1.Describe laaS

Ans.

laas - Infrastructure as a service

A kind of cloud computing service known as infrastructure as a service (laaS) provides basic computation, storage, and networking resources on demand and on a pay-as-you-go basis. laaS is one of the four categories of cloud services, along with serverless, platform as a service, and software as a service (SaaS).

2. List the Compute Services available in AWS and GCP.

Ans.

AWS Services:

Amazon EC2

Amazon EC2 Auto Scaling

Amazon EC2 Image Builder

Amazon Lightsail

AWS App Runner

AWS Batch

AWS Elastic Beanstalk

AWS Fargate

GCP Services:

Web servers.

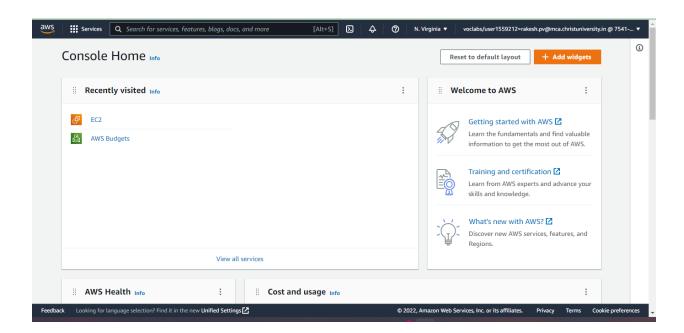
Containerized microservices.

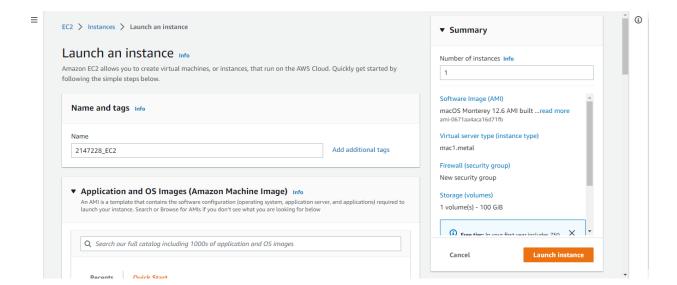
Media transcoding.

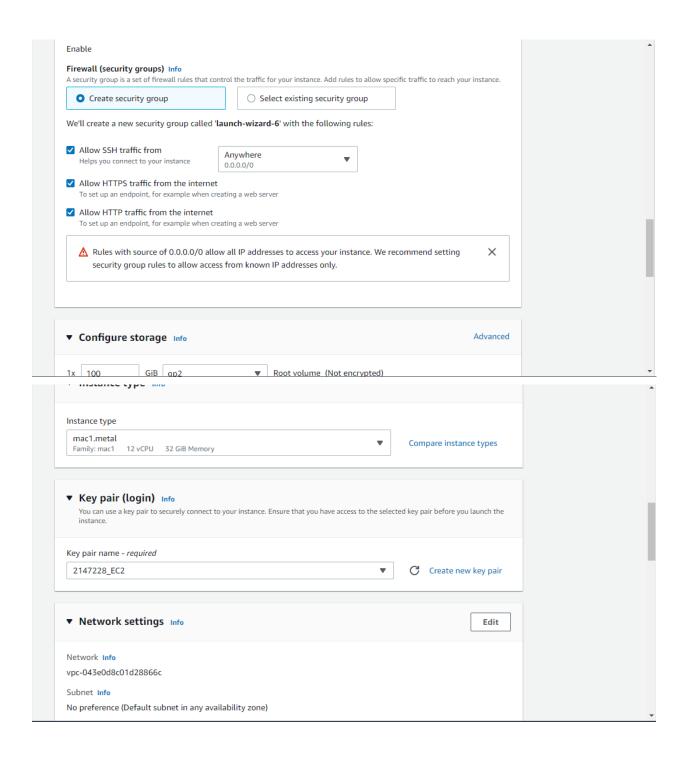
Large scale Java applications.

3. Create an AWS EC2 Instance (Instance Name: Regno_EC2) and install the necessary packages to execute a program of your choice in it. Ans:

This part is executed using ubuntu ec2







Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more

Key pair name

2147228 EC2

The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

RSA

RSA encrypted private and public key pair

O ED25519

ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

o .pem

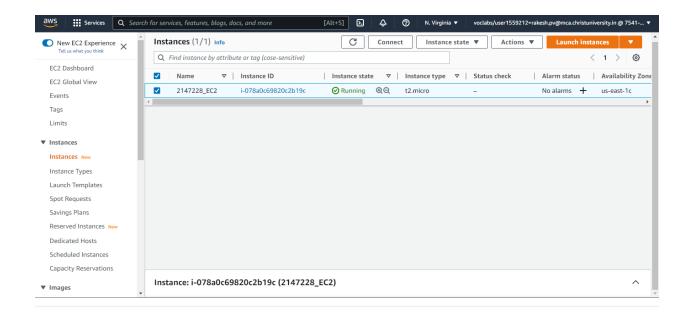
For use with OpenSSH

O .ppk

For use with PuTTY

Cancel

Create key pair



EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID



i-078a0c69820c2b19c (2147228_EC2)

- 1. Open an SSH client.
- 2. Locate your private key file. The key used to launch this instance is 2147228_EC2.pem
- 3. Run this command, if necessary, to ensure your key is not publicly viewable.
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chmod 400 2147228_EC2.pem

- 4. Connect to your instance using its Public DNS:
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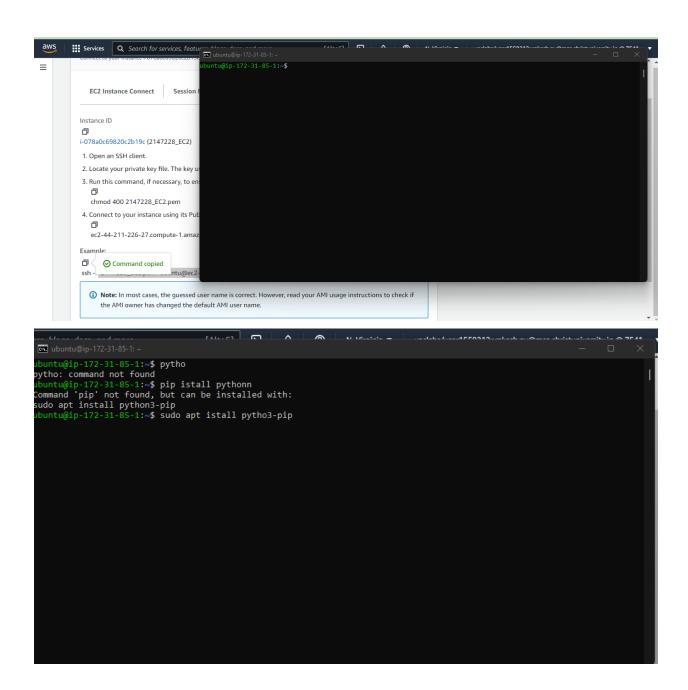
ec2-44-211-226-27.compute-1.amazonaws.com

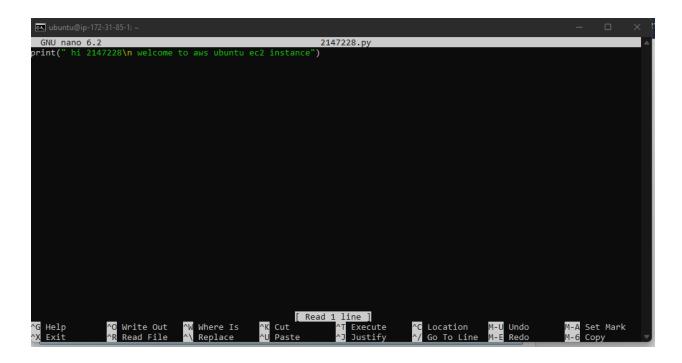
Example:

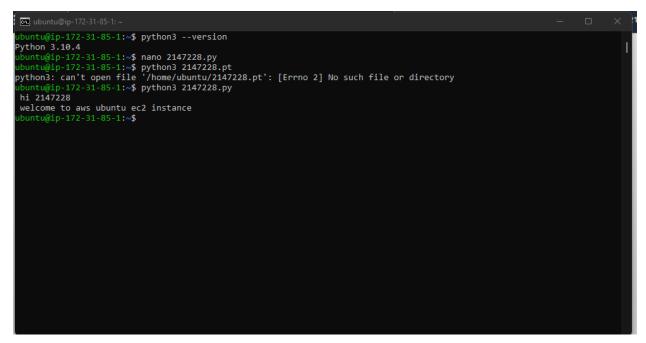


ssh -i "2147228_EC2.pem" ubuntu@ec2-44-211-226-27.compute-1.amazonaws.com

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.







4.Create a Webserver on that EC2 Instance and host your organizations website (Static Website)

This part is done using Amazon Linux ec2

Install apache web

```
Complete
[ec2-user@ip-172-31-91-161-]5 sudo amazon-linux-extras install php8.0 mariadbi0.5
Installing php-pdo, mariadb, php-fpm, php-mysqlnd, php-cl1
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Cleaning repos: marn.2-core amazonetra-docker amzn2extra-kernel-5.10 amzn2extra-mariadbi0.5 amzn2extra-php8.0
17 metadata files removed
6 metadata files removed
8 metadata files removed
10 marn2extra-suggestions, langpacks, priorities, update-motd
10 marn2extra-docker
10 marn2extra-docker
11 marn2extra-docker
12 marn2extra-sernel-5.10
13 marn2extra-php8.0
14 marn2extra-php8.0
15 marn2extra-php8.0
16 marn2extra-php8.0
17 marn2-core/2/x86_64/updateinfo
18 marn2extra-php8.0
18 ma
```

Server running

```
[ec2-user@ip-172-31-91-161 ~]$ curl -I 127.0.0.1
HTTP/1.1 403 Forbidden
Date: Thu, 27 Oct 2022 04:35:44 GMT
Server: Apache/2.4.54 ()
Upgrade: h2,h2c
Connection: Upgrade
Last-Modified: Thu, 30 Jun 2022 11:01:19 GMT
ETag: "e2e-5e2a830765dc0"
Accept-Ranges: bytes
Content-Length: 3630
Content-Type: text/html; charset=UTF-8
[ec2-user@ip-172-31-91-161 ~]$
```

Start server:

Curl:

```
[ec2-user@ip-172-31-91-161 ~]$ curl -I 127.0.0.1
HTTP/1.1 403 Forbidden
Date: Thu, 27 Oct 2022 04:35:44 GMT
Server: Apache/2.4.54 ()
Upgrade: h2,h2c
Connection: Upgrade
Last-Modified: Thu, 30 Jun 2022 11:01:19 GMT
ETag: "e2e-5e2a830765dc0"
Accept-Ranges: bytes
Content-Length: 3630
Content-Type: text/html; charset=UTF-8
[ec2-user@ip-172-31-91-161 ~]$
```

Hosted page:

