

Progressive Education Society's
Modern College of Arts, Science and Commerce (Autonomous)
Shivajinagar, Pune – 411005
M.Sc. (Computer Science) Part II- Sem III
2023-2024
Lab on Cloud Computing-Assignments

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Class – M.Sc. (Computer Science) Part II- Sem III

Cloud Computing Practical Assignment No 1

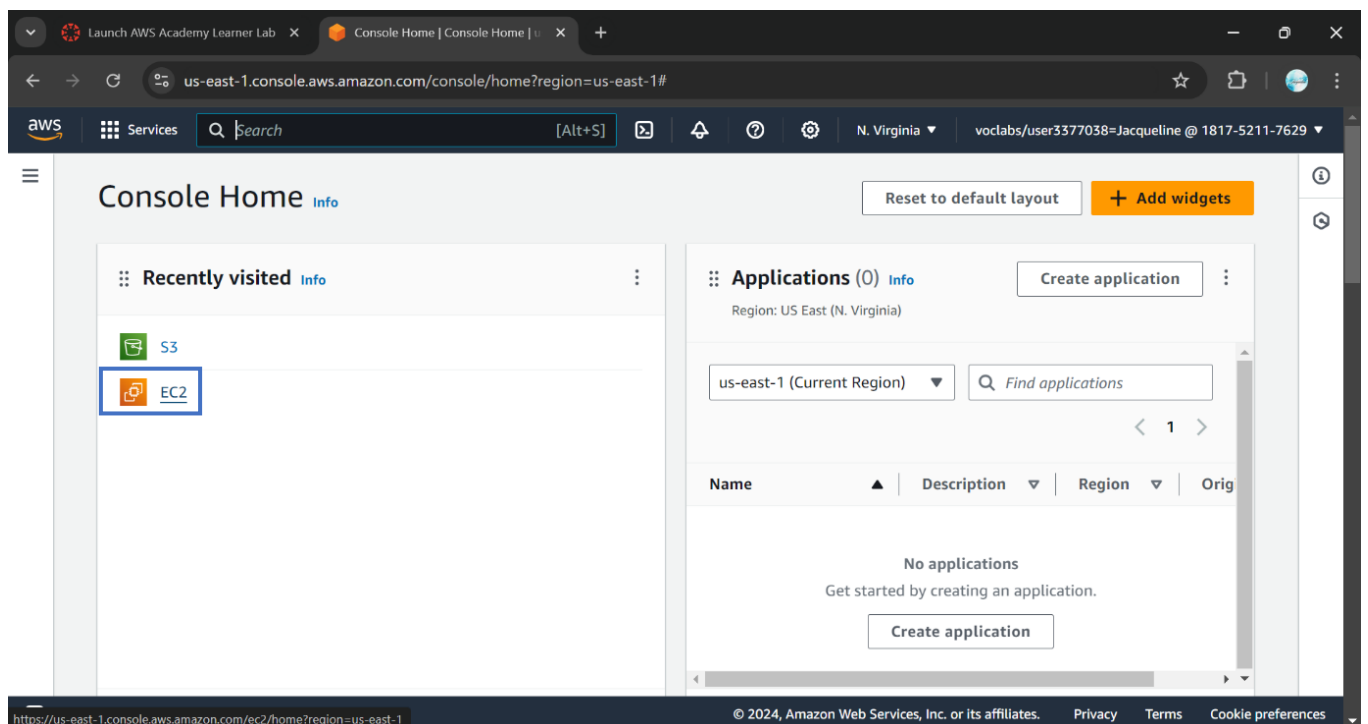
Working and Implementation of Infrastructure as a service

Launch EC2 Instance (Windows) - AWS Platform.

Prepare Screenshots file. Write down the steps to launch EC2 instance (Windows)

Make single Word or PDF file.

Step 1: Select the Compute Service and in that select EC2.



Step 2: Then Say ‘Launch Instance’.

The screenshot shows the AWS Management Console for the EC2 service in the us-east-1 region. The left sidebar contains the navigation menu with 'Instances' selected. The main content area is titled 'Resources' and displays a grid of resource counts for the US East (N. Virginia) Region. Below this, there is a 'Launch instance' section with a prominent orange 'Launch instance' button. To the right of the 'Launch instance' button is a 'Migrate a server' button. The 'Service health' section is also visible on the right.

Resources		
You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:		
Instances (running)	0	Auto Scaling Groups
Dedicated Hosts	0	Elastic IPs
Key pairs	5	Load balancers
Security groups	4	Snapshots
		Capacity Reservations
		Instances
		Placement groups
		Volumes

Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Service health
AWS Health Dashboard

Step 3: Give the name to the instance.

The screenshot shows the 'Launch an instance' page in the AWS Management Console. The breadcrumb navigation indicates the path: EC2 > Instances > Launch an instance. The page title is 'Launch an instance' with an 'Info' link. Below the title, there is a brief description of Amazon EC2 instances. The main form area is divided into sections. The first section, 'Name and tags', has a 'Name' field with the value 'Web Server' entered. The second section, 'Application and OS Images (Amazon Machine Image)', is partially visible and contains a description of AMIs.

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

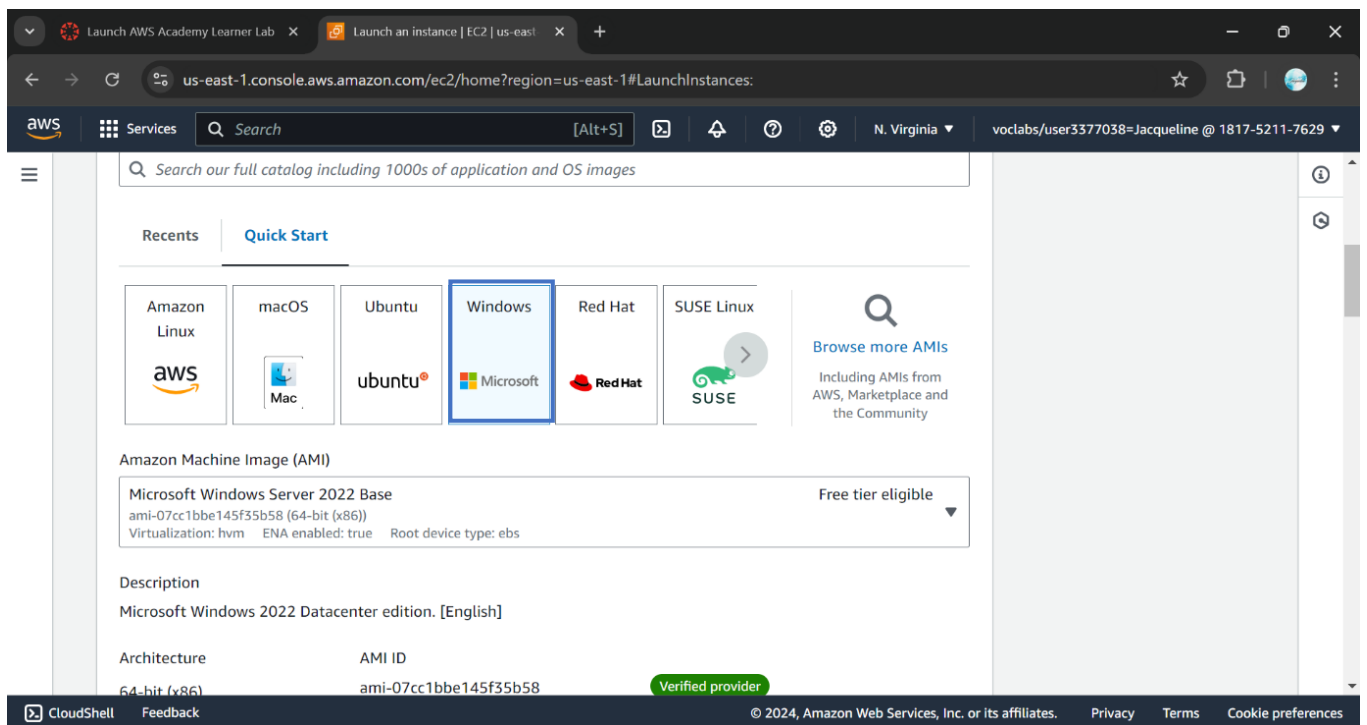
Name and tags Info

Name
Web Server Add additional tags

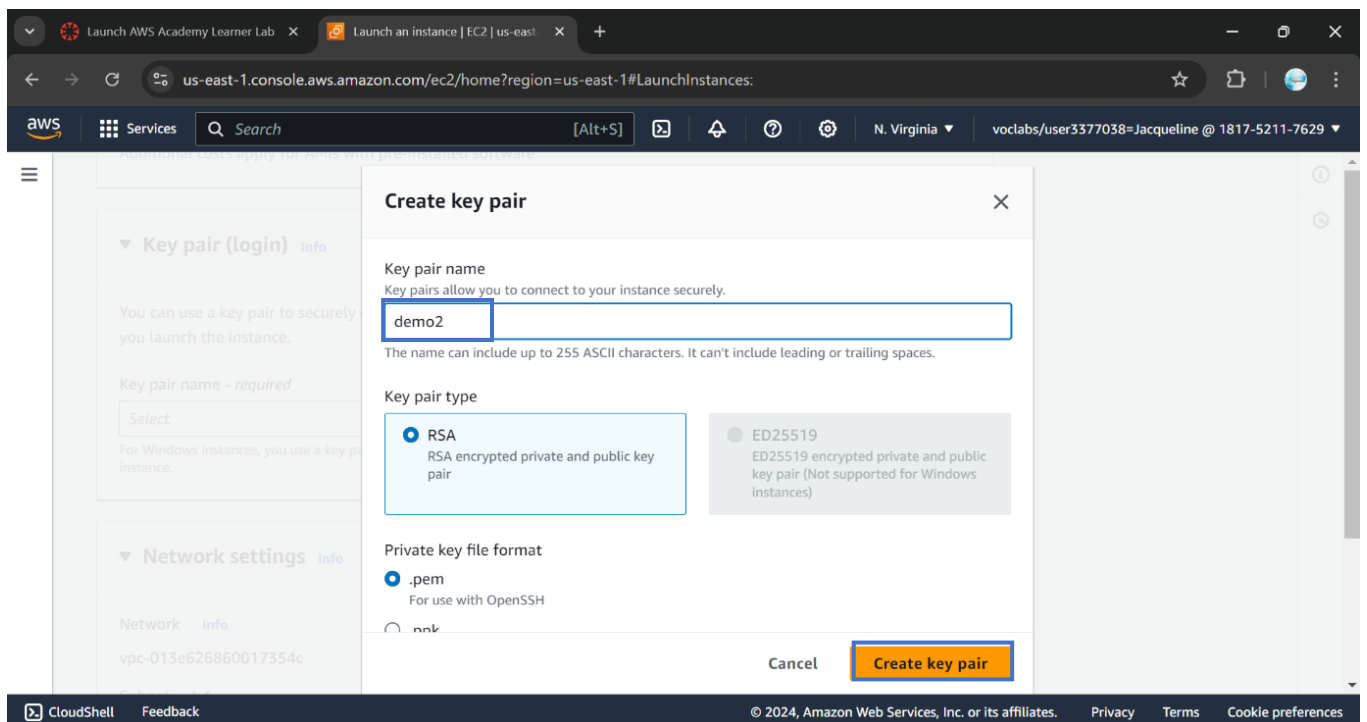
Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

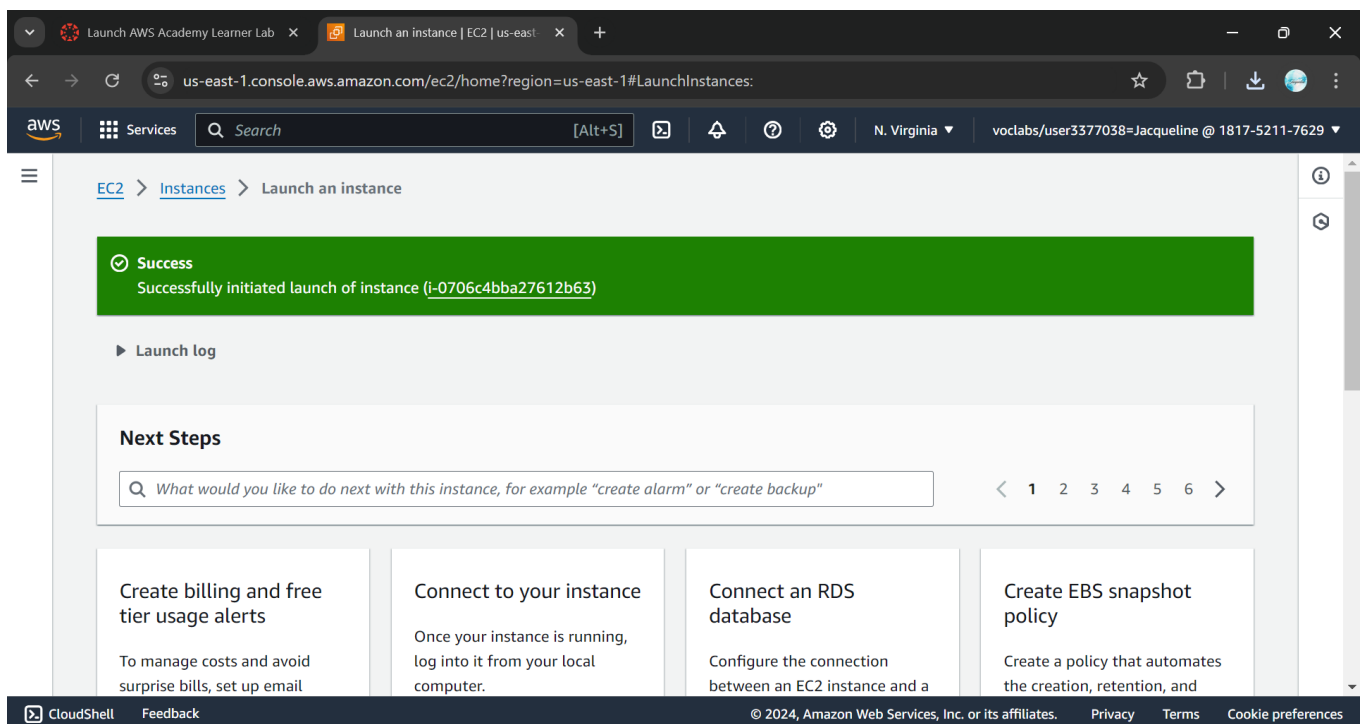
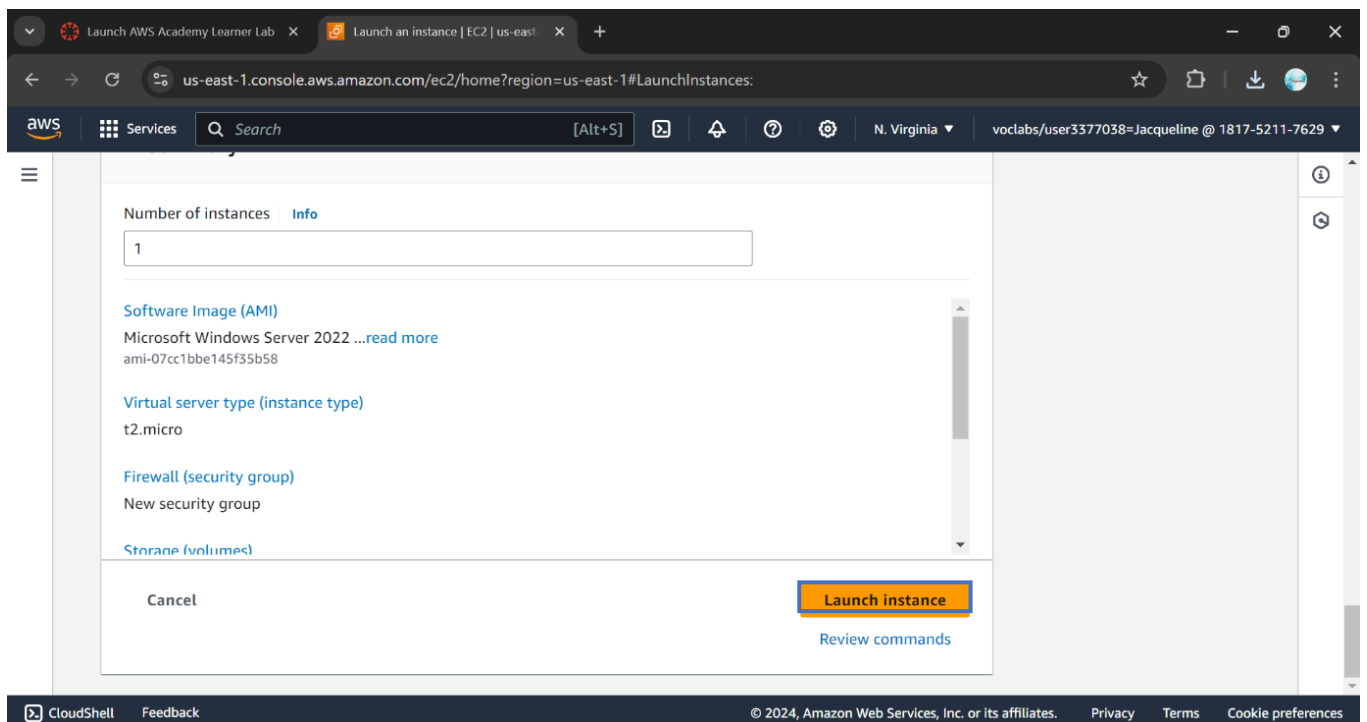
Step 4: Select the AMI as Windows.



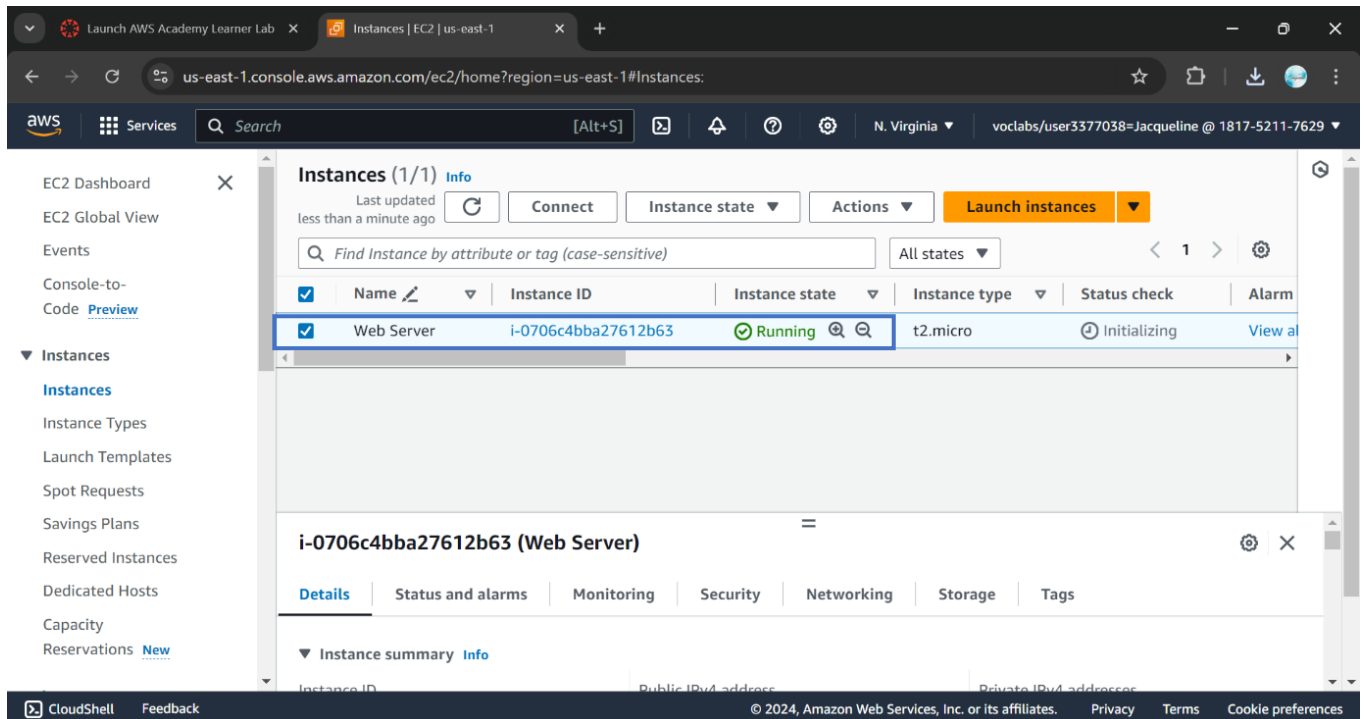
Step 5: Create Key pair.



Step 6: Now launch the instance



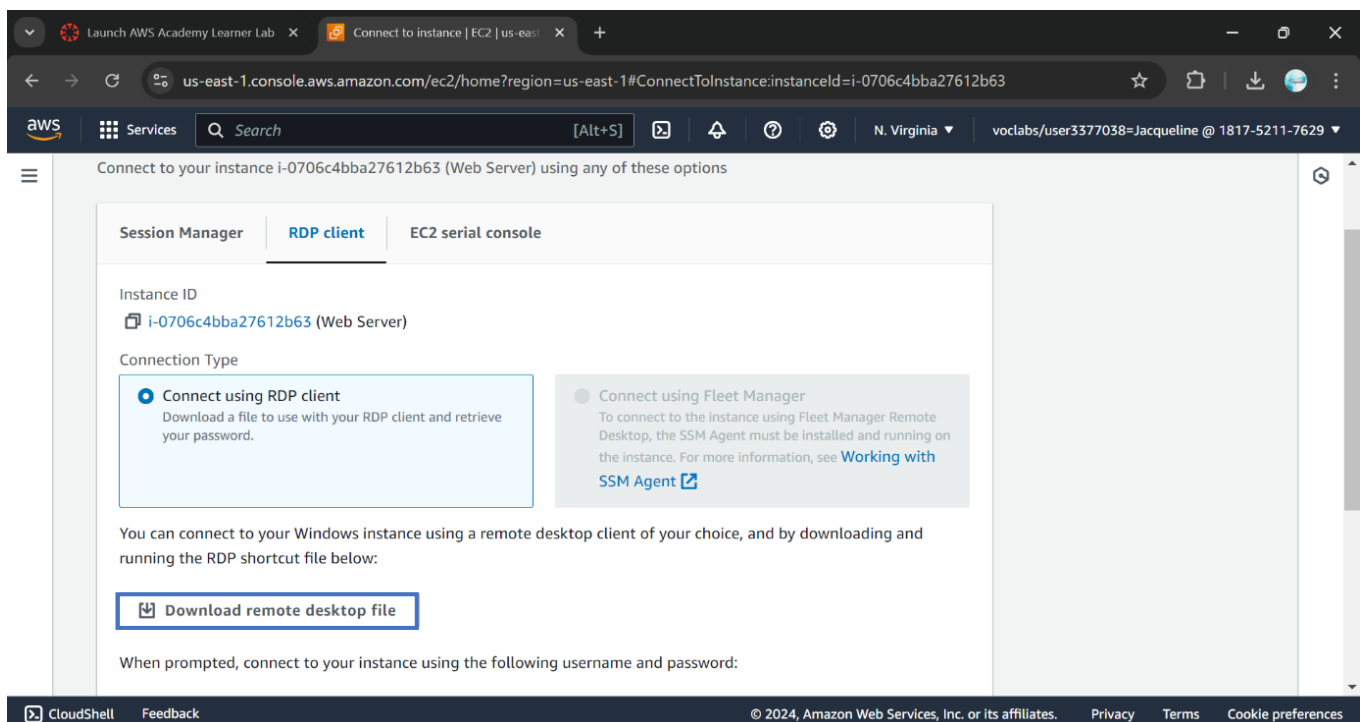
Step 7: Select the checkbox of the instance created and which should be in running state and then say connect.



The screenshot shows the AWS Management Console for the 'us-east-1' region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Console-to-Code, and a list of instance types and plans. The main content area displays the 'Instances (1/1)' page. A table lists the instance 'Web Server' with ID 'i-0706c4bba27612b63', which is in the 'Running' state. The 'Connect' button is highlighted. Below the table, the 'Details' tab for the selected instance is shown, displaying the instance summary.

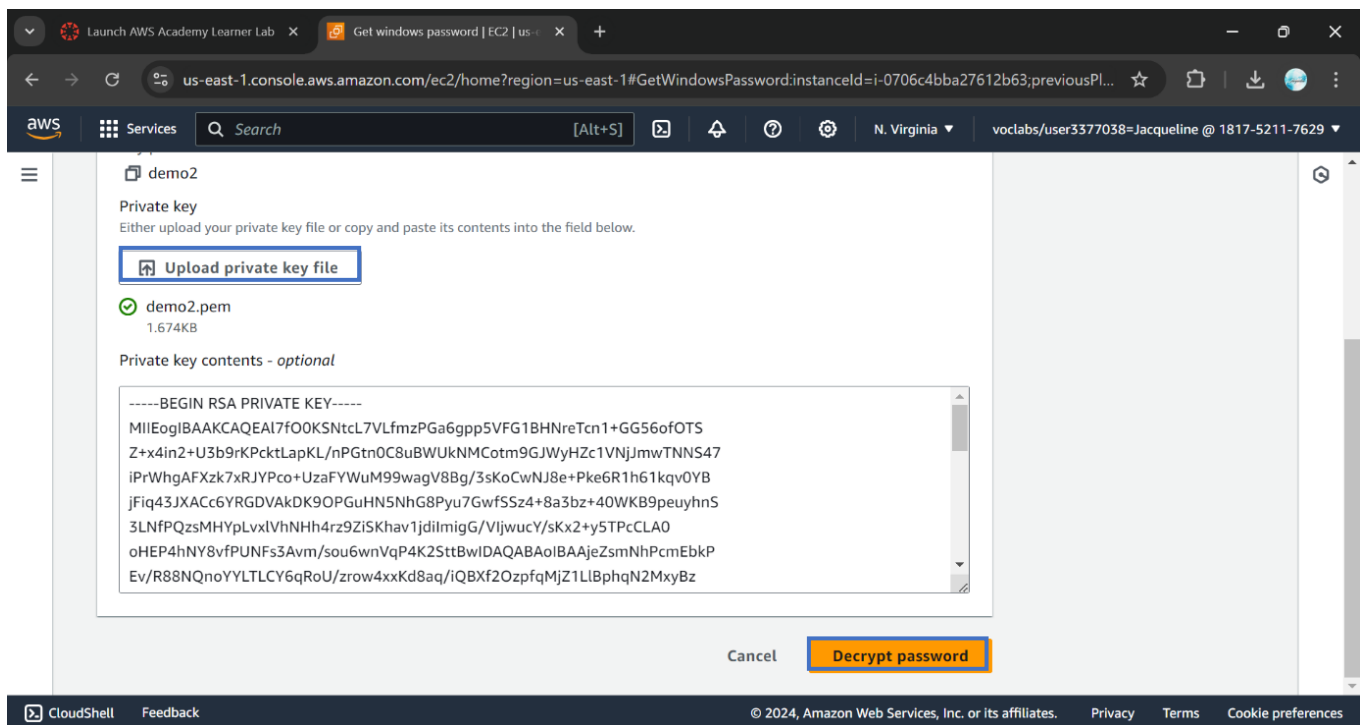
Name	Instance ID	Instance state	Instance type	Status check	Alarm
Web Server	i-0706c4bba27612b63	Running	t2.micro	Initializing	View alarm

Step 8: Download the remote desktop file.

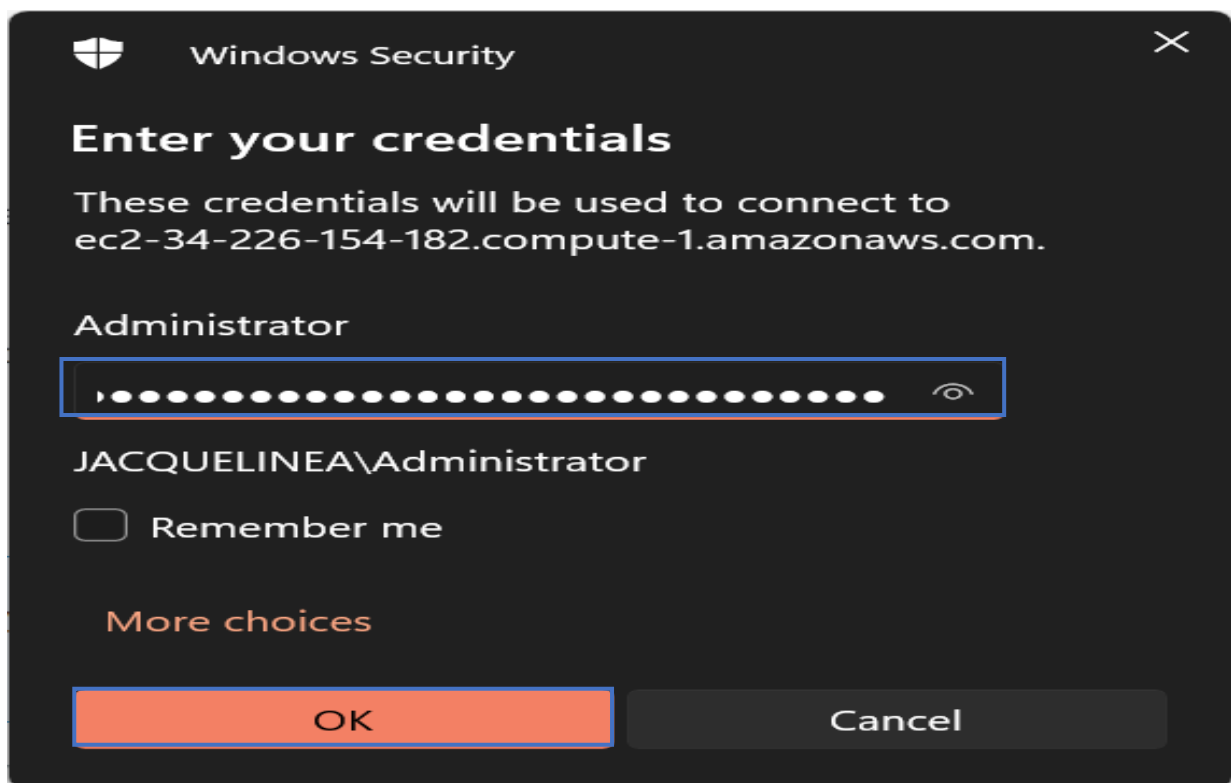


The screenshot shows the 'Connect to instance' page in the AWS Management Console. The page title is 'Connect to your instance i-0706c4bba27612b63 (Web Server) using any of these options'. The 'RDP client' tab is selected. Under 'Connection Type', the 'Connect using RDP client' option is chosen, which includes a description: 'Download a file to use with your RDP client and retrieve your password.' Below this, a button labeled 'Download remote desktop file' is highlighted. The page also mentions that for Windows instances, a remote desktop client is needed and provides a link to 'Working with SSM Agent'.

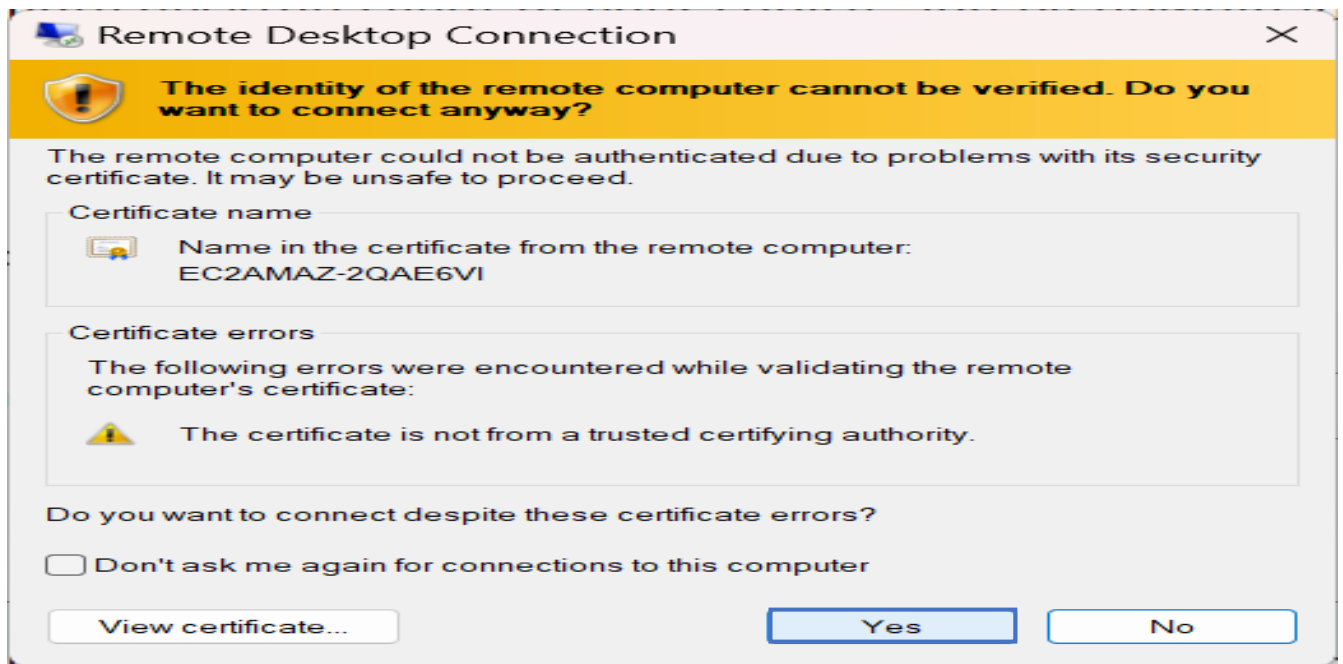
Step 9: Upload the private key created earlier.



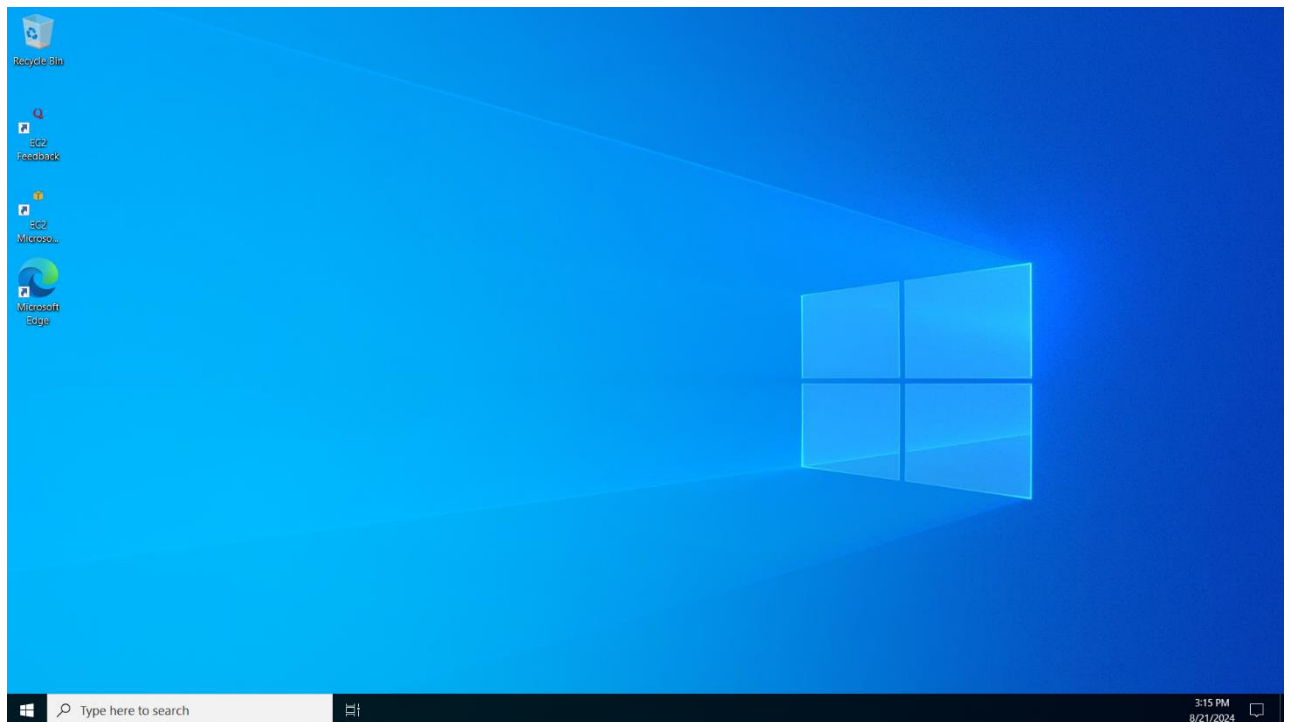
Step 10: Decrypt the password and copy in the remote desktop file which was earlier downloaded.



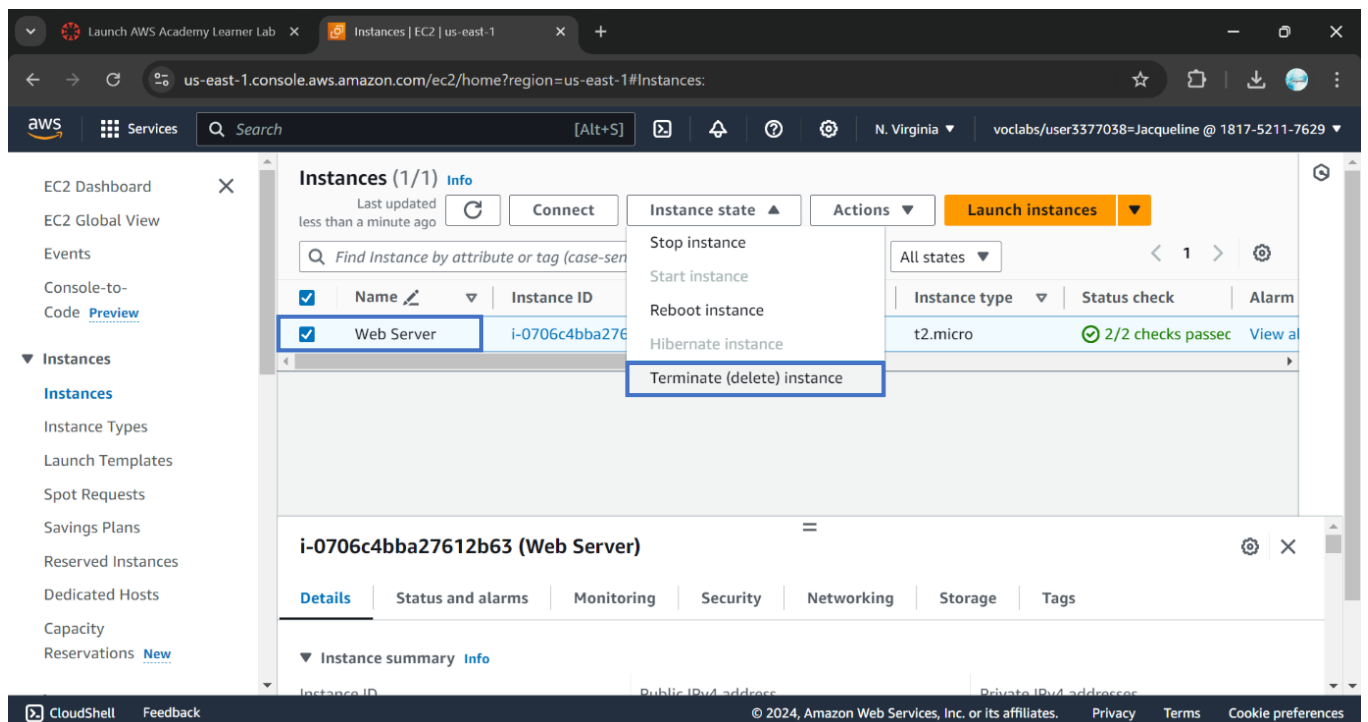
Step 11: Accept the permission and proceed.



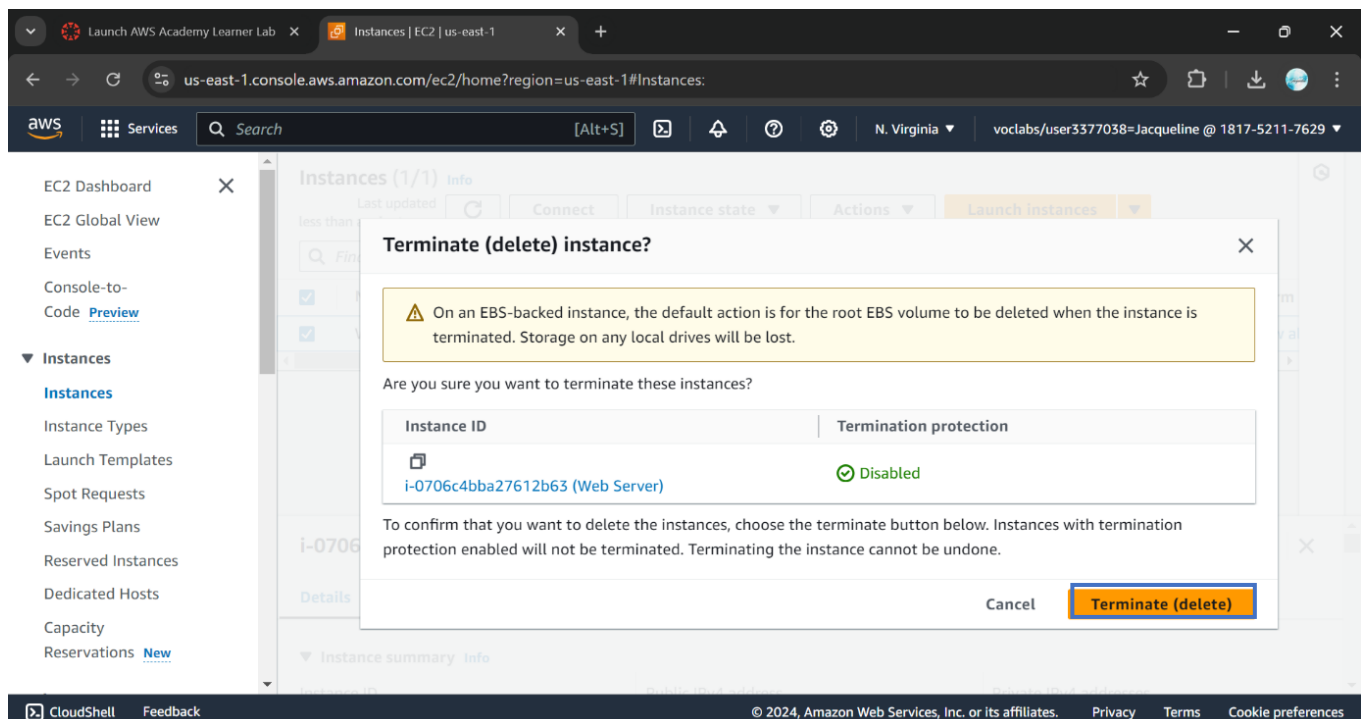
Step 12: Later the Virtual Machine of Windows instance is created as follows.



Step 13: Select the instance type as 'Terminate' from instance state.



Step 14: Terminate the instance later.



Step 15: At the end logout from the account of AWS.

The screenshot shows the AWS Management Console in the us-east-1 region. A green banner at the top indicates "Successfully initiated termination (deletion) of i-0706c4bba27612b63". The "Instances (1/1)" table shows a single instance named "Web Server" with ID "i-0706c4bba27612b63", which is in the "Terminated" state. The left sidebar shows the navigation menu with "Instances" selected. The right sidebar shows account information and a "Sign out" button. The bottom of the console shows the "i-0706c4bba27612b63 (Web Server)" details section.

The screenshot shows the AWS Academy interface. The top navigation bar includes "Home", "Modules", "Discussions", "Grades", and "Lucid". The main content area shows a lab titled "AWS" with a timer at "00:00". The "End Lab" button is highlighted with a red box. The bottom of the interface shows "Previous" and "Next" navigation buttons. The right sidebar shows a list of instances and a "CodeWhisperer" suggestion.