### LAB 1: IAM User (Free TIER)

### **Foot Print of AWS Datacenters**

#### Who is AWS?

 Amazon Web Services launched in 2006 and today is 2020 and AWS Provide 200+ Services (Network, Compute, Storage, Databases, Developer Tools etc.) and also Include Block Chain, IOT and Serverless as well. In Short AWS Provide Everything.

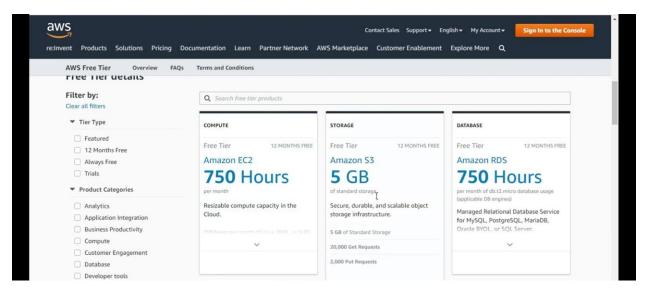


# **AWS Regions**

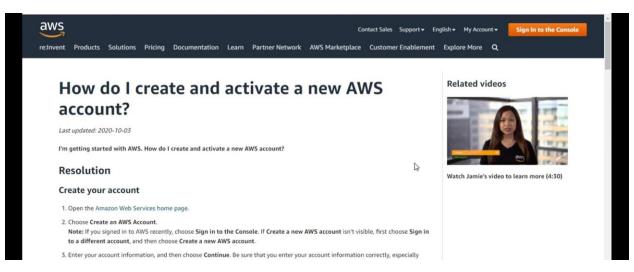
- 22 Regions
- 70 Availability
  Zone
- https://infrastruct ure.aws/



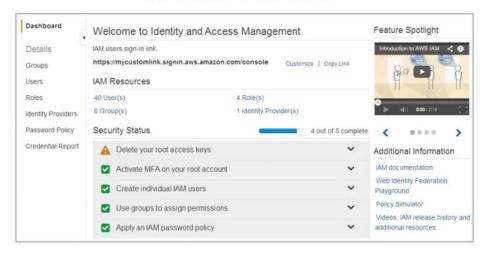
- See AWS Management Console. https://aws.amazon.com/console/
- See AWS Global infrastructure. https://aws.amazon.com/about-aws/global-infrastructure/
- See Free tier services.



Search google for Account Creation: <u>How do I create and activate amazon account?</u>

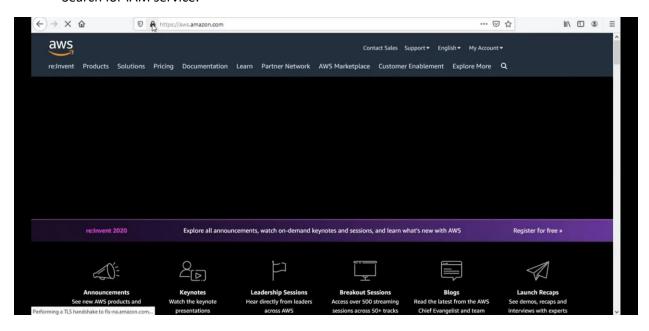


### IAM Lab Overview



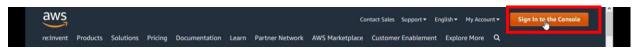
## IAM is a regional service.

• Search for IAM service:

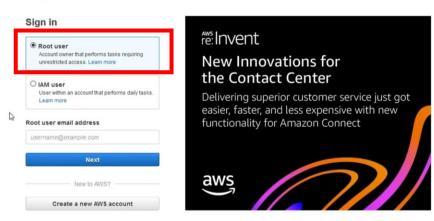




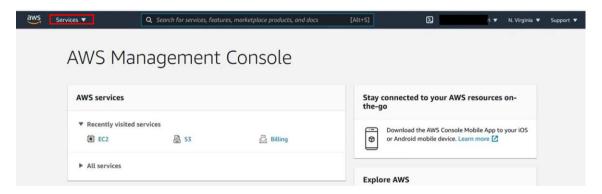
• Click on SignIn to Console and sign in as root user.



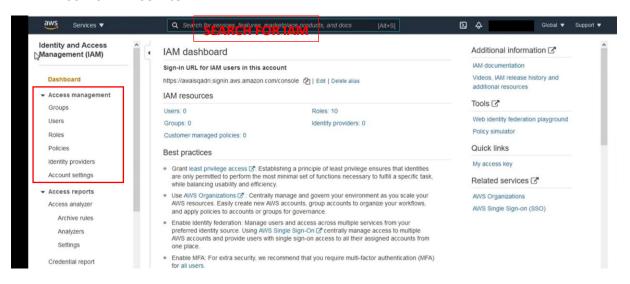




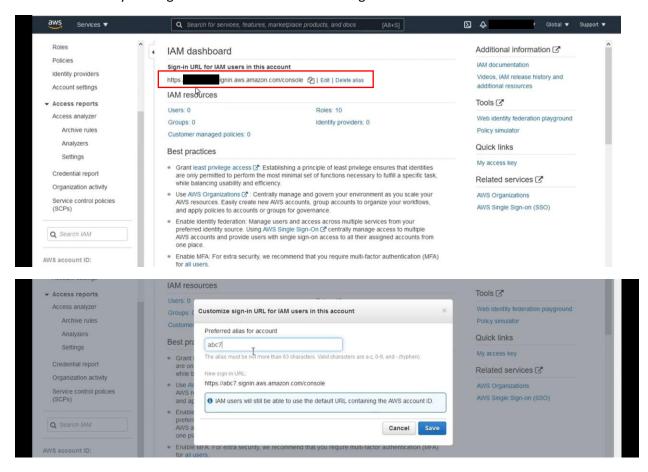
Search for services.



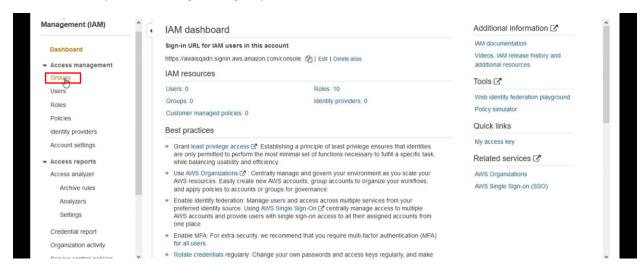
Look for IAM Service



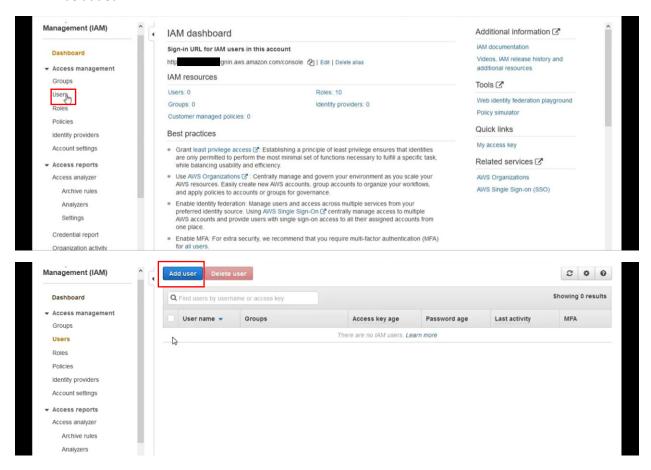
 On IAM dashboard you can see sign in URL and ID against your account. You can aliases or remane by clicking on edit. Alias can be used to login as IAM user.



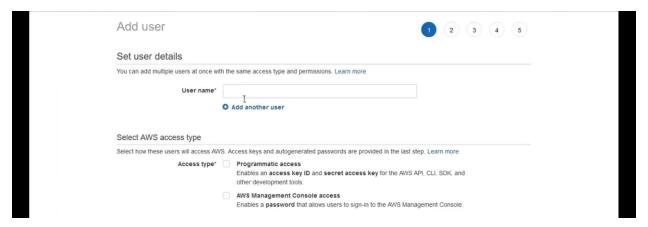
• In IAM you can manage user groups for IAM users created.



 You can add users and also make any user a part of the user group (created). Max 10 users can be added.

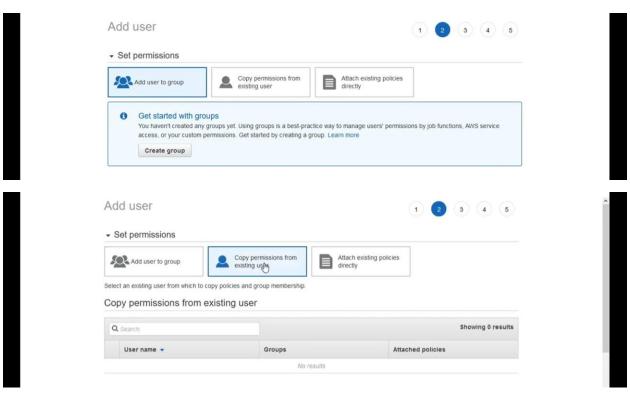


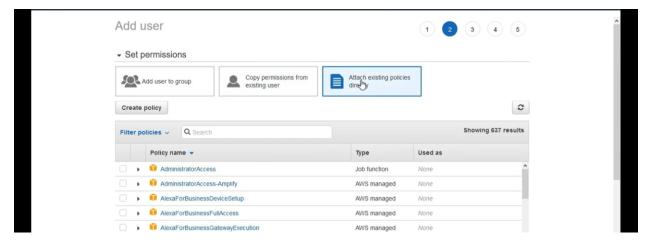
Set the user name and alloe the access type for loging in. Programmatic or through console.
 Both can be given.



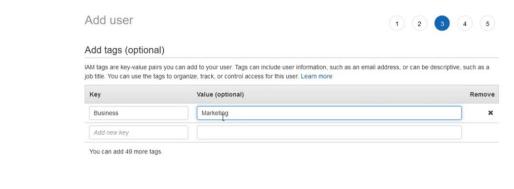


 You have options to add user to a group. Assign user permissions and attach any policy (existing or can be created)

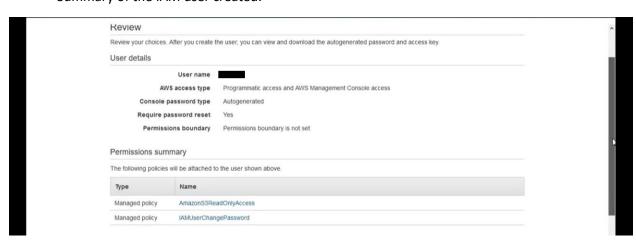




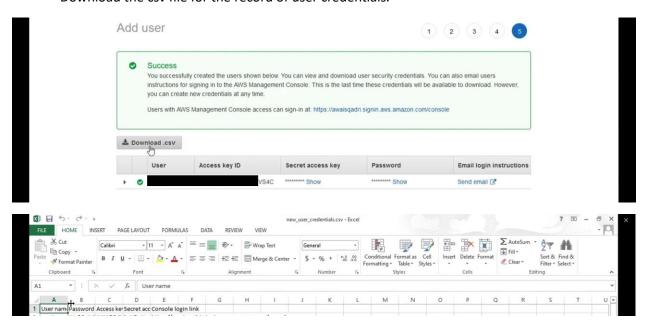
• Tags are optional can be used identify particular user.



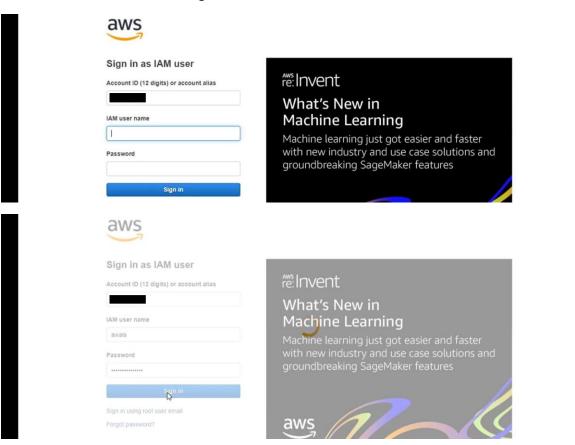
• Summary of the IAM user created.



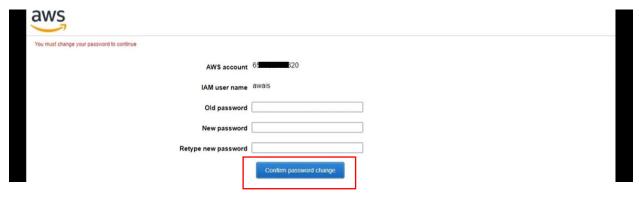
• Download the csv file for the record of user credentials.



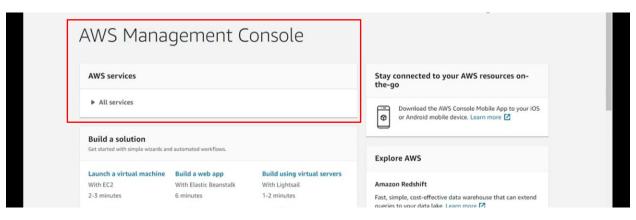
• Use IAM credentials to login as a IAM user



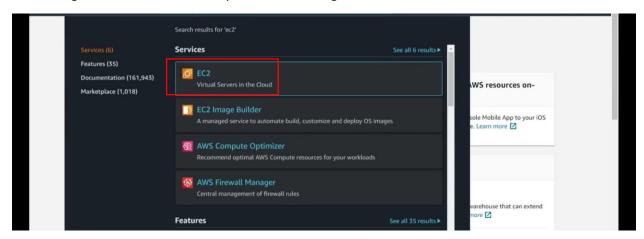
• If password change permission is given you can set your new password.

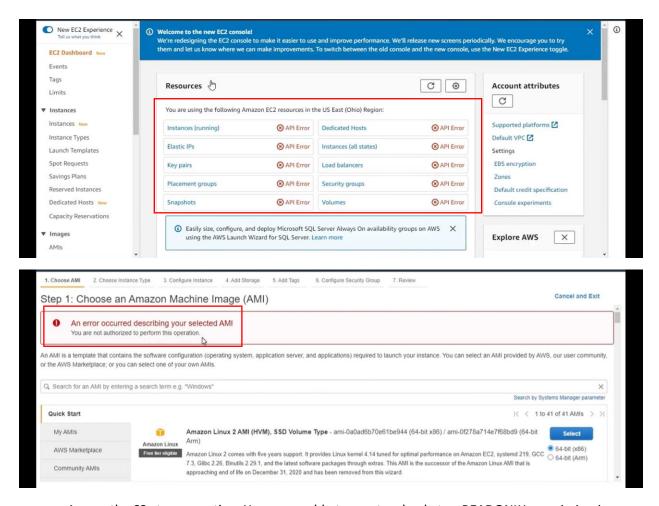


• Access the Management console for different services. Only allowed services are accessible.



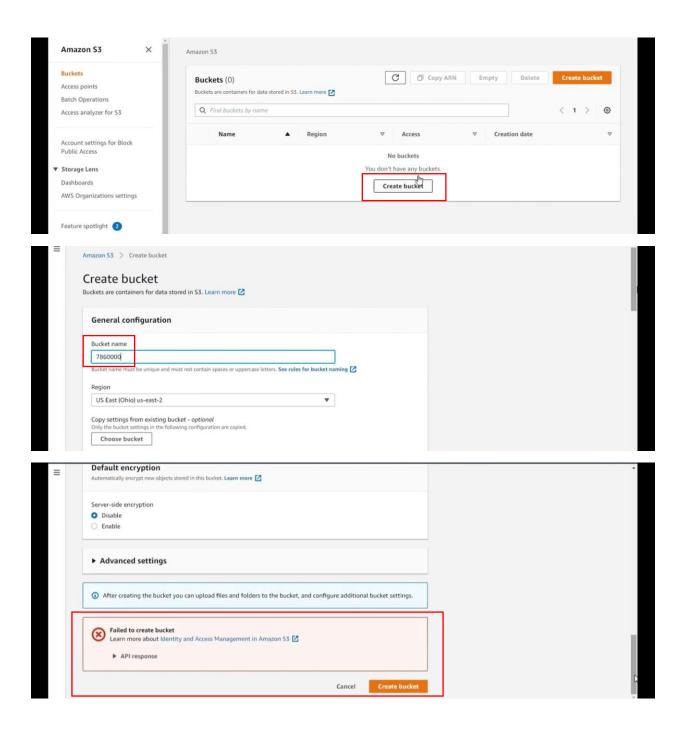
• E.g. EC2 is not accessible as permission is not given.



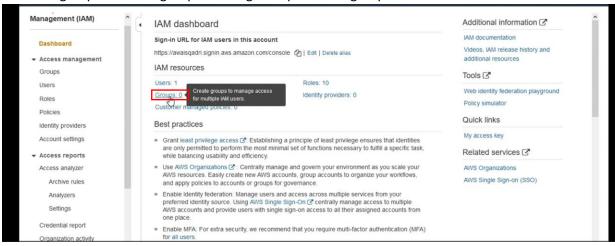


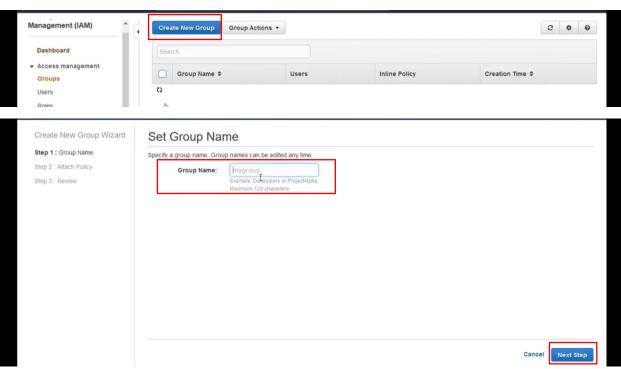
 Access the S3 storage option. You are unable to create a bucket as READONLY permission is attached.

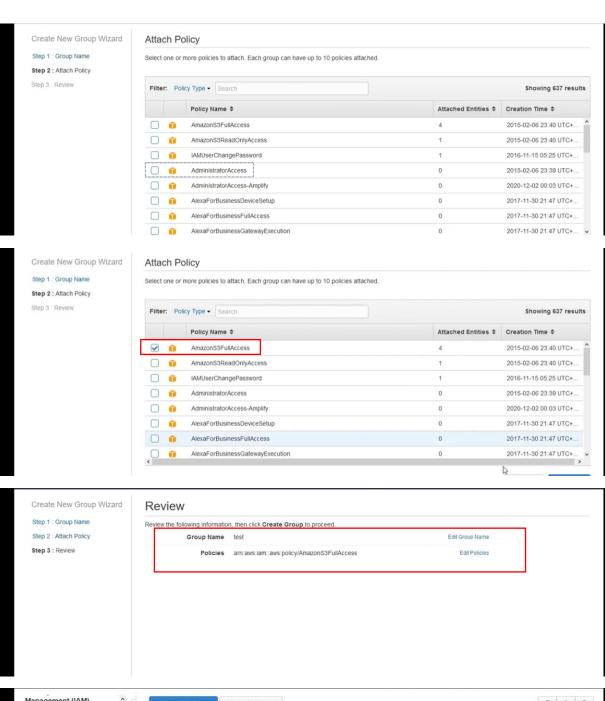


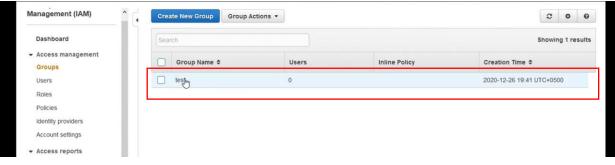


• To create groups: Create a group and assign the policies at group leve

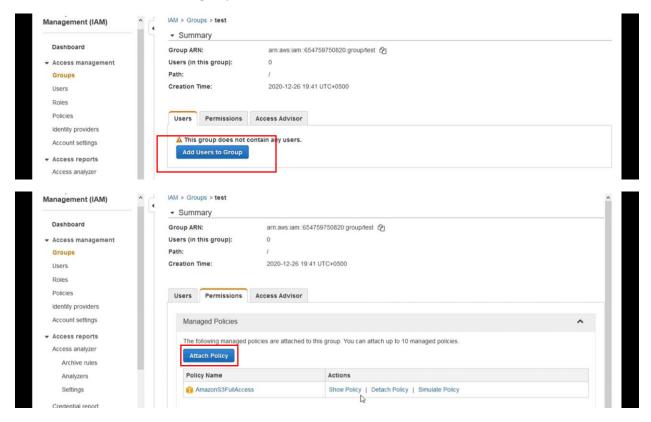




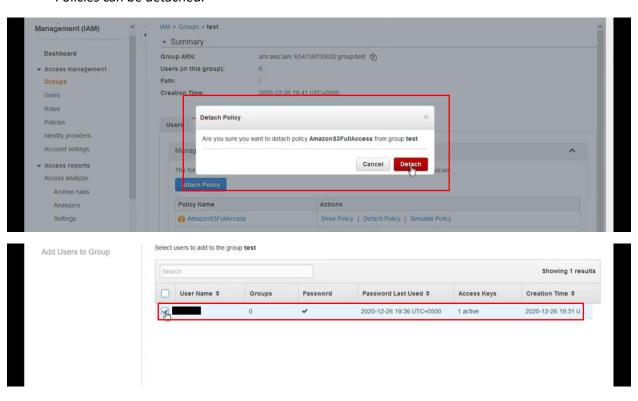




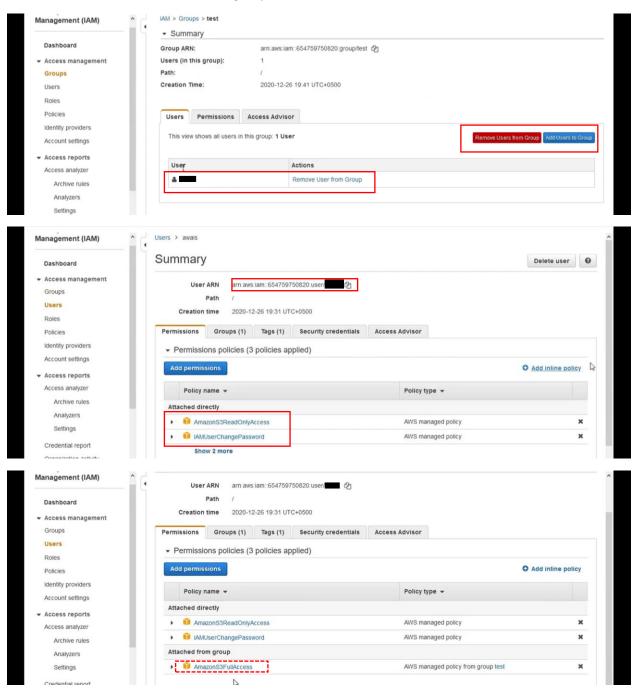
• You can add users to a group



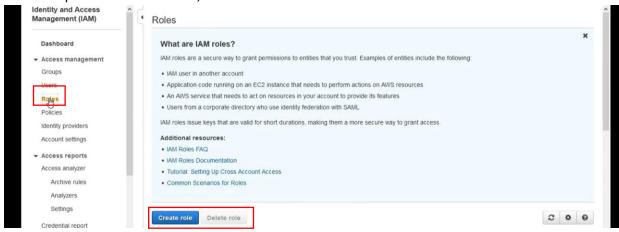
• Policies can be detached.

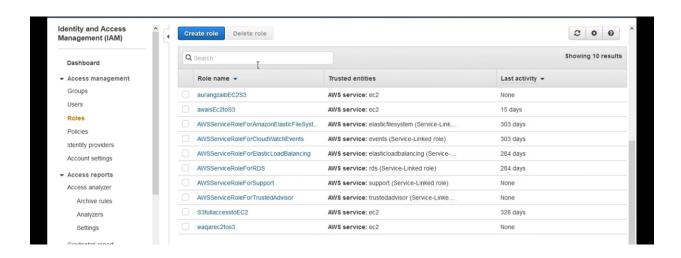


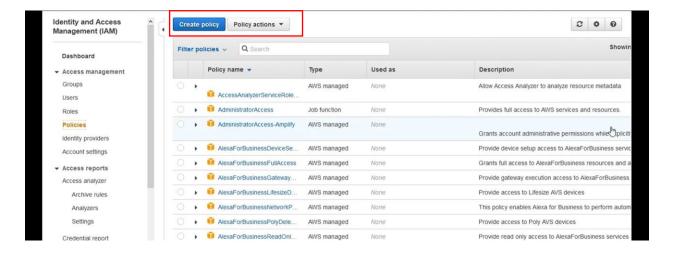
• Users can be removed from a group.



• Roles and polices can be created, will be discussed later.







### TASK:

- 1. You are requested to create accounts on AWS as a root user.
- 2. Next create an IAM user for your usage and login as an IAM user, try working around with different policies and see how the access is managed.
- 3. For complete access as an IAM user look for rights or policies. (May find the hint in the screens)
- 4. Add this IAM user (with maximum access) to a user group say Administrator. Then perform next lab EC2 using that account.
- 5. Share your findings.