

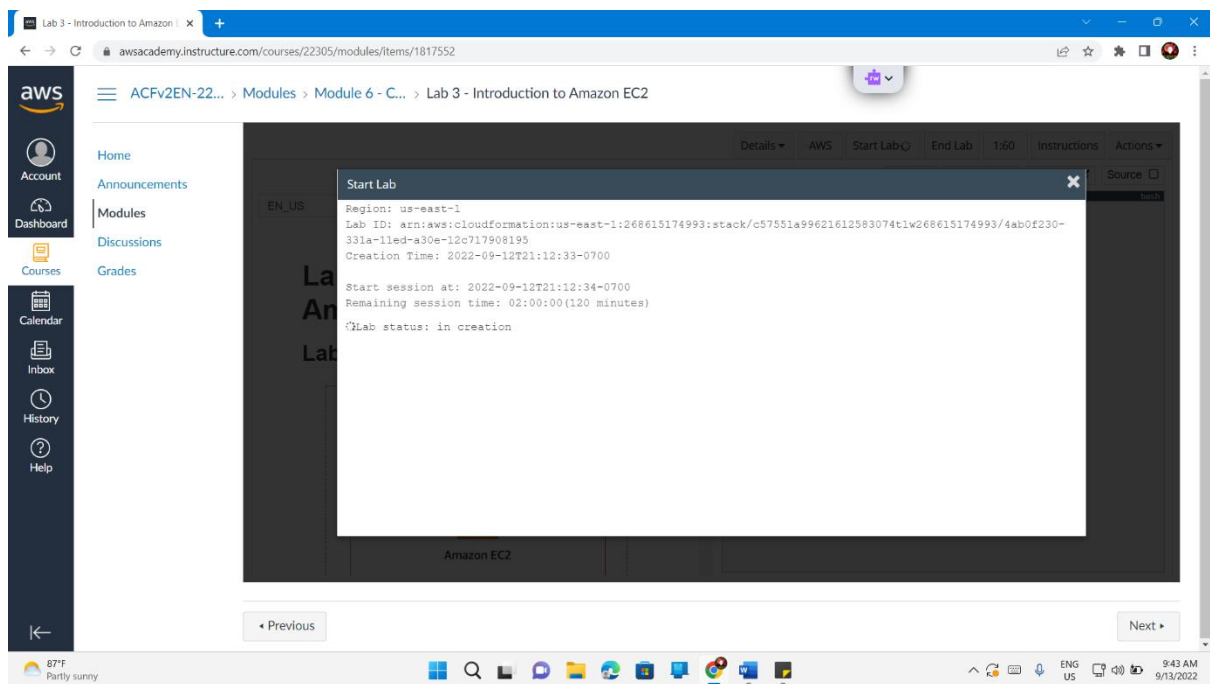
Launching Amazon EC2 Instances

Aim –

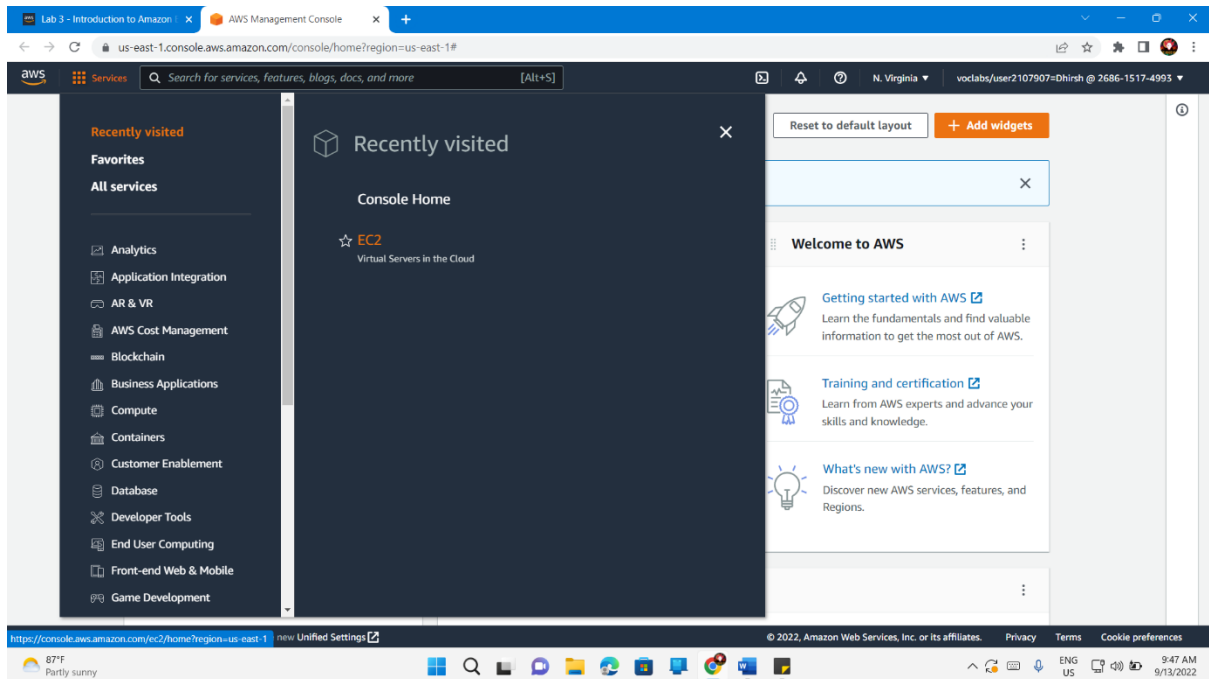
Outcome –

Procedure –

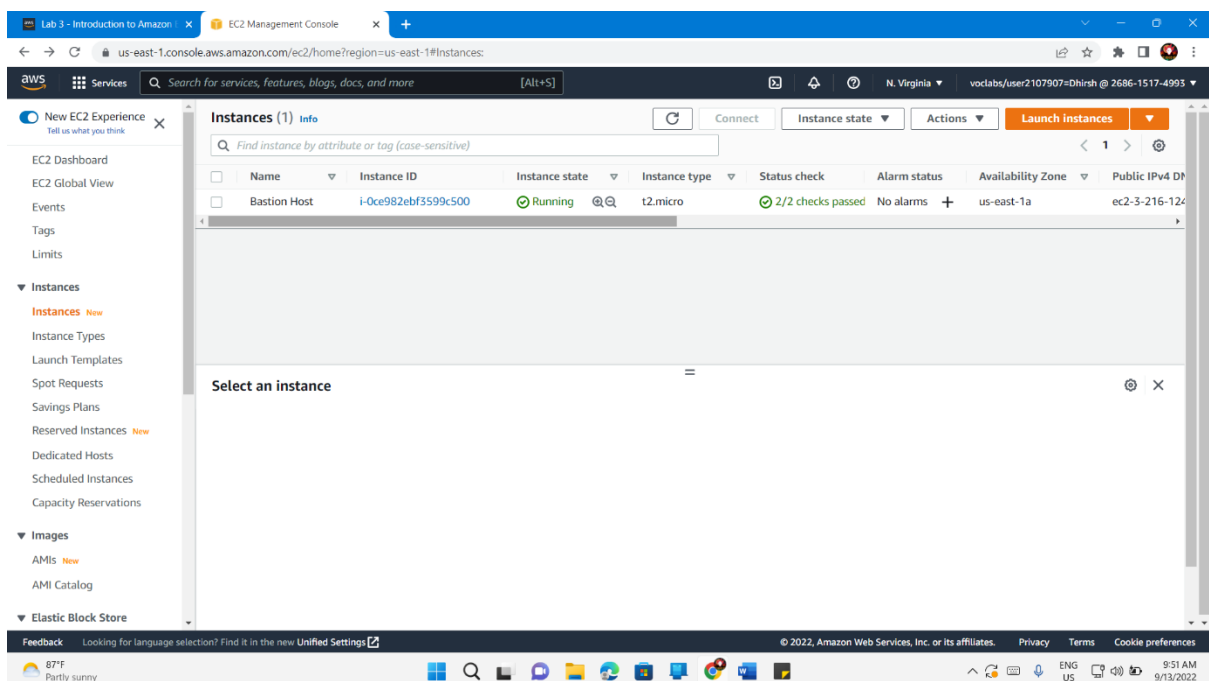
1) Start Lab – Lab Status is Ready – AWS - AWS Management Console in a new tab.



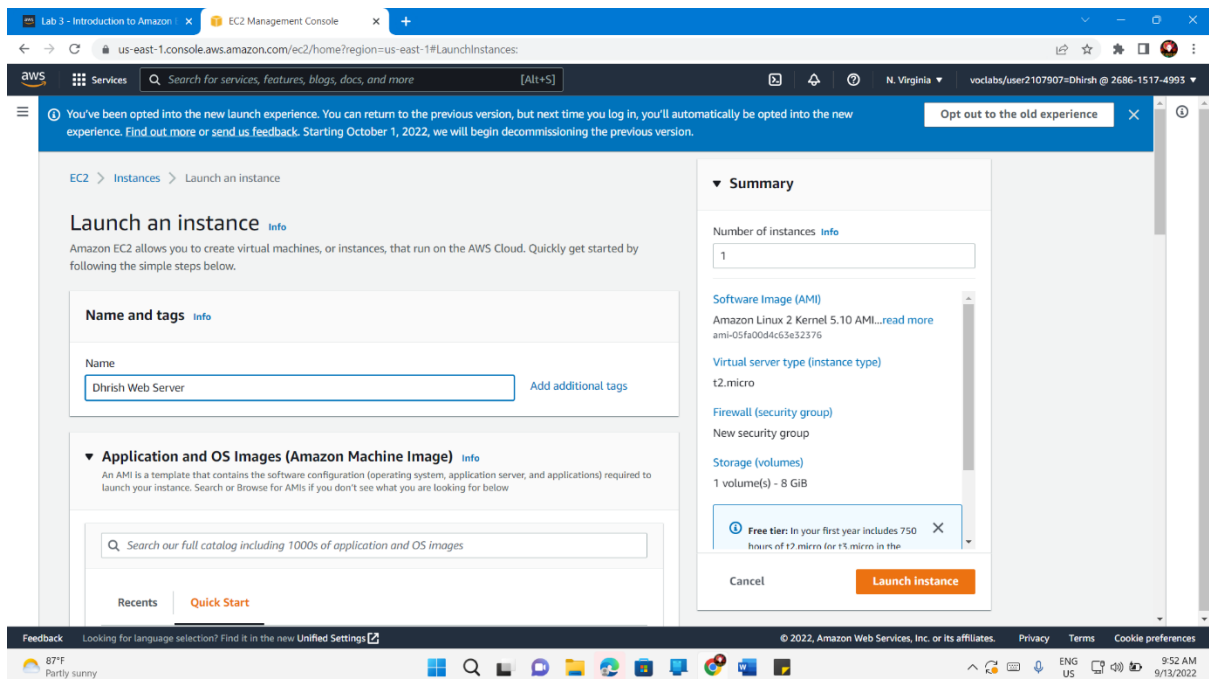
2) AWS Management Console – Services – Compute – EC2



3) Instances – Launch Instances

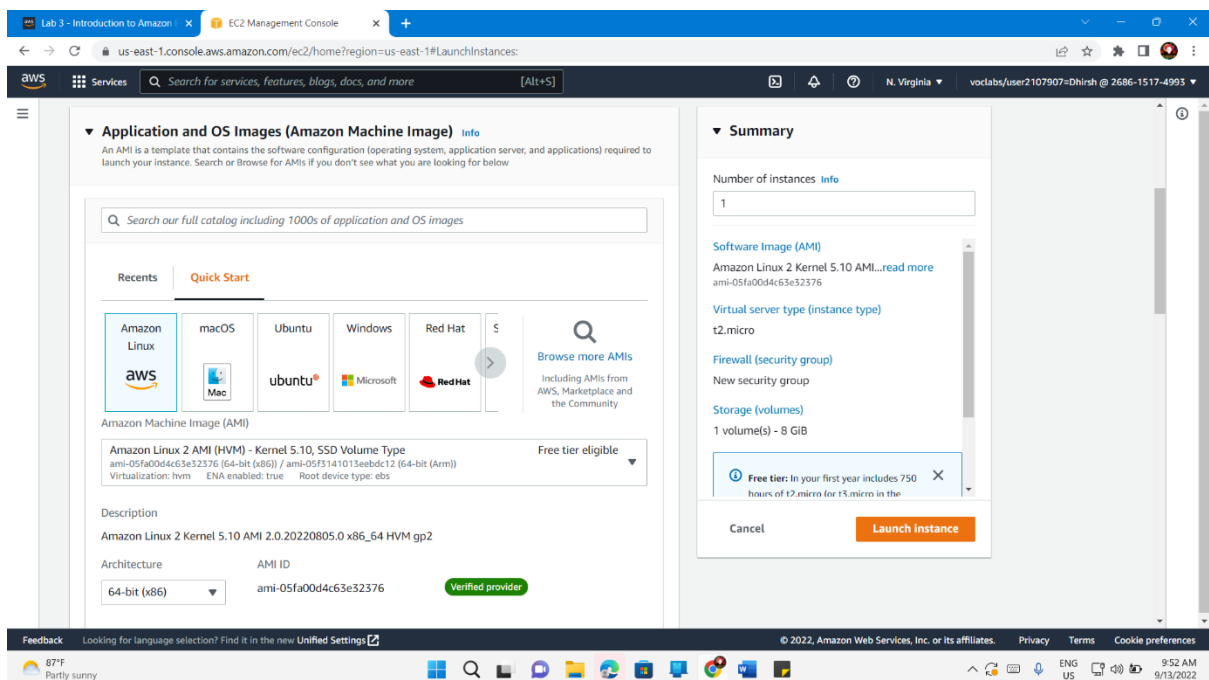


4) Name and Tags – Instance name – Dhrish Web Server



5) Amazon Machine language – Quick Start – Amazon Linux

Default Amazon Linux AMI (HVM)



5) Instance type – t2.micro (has 1 virtual CPU and 1 GiB of memory).

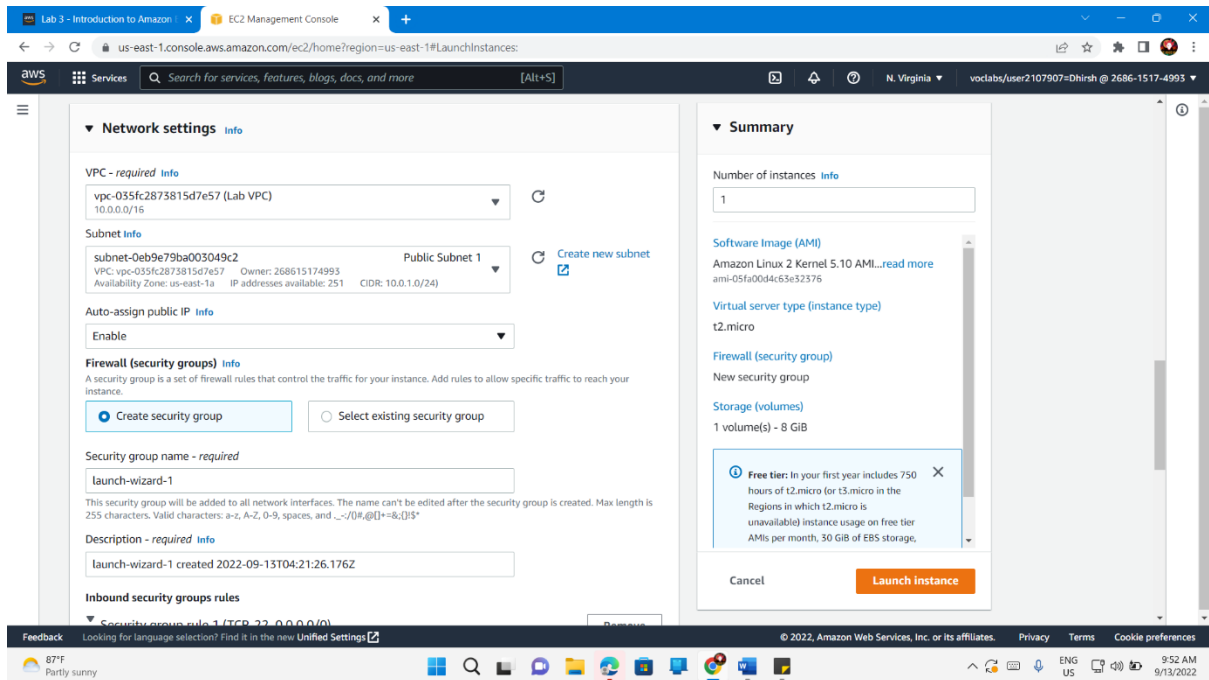
The screenshot shows the AWS Management Console 'Launch instance' wizard. The 'Instance type' section is selected, showing 't2.micro' as the chosen instance type, which is 'Free tier eligible'. The 'Key pair (login)' section shows a dropdown menu with 'Select' and a 'Create new key pair' button. The 'Network settings' section shows 'vpc-04b27d302672c3d36' as the network, 'No preference' as the subnet, and 'Auto-assign public IP' as the setting. The 'Summary' section on the right shows 'Number of instances' as 1, 'Software Image (AMI)' as 'Amazon Linux 2 Kernel 5.10 AMI', 'Virtual server type (instance type)' as 't2.micro', 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '1 volume(s) - 8 GiB'. A 'Free tier' notification is visible, stating 'In your first year includes 750 hours of t2.micro for t3.micro in the'. The 'Launch instance' button is highlighted in orange.

6) Key pair name – Proceed without key pair (Default Value)

The screenshot shows the AWS Management Console 'Launch instance' wizard with the 'Key pair (login)' section expanded. The 'Key pair name - required' dropdown menu is set to 'Proceed without a key pair (Not recommended)' with a 'Default value' label. The 'Network settings' section is also visible, showing the same network and subnet settings as in the previous screenshot. The 'Summary' section on the right is identical to the previous screenshot. The 'Free tier' notification is also present. The 'Launch instance' button is highlighted in orange.

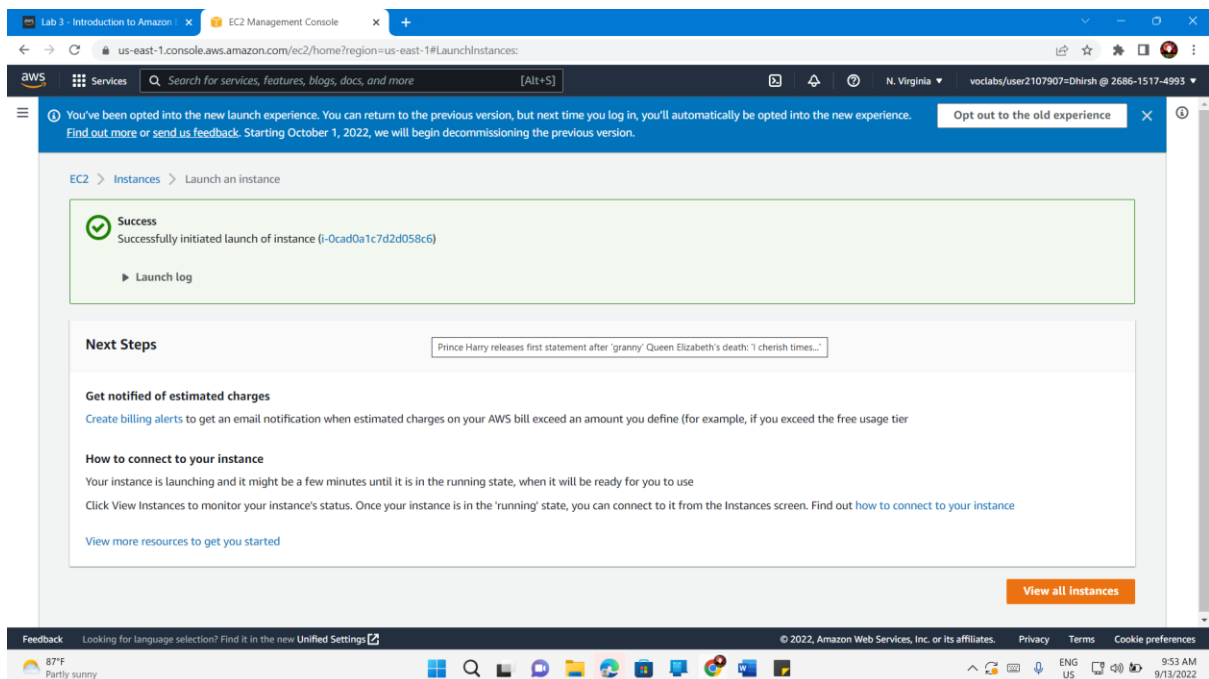
7) VPC – Lab VPC

Subnet – Default (Public Subnet 1)



8) Launch Instance

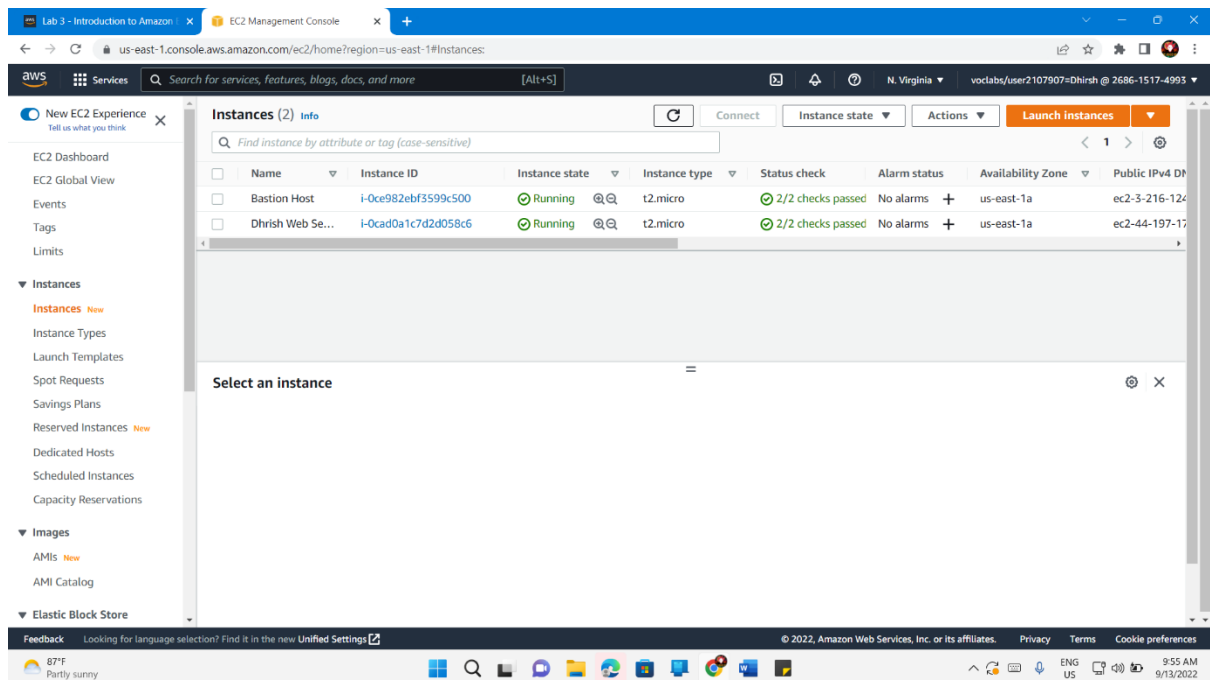
Successfully initiated launch of instance



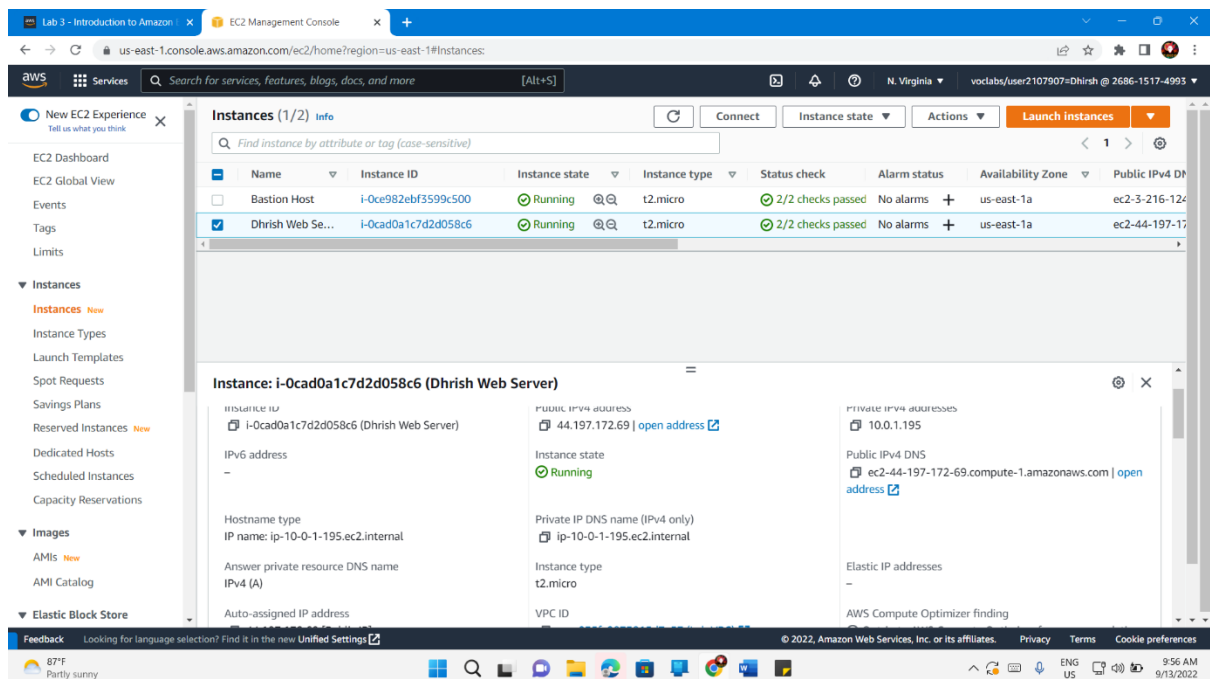
9) View all Instances – Dhrish Web Server Appears

Instance State – Running

Status Check – 2/2 Checks Passed



10) Select the Instance



10) Instance State – Stop Instance

The screenshot shows the AWS Management Console 'Instances' page. The 'Dhrish Web Server' instance (i-0cad0a1c7d2d058c6) is selected. The 'Instance state' dropdown menu is open, showing options: Stop instance, Start instance, Reboot instance, Hibernate instance, and Terminate instance. The 'Stop instance' option is highlighted.

| Name | Instance ID | Instance state | Instance type | Status |
|------------------|---------------------|----------------|---------------|--------|
| Bastion Host | i-0ce982ebf3599c500 | Running | t2.micro | 2 |
| Dhrish Web Se... | i-0cad0a1c7d2d058c6 | Running | t2.micro | 2 |

Instance: i-0cad0a1c7d2d058c6 (Dhrish Web Server)

Instance ID: i-0cad0a1c7d2d058c6 (Dhrish Web Server)

Public IPv4 address: 44.197.172.69 | [open address](#)

Instance state: **Running**

Private IP DNS name (IPv4 only): ip-10-0-1-195.ec2.internal

Instance type: t2.micro

VPC ID: vpc-44-197-172-69

Private IP DNS name (IPv4 only): ip-10-0-1-195.ec2.internal

Public IPv4 DNS: ec2-44-197-172-69.compute-1.amazonaws.com | [open address](#)

Elastic IP addresses: -

AWS Compute Optimizer finding: -

11) Stop

The screenshot shows the AWS Management Console 'Instances' page. The 'Dhrish Web Server' instance (i-0cad0a1c7d2d058c6) is selected. A 'Stop instance?' dialog box is displayed, asking for confirmation to stop the instance. The dialog box shows the instance ID and name, and provides 'Cancel' and 'Stop' buttons.

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 Dn |
|------------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|----------------|
| Bastion Host | i-0ce982ebf3599c500 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a | ec2-3-216-124 |
| Dhrish Web Se... | i-0cad0a1c7d2d058c6 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a | ec2-44-197-172 |

Stop instance?

Instance IDs

☒ i-0cad0a1c7d2d058c6 (Dhrish Web Server)

To confirm that you want to stop the instance, choose the Stop button below.

Cancel Stop

12) Successfully Stopped

The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'Instances' page displays a list of instances. The instance 'Dhrish Web Server' (ID: i-0cad0a1c7d2d058c6) is highlighted, and its state is 'Stopping'. A green banner at the top of the console indicates 'Successfully stopped i-0cad0a1c7d2d058c6'. The instance details panel shows the following information:

- Instance ID:** i-0cad0a1c7d2d058c6 (Dhrish Web Server)
- Instance type:** t2.micro
- Instance state:** Stopping
- Public IPv4 address:** 44.197.172.69
- Private IPv4 address:** 10.0.1.195
- Public IPv4 DNS:** ec2-44-197-172-69.compute-1.amazonaws.com
- Private IP DNS name (IPv4 only):** ip-10-0-1-195.ec2.internal
- Instance type:** t2.micro
- VPC ID:** vpc-035fc2873815d7e57 (Lab VPC)

13) Instance State – Terminate Instance

The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'Instances' page displays a list of instances. The instance 'Dhrish Web Server' (ID: i-0cad0a1c7d2d058c6) is highlighted, and its state is 'Stopped'. The 'Actions' dropdown menu is open, showing options like 'Stop instance', 'Start instance', 'Reboot instance', 'Hibernate instance', and 'Terminate instance'. The instance details panel shows the following information:

- Instance ID:** i-0cad0a1c7d2d058c6 (Dhrish Web Server)
- Instance type:** t2.micro
- Instance state:** Stopped
- Public IPv4 address:** 44.197.172.69
- Private IPv4 address:** 10.0.1.195
- Public IPv4 DNS:** ec2-44-197-172-69.compute-1.amazonaws.com
- Private IP DNS name (IPv4 only):** ip-10-0-1-195.ec2.internal
- Instance type:** t2.micro
- VPC ID:** vpc-035fc2873815d7e57 (Lab VPC)

14) Terminate Instance - Terminate

The screenshot shows the AWS Management Console interface. A modal dialog box titled "Terminate instance?" is centered on the screen. The dialog contains a warning icon and text: "On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost." Below this, it asks "Are you sure you want to terminate these instances?" and lists "I-0cad0a1c7d2d058c6 (Dhrish Web Server)". It also states: "To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone." There are "Cancel" and "Terminate" buttons at the bottom of the dialog.

The background shows the "Instances (1/2)" page. The table lists the following instances:

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DP |
|------------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|----------------|
| Bastion Host | I-0ce982ebf3599c500 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a | ec2-3-216-124 |
| Dhrish Web Se... | I-0cad0a1c7d2d058c6 | Shutting-down | t2.micro | 2/2 checks passed | No alarms | us-east-1a | - |

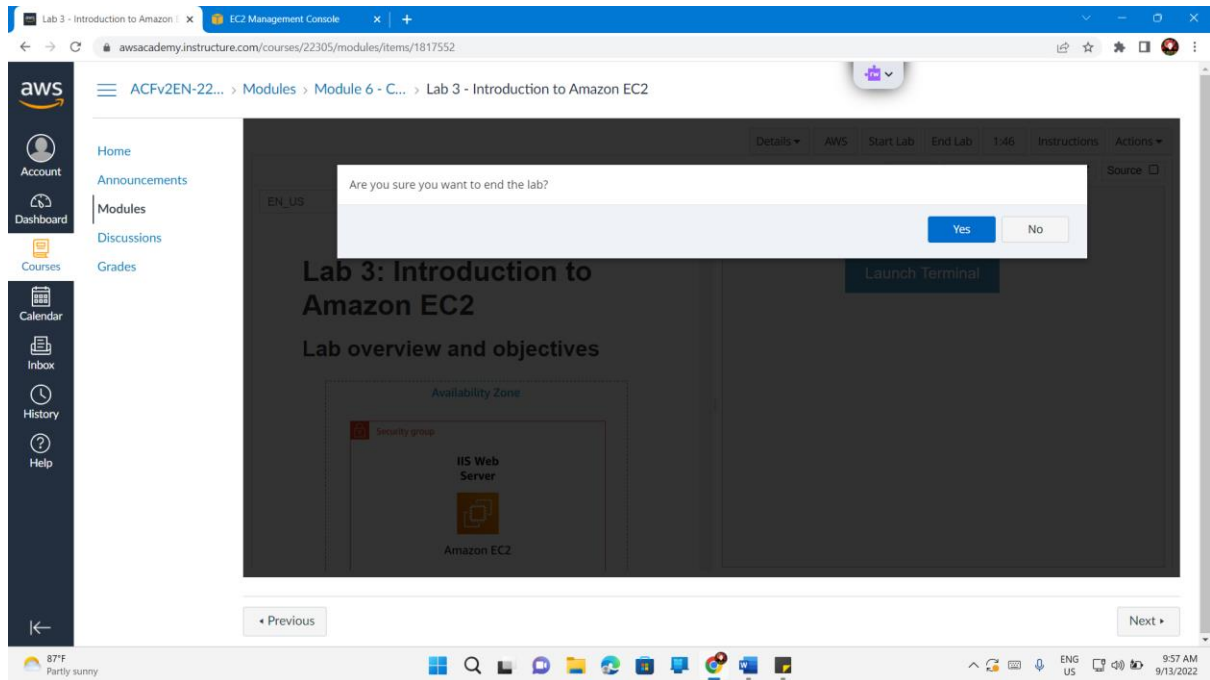
15) Terminated

The screenshot shows the AWS Management Console interface. The "Instances (1/2)" page is visible. The table lists the following instances:

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DP |
|------------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|----------------|
| Bastion Host | I-0ce982ebf3599c500 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a | ec2-3-216-124 |
| Dhrish Web Se... | I-0cad0a1c7d2d058c6 | Terminated | t2.micro | 2/2 checks passed | No alarms | us-east-1a | - |

The details for the instance "I-0cad0a1c7d2d058c6 (Dhrish Web Server)" are shown below the table. The instance state is "Terminated".

16) End Lab - Yes



17) Lab session Terminated

