CLOUD PRACTICALS

Time limit: 1 hr 30min
Marks : 20

Do the following 3 practical questions

Instructions:

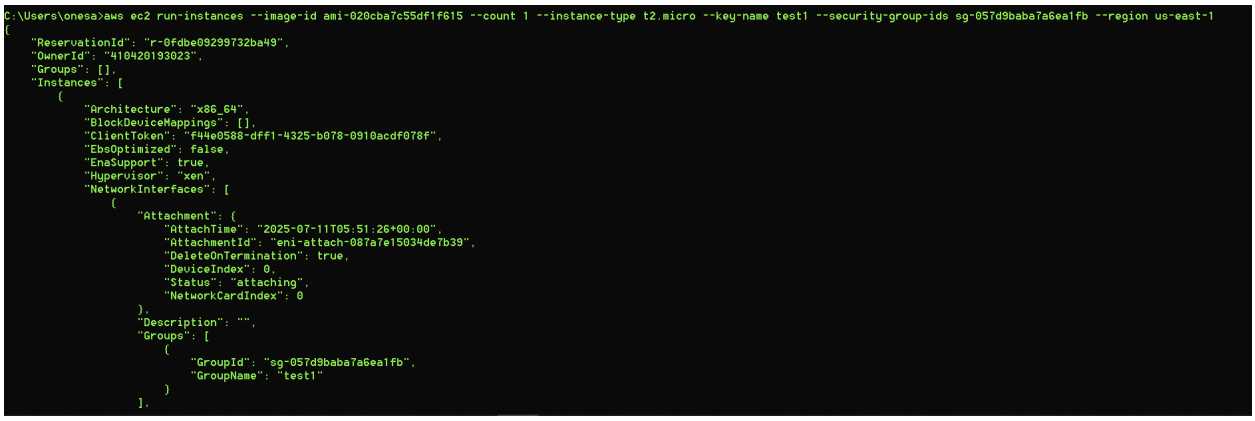
1. Please mention question numbers clearly for each answer.
2. The answers for all 3 questions must be **put in one single document**. The **title of the document must be "Cloud Practicals_[Your name]"** and attach the screenshots for each activity and push it to git mallikarjuna.hs@tibilsolutions.com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

Questions:

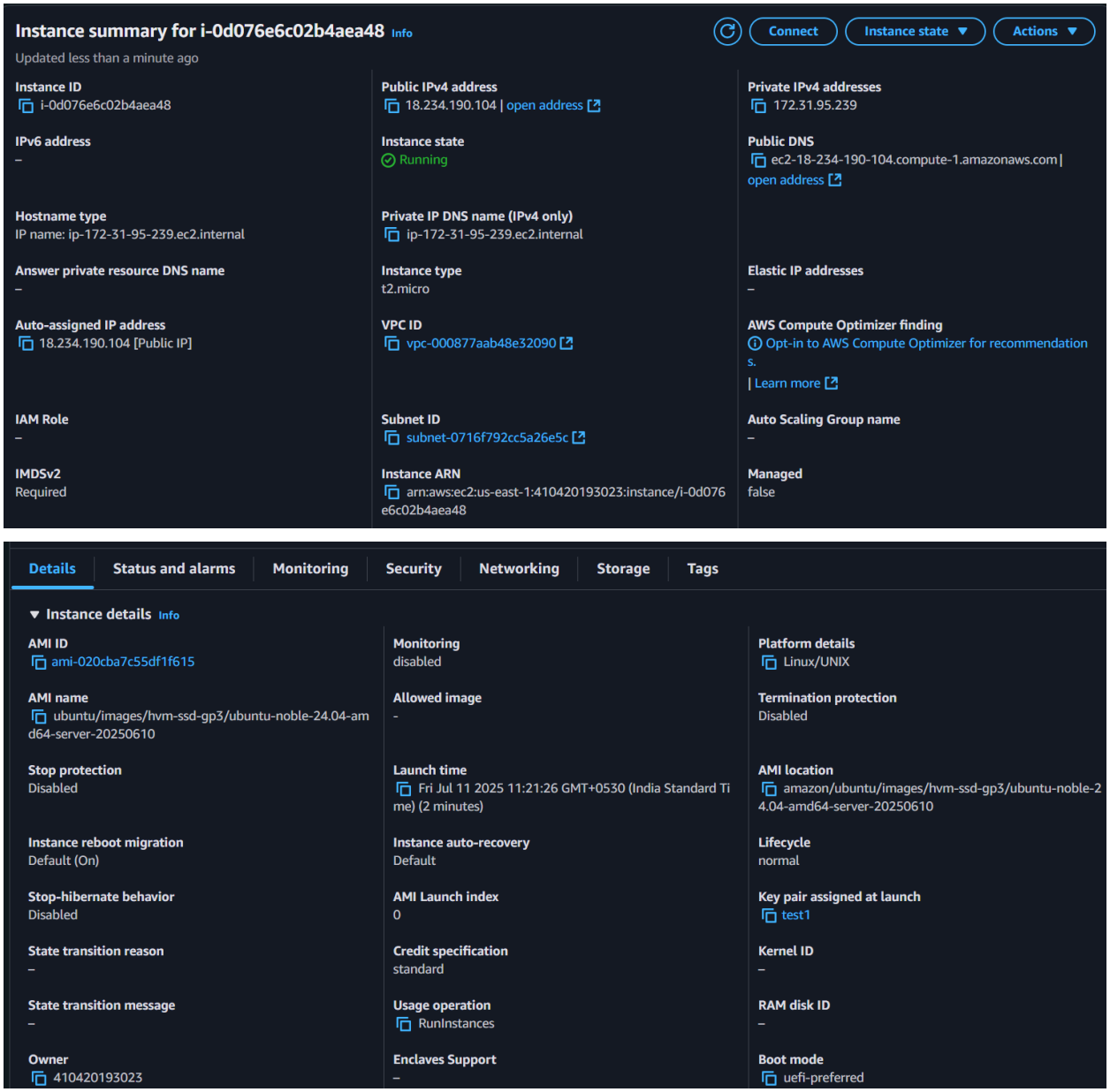
1. Launch a free-tier **Ubuntu 22.04** EC2 instance and connect to it using SSH **using CLI (Not using Console)** [5 marks]
   Ans: Creating EC2

   Command used for creating : C:\Users\onesa>aws ec2 run-instances --image-id ami-020cba7c55df1f615 --count 1 --instance-type t2.micro --key-name test1 --security-group-ids sg-057d9baba7a6ea1fb --region us-east-1

   Output of the command has been pasted



```
C:\Users\onesa>aws ec2 run-instances --image-id ami-020cba7c55df1f615 --count 1 --instance-type t2.micro --key-name test1 --security-group-ids sg-057d9baba7a6ea1fb --region us-east-1
{
    "ReservationId": "r-0fdbe09299732ba49",
    "OwnerId": "410420193023",
    "Groups": [],
    "Instances": [
        {
            "Architecture": "x86_64",
            "BlockDeviceMappings": [],
            "ClientToken": "f44e0588-dff1-4325-b078-0910acdf078f",
            "EbsOptimized": false,
            "EnaSupport": true,
            "Hypervisor": "xen",
            "NetworkInterfaces": [
                {
                    "Attachment": {
                        "AttachTime": "2025-07-11T05:51:26+00:00",
                        "AttachmentId": "eni-attach-087a7e15034de7b39",
                        "DeleteOnTermination": true,
                        "DeviceIndex": 0,
                        "Status": "attaching",
                        "NetworkCardIndex": 0
                    },
                    "Description": "",
                    "Groups": [
                        {
                            "GroupId": "sg-057d9baba7a6ea1fb",
                            "GroupName": "test1"
                        }
                    ],
```



Instance summary for i-0d076e6c02b4aea48 Info

Updated less than a minute ago

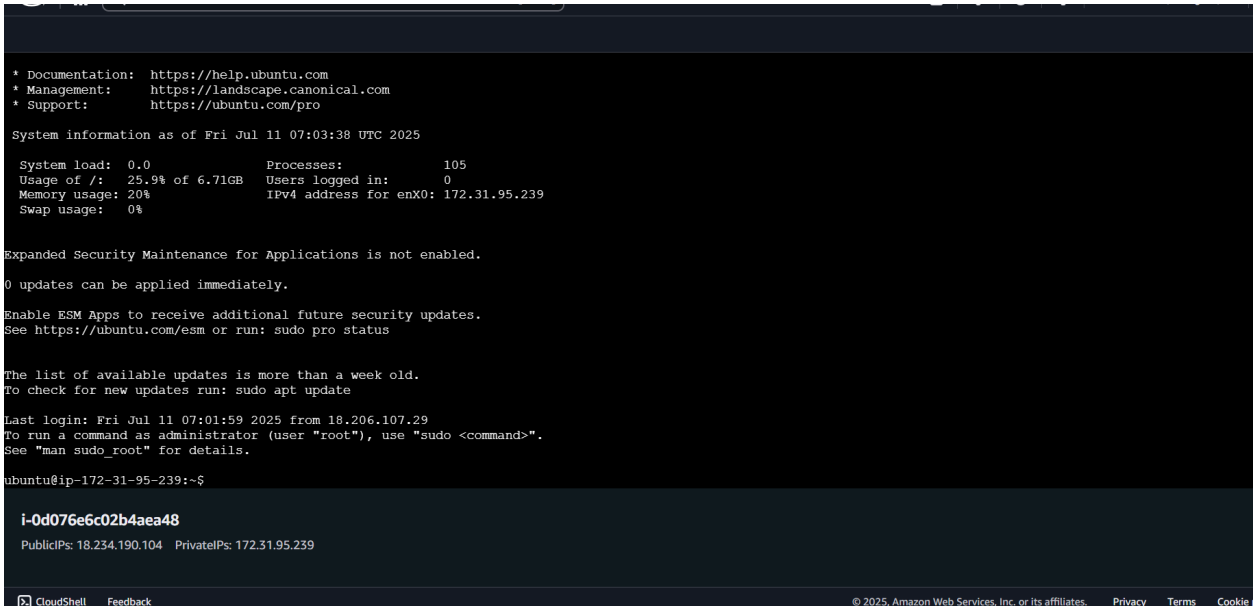
Connect | Instance state | Actions

Instance ID i-0d076e6c02b4aea48	**Public IPv4 address** 18.234.190.104 | open address	**Private IPv4 addresses** 172.31.95.239
IPv6 address –	**Instance state** Running	**Public DNS** ec2-18-234-190-104.compute-1.amazonaws.com | open address
Hostname type IP name: ip-172-31-95-239.ec2.internal	**Private IP DNS name (IPv4 only)** ip-172-31-95-239.ec2.internal	
Answer private resource DNS name –	**Instance type** t2.micro	**Elastic IP addresses** –
Auto-assigned IP address 18.234.190.104 [Public IP]	**VPC ID** vpc-000877aab48e32090	**AWS Compute Optimizer finding** Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role –	**Subnet ID** subnet-0716f792cc5a26e5c	**Auto Scaling Group name** –
IMDSv2 Required	**Instance ARN** arn:aws:ec2:us-east-1:410420193023:instance/i-0d076e6c02b4aea48	**Managed** false

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

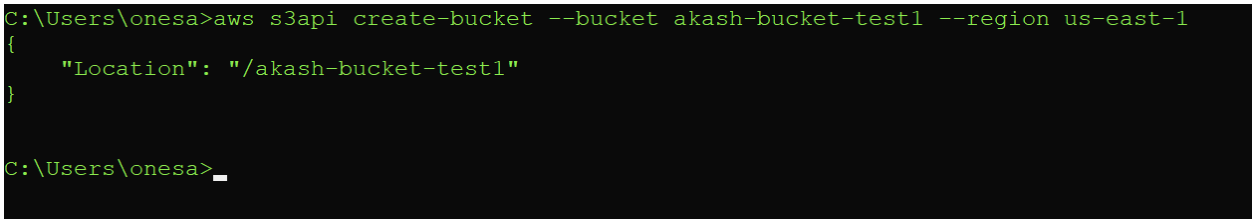
Instance details Info

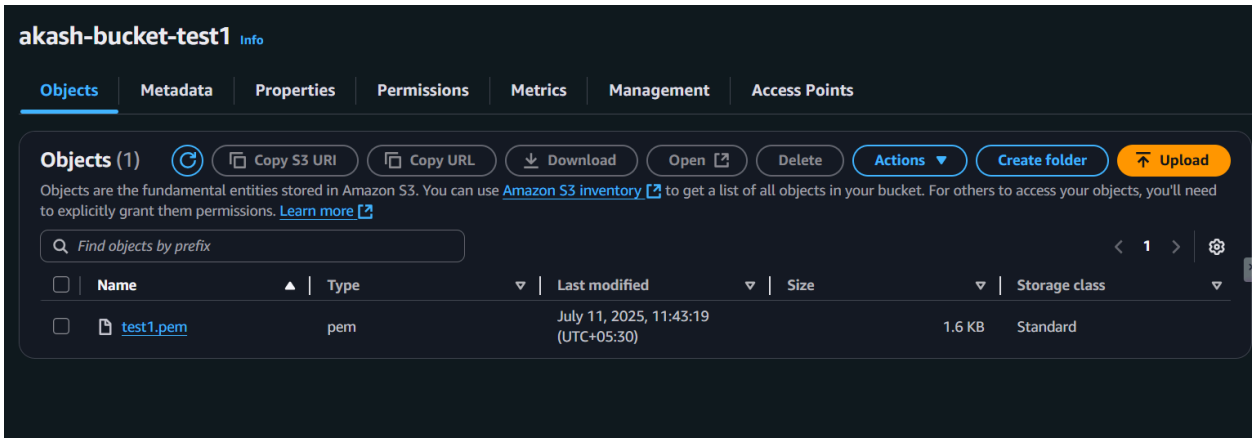
AMI ID ami-020cba7c55df1f615	**Monitoring** disabled	**Platform details** Linux/UNIX
AMI name ubuntu/images/hvm-ssd-gp3/ubuntu-noble-24.04-amd64-server-20250610	**Allowed image** -	**Termination protection** Disabled
Stop protection Disabled	**Launch time** Fri Jul 11 2025 11:21:26 GMT+0530 (India Standard Time) (2 minutes)	**AMI location** amazon/ubuntu/images/hvm-ssd-gp3/ubuntu-noble-24.04-amd64-server-20250610
Instance reboot migration Default (On)	**Instance auto-recovery** Default	**Lifecycle** normal
Stop-hibernate behavior Disabled	**AMI Launch index** 0	**Key pair assigned at launch** test1
State transition reason –	**Credit specification** standard	**Kernel ID** –
State transition message –	**Usage operation** RunInstances	**RAM disk ID** –
Owner 410420193023	**Enclaves Support** –	**Boot mode** uefi-preferred



2. Create a S3 bucket **using CLI** [5 marks]
Ans:
Command used: C:\Users\onesa>aws s3api create-bucket --bucket akash-bucket-test1 --region us-east-1

Output has been shared below



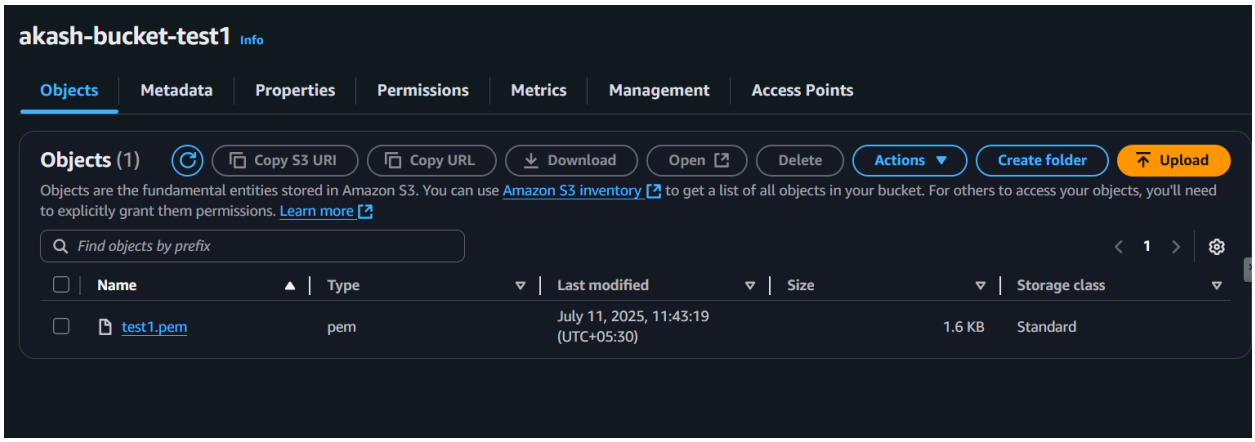


3. Transfer a file from your local machine to the EC2 instance using SCP4. Set up AWS CLI and upload the same file to the S3 bucket **using CLI commands**. [10 marks]

Ans:
Uploading file into s3 bucket

```
C:\Users\onesa>aws s3 cp "C:\Users\onesa\Downloads\test1.pem" s3://akash-bucket-test1/
upload: Downloads\test1.pem to s3://akash-bucket-test1/test1.pem

C:\Users\onesa>
```



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