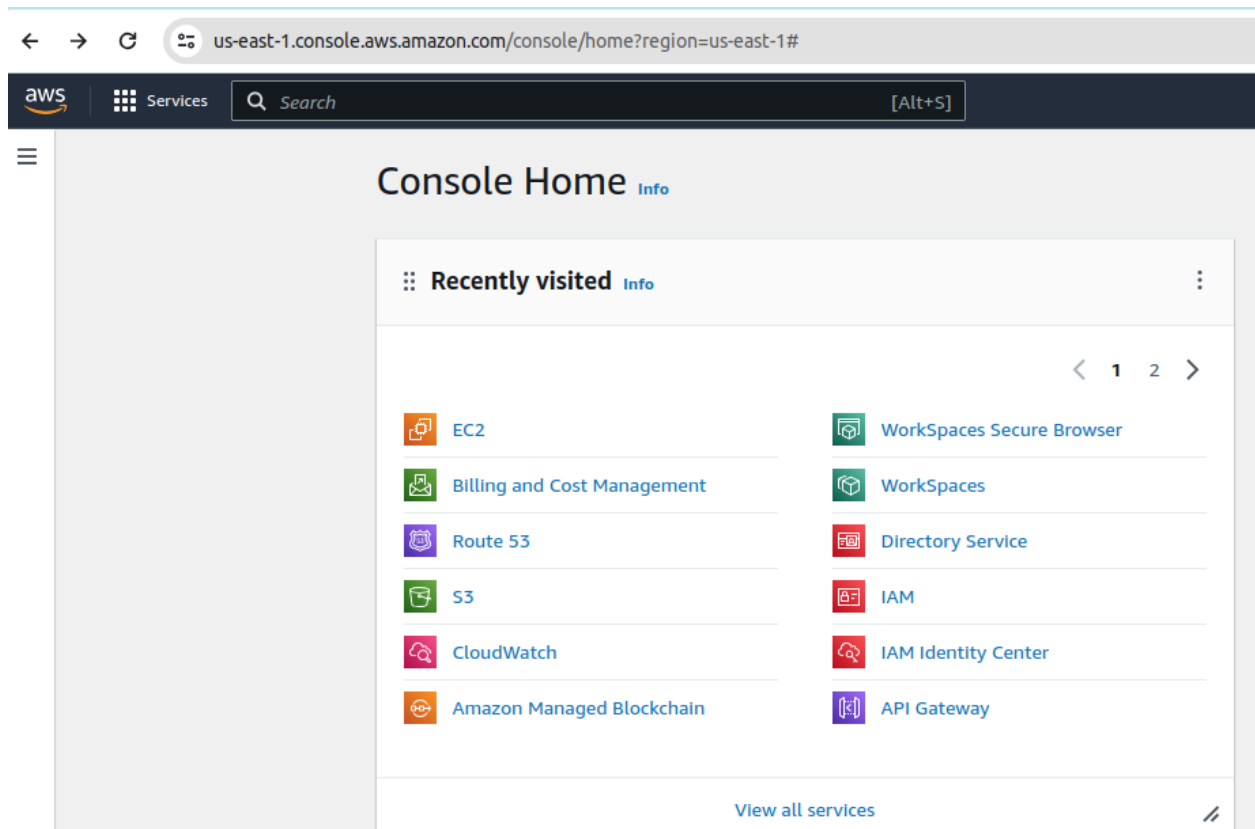
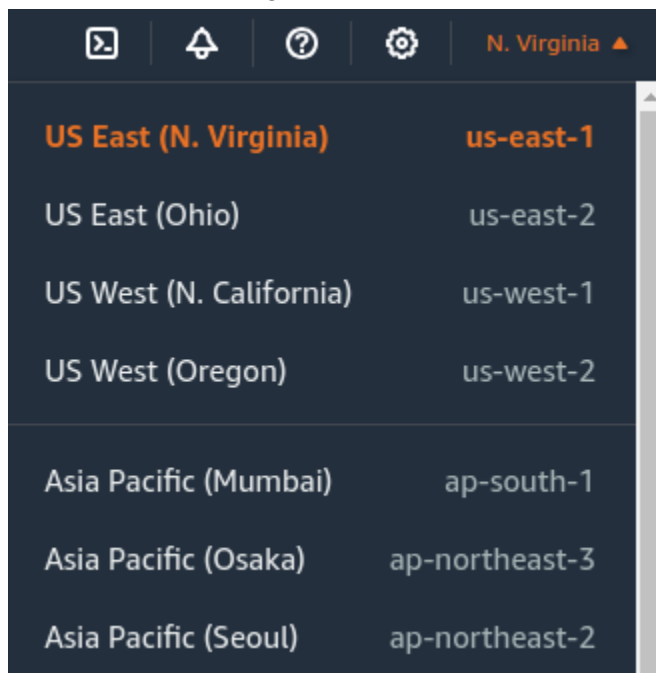


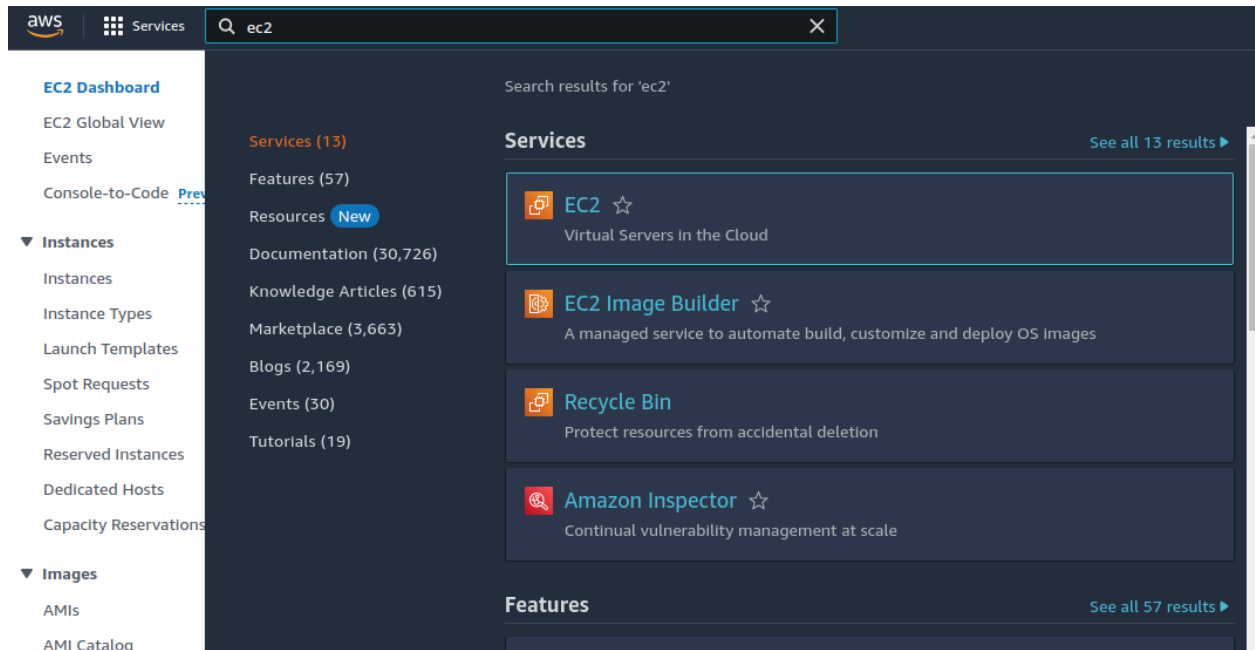
1.) Create an account on <https://aws.amazon.com/>



2.) Select the region



3.) Select EC2 (or using the search bar if you haven't used it before)



4.) Select Launch Instance

← → ↻ us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Home:

aws Services 🔍 Search [Alt+S]

EC2 Dashboard ✕

EC2 Global View

Events

Console-to-Code [Preview](#)

▼ **Instances**

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ **Images**

AMIs

AMI Catalog

▼ **Elastic Block Store**

Resources

You are using the following Amazon EC2 resources in the US East (N. Virgir

Instances (running)	0	Auto Scaling Groups
Elastic IPs	0	Instances
Load balancers	0	Placement groups
Snapshots	0	Volumes

Launch instance

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

Launch instance ▼

Migrate a server [↗](#)

Note: Your instances will launch in the US East (N. Virginia) Region

5.) Enter the name for the instance (eg. Lab) and then select Ubuntu as the server image

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](#)



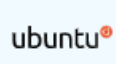



Name

[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

Quick Start

 <p>Amazon Linux</p>	 <p>macOS</p>	 <p>Ubuntu</p>	 <p>Windows</p>	 <p>Red Hat</p>	 <p>SUSE Linux Enterprise Server</p>	 <p>Browse more AMIs</p> <p>Including AMIs from AWS, Marketplace and the Community</p>
---	--	---	--	---	---	---

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-04b70fa74e45c3917 (64-bit (x86)) / ami-0eac975a54dfee8cb (64-bit (Arm))

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

Free tier eligible ▼

6.) Select instance type micro

▼ **Instance type** [Info](#) | [Get advice](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.0716 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

☒ All generations

[Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

▼ **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*

Select

 [Create new key pair](#)

7.) Create a new key pair and save it locally. (You will use this later to log in using ssh)

Create key pair



Key pair name

Key pairs allow you to connect to your instance securely.

Enter key pair name

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type



RSA

RSA encrypted private and public key pair



ED25519

ED25519 encrypted private and public key pair

Private key file format



.pem

For use with OpenSSH



.ppk

For use with PuTTY



When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Cancel

Create key pair

8.) Configure network

▼ **Network settings** [Info](#) Edit

Network [Info](#)

-

Subnet [Info](#)

-

Auto-assign public IP [Info](#)

Disable

Firewall (security groups) [Info](#)

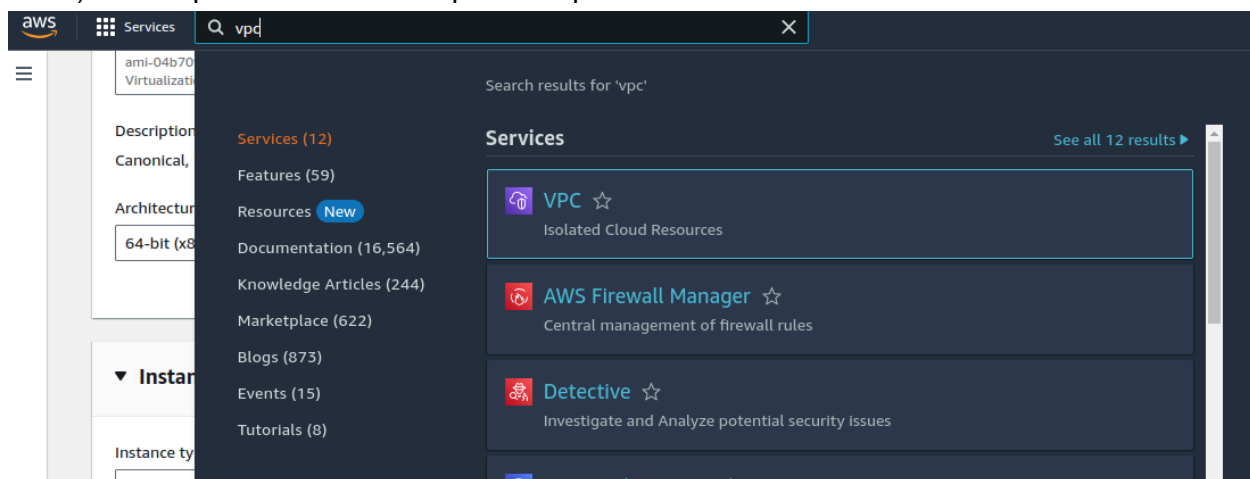
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard' with the following rules:

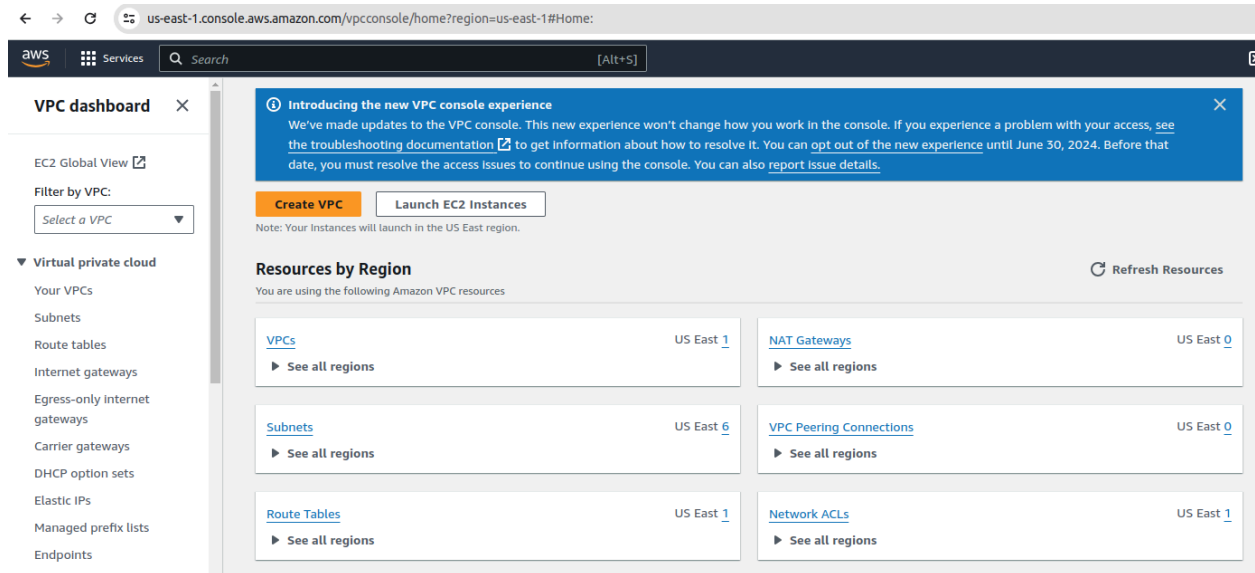
☒ Allow SSH traffic from Helps you connect to your instance Anywhere
0.0.0.0/0

9.) Enter vpc in services and open the vpc link in a new browser window

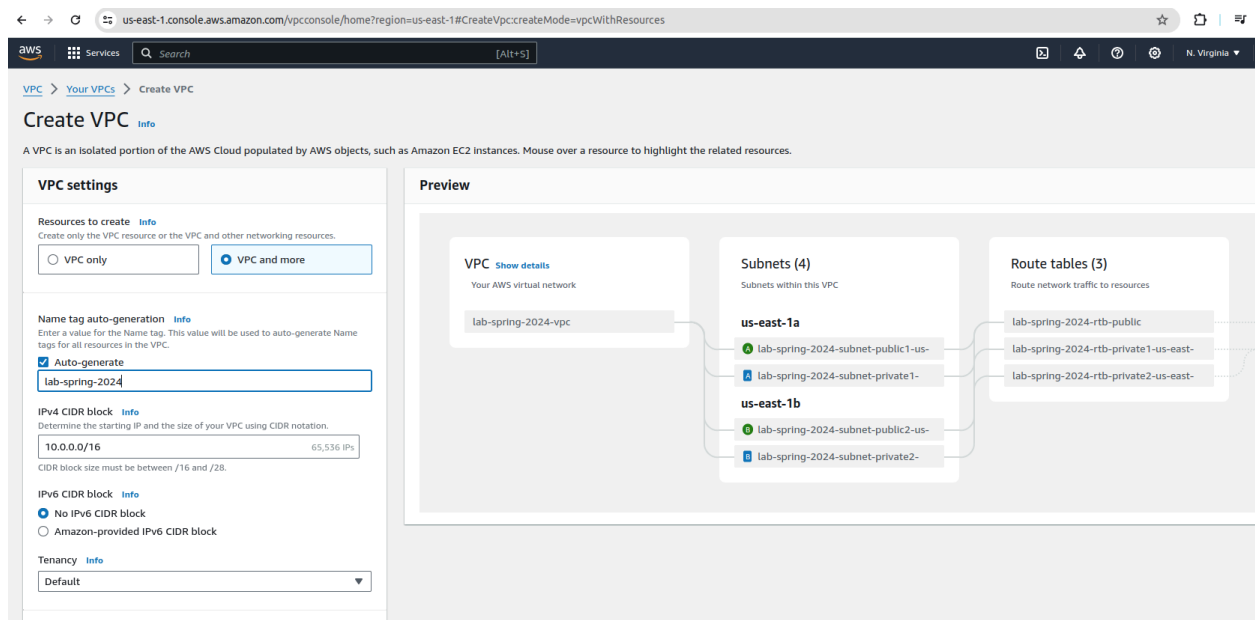


10.) Make sure the network region is the same

11.) Select Create VPC



12.) Enter a name and keep all of the default values and save.



13.) Go back to the instance browser tab (or launch a new one) and make sure following network items are selected. Select the refresh icon if you don't see the vpc you just created.

VPC - required [Info](#)

vpc-0aae70f414bda85af (lab-spring-2024-vpc)
10.0.0.0/16



Subnet [Info](#)

subnet-0b88f2507d304dbde lab-spring-2024-subnet-public1-us-east-1a
VPC: vpc-0aae70f414bda85af Owner: 972394463249 Availability Zone: us-east-1a
IP addresses available: 4091 CIDR: 10.0.0.0/20



[Create new subnet](#)

Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group

☐ Select existing security group

Security group name - required

launch-wizard-16

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and . _ - / () # , @ [] + = & ; { } ! \$ *

Description - required [Info](#)

launch-wizard-16 created 2024-06-03T16:29:51.305Z

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Remove

Type [Info](#)

ssh

Protocol [Info](#)

TCP

Port range [Info](#)

22

Source type [Info](#)

Anywhere

Source [Info](#)

🔍 Add CIDR, prefix list or security

0.0.0.0/0 ✕

Description - optional [Info](#)

e.g. SSH for admin desktop

14.) Add 30 GB for disk space

▼ Configure storage

Info

Advanced

1x
GiB
▼
Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

15.) Then launch instance

☐ Create security group
☒ Select existing security group

Common security groups
Info

Select security groups

default sg-0b0267e13d49c7fbb X
VPC: vpc-0aae70f414bda85af

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▶ Advanced network configuration

▼ Configure storage

Info

Advanced

1x
GiB
▼
Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

Click refresh to view backup information
The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems
Edit

▶ Advanced details
Info

▼ Summary

Number of instances
Info

Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04b70fa74e45c3917

Virtual server type (Instance type)
t2.micro

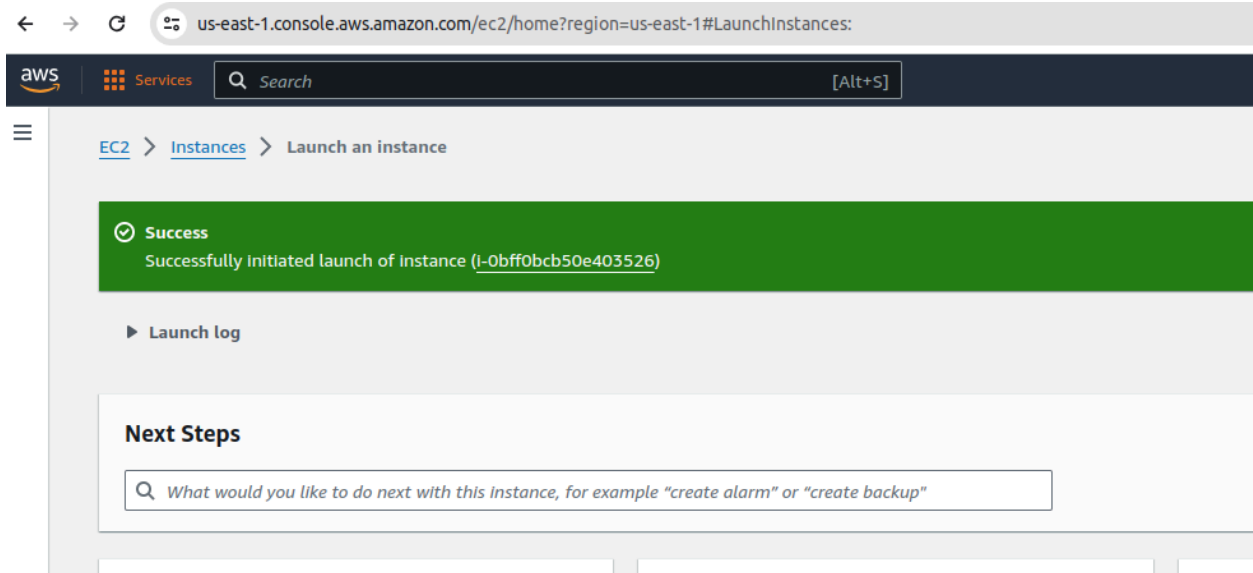
Firewall (security group)
default

Storage (volumes)
1 volume(s) - 30 GiB

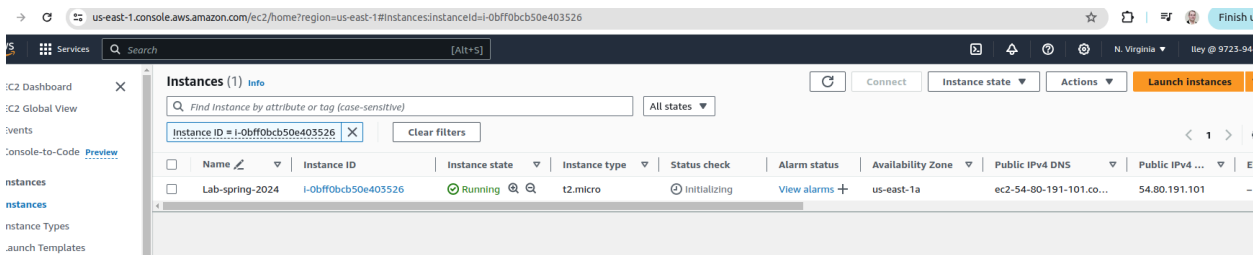
Free tier: In your first year Includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel
Launch instance
Review commands

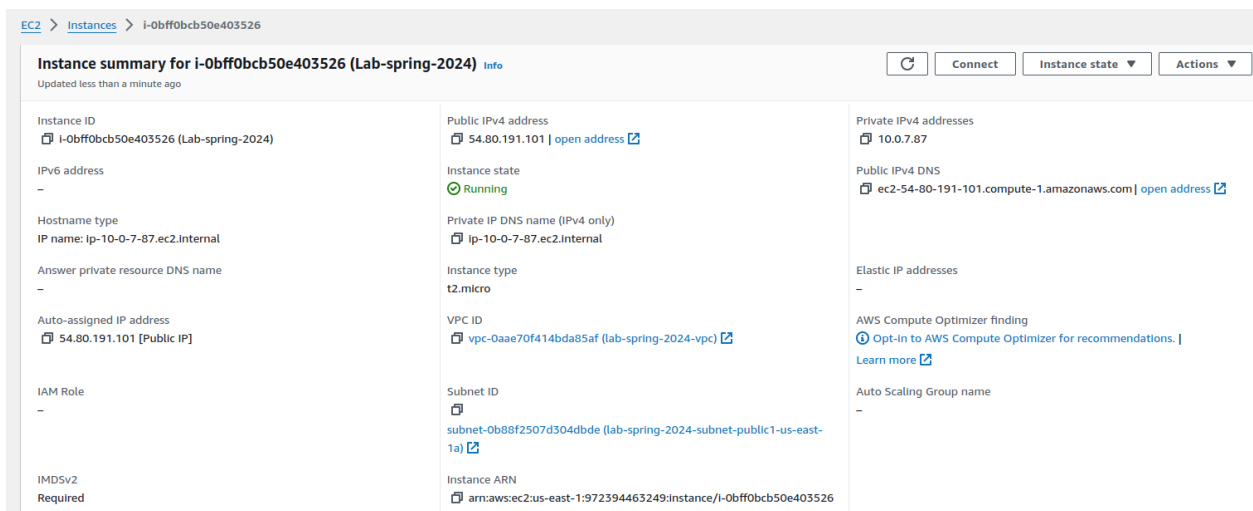
16.) Select the instance to



17.) You should see it listed in the list of instances



18.) Select on the instance ID, and then copy the public IPv4 DNS



19.) Log into you instance from your local computer using the following command.

```
$ chmod 400 your-pem-file.pem
$ ssh -i your-pem-file.pem ubuntu@aws-instance-dns-name
```