

### Activity 3: Preparation

This preparation must be done before class. There might be several problems which takes time to solve. So, you might not be able to do the activity in time.

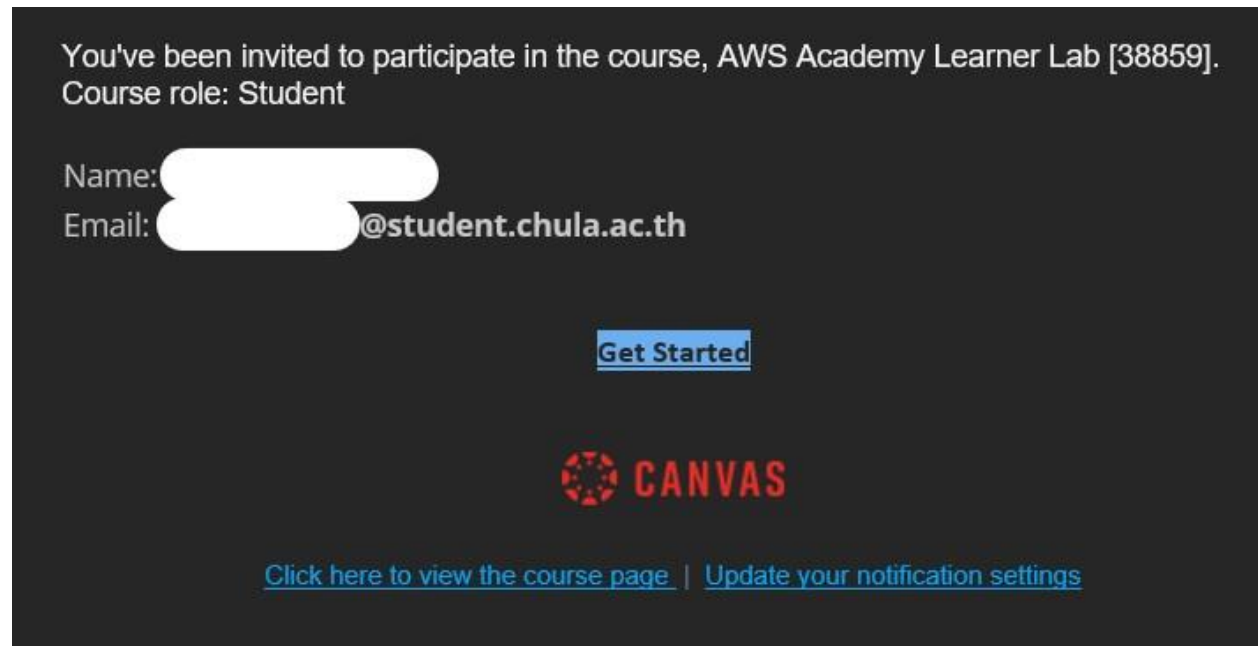
0 For Windows users, install putty to your computer (<https://www.putty.org/>). Make acquaintances with putty will be much appreciated.

For Linux and Mac OS users, make sure that you have ssh installed, most of Linux systems have this preinstalled. Make acquaintances with ssh will be much appreciated as well.

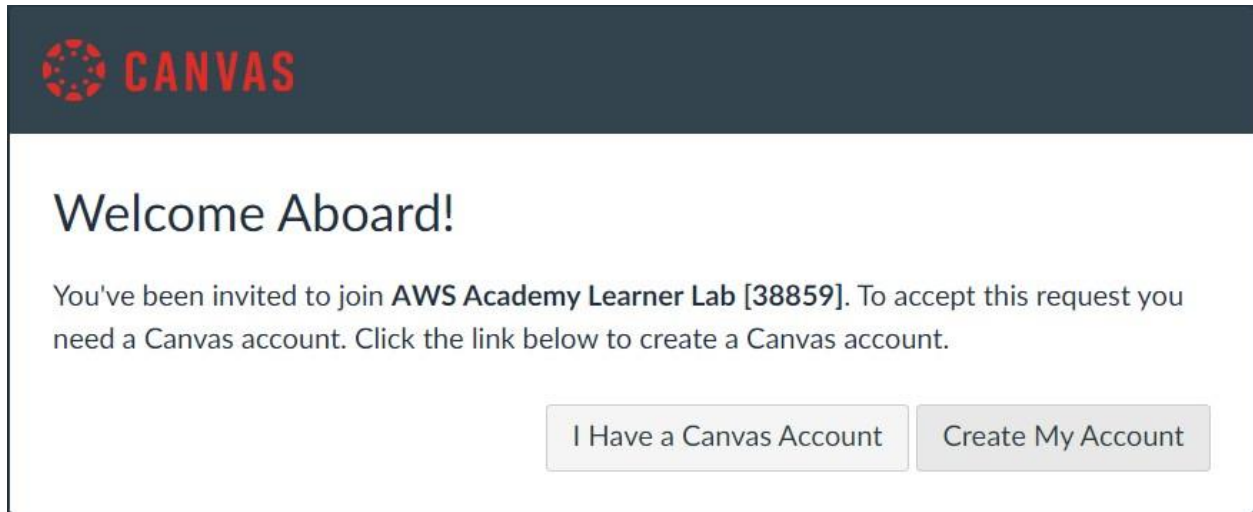
1.1 Check your email inbox. Look for email recently sent from

AWS Academy ([notifications@instructure.com](mailto:notifications@instructure.com))

and click **Get Started**. If you don't see the email, check your junk email folder. IF you still couldn't find it, contact TA **ASAP**



1.2 Choose “Create My Account” and fill in your personal information. (firefox)



2.1 From the LMS dashboard, choose **AWS Academy Learner Lab [38859]**.



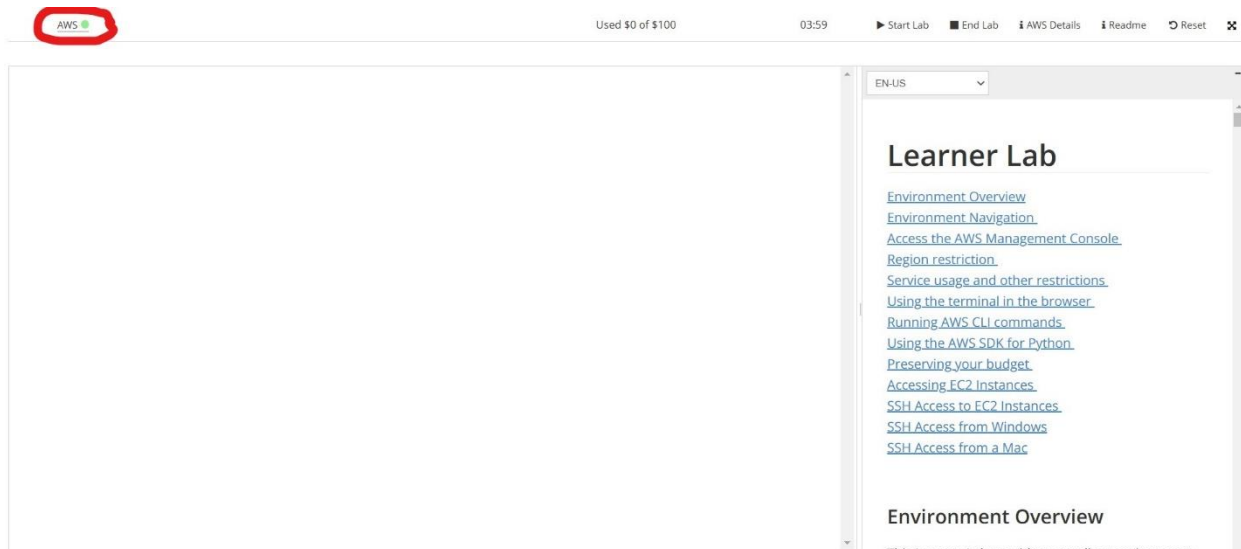
## 2.2 Choose **Learner Lab** link founded in **Modules** section

The screenshot shows the AWS Learning Console interface. On the left is a dark sidebar with the AWS logo and navigation links: Account, Dashboard, Courses, Calendar, Inbox, History, and Help. The main content area has a breadcrumb trail 'ALLv1-38859 > Modules'. Below this are tabs for 'Home', 'Modules' (which is selected), and 'Discussions'. A 'Collapse All' button is in the top right. The 'Modules' section is expanded, showing a list of items: 'Student Guide.pdf', 'Learner Lab' (highlighted in blue), and 'End of Course Feedback Survey'.

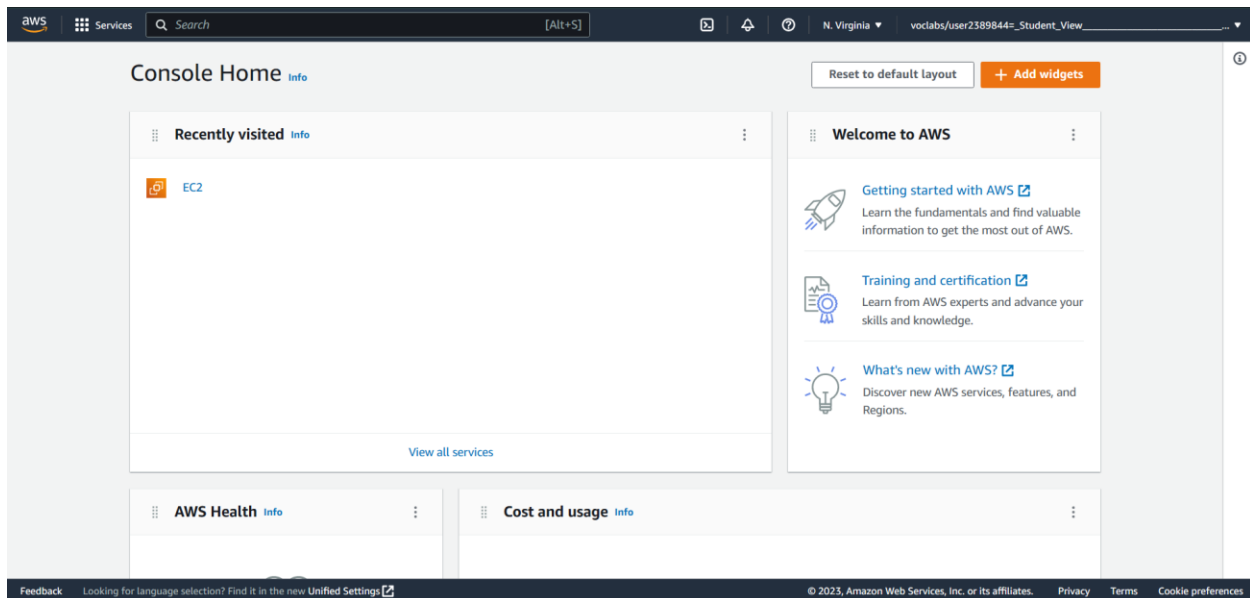
## 2.3 To start the lab, choose **Start Lab**.

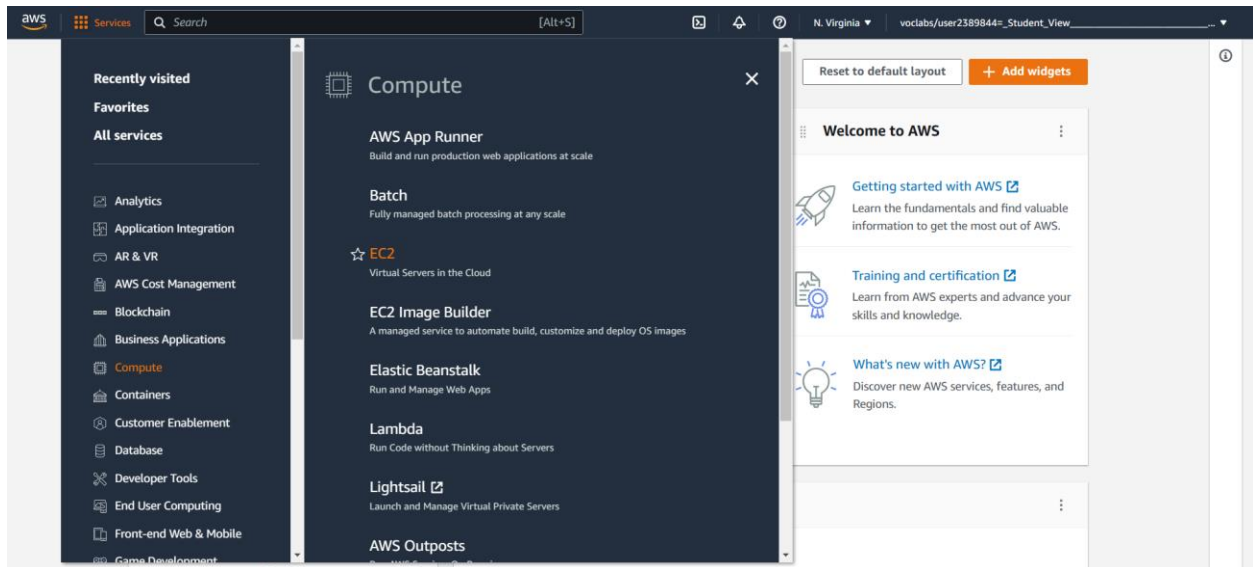
The screenshot shows the AWS Learner Lab interface. At the top, there's a status bar with 'AWS' logo, 'Used \$0 of \$100', a timer at '00:00', and buttons for 'Start Lab', 'End Lab', 'AWS Details', 'Readme', 'Reset', and a close icon. The main area is split into two panes. The left pane is a terminal window with the prompt 'ccc\_v1\_w\_108fb\_24247@runweb72190:~\$'. The right pane, titled 'Learner Lab', contains a list of links: 'Environment Overview', 'Environment Navigation', 'Access the AWS Management Console', 'Region restriction', 'Service usage and other restrictions', 'Using the terminal in the browser', 'Running AWS CLI commands', 'Using the AWS SDK for Python', 'Preserving your budget', 'Accessing EC2 Instances', 'SSH Access to EC2 Instances', 'SSH Access from Windows', and 'SSH Access from a Mac'.

2.4 When the circle icon to the right of the AWS link in the upper-left corner turns green, the lab environment is ready to use. Click the **AWS link**

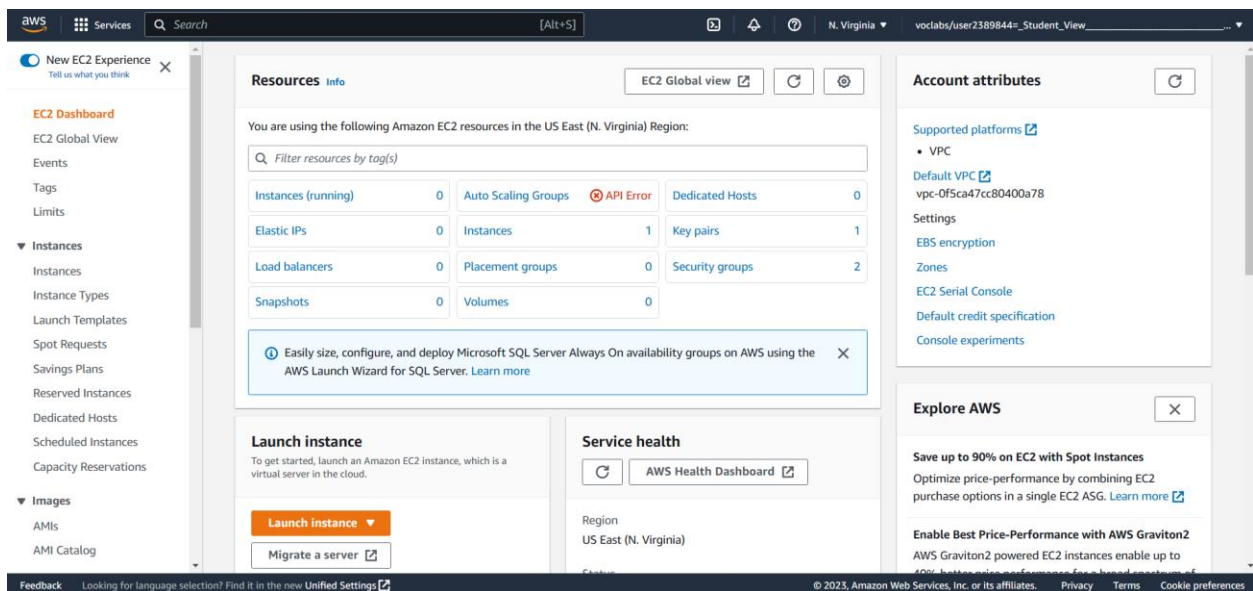


3.1 After getting into AWS Console Home, click **Services** (Upper left of screen) -> **Compute** -> **EC2**





### 3.2 Click Launch Instance (Orange button)



The following page will show up if you do it correctly.

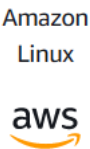
The screenshot shows the AWS Management Console interface for launching an EC2 instance. The breadcrumb navigation at the top indicates the path: EC2 > Instances > Launch an instance. The main heading is "Launch an instance" with an "Info" link. Below this, a brief description states: "Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below." The form is divided into two main sections. The left section, titled "Name and tags" with an "Info" link, contains a "Name" field with the placeholder text "e.g. My Web Server" and an "Add additional tags" link. Below this is the "Application and OS Images (Amazon Machine Image)" section, which includes a search bar and a "Quick Start" section with buttons for "Amazon", "macOS", "Ubuntu", "Windows", "Red Hat", and "S". The right section, titled "Summary", displays the configuration details: "Number of instances" is set to 1; "Software Image (AMI)" is "Amazon Linux 2 Kernel 5.10 AMI" with a link to "read more"; "Virtual server type (instance type)" is "t2.micro"; "Firewall (security group)" is "New security group"; and "Storage (volumes)" is "1 volume(s) - 8 GiB". At the bottom of the summary, there is a "Free tier" notification box stating: "Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier". Below the notification are "Cancel" and "Launch instance" buttons. The footer of the console shows "Feedback", a link to "Looking for language selection? Find it in the new Unified Settings", the copyright notice "© 2023, Amazon Web Services, Inc. or its affiliates.", and links for "Privacy", "Terms", and "Cookie preferences".

3.3 Set instance's name to "studentNumber\_Name" ex. 6531022121\_Atiwong


This is a close-up view of the "Name and tags" section from the screenshot above. It features a heading "Name and tags" with an "Info" link. Below the heading is a "Name" label followed by a text input field containing the text "6531022121\_Atiwong". To the right of the input field is a blue link that says "Add additional tags".

3.4 Choose **Ubuntu server** as Amazon Machine Image. (Make sure that your setting is as same as the picture below) **!!! IMPORTANT !!!**

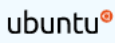
### Quick Start




Amazon Linux




macOS




Ubuntu




Windows



Red Hat



S



[Browse more AMIs](#)

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

Free tier eligible

ami-00874d747dde814fa (64-bit (x86)) / ami-01625be155ee390e9 (64-bit (Arm))

Virtualization: hvm   ENA enabled: true   Root device type: ebs

Description

Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-01-15

Architecture

AMI ID

64-bit (x86)

ami-00874d747dde814fa

Verified provider

3.5 Set instance type to t2.micro (default setting is t2.micro)

▼ **Instance type** [Info](#)

Instance type

t2.micro

Free tier eligible

Family: t2   1 vCPU   1 GiB Memory

On-Demand Windows pricing: 0.0162 USD per Hour

On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand RHEL pricing: 0.0716 USD per Hour

On-Demand Linux pricing: 0.0116 USD per Hour

[Compare instance types](#)

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### 3.6 Key pair (login):

1. Create new key pair
2. set key pair name to “activity3” or whatever name you want.
3. Choose **RSA** as Key pair type
4. For Private Key file format,

Choose .pem if you’re using mac/linux or .ppk if you’re using Windows


5. After create key pair, key pair will be downloaded automatically. **Save this file securely, do not lose it at all costs.**

▼ **Key pair (login)** [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

▼

 [Create new key pair](#)



3.7 After correctly configure. Click **Launch Instance**

**▼ Summary**

Number of instances [Info](#)

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

3.8 Once this banner is shown, this means your instances is successfully launch. Go back to instances page. Then click your Instance ID (blue link)

**Success**  
Successfully initiated launch of instance ([i-09c11fa8bf755734f](#))

[▶ Launch log](#)

Services  [Alt+S]

N. Virginia

voclabs/user2389844=...Student\_View

New EC2 Experience  
Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

▼ Images

AMIs

AMI Catalog

**Instances (1)** [Info](#)

Instance state = running

Clear filters

☐

Name

☐

6531022121\_...

☐

Instance ID

☐

[i-09c11fa8bf755734f](#)

☐

Instance state

☒

Running

☐

Instance type

☐

t2.micro

☐

Status check

☒

2/2 checks passed

☐

Alarm status

☐

No alarms

☐

Availability Zone

☐

us-east-1e

☐

Public IPv4 DNS

☐

ec2-52-4-169-22

**Instance: i-09a47de1d21f4bd4a (testing)**

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

**▼ Instance summary** [Info](#)

Instance ID

i-09a47de1d21f4bd4a (testing)

IPv6 address

-

Hostname type

-

Public IPv4 address

-

Instance state

Terminated

Private IPv4 addresses

-

Public IPv4 DNS

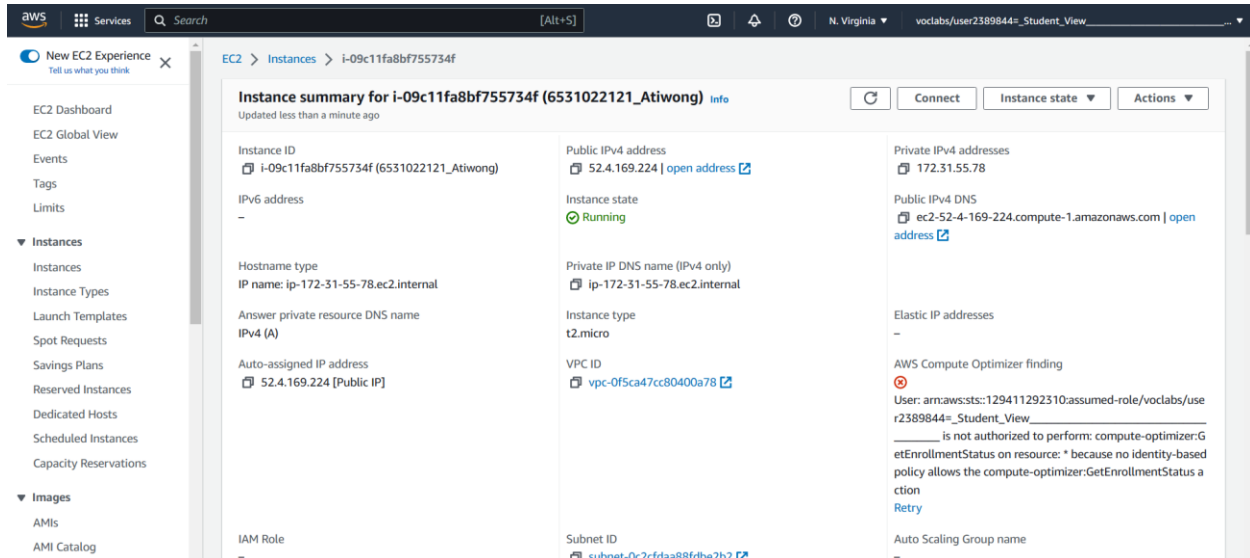
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## TODO:

1. Capture your screen showing an instance that you have launched and upload it to **Activity 3: Pre-Test/Preparation** assignment.

### Example screenshot



2. Upload your downloaded key pair file to **Activity 3: Pre-Test/Preparation** assignment.