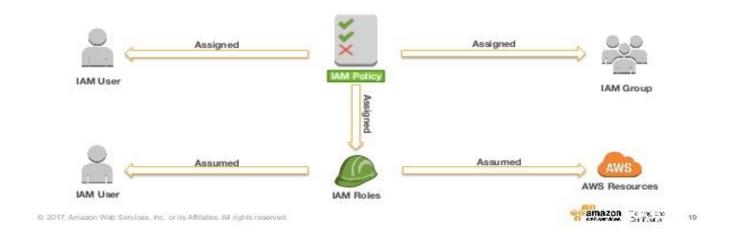
Group

Roles

**Policies** 

# **AWS IAM Policy Assignment**

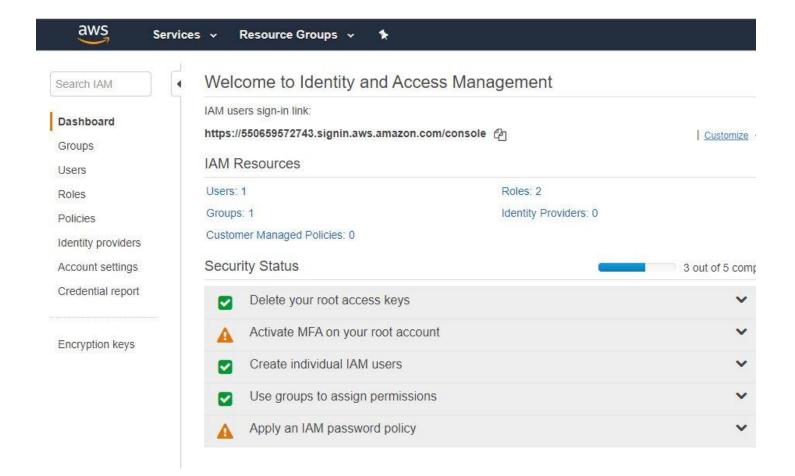




Step 1: Open IAM in services tab



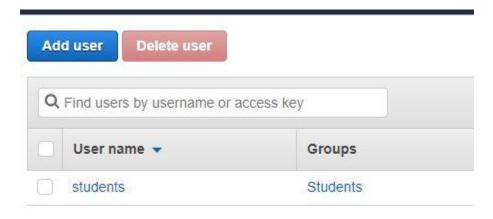




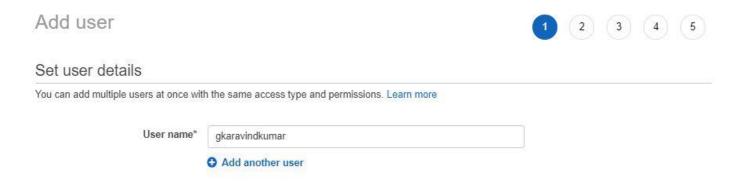
You can see the dashboard of IAM and you will see the URL link for IAM users

Step 2 create a user with group attach the policies to group.

## Click Add user button



### **Enter Username**



Select the Access type and password details

#### Select AWS access type

\* Required

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. Learn more

Access type\*

Programmatic access
Enables an access key ID and secret access key for the AWS API, CLI, SDK, and other development tools.

AWS Management Console access
Enables a password that allows users to sign-in to the AWS Management Console.

Console password\*

Autogenerated password

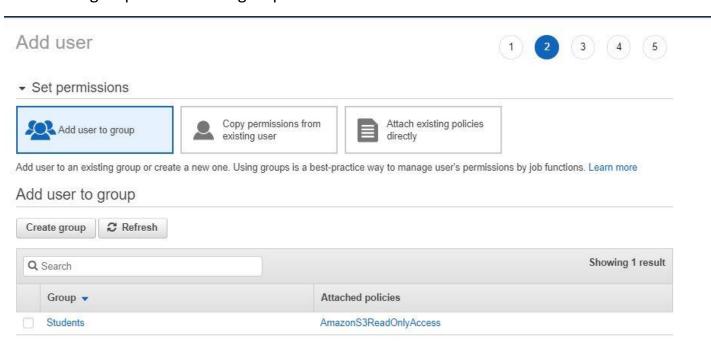
Custom password

User must create a new password at next sign-in
Users automatically get the IAMUserChangePassword policy to allow them to change their own password.

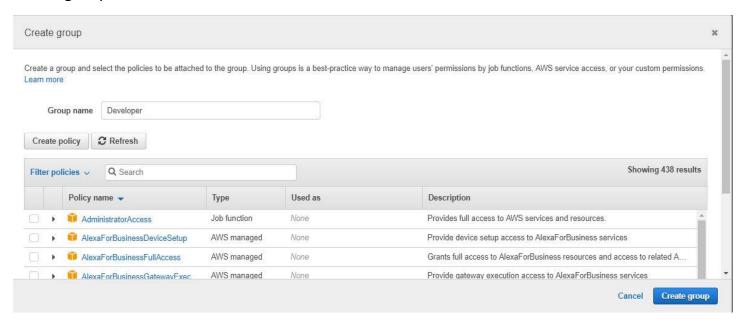
**Next: Permissions** 

Cancel

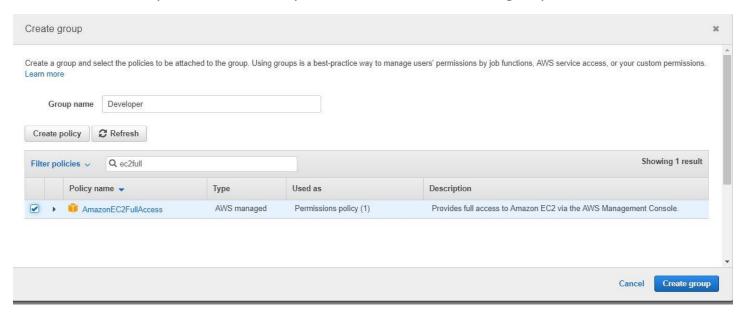
# Next add a group click "Create group"



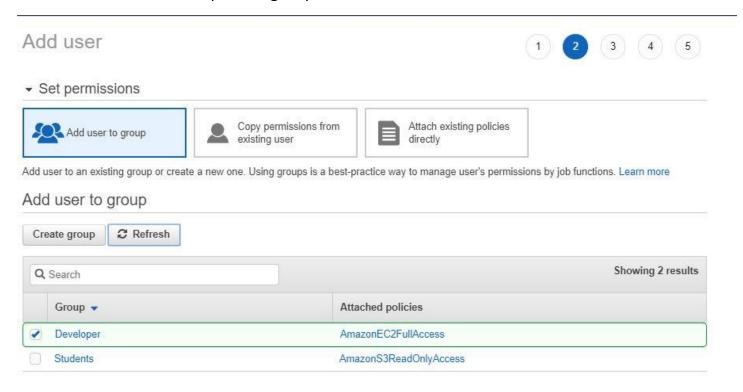
### Give a group name



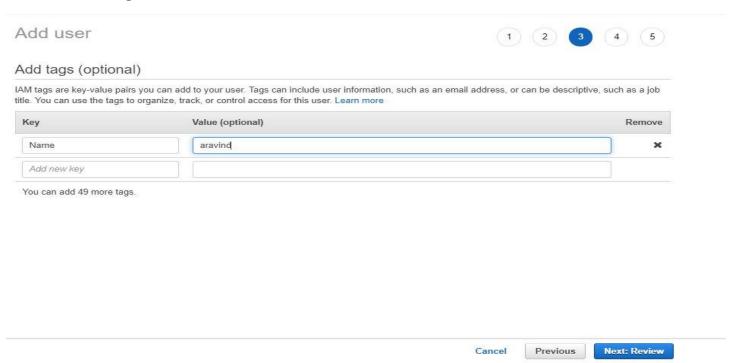
# Search the related policies in default policies and attach it to the group



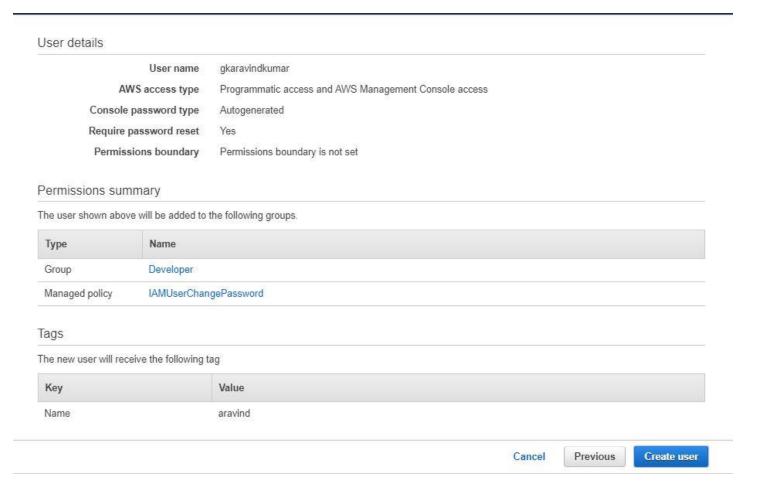
## Attach the user to the respective group



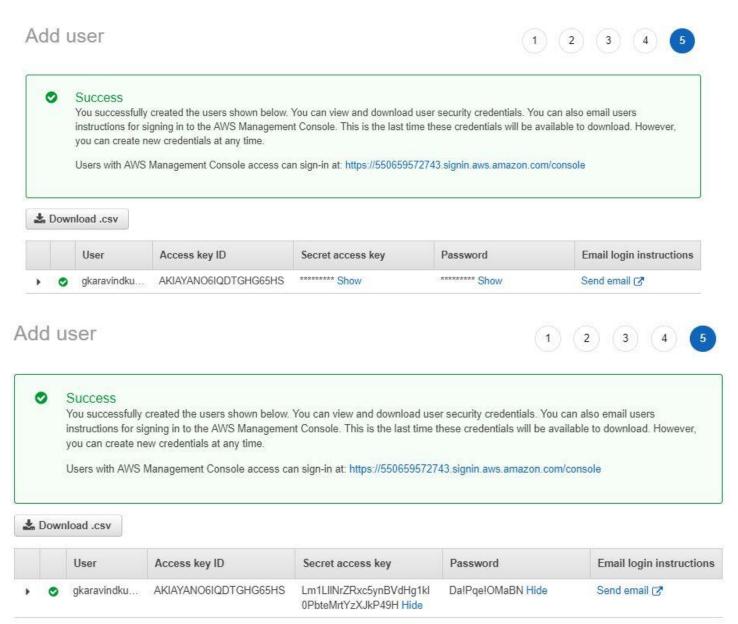
### Attach Name tag



# Review the details and create user wit group



The user will be created and it shows the secret key and password only once you should copy it and you can't able to see it again



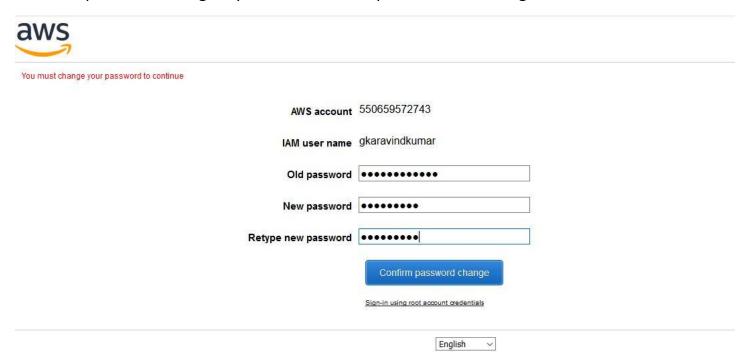
## Now you User will be shown in the list



# Step3: Check the user by login the console

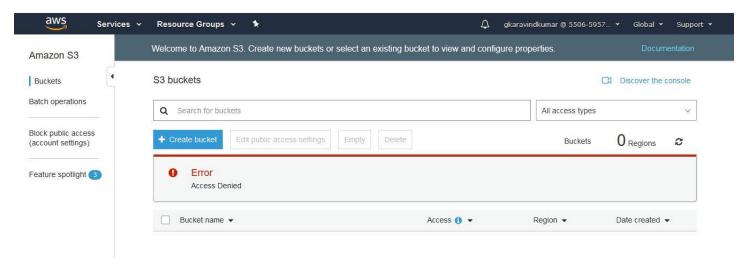


# It ask for password change if you selected this option while creating



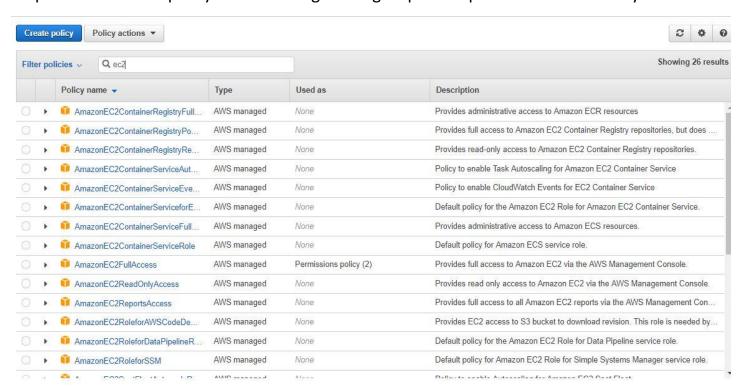
Terms of Use Privacy Policy © 1996-2019, Amazon Web Services, Inc. or its affiliates.

Check the permissions of the user it dot have rights to other services except EC2.

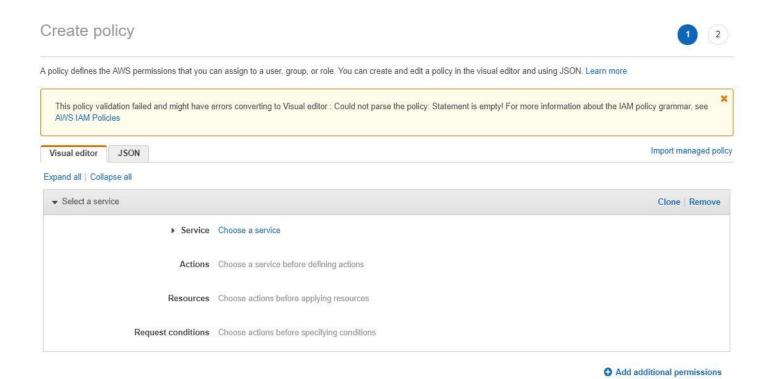


### **Policies**

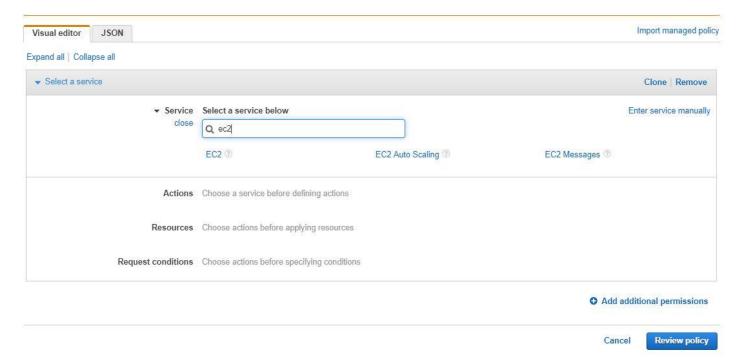
Step 4:Create a new policy and attaching it to a group. Goto policies > create Policy



You can use JASON script if you have or create policy in UI.



### Select the service

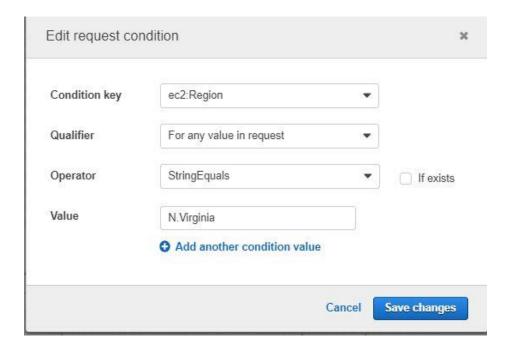


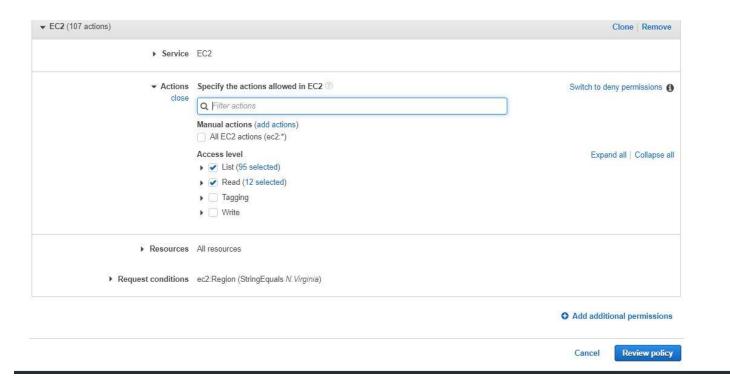
### Choose the Action



### Set condition







## Review and create Policy



Create policy

Filter policies v

Policy actions \*

Type

AWS managed

AWS managed

AWS managed

Used as

None

None

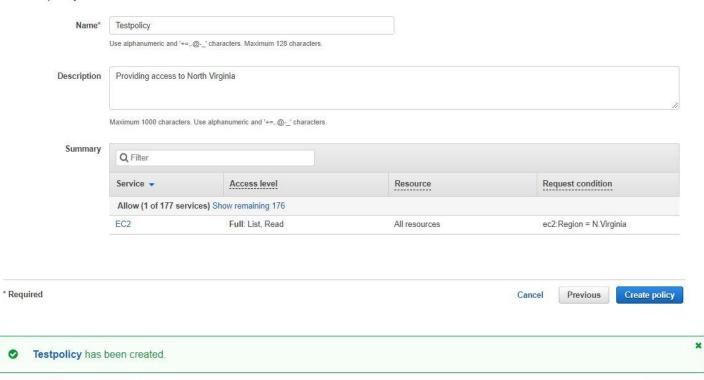
None

Q ec2

AmazonEC2ContainerRegistryPo...

AmazonEC2ContainerRegistryR...

Policy name -



Description

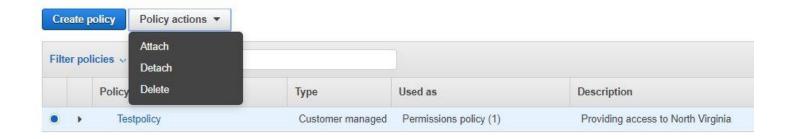
Provides administrative access to Amazon ECR resources

Provides full access to Amazon EC2 Container Registry repositories, but doe.

Provides read-only access to Amazon EC2 Container Registry repositories.

2 0

Showing 26 results

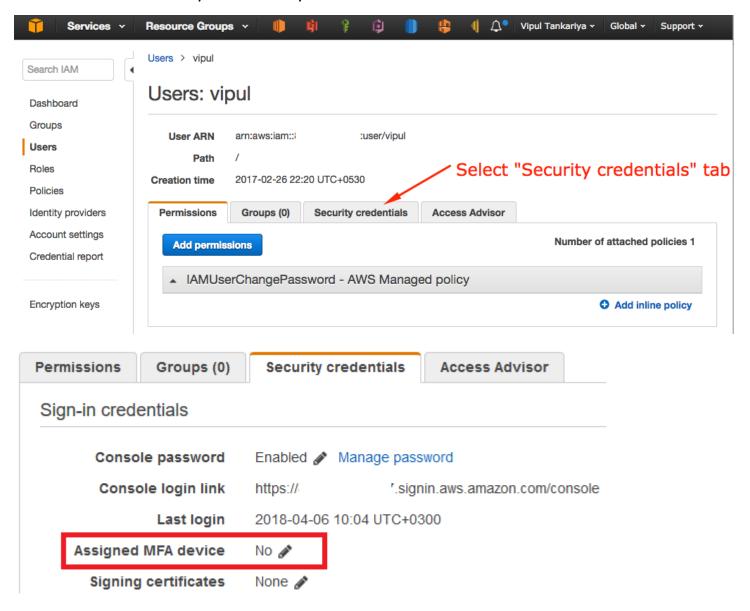


Use "Attach" to attach the policy to a group.

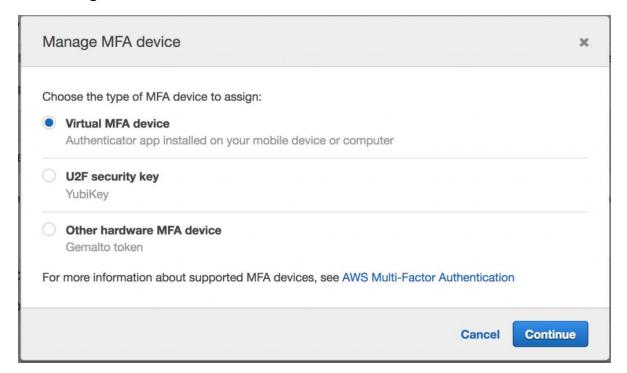
### Adding MFA to a user

MFA is a additional authendication for user you can add mobile device of user to avoid hacking.

Go to user in the security credentials you find MFA

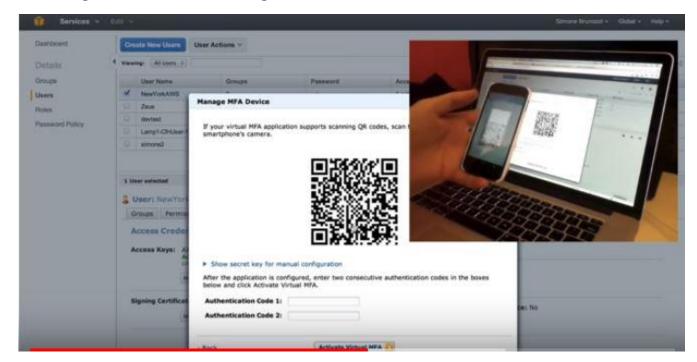


# Edit "Assigned MFA device" and select "Virtual MFA device"



Install Google Authendicator in your mobile.

You will get a QR code scan using mobile.



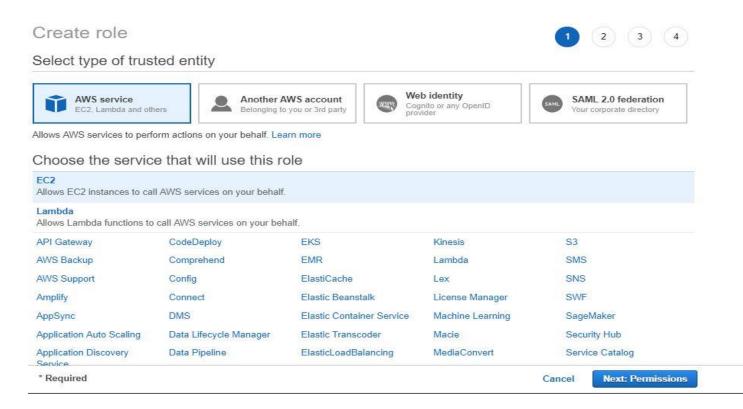
Once your code get scanned you will be getting code in your app enter that code your device will be added and you will be geeting this code automatically.



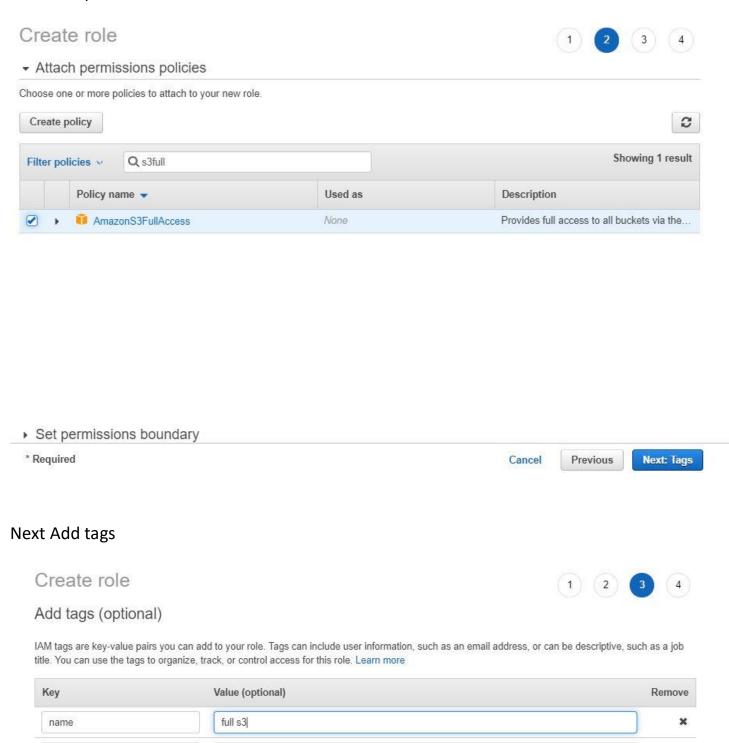
Then your code will be keep on changing user the current code to login while it through MFA authendication.

#### **ROLES:**

Create a role and Assign it to a EC2 instance Go to Roles and select service you are going to assign



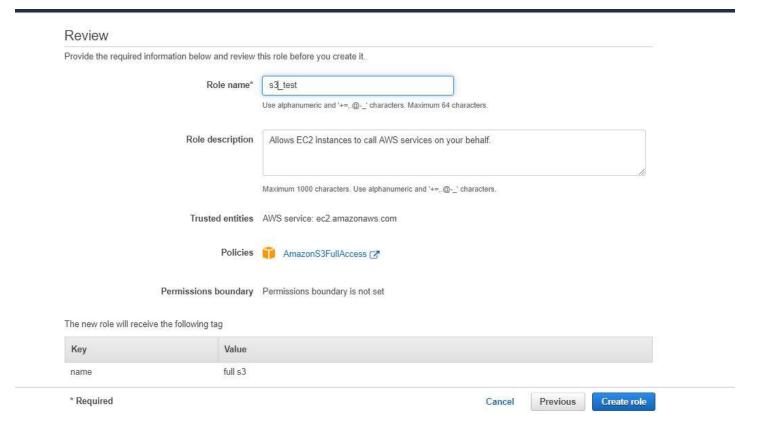
# Next Add permission to the selected service



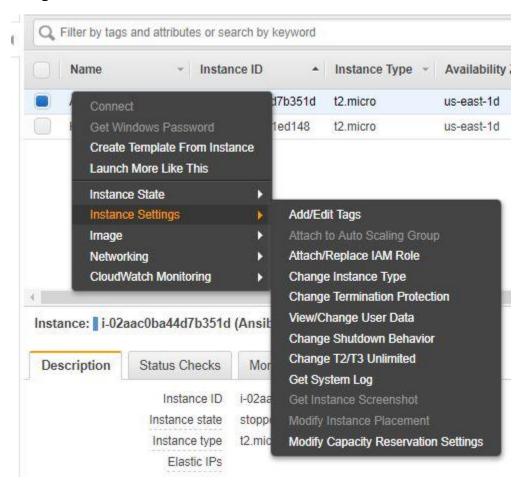
You can add 49 more tags.

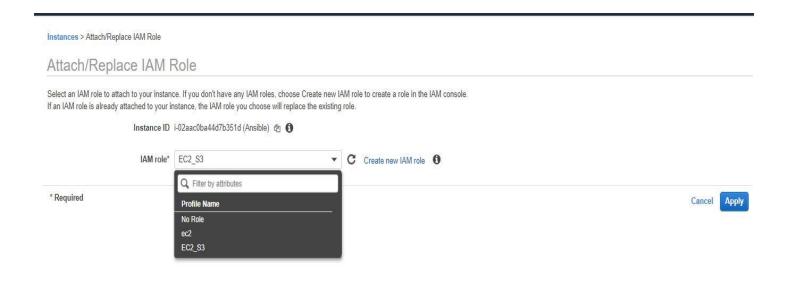
Add new key

#### Review the Role and create role



### Assign a Role to the EC2 instance





Now this EC2 instance have full access to S3 bucket.

Try by creating different Roles

----- END of the Document-----