Advance AWS

AWS Project- 1 (Day -5)

Student:

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Teacher:

Mrs. Vinolin Jeremiah

Course:

Advance AWS Cloud Computing with DevOps Fundamentals

Institute:

Lets Upgrade

Project 01:

Working with IAM Roles with S3 and Bootstrapping with EC2

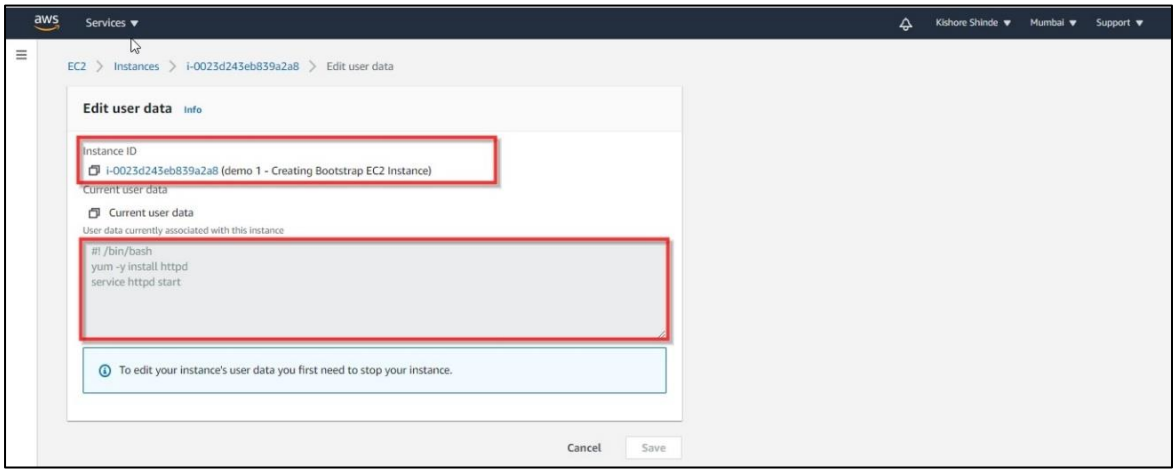
Task 1 : Creating a bootstrapped instance

Task 2 : Checking bucket list and creating a new bucket from EC2 using IAM Roles

Task 3 : Hosting a webpage using the bootstrap script on EC2

Task 1: Creating a bootstrapped Instance

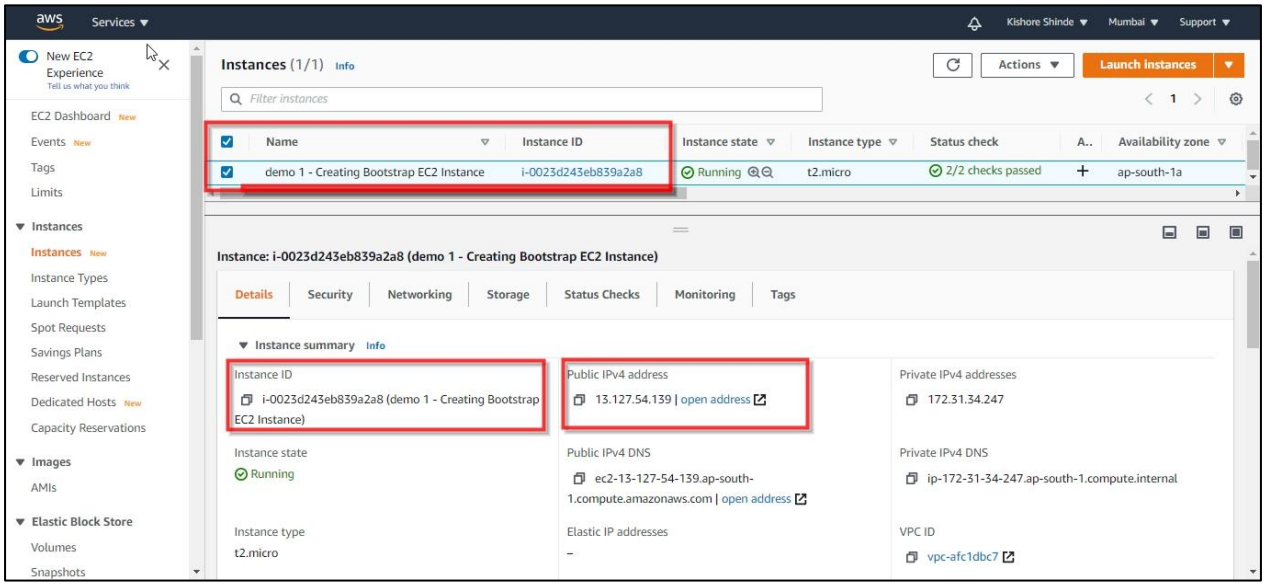
Screen 1 : Edit User Data



Script added in User Data:

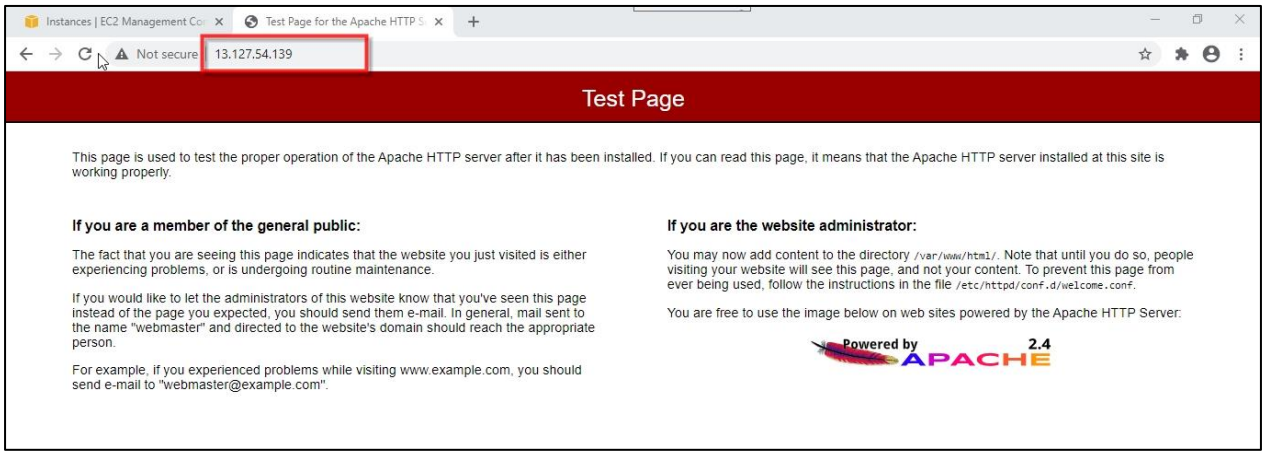
Sr. No.	Command	Description
1.	#! /bin/bash	Executes the script using the Bash shell
2.	yum -y install httpd	Installing Apache Software
3.	Service httpd start	Starts Apache Service

Screen 2 : List of EC2 Instances



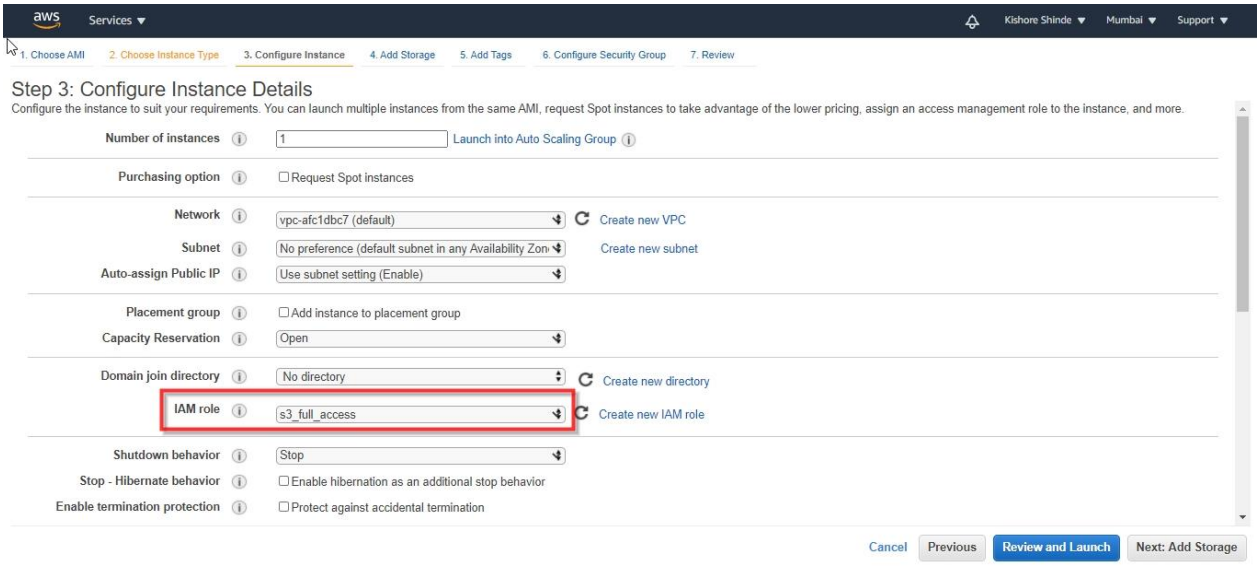
Instance Name	Instance ID	Public IP
demo 1 – Creating Bootstrap EC2 instance	i-0023d243eb839a2a8	13.127.54.139

Screen 3 : Public IP Test Page



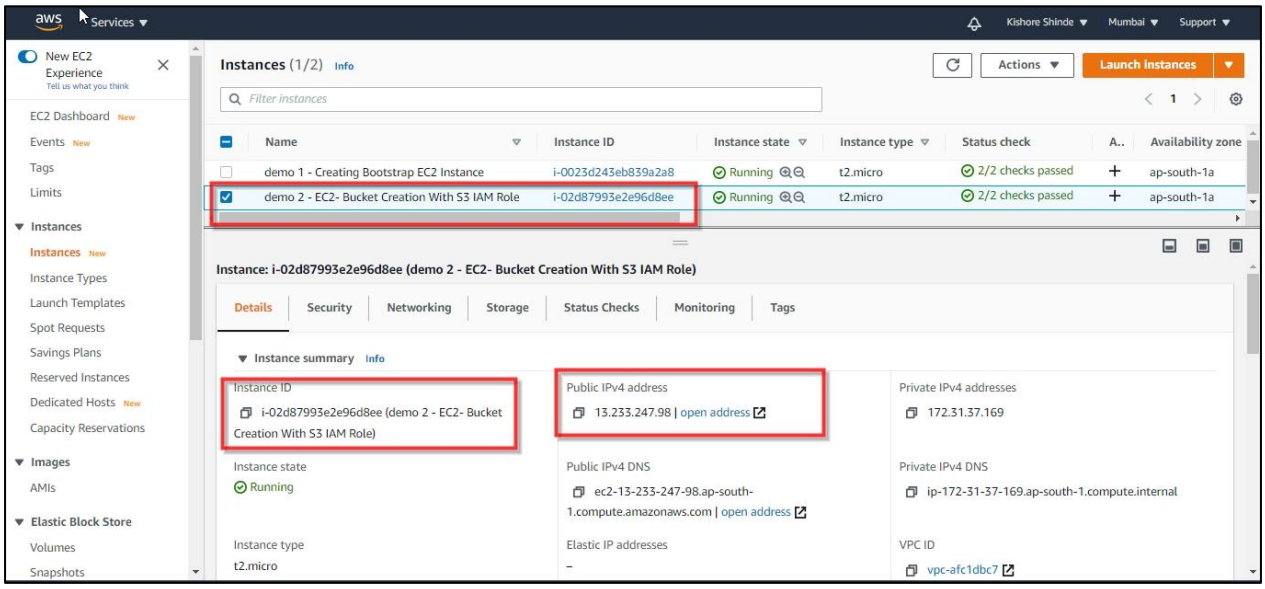
Task 2 : Checking bucket list and creating a new bucket from EC2 using IAM Roles

Screen 1 : User Data (IAM Role Selection : s3_full_access)



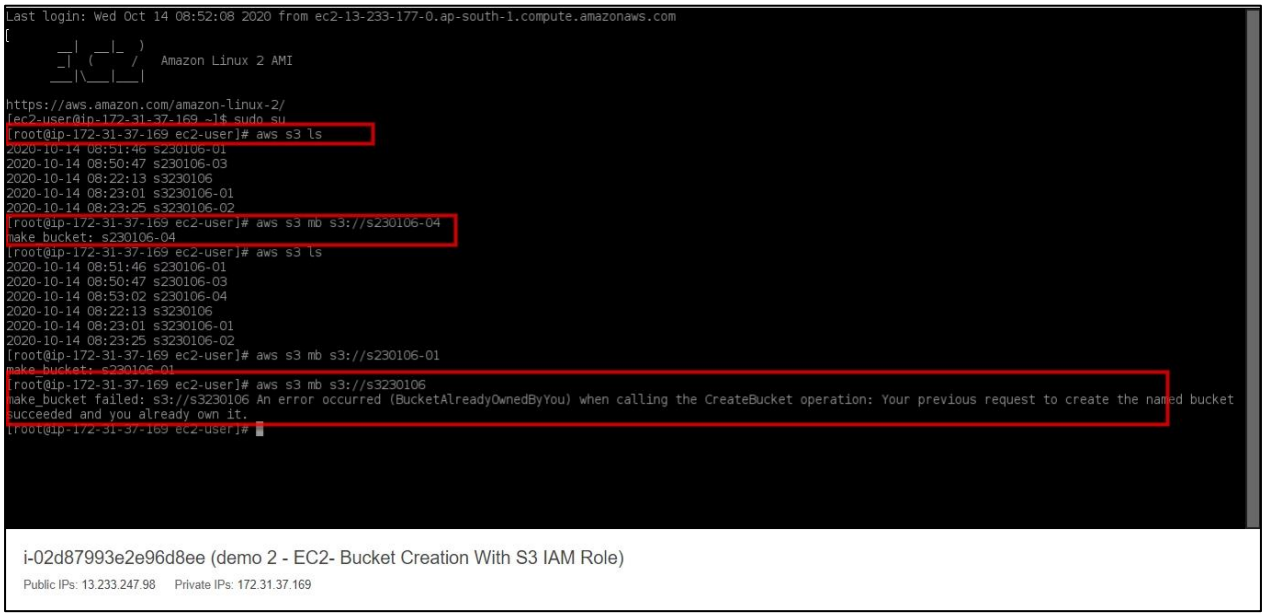
Note : No User Data added only role assigned in the above task.

Screen 2 : List of EC2 instance with description



Instance Name	Instance ID	Public IP
demo 2 – EC2- Bucket Creation with S3 IAM Role	i-02d8799e2e96d8ee	13.233.247.98

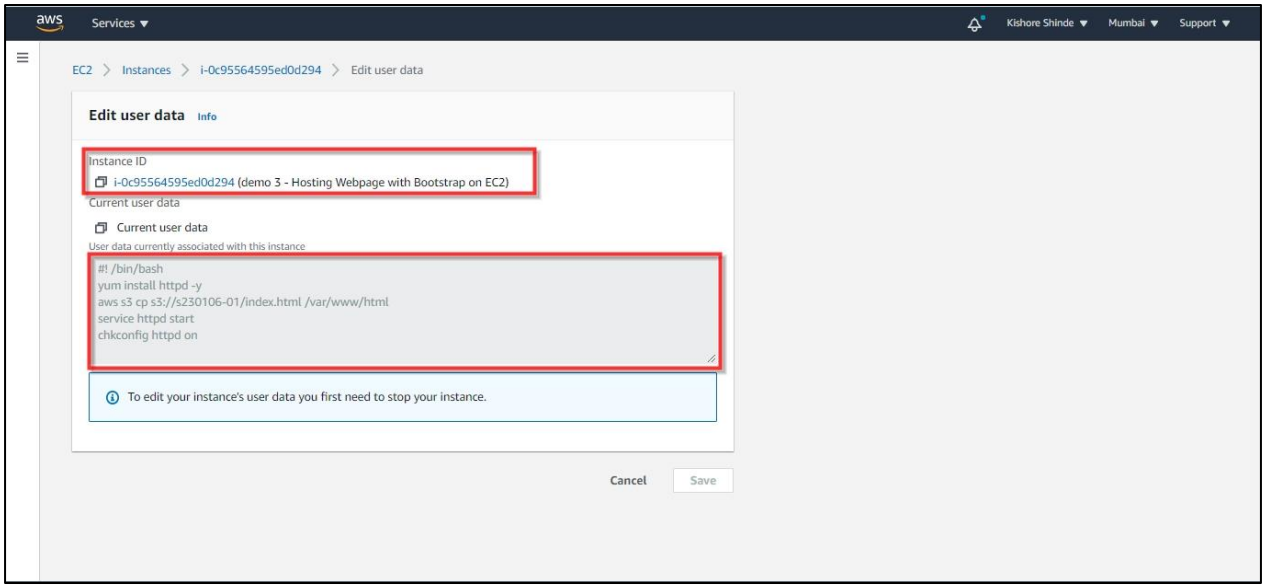
Screen 3 : 3 Commands executed



Sr. No.	Command	Description
1.	aws s3 ls	List of files & folders in s3 bucket
2.	aws s3 mb s3://s230106-04	Create a bucket name i.e. s230106-04
3.	aws s3 mb s3://s230106-01	Will create a bucket with the name mentioned or If already exists will throw an error “Bucket already owned by you”

Task 3 : Hosting a webpage using the bootstrap script on EC2

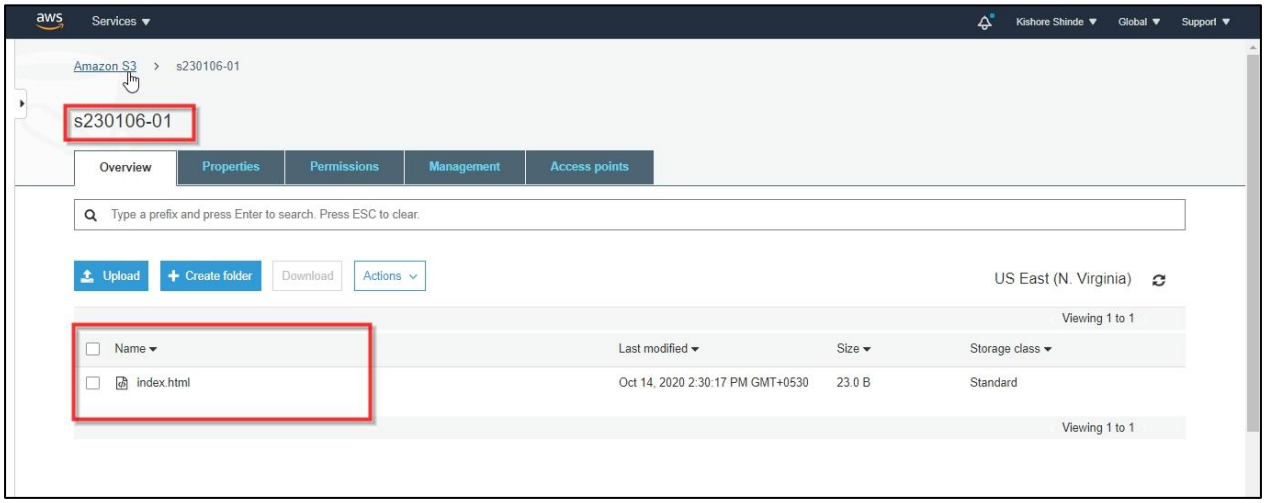
Screen 1 : Edit User Data



Script Added in User Data

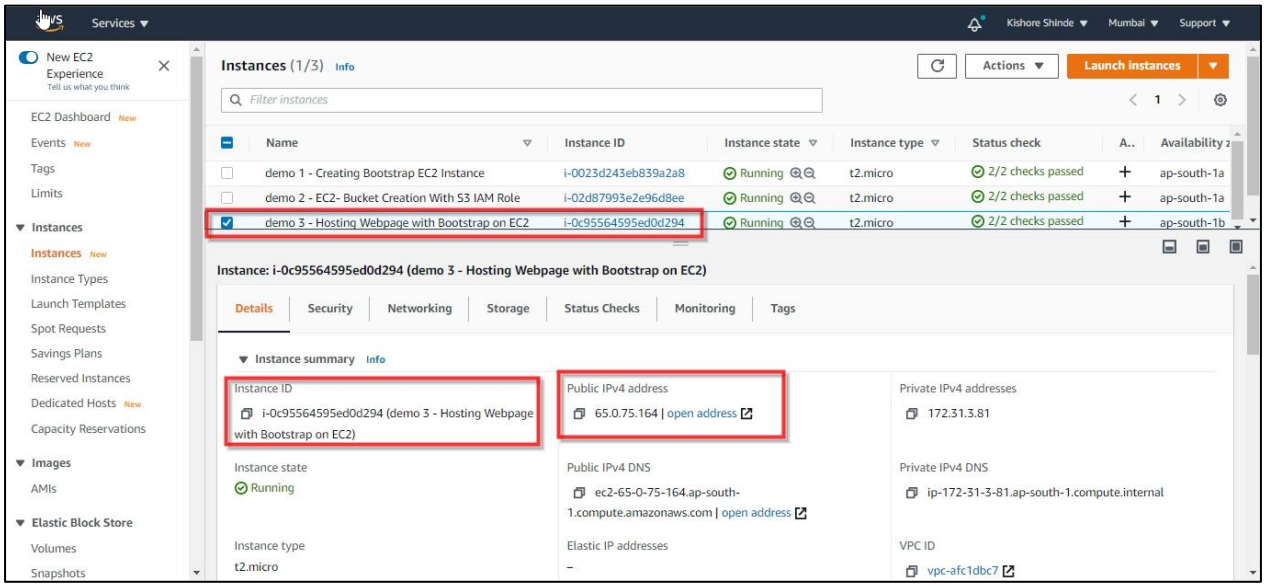
Sr. No.	Command	Description
1.	#! /bin/bash	Executes the script using the Bash shell
2.	yum -y install httpd	Installing Apache Software
3.	aws s3 cp s3://s230106-01/index.html /var/www/html	This command copies the index.html file from the given bucket to the mentioned path
4.	Service httpd start	Starts Apache Service
5.	chkconfig httpd on	Enables Apache Service

Screen 2 : s3 bucket containing index.html



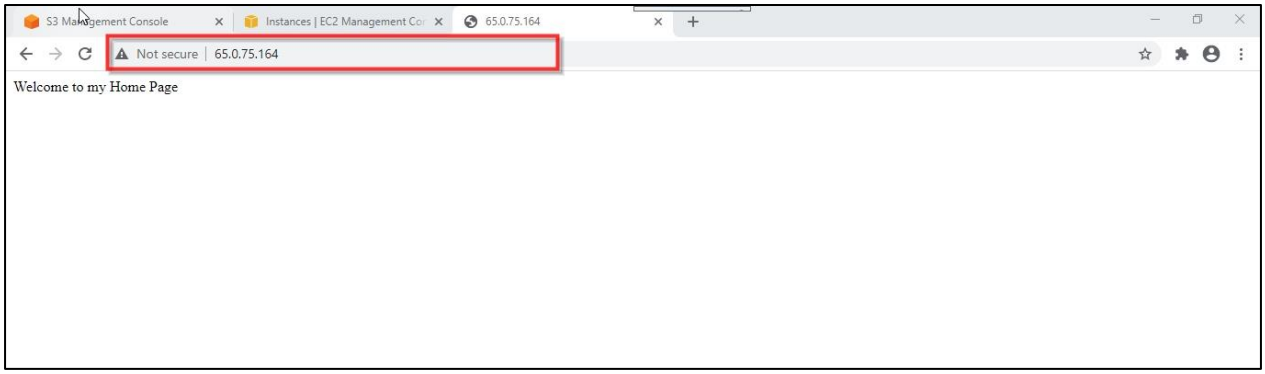
Bucket Name : s230106-01

Screen 3 : List of EC 2 Instance with Description



Instance Name	Instance ID	Public IP
demo 3 – Hosting Webpage with Bootstrap on EC2	i-0c95564595ed0d294	65.0.75.164

Screen 4 : Testing Public IP



Public IP : 65.0.75.164

Project 1 Ends Here

Advance AWS

AWS Project- 2 (Day -6)

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Project 02:

Creating and EC2 Instance in Custom VPC

Task 1 : Create VPC

Task 2 : Create an Internet Gateway

Task 3 : Create an Route Table

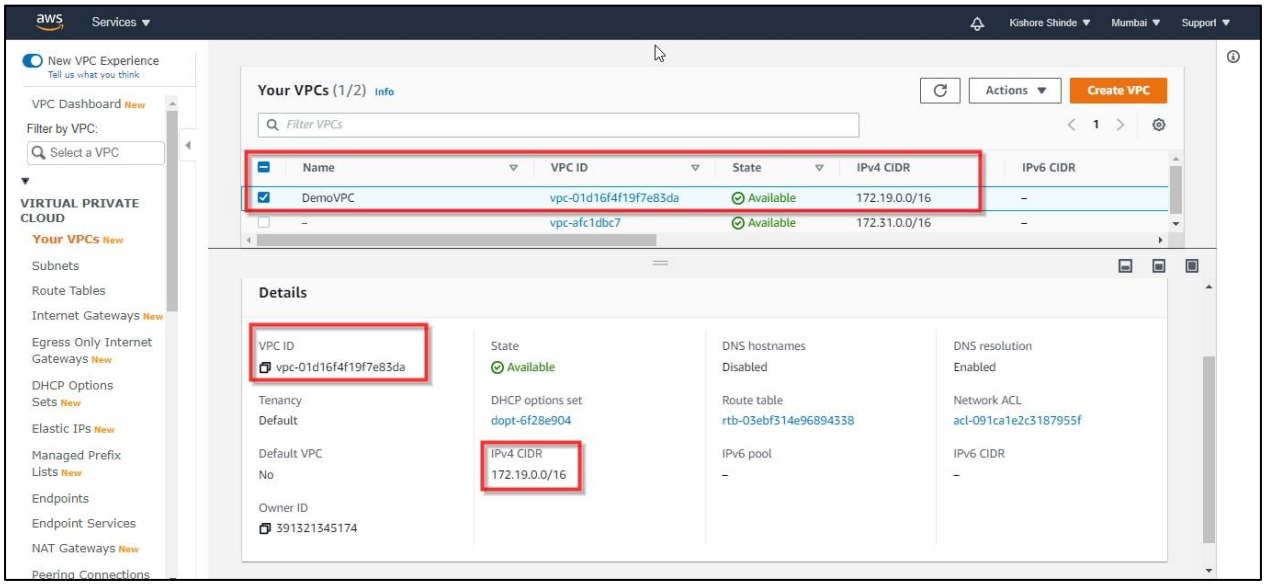
Task 4 : Create a Subnet

Task 5 : Create an EC2 in Custom VPC

Task 6 : Check ipconfig in VM command prompt

Task 1: Create VPC

Screenshot 1 : VPC Created

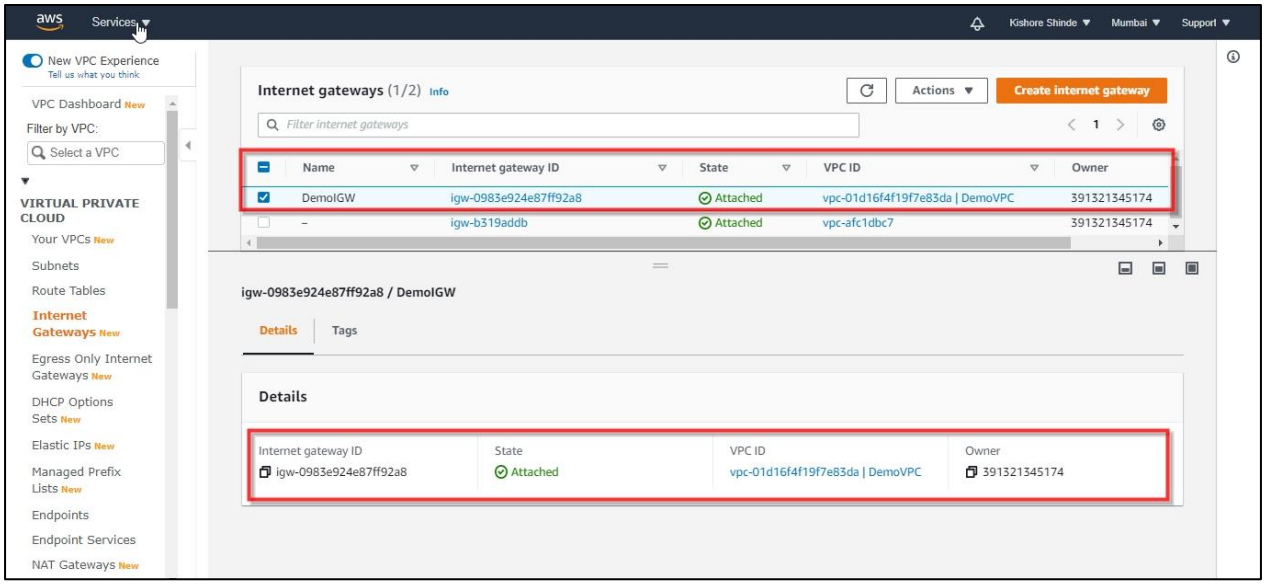


VPC Details:

Sr. No.	VPC Name	VPC ID	IPv4 CIDR
1.	DemoVPC	vpc-01d16f4f19f7e83da	172.19.0.0/16

Task 2 : Create an Internet Gateway

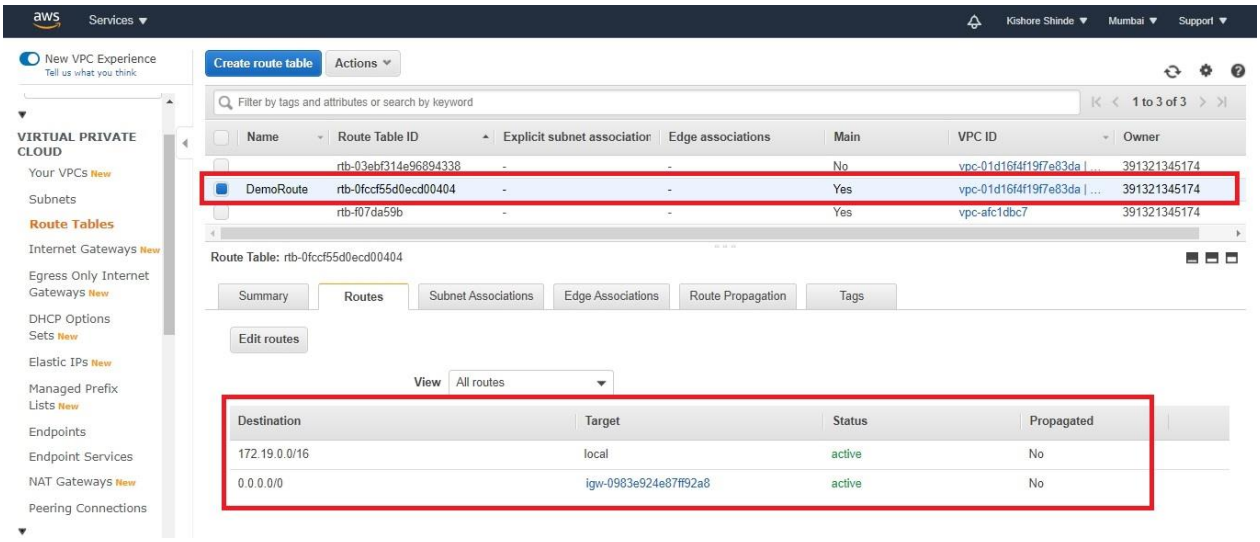
Screenshot 2 : Internet Gateway Associated



Internet Gateway Name	Internet Gateway ID	VPC ID	State
DemoIGW	igw-0983e924e87ff92a8	vpc-01d16f4f19f7e83da (DemoVPC)	Attached

Task 3 : Create Route Table

Screenshot 3 : Route Table with routes



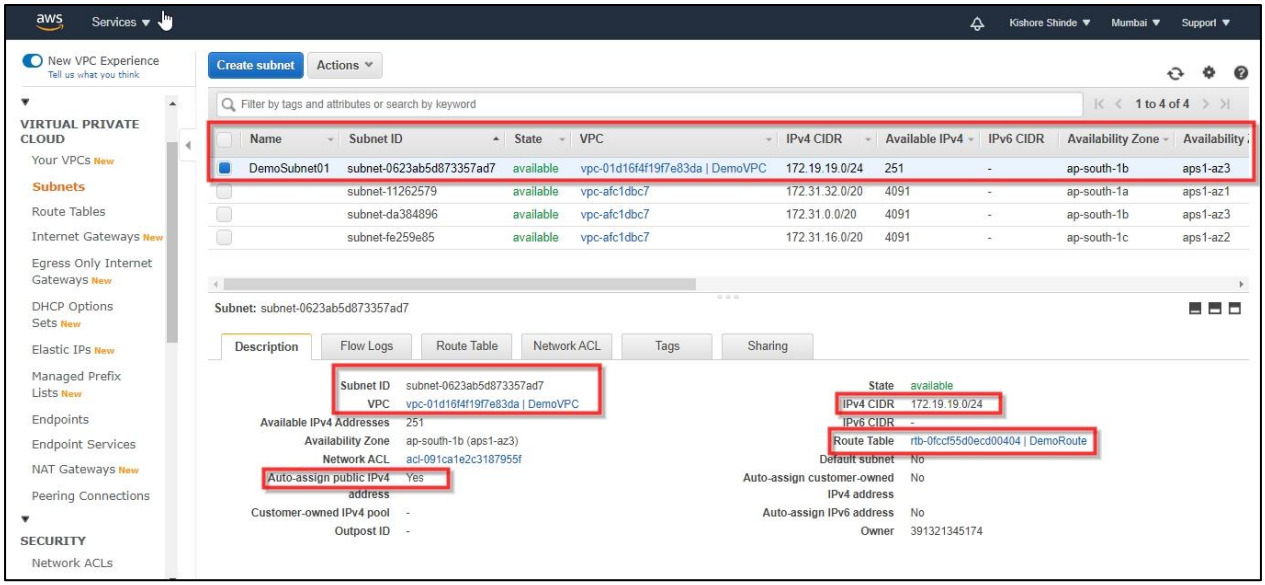
Route Table Name	Route Table ID	VPC ID	Main
DemoIGW	rtb-0fccf55d0ecd00404	vpc-01d16f4f19f7e83da (DemoVPC)	Yes

All Route Details :

Destination	Target	Status
172.19.0.0/16	Local	active
0.0.0.0/16	igw-0983e924e87ff92a8 (Internet Gateway ID)	active

Task 4 : Create a Subnet

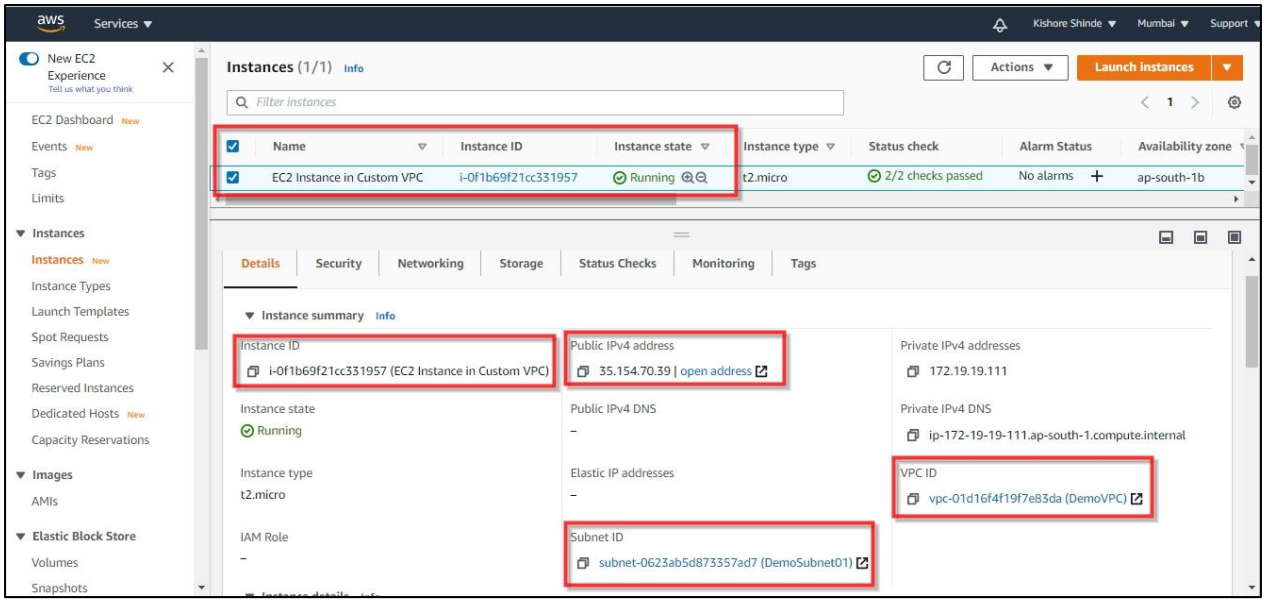
Screenshot 4 : Subnet Details



Subnet Name	Subnet ID	VPC ID	Route Table	IPV4 CIDR
DemoSubnet01	subnet-0623ab5d873357ad7	vpc-01d16f4f19f7e83da (DemoVPC)	rtb-0fccf55d0ecd00404 (DemoRoute)	172.19.19.0/24

Task 5 : Create an EC2 in Custom VPC

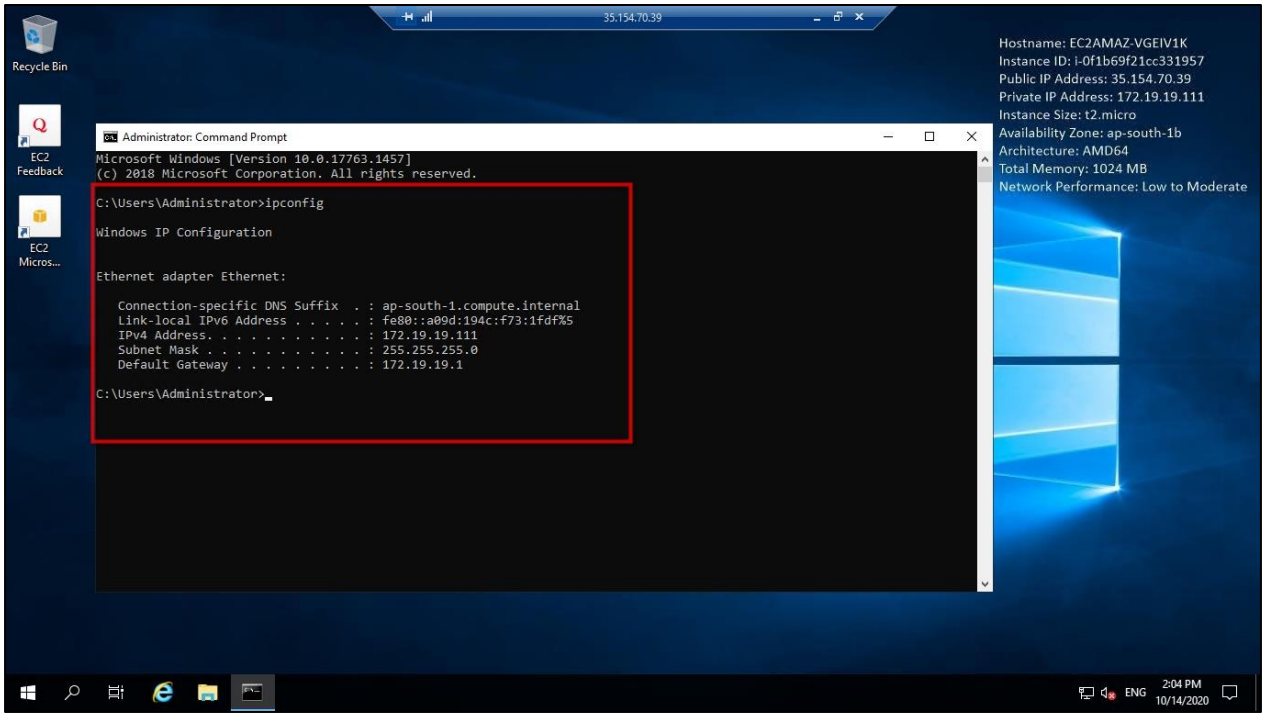
Sreenshot 5 : EC2 Dashboard



Instance Name	Instance ID	Subnet ID	VPC ID	Public IPV4 Details
EC2 Instance in Custom VPC	i-0f1b69f21cc331957	subnet-0623ab5d873357ad7 (DemoSubnet01)	vpc-01d16f4f19f7e83da (DemoVPC)	35.154.70.39

Task 6 : Check ipconfig in VM Command Prompt

Screenshot 6 : cmd prompt:ipconfig



Public IPv4 Address	Private IP Address	Default Gateway
172.19.19.111	172.19.19.111	172.19.19.1

Project 2 Ends here