AMAZON WEB SERVICES AWS

SHAIK.GOUSERABBANI

LAB-1
IAM HANDS-ON

- First login aws account and go in to the IAM services.
- Now click on Add MFA and create a MFA(Multi-Factor Authentication) for root user.
- Finally MFA created for root user successfully.

- Create a user account with EC2 full permissions only then first clixk on add user.
- Finally created a user account with only EC2 full permissions.
- Now give Administrator Access to this created user account(USER-1).

LAB-2
BILLING ALARM

- Now setup a billing Alarm for your account to get a notification when you cross the billing threshold.
- First go to billing dashboard at budgets and click on it and setup a budget for your account.
- Finally setup the billing alarm at some threshold value successfully.

LAB-3

S3-BUCKET

- Create a S3 bucket and add some files and browse it through URL.
- Finally S3 bucket is created successfully.
- To add some files or folders to S3 bucket under objects option.
- Now browse the added files by configure make a public using ACL option.

- Now copy the URL of file and past it in google tab and browse it
- Now go to properties and enable bucket versioning and upload new files and delete that file.
- Now delete the files which are uploaded.
- Now recover the deleted file by using bucket versioning option and it shows the deleted original file with size and dummy file is 0 size.

- Now recover the deleted file by using bucket versioning option and here deleted the delete marker file permanently to recover original file.

- Finally deleted file is recovered by using bucket versioning option.

LAB-4

EC2 Instance

- Create an EC2 instance by using Ubuntu operating system with t2.micro instance type and give port SSH(22) at security group.
- The above picture shows the instances details.
- Now access the instance from local machine by using git bash ssh software.
- Finally created EC2 instances launched successfully, by using git bash ssh software.

LAB-5
Security Group

- Create a security group along with port 80 and 22 at inbound rules with name “mynewsg”.
- Now attach this created security group to existing Ec2 instance successfully.
- Now connect the EC2 instances by newly added security group through Git bash ssh software.

LAB-6
Volumes and snapshots

- Create the volume and Attach this volume to the existing instance.
- First go to the EC2 dashboard and under this dashboard go to at Elastic block Store volumes and select it and open it.
- Finally the volume with 5gb is created successfully.

- Now attach this volume to existing EC2 instance.
- Now creating file system for created volume which stored under /dev/ by using command as “sudo mkfs –t ext4 /dev/<volume name>”
- Now create a empty directory under root for mount the volume to this directory and mount it and create and store the files under root directory which is created.
- Now create a snapshot from created volume and delete volume.
- Now create a volume from snapshot with 8gb volume.
- Now attach this new volume to the existing EC2 instance.
- Now mount this created new volume to the existing instances.

LAB-7
AMI'S

- Creating an AMI of running instance first go to running instance page and select running instances go to actions and create AMI of running instances.

- Finally AMI of running instance is created successfully.

LAB-8
Load Balancer

- Create two EC2 instances and install nginx server on one machine and httpd apache server on another machine.
- Show apache server official page by browsing the public ip of instance, which runs on apache server.
- Show nginx server official page by browsing the public ip of instance, which runs on nginx server.

- Now create an Network Load Balancer and attach two EC2 instances to this Load Balancer.
- Now go to Load Balancer under details select DNS copy it and past it in browser and reload the page and it shows the web server official page.
- Again reload the page it shows the another web server official page.

LAB-9
ASG & LC

- Create one launch configuration with Ubuntu server.
- Create Auto Scaling Group and attach the launch configuration which is created newly(launch).
- Now I delete the created virtual server and the auto scaling group replace or re-generate the deleted server.
- Finally the auto scaling group replace the virtual server which one is deleted before or recently.

LAB-10
RDS

- First create an EC2 instance in private subnet and give the port 3306 mysql/aurora at security group.
- Now go to RDS service and create the mysql(3306) database.
- Finally access the created RDS database from created virtual machine or EC2 instance by using command as “mysql –h endpoint –u username -p”.

THANK YOU