# **CLOUD PRACTICALS**

Time limit: 1 hr 30min

Marks: 20

# Do the following 3 practical questions

### Instructions:

- 1.Please mention question numbers clearly for each answer.
- 2. The answers for all 3 questions must be **put in one single document**. The **title of the document must be "Cloud Practicals\_[Your name]"** and attach the screenshots for each activity and push it to git mallikarjuna.hs@tibilsolutions.com as a collaborator

1.

### Questions:

- 1.Launch a free-tier **Ubuntu 22.04** EC2 instance and connect to it using SSH **using CLI (Not using Console)** [ 5 marks]
- 2.Create a S3 bucket **using CLI** [5 marks]
- 3.Transfer a file from your local machine to the EC2 instance using SCP4. Set up AWS CLI and upload the same file to the S3 bucket **using CLI commands**. [10 marks]

### ions:

ANSWFR:

1.Launch a free-tier **Ubuntu 22.04** EC2 instance and connect to it using SSH **using CLI (Not using Console)** [ 5 marks]

# STEP1: add aws configure in CLI . COMMAND: aws configure STEP2: provide aws acess key Provide aws security key STEP3: create a key pair to use with EC2

COMMAND:aws ec2 create-key-pair --key-name my-key --query 'KeyMaterial' --output text > my-

chmod 400 my-key.pem

key.pem

STEP4:find the lastest ubuntu 22.04 AMI ID

COMMAND:aws ec2 describe-images \

--filters "Name=name, Values=ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-\*" \

"Name=state, Values=available" \

# "Name=architecture, Values=x86\_64" \ Launch the EC2 Instance

```
--query "Images[*].[ImageId,CreationDate]" \
```

--output text | sort -k2 -r | head -n1

### **COPY IMAGE ID**

```
STEP4: Launch the EC2 Instance

aws ec2 run-instances \

--image-id ami-xxxxxxxxxxx \

--instance-type t2.micro \

--key-name my-key \

--security-groups default \

--tag-specifications 'ResourceType=instance,Tags=[{Key=Name,Value=MyUbuntuInstance}]'

STEP 5: Get the public ip of your Ec2 instances.

aws ec2 describe-instances \

--query "Reservations[*].Instances[*].PubliclpAddress" \

--output text

Step6: SSH into the instance
```

Command:ssh-imy-key.pemubuntu@<EC2-PUBLIC-IP>

## 2.Create a S3 bucket using CLI

### ANSWER:

Command for creating S3 Bucket.

aws s3api create-bucket --bucket my-unique-palakolanudeepika \

- --region us-east-1 \
- --create-bucket-configuration LocationConstraint=us-east-1

```
:\Windows\System32>aws s3api create-bucket --bucket qwertyuiasdfgh77 --region us-east-1
"Location": "/qwertyuiasdfgh77"
:\Windows\System32>
```

# Access key

If you lose or forget your secret access key, you cannot retrieve it. Instead, create a new access key and make the old key inactive.

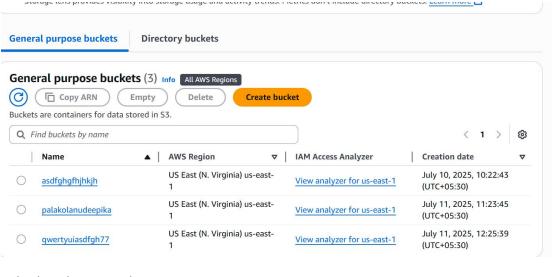


# Access key best practices

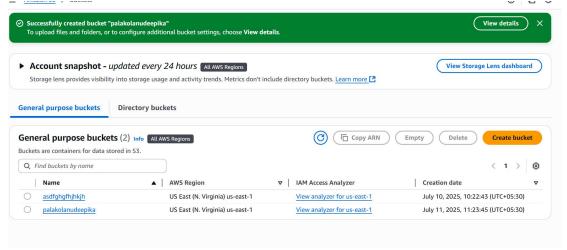
- Never store your access key in plain text, in a code repository, or in code.
- Disable or delete access key when no longer needed.
- Enable least-privilege permissions.
- Rotate access keys regularly.

For more details about managing access keys, see the best practices for managing AWS access keys.

Created bukect



Uploading object in Bucket.



2. Transfer a file from your local machine to the EC2 instance using SCP4. Set up AWS CLI and upload the same file to the S3 bucket using CLI commands. [10 marks]

ANSWER:

STEP 1: SSH INTO EC2

Command;ssh -i my-key.pem ubuntu@<EC2-PUBLIC-IP>

Step 2: install AWS CLI INTO EC2.

COMMAND:sudo apt update

sudo apt install awscli -y

STEP3: CONFIGURE AWS CLI

aws configure

STEP 4: UPLOAD file to s3

aws s3 cp localfile.txt s3://my-unique-bucket-name-123456/