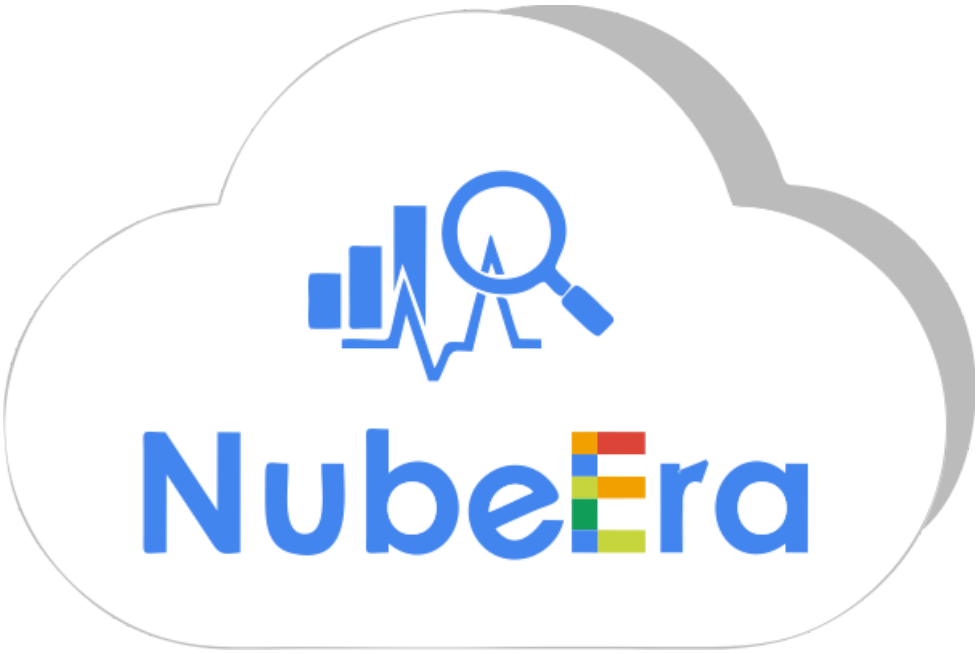

Subject: AWS Funda

Trainer: Mujahed S.

Document No.

Prepare Enterprise Cloud Virtual Server in AWS

Requirement:

You need to prepare 1 Server to be accessed by multiple teams with different keys.

Steps to solve:

1. Create Lock & Key using SSH-Keygen using using rename
   id_rsa—>key
   Id_rsa.pub—>lock.pub
2. Order EC2 server
   a. key pair= Import Generated Lock to Keypair
   b. security Group(Firewall) - Inbound Rule=All traffic, Anywhere
   c. AMI: ubuntu
   d. Instance type: t2.micro
3. Connect using AWS console(website)
4. Append lock.pub→ authorized_keys
~/.ssh/authorized_keys
5. Connect server using ssh
   Command & use key

Create a Security Group

Requirement:

Create a new Security Group in the AWS Management Console.

Steps to solve:

- Log in to the AWS Management Console.
- Go to the EC2 service.
- Click on "Security Groups" in the left sidebar.
- Click "Create Security Group".
- Provide a name and description for the Security Group.
- Configure inbound and outbound rules to allow or restrict traffic as needed.
- Click "Create" to create the Security Group.

Add Rules to the Security Group

Requirement:

Add inbound and outbound rules to the previously created Security Group.

Steps to solve:

- Go to the EC2 service in the AWS Management Console.
- Click on "Security Groups" in the left sidebar.
- Select the desired Security Group.
- Click on the "Inbound Rules" or "Outbound Rules" tab.
- Click "Edit Rules".
- Add rules to allow or restrict specific types of traffic.
- Click "Save Rules" to apply the changes.

Associate a Security Group with an EC2 Instance

Requirement:

Associate the previously created Security Group with an EC2 instance.

Steps to solve:

- Go to the EC2 service in the AWS Management Console.
- Click on "Instances" in the left sidebar.
- Select the desired EC2 instance.
- Click on the "Actions" dropdown menu.
- Choose "Networking" > "Change Security Groups".
- Select the desired Security Group from the list.
- Click "Assign Security Groups" to associate the Security Group with the EC2 instance.

Test Security Group Rules

Requirement:

Test the Security Group rules by attempting to connect to the EC2 instance.

Steps to solve:

- Determine the public IP or DNS name of the EC2 instance associated with the Security Group.
- Use SSH or other protocols to connect to the instance from your local machine.
- Verify if the connection is successful.
- Repeat the process with different rules to test inbound and outbound traffic restrictions.

Modify Security Group Rules

Requirement:

Modify the rules of the previously created Security Group to allow or restrict additional traffic.

Steps to solve:

- Go to the EC2 service in the AWS Management Console.
- Click on "Security Groups" in the left sidebar.
- Select the desired Security Group.
- Click on the "Inbound Rules" or "Outbound Rules" tab.
- Click "Edit Rules".
- Modify the existing rules or add new rules to accommodate the required changes.
- Click "Save Rules" to apply the changes.