

AWS Assignment

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Lab 1 - Introduction to AWS IAM

I will add all screenshots what I learnt in Lab 1 and I upcoming lab's what I am going to learn.

As I followed all step from **start lab** to **end lab**. Firstly, I explored pre created **IAM users and groups**. In this groups are created like **S3-support**, **EC2 -support** and **EC2-Admin**. I gave permission to all **users** with **groups**.

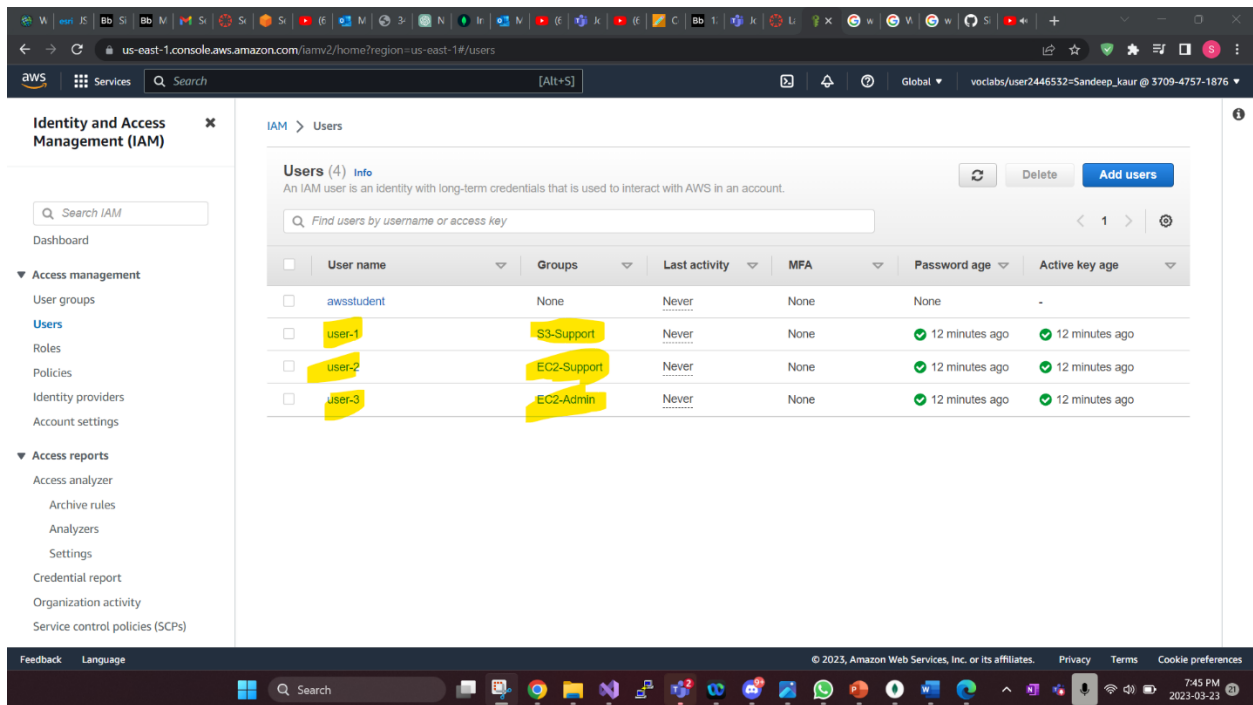


Figure 1 Every user has own groups

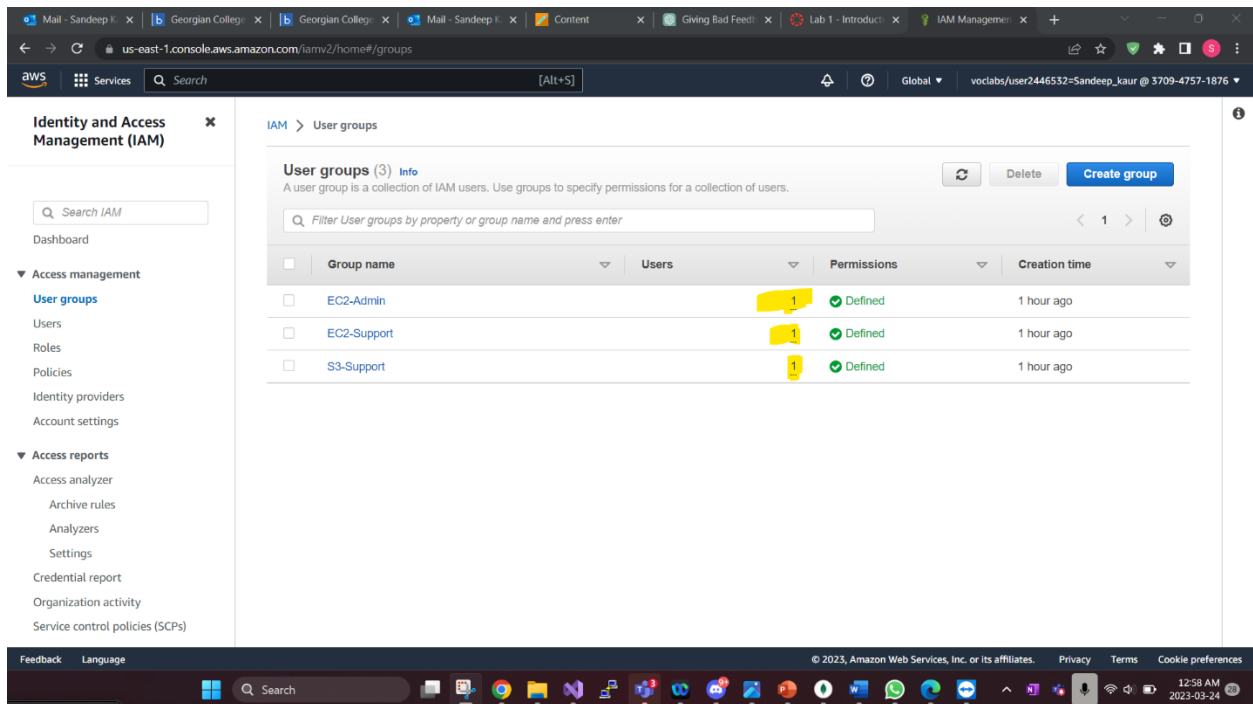


Figure 2 Every group name has one user.

I am going to show in picture. While doing all step I completed and the end of I took a screenshot of congratulation to show I have done this lab 1.

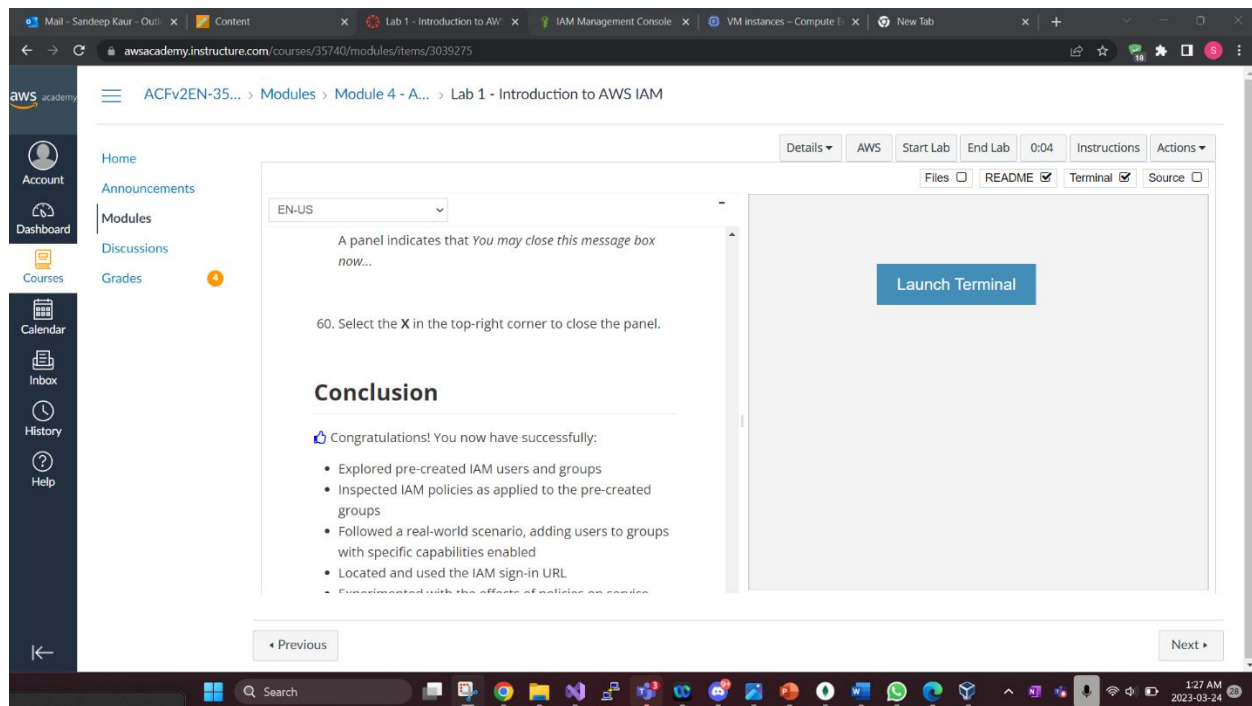


Figure 3 message of congratulation after completing first lab.

Lab 2 - Build your VPC and Launch a Web Server

I chose start lab. It took some time to get ready then I did start AWS Management Console. I chose VPC to open the **VPC console (Virtual private cloud console)**. I created **VPC** and doing it I made some settings of this. After completing all steps, I saw view **VPC**.

I **created subnet** while choosing create subnet from navigation panel. All steps were going so well chose Edit **subnet associations** then saved association.

In third step I created a **VPC security group** which acted as a **virtual firewall**. I chose security groups from left navigation pane. I created security group and then set configure. Moreover, in inbound rules I added some rules. I finally created **security groups**.

In task 4 I launch a Web Server Instance I chose **EC2 service** and launched instance and did configure. There was a user data where I gave code and Launched instance at the end, I saw all view instances. I got **2/2 checks passed** in status check for **web server 1**.

Apart from it, I **checked Web server 1** where I got public **IPv4 DNS value** in the Details tab and copied it. I pasted it in another tab where I got **AWS logo and instance meta-data values**.

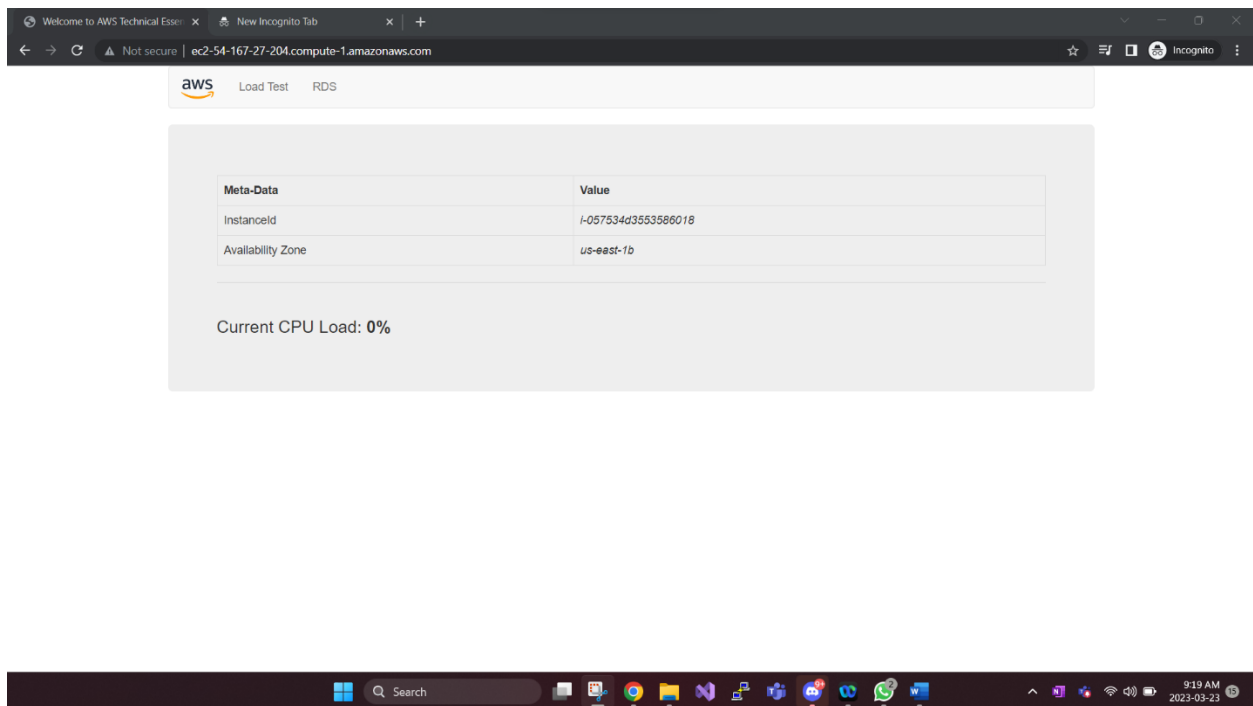


Figure 4 AWS logo and instance meta-data values.

I completed this lab and showed all screenshots in this file.

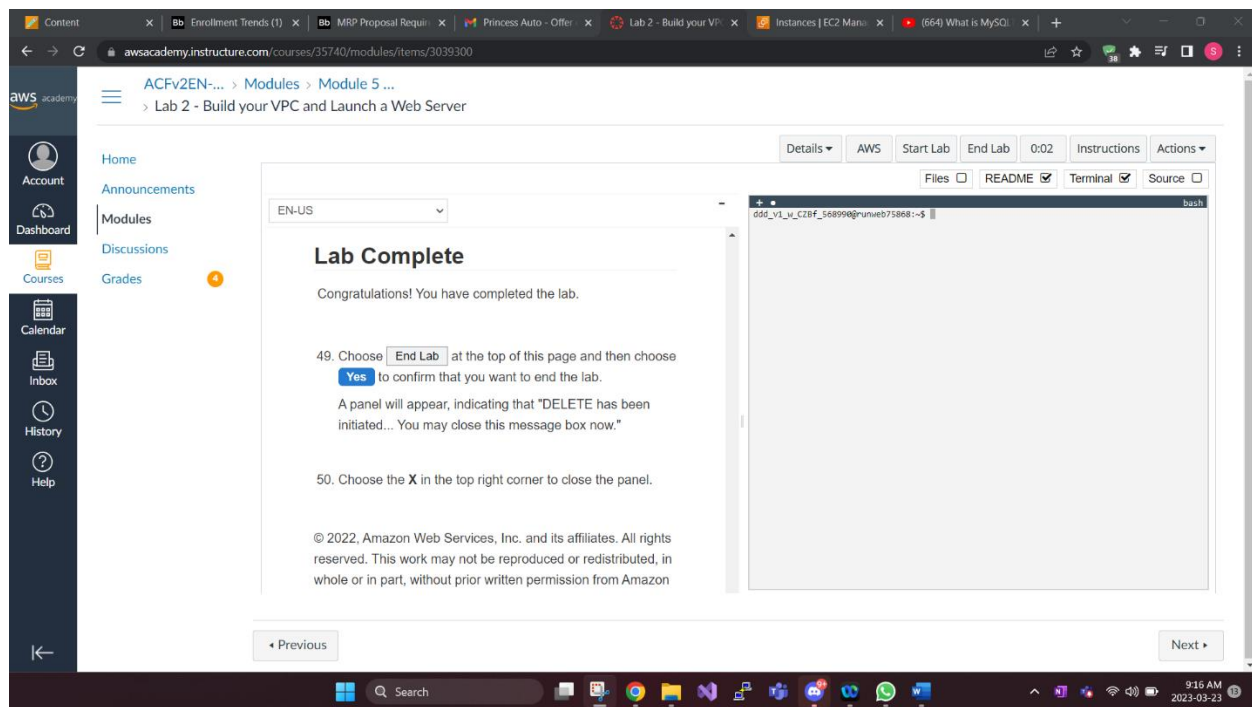


Figure 5 End Lab

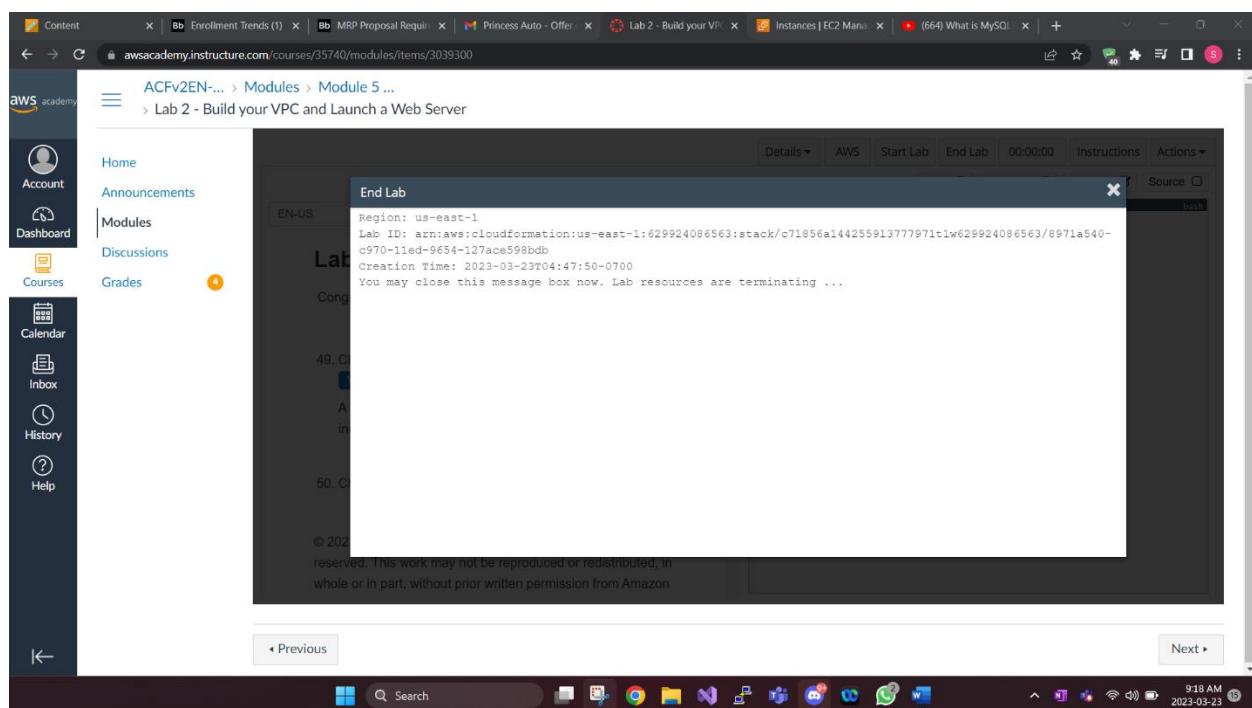


Figure 6 end lab got terminating with time

Lab 3 - Introduction to Amazon EC2

As according to previous labs this lab started in same way. Firstly, I started the lab and took some time to get lab status ready. I chose AWS management console.

In task 1 launched Amazon EC2 instance. In service I chose ec2 where in right side ec2 console managed resources in the N. Virginia. I launched the instance where I kept something by default and did configure. For example, name and tags > application and OS Images (Amazon Machine Image)>>Quick start> instance type> key pair (login)> network settings> configure storage> Advanced details> launch the instance> after doing all steps my instance state was running and status checks were passed.

I showed in image where I attached congratulation having successfully launched first Amazon EC2 instance.

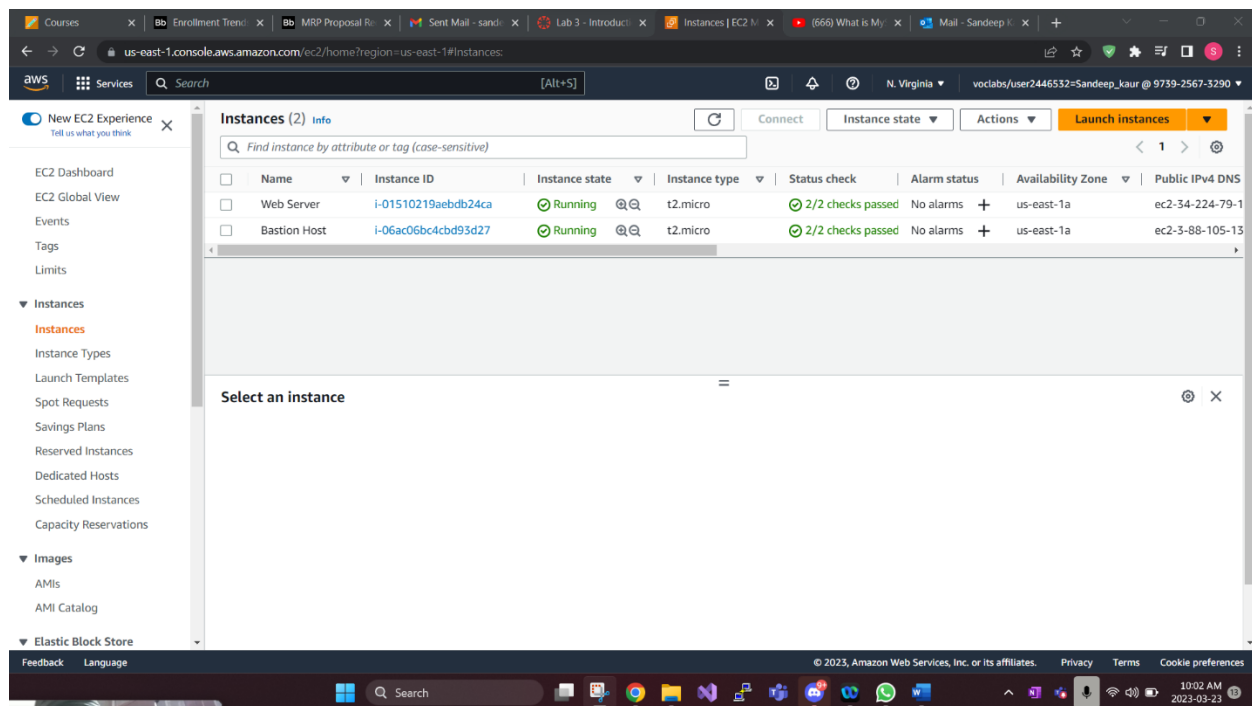


Figure 7 instance running and got 2/2 checks passed.

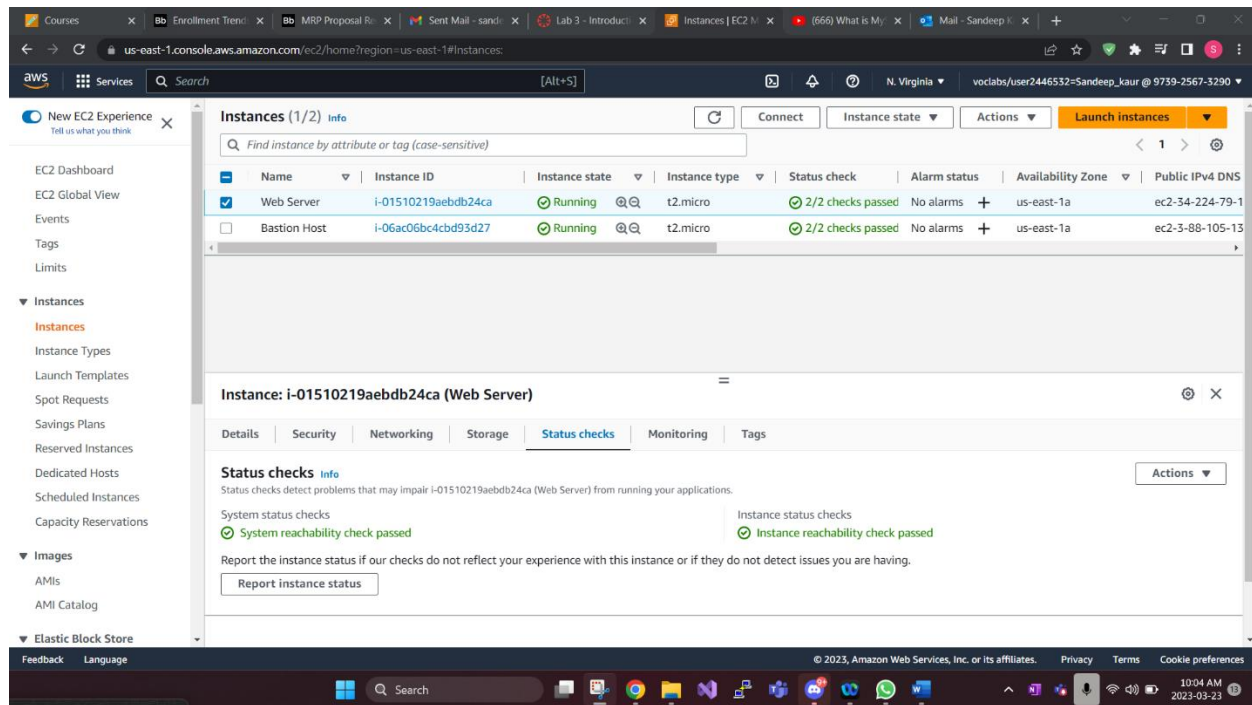


Figure 8 Status checks and showed in this image

In task 2 I monitored instance to chose status checks tab. After all steps I got HTTP package was installed from the user data that which I added to create the instance. I did troubleshoot.

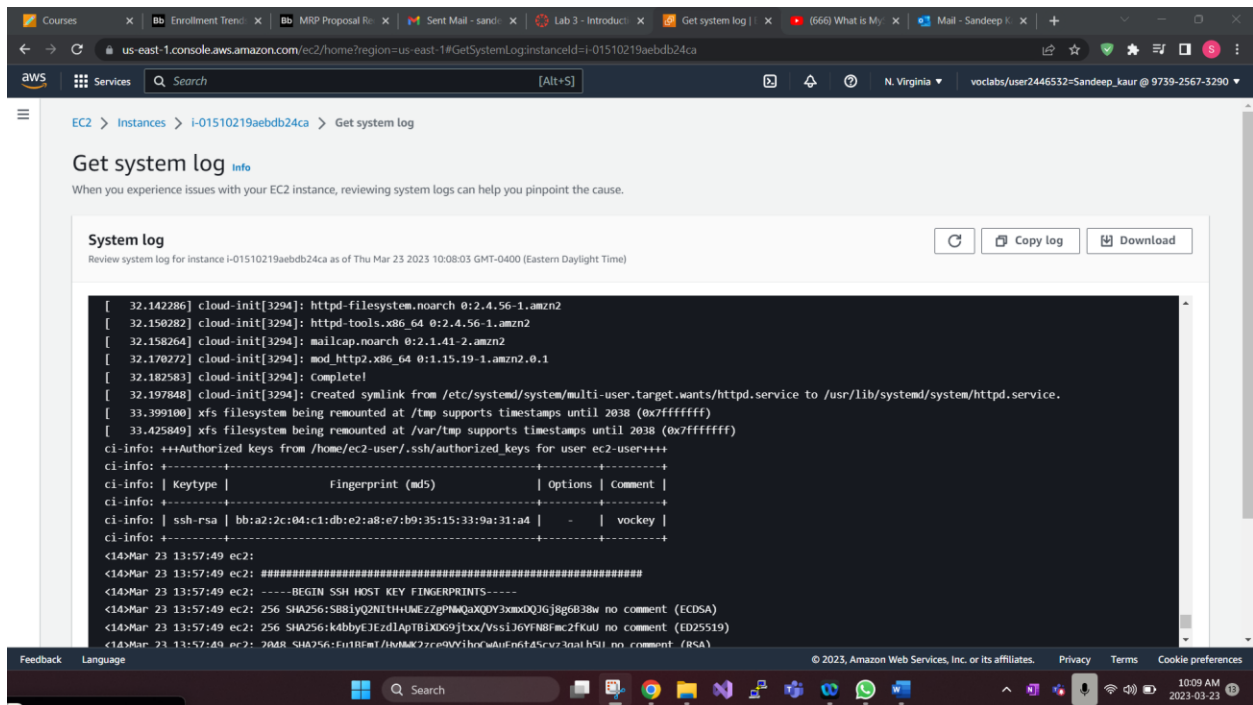


Figure 9 HTTP Package

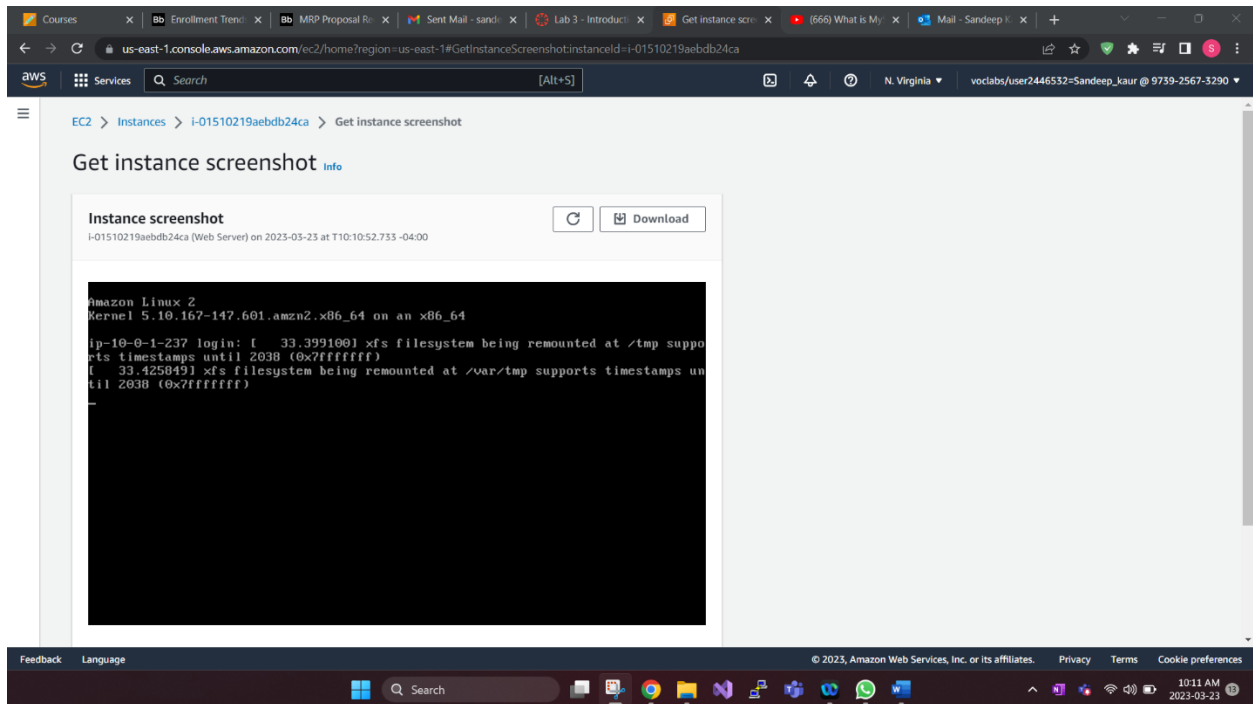


Figure 10 troubleshooting

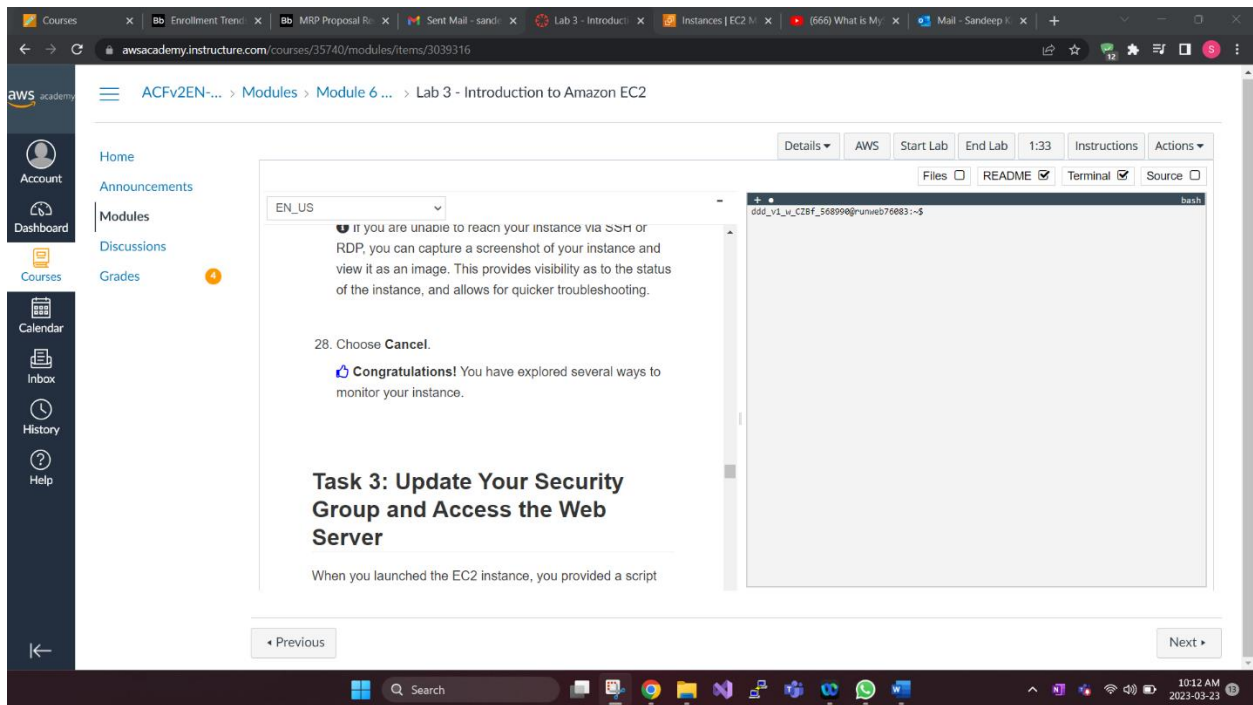
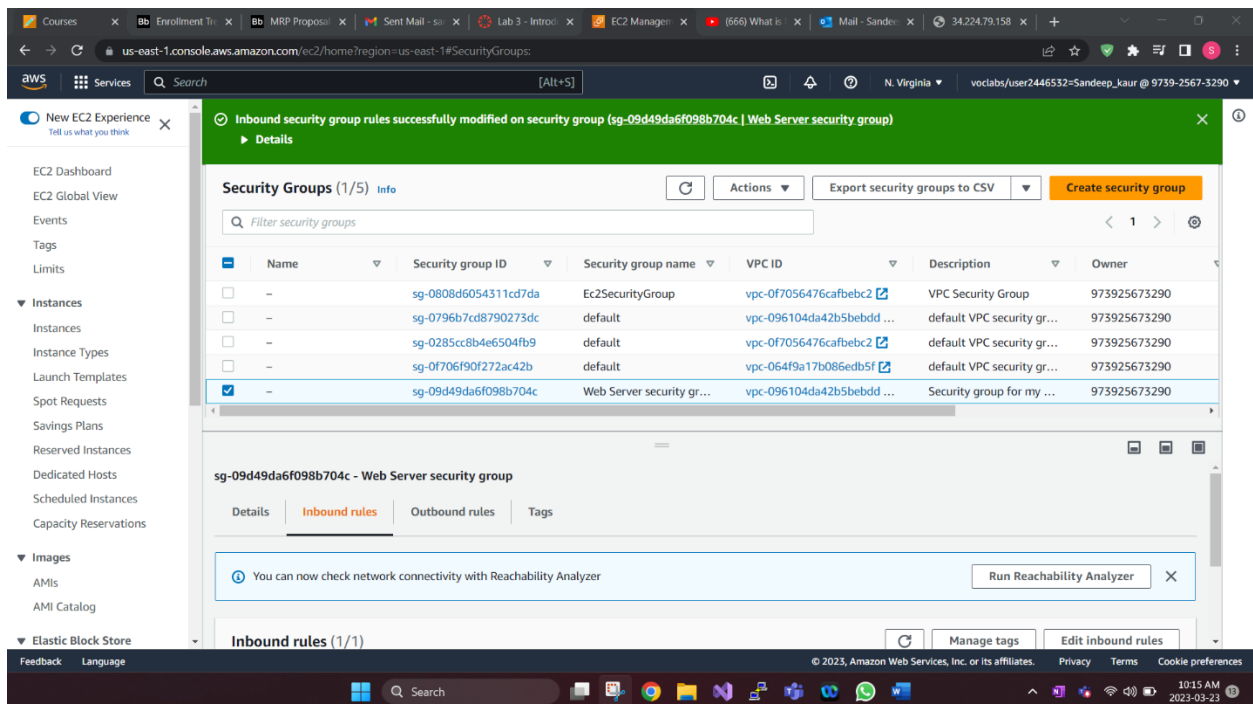
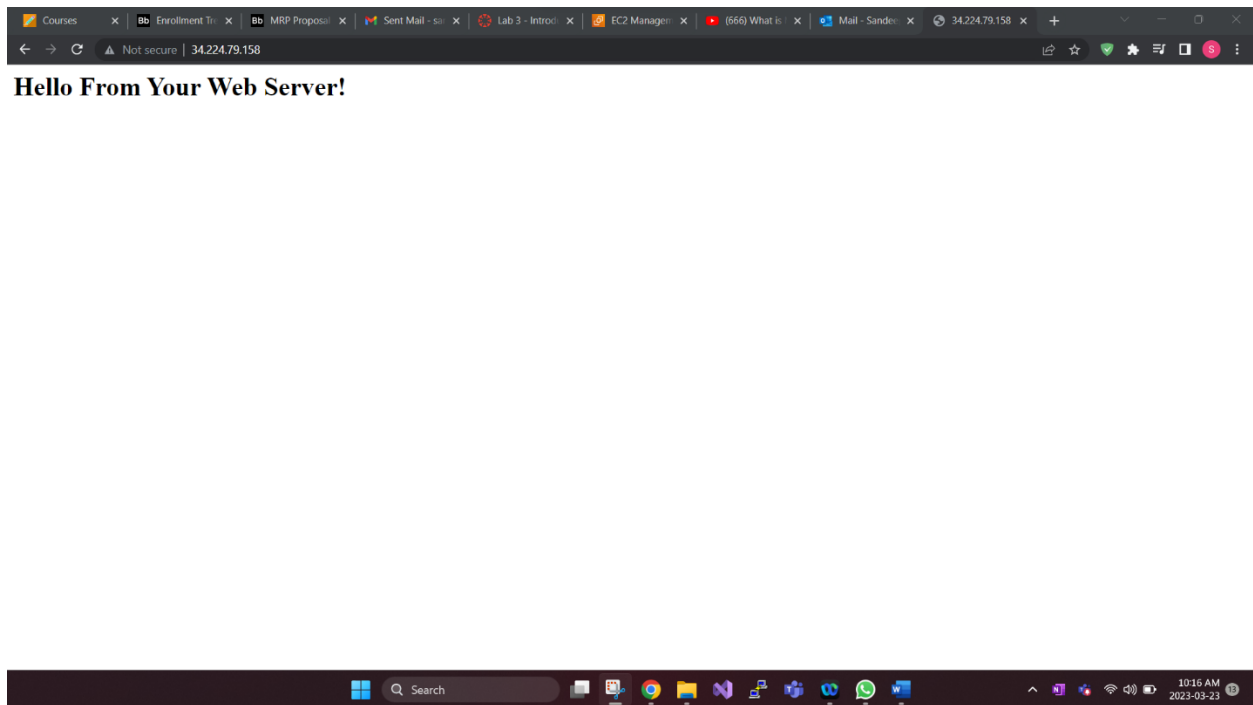


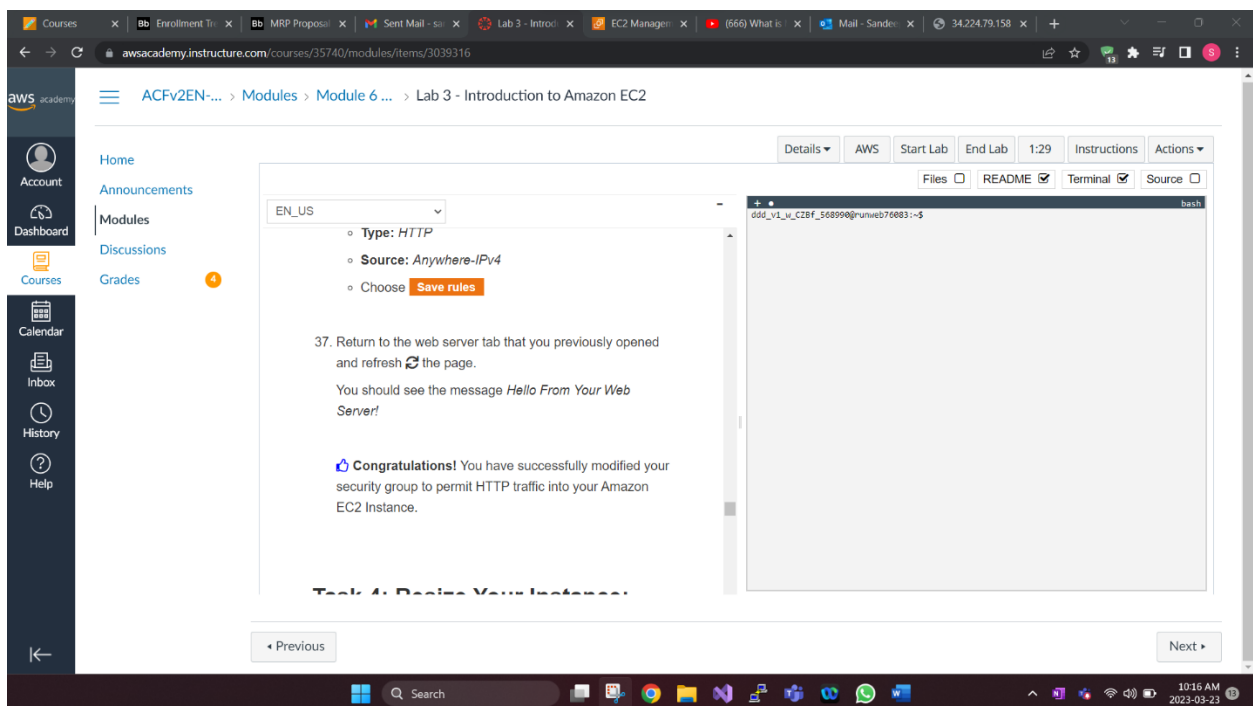
Figure 11 task 2 completed of lab 3

In task 3 I updated security group and access the web server. In this I returned to the Ec2 console there completing all steps I got Hello From your web server!





I added congratulation image which I got while doing my lab.



In task 4 I did resize of my instance of web server. There was some steps which was important to follow them I just chose instance type t2.small and I resize the EBS volume of my instance. It was showing 8gb by default and changed it into 10.

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances

Instances (2) info

Find instance by attribute or tag (case-sensitive)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	Web Server	i-01510219aebdb24ca	Running	t2.small	2/2 checks passed	No alarms	us-east-1a	ec2-3-94-103-24
<input type="checkbox"/>	Bastion Host	i-06ac06bc4cbd93d27	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-88-105-13

Select an instance

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances

Instances (2) info

Find instance by attribute or tag (case-sensitive)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	Web Server	i-01510219aebdb24ca	Shutting-down	t2.small	-	No alarms	us-east-1a	ec2-3-94-103-24
<input type="checkbox"/>	Bastion Host	i-06ac06bc4cbd93d27	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-88-105-13

Select an instance

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In task 5 I explored ec2 limits. I went to navigation panel to choose limits in all limits I chose running instance. In next step I did termination protection and completed my lab 3.

