

## 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](mailto:mallikarjuna.hs@tibilsolutions.com) as a collaborator

### Questions:

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

Ans:

- Create a new user with name and select attach policies directly and select administration access click on next
- Then we need to set the access key and secret access key
- Go to command prompt and put command `aws configure` then enter access key and secret key
- Enter region and format
- Got to ec2 and select ubuntu os and copy ami id
- Then type a command `aws ec2 run-instances --image-id ami-020cba7c55df1f615 --count 1 --instance-type t2.micro --key-name new --security-groups new --region us-east-1`
- Then our instance will be created

Image:-

```
Command Prompt
C:\Users\shash>aws ec2 run-instances --image-id ami-020cba7c55df1f615 --count 1 --instance-type t2.micro --key-name secure --security-groups secure --region us-east-1
{
  "ReservationId": "r-03bb944b97fa840f7",
  "OwnerId": "566970125930",
  "Groups": [],
  "Instances": [
    {
      "Architecture": "x86_64",
      "BlockDeviceMappings": [],
      "ClientToken": "b44a1e71-bd2b-46be-8d80-0bc916def86a",
      "EbsOptimized": false,
      "EnaSupport": true,
      "Hypervisor": "xen",
      "NetworkInterfaces": [
        {
          "Attachment": {
            "AttachTime": "2025-07-11T05:45:12+00:00",
            "AttachmentId": "eni-attach-0236b43b9ade246d0",
            "DeleteOnTermination": true,
            "DeviceIndex": 0,
            "Status": "attaching",
            "NetworkCardIndex": 0
          },
          "Description": "",
          "Groups": [
            {
              "GroupId": "sg-0959d9b32e331f282",
              "GroupName": "secure"
            }
          ],
          "Ipv6Addresses": [],
          "MacAddress": "12:f9:2d:b1:3f:ef",
          "NetworkInterfaceId": "eni-07ac7a3cf81d2b148",
          "OwnerId": "566970125930",
          "PrivateDnsName": "ip-172-31-83-247.ec2.internal",
          "PrivateIpAddress": "172.31.83.247",
          "PrivateIpAddresses": [
            {
              "Primary": true,
```

## 2. Create a S3 bucket using CLI

[5 marks]

Ans:

- To create s3 bucket we need to type a command `aws s3api create-bucket --bucket bucket-name --origin origin-name`
- Then it will give like this `C:\Users\shash>aws s3api create-bucket --bucket rsadmin123 --region us-east-1`
- {
- "Location": "/rsadmin123"
- }
- It indicates bucket is created

Image:-

**Amazon S3**

Account snapshot - updated every 24 hours All AWS Regions [View Storage Lens dashboard](#)

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. [Learn more](#)

**General purpose buckets** | Directory buckets

**General purpose buckets (2)** Info All AWS Regions [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">rsadmin123</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	July 11, 2025, 11:20:37 (UTC+05:30)
<a href="#">rsadmin1234</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	July 9, 2025, 14:52:13 (UTC+05:30)

```
C:\Users\shash>aws s3api create-bucket --bucket rsadmin123 --region us-east-1
{
  "Location": "/rsadmin123"
}

C:\Users\shash>
```

- 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]

Ans:

- to transfer file from local machine to ec2 instance use the command
- `scp -i "C:\Users\shash\Downloads\secure.pem" "C:\Users\shash\Downloads\sample.txt.txt" ec2-user@3.83.2.6:/home/ec2-user/`
- in the above command we need to put ip address of instance and address of the images and keypair
- then use command `aws s3 cp /home/ec2-user/sample.txt s3://rsadmin123/`

- then file will uploaded sucefully to the bucket

The screenshot shows the AWS S3 console interface for a bucket named 'rsadmin123'. The breadcrumb navigation at the top indicates the path: Amazon S3 > Buckets > rsadmin123. The bucket's name 'rsadmin123' is displayed with an 'Info' link. Below this, there are tabs for 'Objects', 'Metadata', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is selected, showing a list of objects. Above the list, there are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar with the placeholder 'Find objects by prefix' is present. The object list has columns for 'Name', 'Type', 'Last modified', 'Size', and 'Storage class'. One object is listed: 'sample.txt.txt' with a type of 'txt', last modified on 'July 11, 2025, 12:10:56 (UTC+05:30)', a size of '0 B', and a storage class of 'Standard'. The footer of the console shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc.

us-east-1.console.aws.amazon.com/s3/buckets/rsadmin123?region=us-east-1&tab=objects&bucketType=general

aws Search [Alt+S] United States (N. Virginia)

Amazon S3 > Buckets > rsadmin123

rsadmin123 Info

Objects Metadata Properties Permissions Metrics Management Access Points

Objects (1) Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	sample.txt.txt	txt	July 11, 2025, 12:10:56 (UTC+05:30)	0 B	Standard

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