Kumar Gauray 20122065

Lab – **1**, AWS EC2

1. Describe laaS

laaS is one of the main cloud computing models. laaS – Infrastructure as a service. It offers pay-as-you-go infrastructure for a company. That is the most basic form of cloud computing.

With laaS, a client rents a variety of infrastructure components such as data centres, servers, cloud storage, and networking solutions from a provider. Basically, laaS offers access versus ownership. An laaS provider takes responsibility for the infrastructure, whereas users are in charge of installing, managing, maintaining, and supporting their apps and operating systems.



Few of the key features of laaS are as follows:

Resources are highly scalable
Cost depends on the consumption
A single piece of hardware serves many users
The client has complete control over the architecture
The Pros of using laaS are:

The most flexible and dynamic model Cost-effective, pay for what you use Easy to use since it deploys hardware automatically

The Cons of Using laaS are:

Data security is an issue due to multitenant architecture

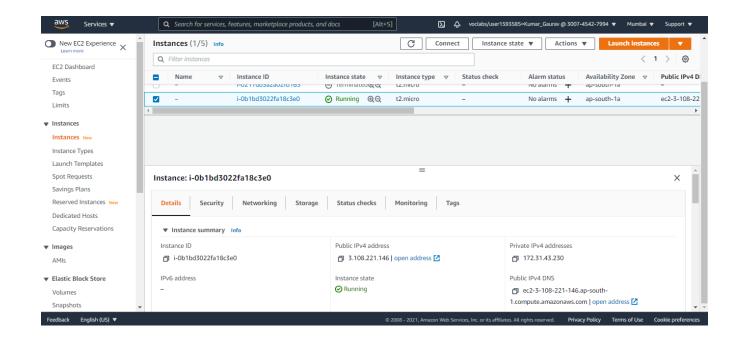
Team training is required to learn about the new infrastructure

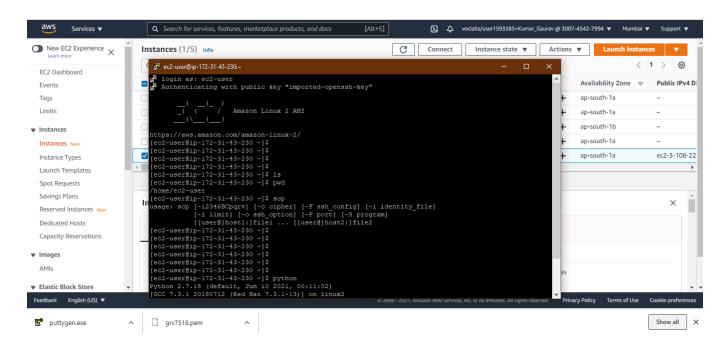
When server crashers at the vendor side, customers cannot access their data for a while

2. List of computer services in AWS

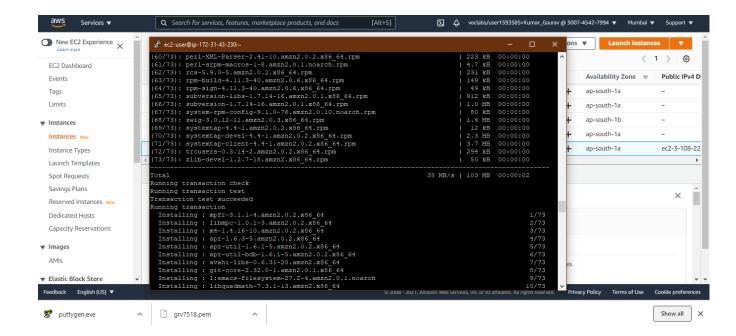
- Amazon EC2
- Amazon EC2 Auto Scaling
- Amazon EC2 Image Builder
- Amazon Lightsail
- AWS App Runner
- AWS Batch
- AWS Elastic Beanstalk
- AWS Fargate
- AWS Lambda
- AWS Serverless Application Repository
- AWS Outposts
- AWS Wavelength
- VMware Cloud on AWS

3. AWS EC2 Instance and install the necessary packages

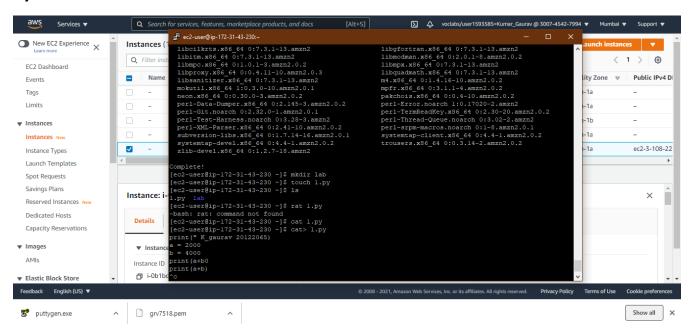


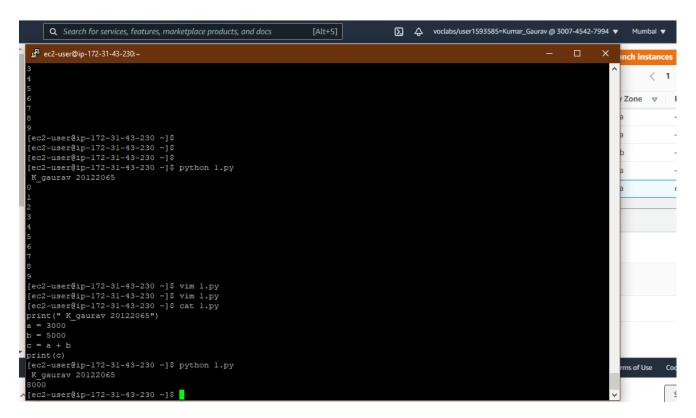


sudo yum groupinstall "Development Tools"



Python run





Python is working successfully! Done