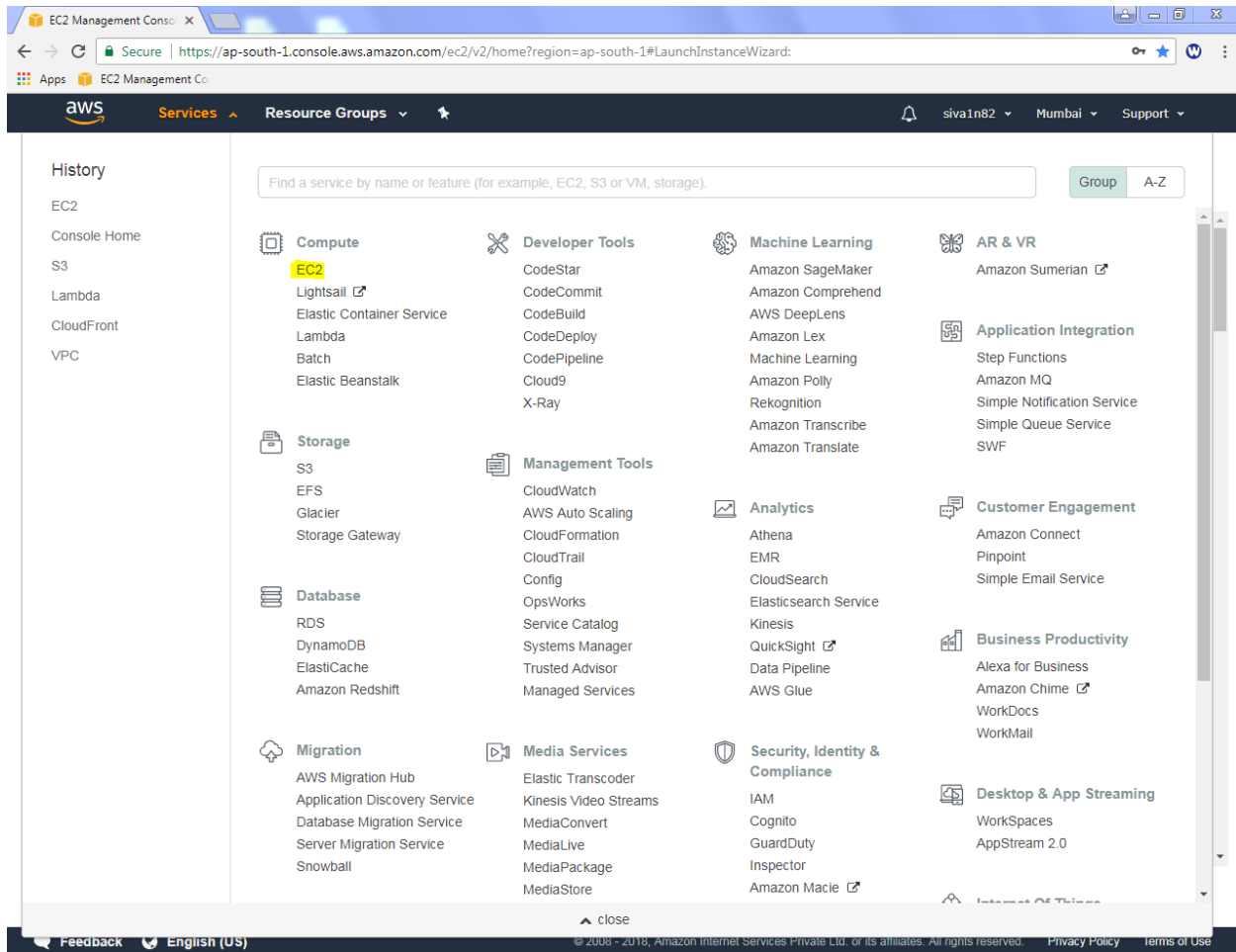
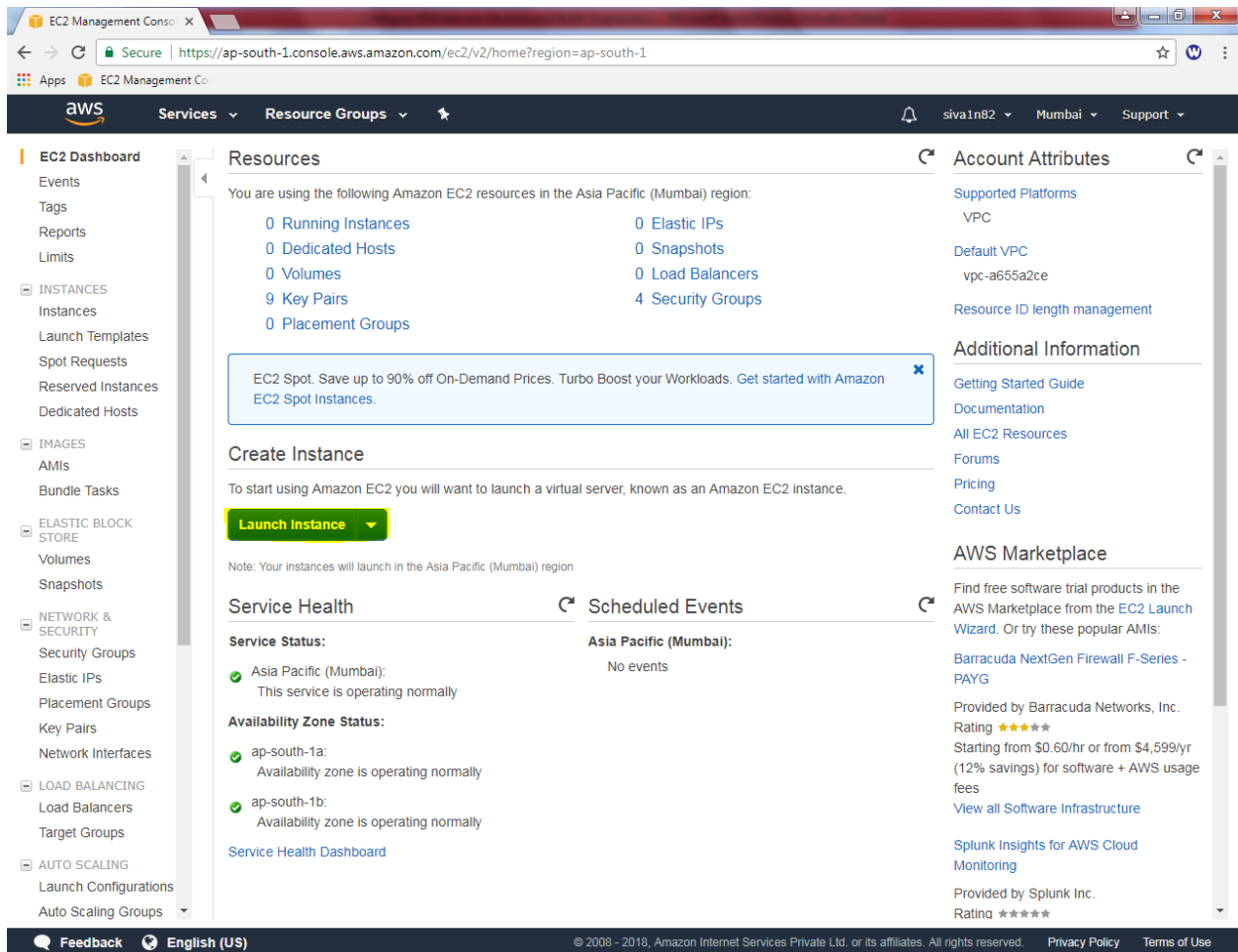


## Configure VPN between Mumbai and Ohio – Lab 2 of 4

In mumbai region, Click “EC2”



Click “Launch Instance”.



The screenshot shows the AWS Management Console for the EC2 service in the Asia Pacific (Mumbai) region. The left sidebar contains navigation links for EC2 Dashboard, INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, LOAD BALANCING, and AUTO SCALING. The main content area is divided into three columns. The first column, titled 'Resources', lists various EC2 resources: 0 Running Instances, 0 Elastic IPs, 0 Dedicated Hosts, 0 Snapshots, 0 Volumes, 0 Load Balancers, 9 Key Pairs, 4 Security Groups, and 0 Placement Groups. Below this list is a 'Create Instance' section with a 'Launch Instance' button. The second column, titled 'Service Health', shows the status of the Asia Pacific (Mumbai) service as 'operating normally' and the availability zones 'ap-south-1a' and 'ap-south-1b' as 'operating normally'. The third column, titled 'Account Attributes', displays supported platforms (VPC), default VPC (vpc-a655a2ce), and resource ID length management. Below this is an 'Additional Information' section with links to getting started guides, documentation, and pricing. At the bottom, there is an 'AWS Marketplace' section featuring Barracuda NextGen Firewall F-Series - PAYG and Splunk Insights for AWS Cloud Monitoring.

EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1>

Apps EC2 Management Console

**aws** Services Resource Groups

siva1n82 Mumbai Support

**EC2 Dashboard**

- Events
- Tags
- Reports
- Limits

**INSTANCES**

- Instances
- Launch Templates
- Spot Requests
- Reserved Instances
- Dedicated Hosts

**IMAGES**

- AMIs
- Bundle Tasks

**ELASTIC BLOCK STORE**

- Volumes
- Snapshots

**NETWORK & SECURITY**

- Security Groups
- Elastic IPs
- Placement Groups
- Key Pairs
- Network Interfaces

**LOAD BALANCING**

- Load Balancers
- Target Groups

**AUTO SCALING**

- Launch Configurations
- Auto Scaling Groups

**Resources**

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) region:

- 0 Running Instances
- 0 Elastic IPs
- 0 Dedicated Hosts
- 0 Snapshots
- 0 Volumes
- 0 Load Balancers
- 9 Key Pairs
- 4 Security Groups
- 0 Placement Groups

EC2 Spot. Save up to 90% off On-Demand Prices. Turbo Boost your Workloads. [Get started with Amazon EC2 Spot Instances.](#)

**Create Instance**

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 Instance.

**Launch Instance**

Note: Your instances will launch in the Asia Pacific (Mumbai) region

**Service Health**

**Service Status:**

- Asia Pacific (Mumbai): This service is operating normally

**Availability Zone Status:**

- ap-south-1a: Availability zone is operating normally
- ap-south-1b: Availability zone is operating normally

[Service Health Dashboard](#)

**Scheduled Events**

**Asia Pacific (Mumbai):**

No events

**Account Attributes**

**Supported Platforms**

VPC

**Default VPC**

vpc-a655a2ce

**Resource ID length management**

**Additional Information**

- [Getting Started Guide](#)
- [Documentation](#)
- [All EC2 Resources](#)
- [Forums](#)
- [Pricing](#)
- [Contact Us](#)

**AWS Marketplace**

Find free software trial products in the AWS Marketplace from the [EC2 Launch Wizard](#). Or try these popular AMIs:

[Barracuda NextGen Firewall F-Series - PAYG](#)

Provided by Barracuda Networks, Inc.  
Rating ★★★★★  
Starting from \$0.60/hr or from \$4,599/yr (12% savings) for software + AWS usage fees  
[View all Software Infrastructure](#)

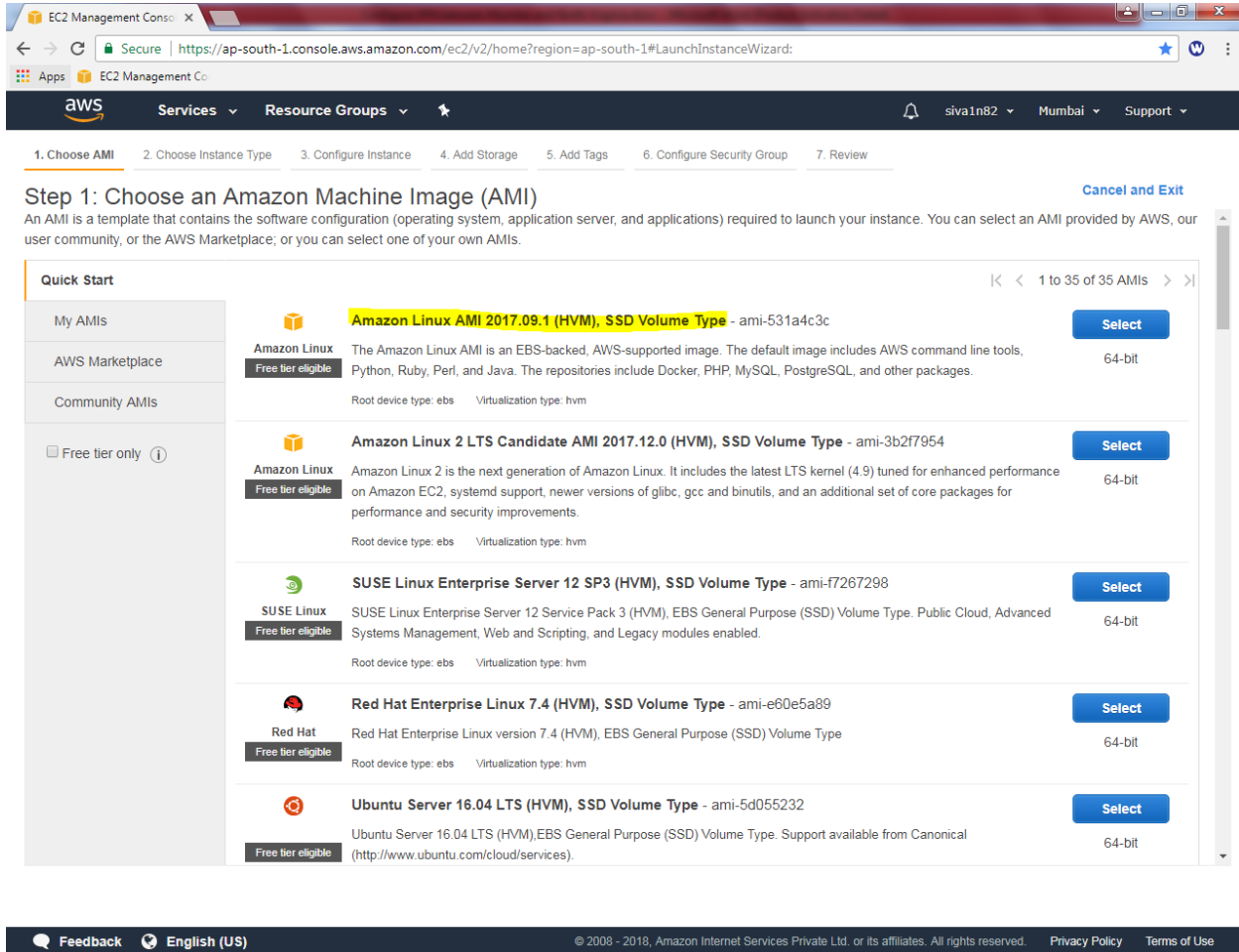
[Splunk Insights for AWS Cloud Monitoring](#)

Provided by Splunk Inc.  
Rating ★★★★★

Feedback English (US)

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## Select “Amazon Linux”



The screenshot shows the AWS Management Console interface for the EC2 Launch Wizard. The browser address bar shows the URL: <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:>. The console header includes the AWS logo, navigation tabs (Services, Resource Groups), and user information (siva1n82, Mumbai, Support).






The wizard progress bar shows seven steps: 1. Choose AMI (active), 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review.

### Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

[Cancel and Exit](#)

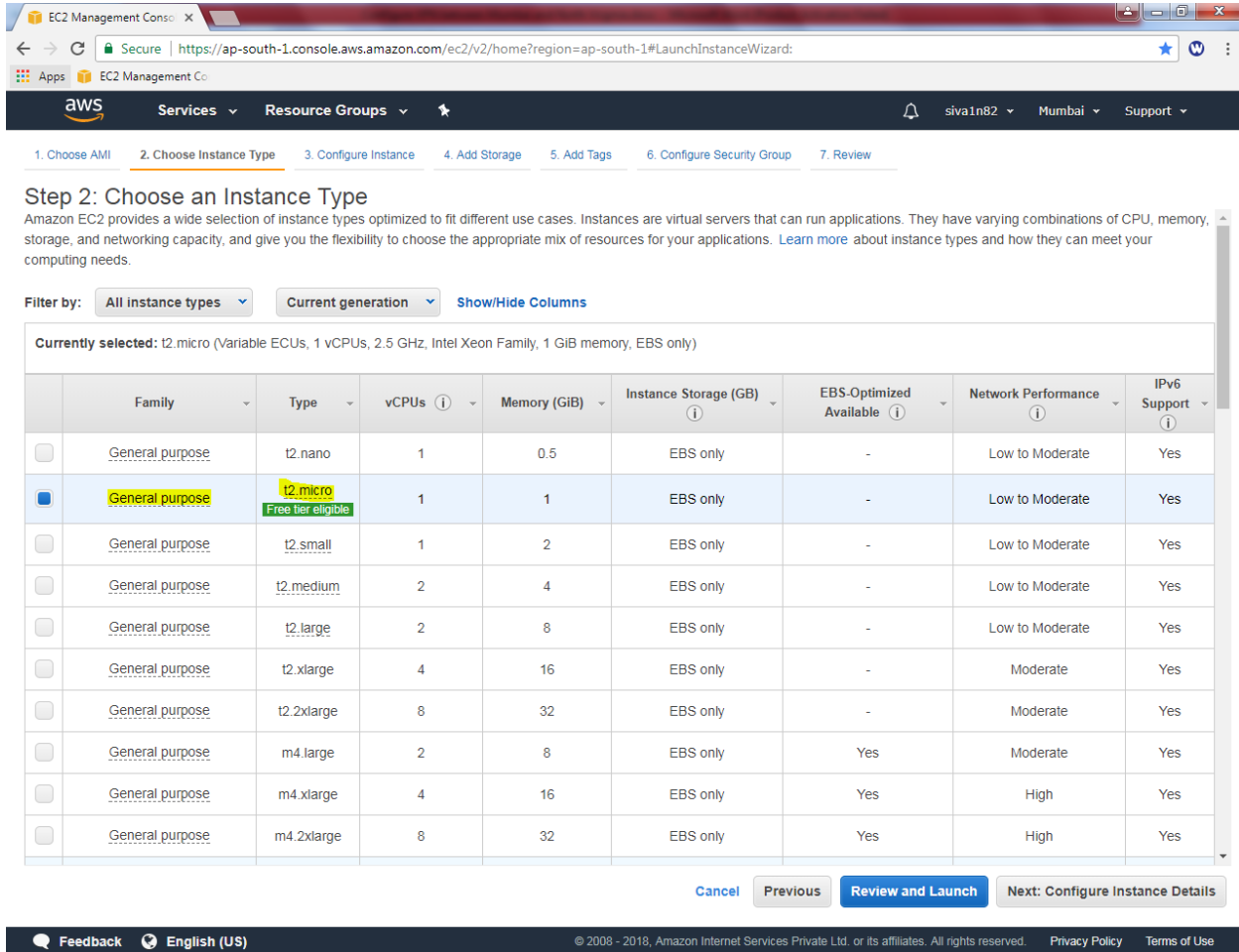
**Quick Start** 1 to 35 of 35 AMIs

AMI Icon	AMI Name	AMI ID	Architecture
	<b>Amazon Linux AMI 2017.09.1 (HVM), SSD Volume Type</b>	ami-531a4c3c	64-bit
	<b>Amazon Linux 2 LTS Candidate AMI 2017.12.0 (HVM), SSD Volume Type</b>	ami-3b2f7954	64-bit
	<b>SUSE Linux Enterprise Server 12 SP3 (HVM), SSD Volume Type</b>	ami-f7267298	64-bit
	<b>Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type</b>	ami-e60e5a89	64-bit
	<b>Ubuntu Server 16.04 LTS (HVM), SSD Volume Type</b>	ami-5d055232	64-bit

Each AMI entry includes a description, root device type (ebs), and virtualization type (hvm). The 'Amazon Linux AMI 2017.09.1' is highlighted as the selected AMI.

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Select General purpose “t2.micro”.



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:>

Apps EC2 Management Console

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

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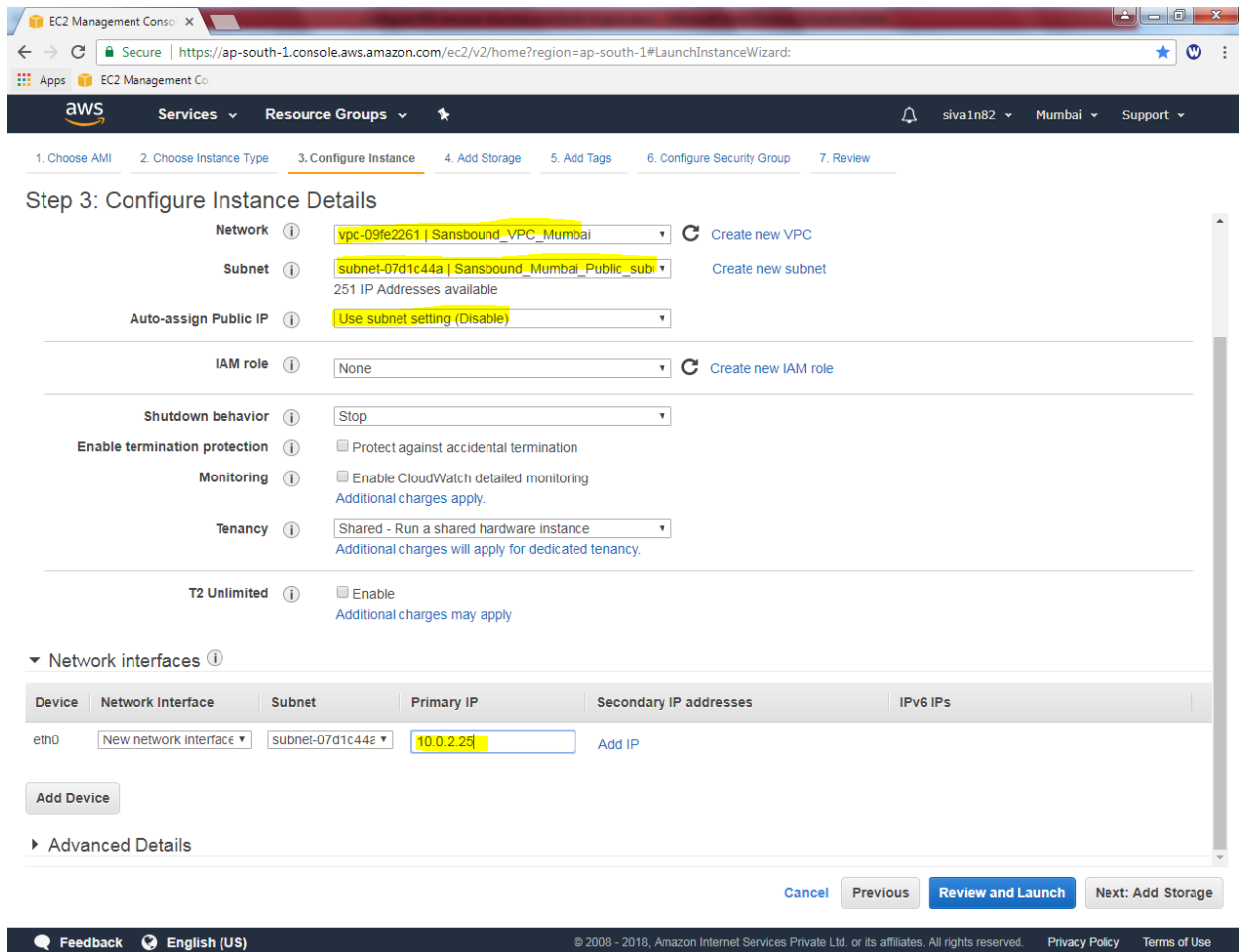
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Click “Next”.

In Network, select Sansbound\_VPC\_Mumbai

Subnet, select Sansbound\_Mumbai\_Public\_subnet

Auto assign Public IP – Disable.



EC2 Management Console

Secure | https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 3: Configure Instance Details

**Network** *i* vpc-09fe2261 | Sansbound\_VPC\_Mumbai [Create new VPC](#)

**Subnet** *i* subnet-07d1c44a | Sansbound\_Mumbai\_Public\_subnet [Create new subnet](#)  
 251 IP Addresses available

**Auto-assign Public IP** *i* Use subnet setting (Disable)

**IAM role** *i* None [Create new IAM role](#)

**Shutdown behavior** *i* Stop

**Enable termination protection** *i* ☐ Protect against accidental termination

**Monitoring** *i* ☐ Enable CloudWatch detailed monitoring  
 Additional charges apply.

**Tenancy** *i* Shared - Run a shared hardware instance  
 Additional charges will apply for dedicated tenancy.

**T2 Unlimited** *i* ☐ Enable  
 Additional charges may apply

**Network interfaces** *i*

Device	Network Interface	Subnet	Primary IP	Secondary IP addresses	IPv6 IPs
eth0	New network interface	subnet-07d1c44a	10.0.2.25	<a href="#">Add IP</a>	

[Add Device](#)

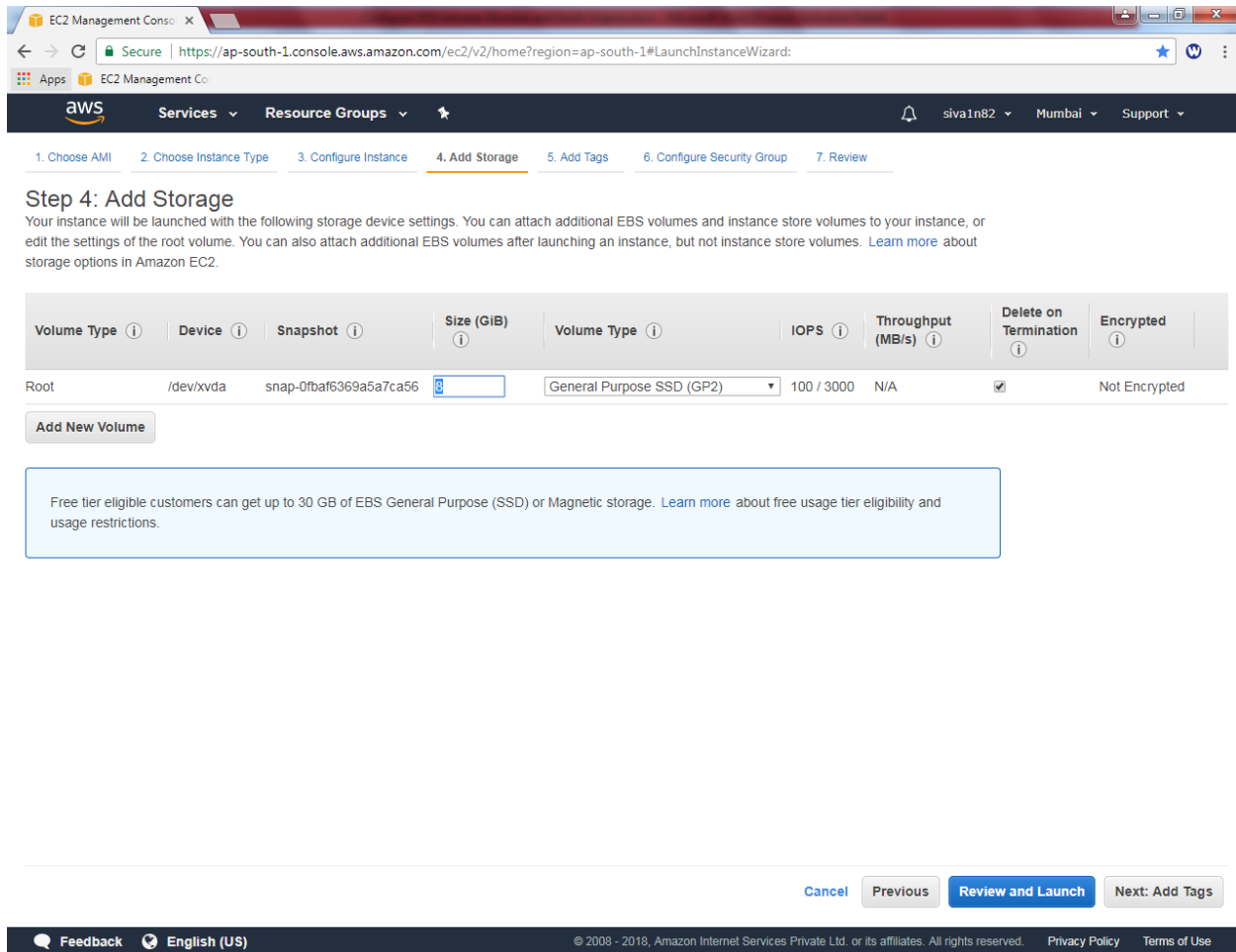
[Advanced Details](#)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

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Type the IP of VPN server as 10.0.2.25 and click “Next”.

Leave default settings and click “next”.



The screenshot shows the AWS Management Console interface for the 'Add Storage' step of the EC2 instance launch wizard. The breadcrumb navigation at the top indicates the steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage (current step), 5. Add Tags, 6. Configure Security Group, and 7. Review.

**Step 4: Add Storage**  
 Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encrypted ⓘ
Root	/dev/xvda	snap-0fbaf6369a5a7ca56	8	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

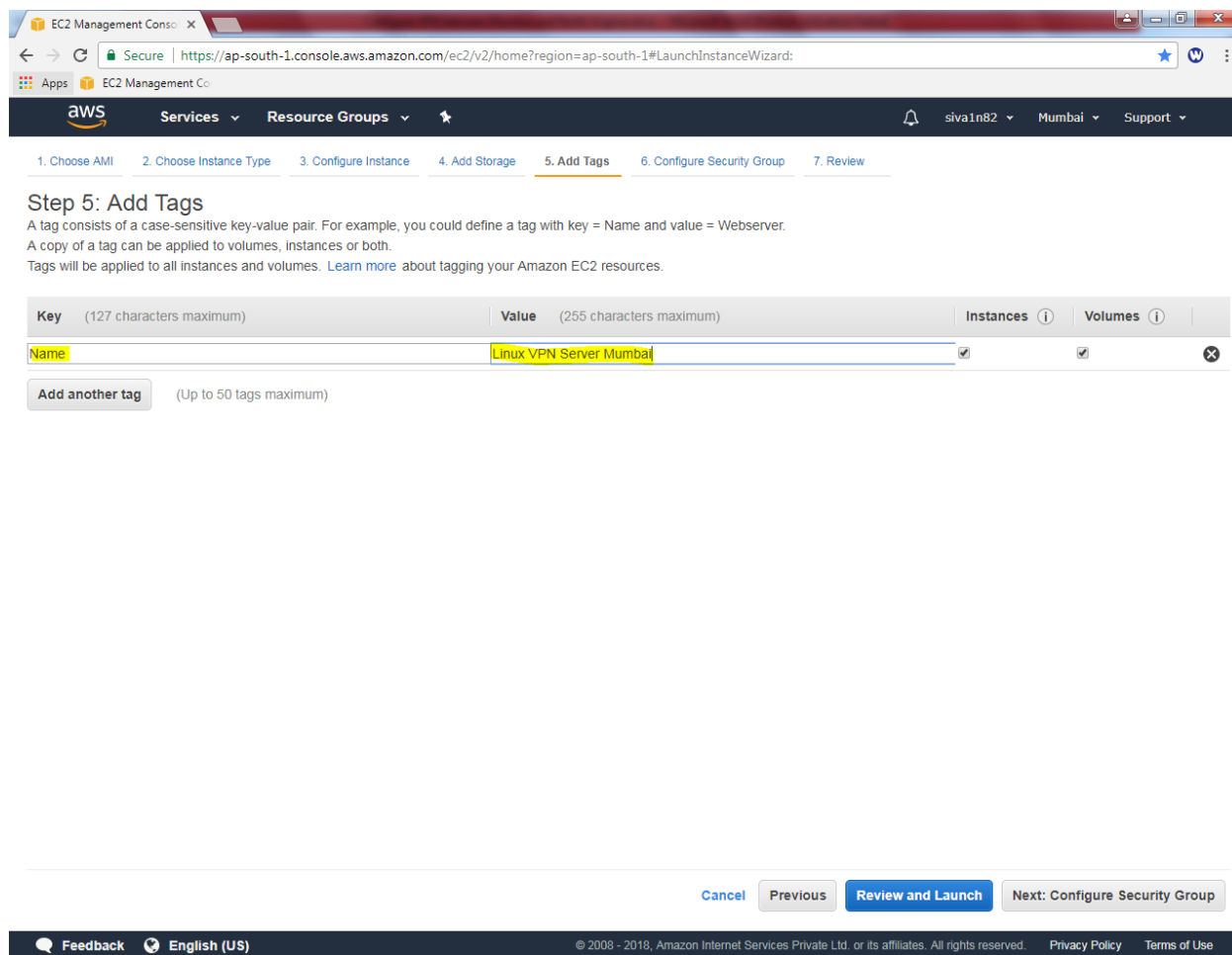
[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

At the bottom of the console, there are navigation buttons: [Cancel](#), [Previous](#), [Review and Launch](#) (highlighted in blue), and [Next: Add Tags](#).

The footer of the console includes a [Feedback](#) link, the language set to [English \(US\)](#), and copyright information: © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. It also includes links to [Privacy Policy](#) and [Terms of Use](#).

Name: Linux VPN Server Mumbai



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:>

Apps EC2 Management Co

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.  
A copy of a tag can be applied to volumes, instances or both.  
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)	Instances <sup>i</sup>	Volumes <sup>i</sup>
Name	Linux VPN Server Mumbai	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

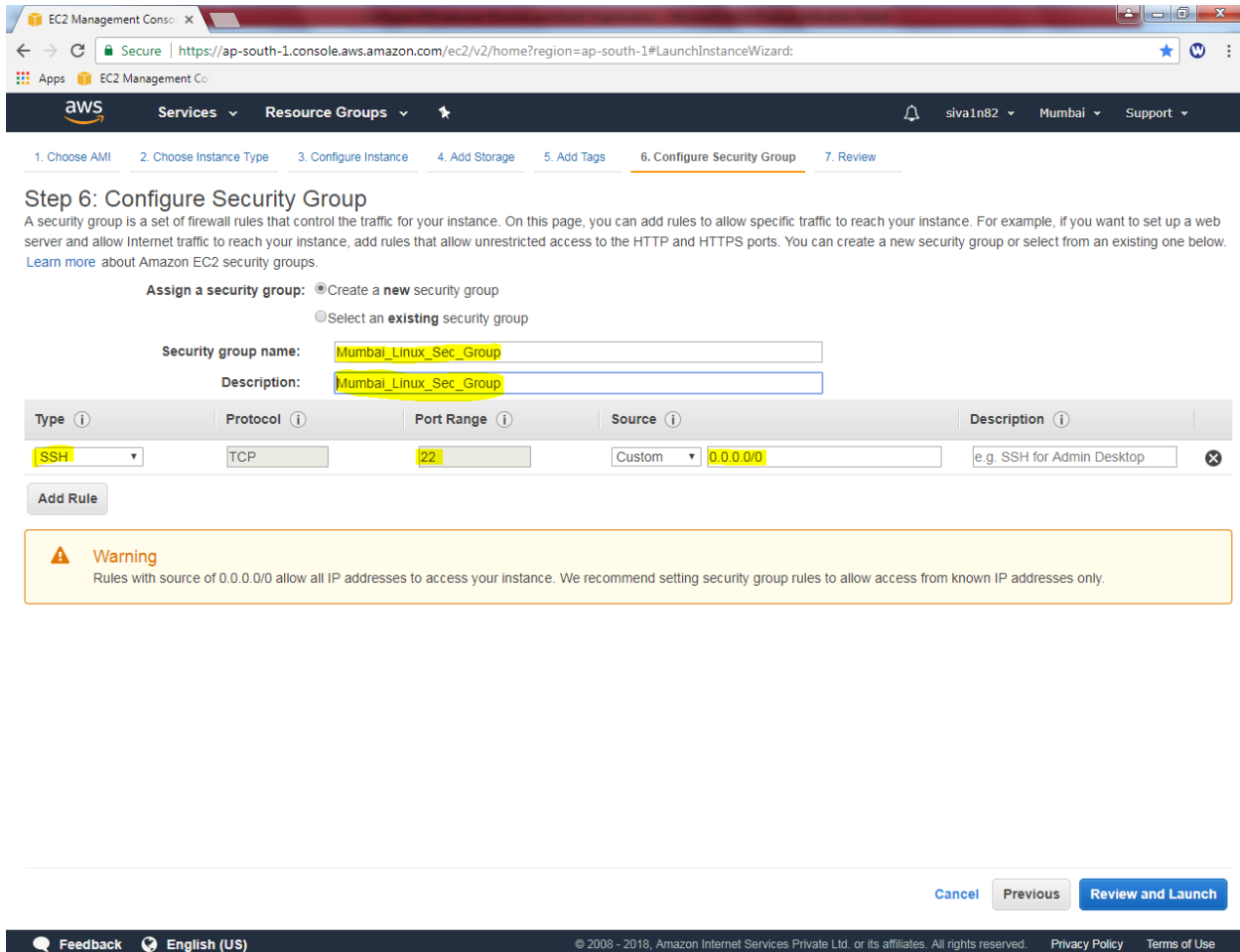
[Add another tag](#) (Up to 50 tags maximum)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

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Click "Next".

Create a new Security Group Name : Mumbai\_Linux\_Sec\_Group



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:>

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

**Warning**

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

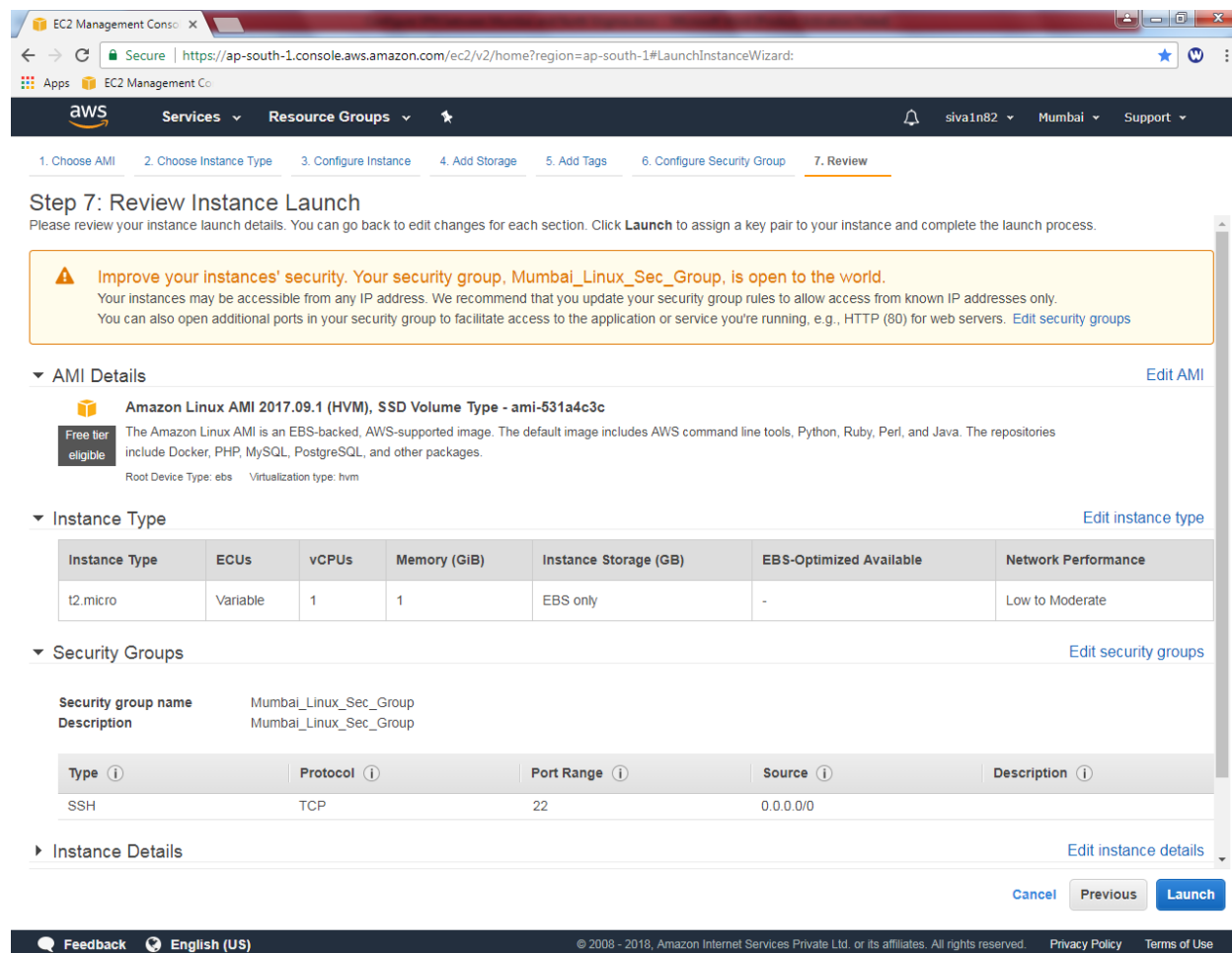
Cancel Previous **Review and Launch**

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Allow 22 port as default. Click Review and Launch.



Click “Launch”.



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:>

Apps EC2 Management Co

aws Services Resource Groups

siva1n82 Mumbai Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**⚠ Improve your instances' security. Your security group, Mumbai\_Linux\_Sec\_Group, is open to the world.**

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)

**Amazon Linux AMI 2017.09.1 (HVM), SSD Volume Type - ami-531a4c3c**

**Free tier eligible**

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

**Security group name** Mumbai\_Linux\_Sec\_Group

**Description** Mumbai\_Linux\_Sec\_Group

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	Description ⓘ
SSH	TCP	22	0.0.0.0/0	

Instance Details [Edit instance details](#)

[Cancel](#) [Previous](#) [Launch](#)

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Click choose an existing key pair and select the key.

### Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair

Select a key pair

Eveningaws

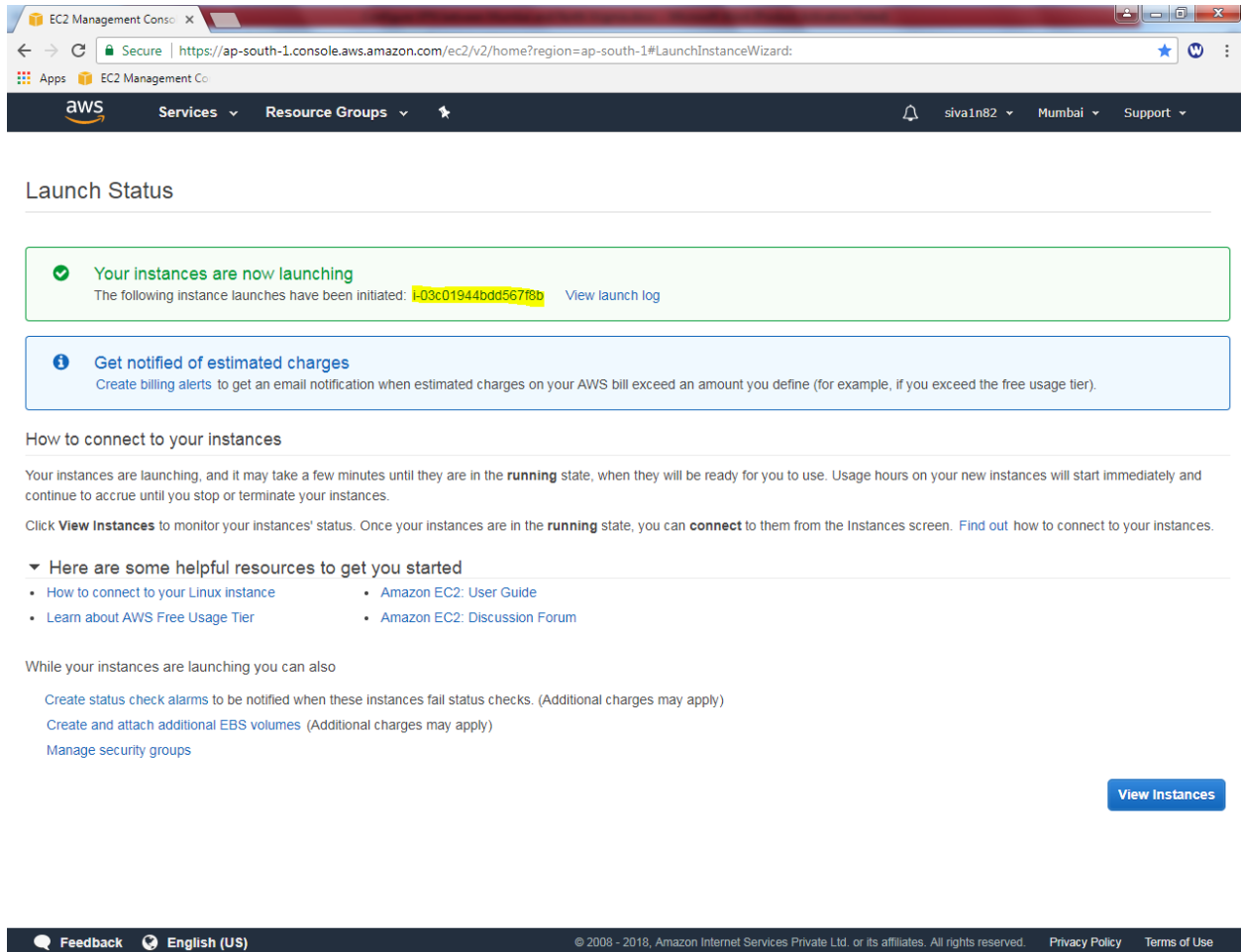
☒ I acknowledge that I have access to the selected private key file (Eveningaws.pem), and that without this file, I won't be able to log into my instance.

Cancel

Launch Instances

Click "Launch Instances".

Click the highlighted area to view instance.



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard>

Apps EC2 Management Co

aws Services Resource Groups

siva1n82 Mumbai Support

### Launch Status

✓ **Your instances are now launching**

The following instance launches have been initiated: **i-03c01944bdd567f8b** [View launch log](#)

ℹ **Get notified of estimated charges**

Create [billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

#### How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ **Here are some helpful resources to get you started**

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

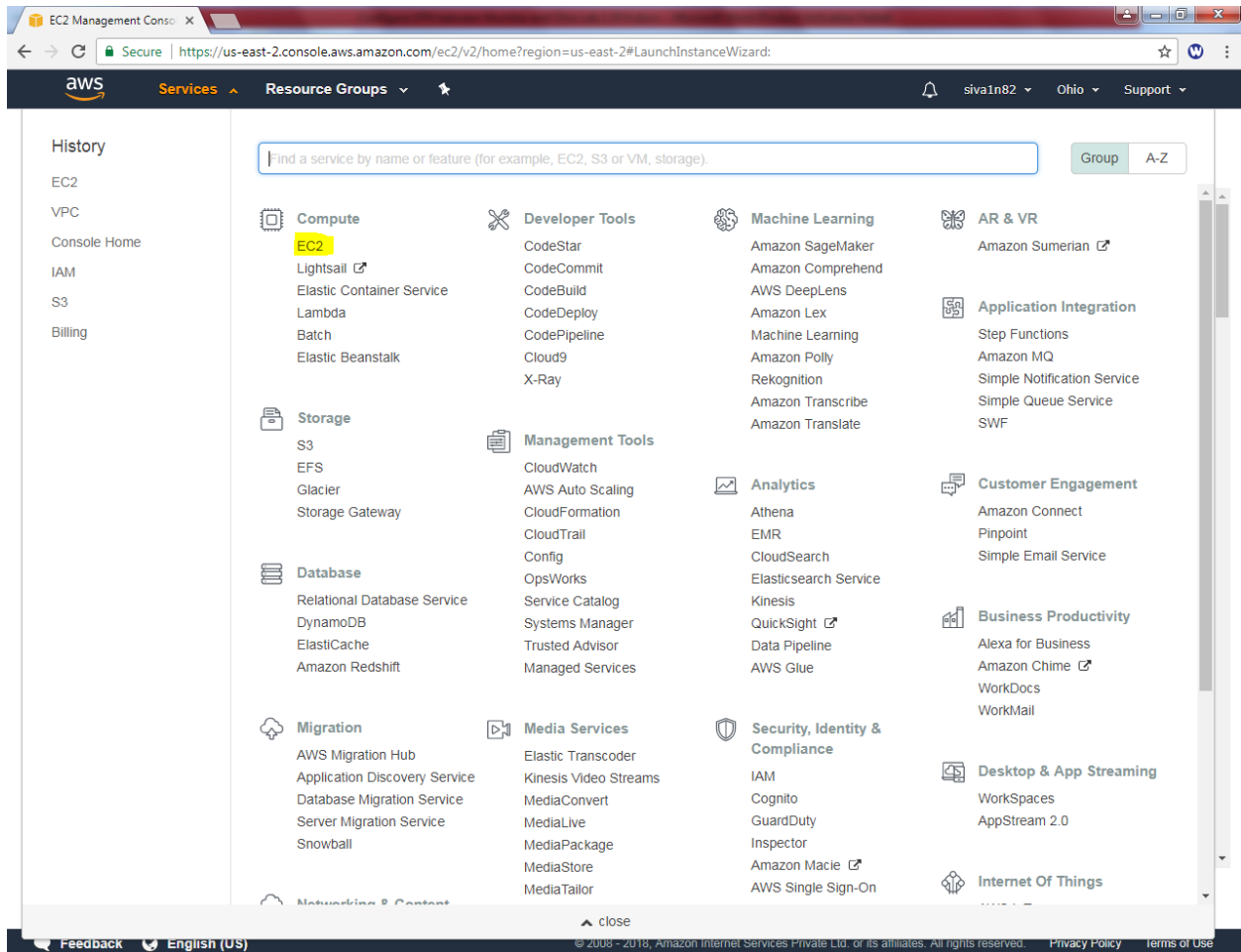
- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)
- [Manage security groups](#)

[View Instances](#)

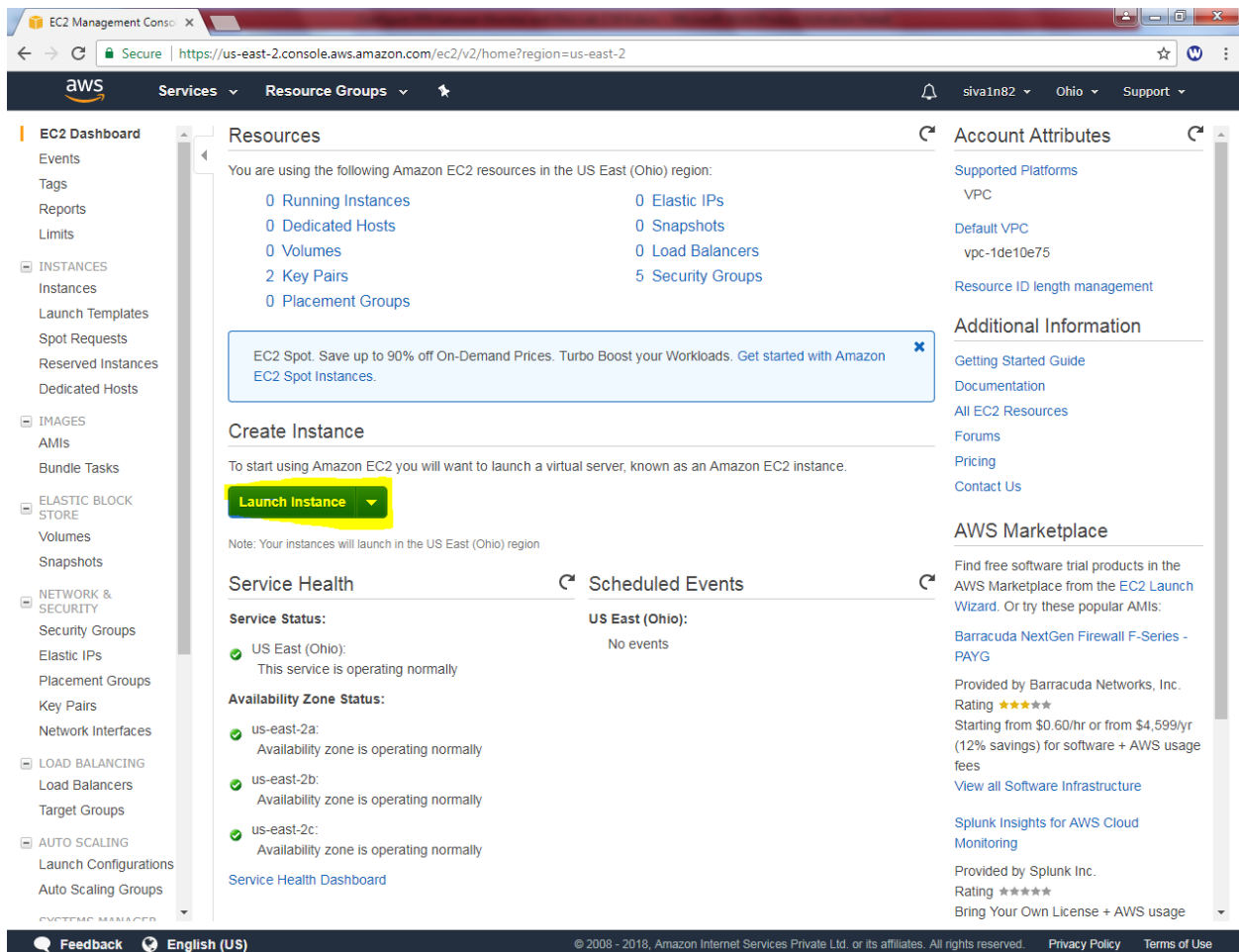
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Go to Ohio region, Click “EC2”.

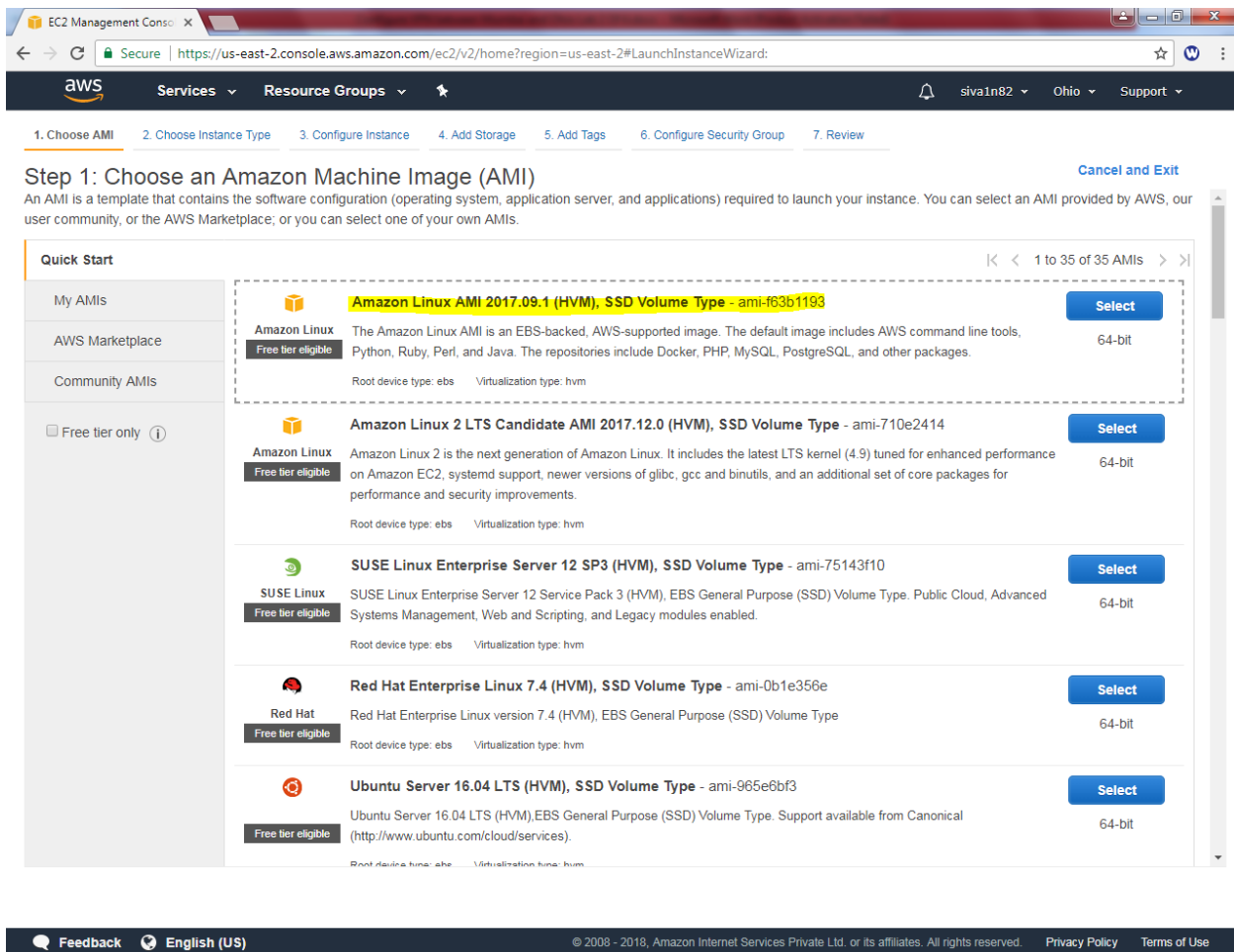


Click “Launch instance”.



The screenshot shows the AWS Management Console for the EC2 service in the US East (Ohio) region. The left sidebar contains a navigation menu with categories like INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, LOAD BALANCING, and AUTO SCALING. The main content area is titled "Resources" and lists various EC2 resources: 0 Running Instances, 0 Elastic IPs, 0 Dedicated Hosts, 0 Snapshots, 0 Volumes, 0 Load Balancers, 2 Key Pairs, 5 Security Groups, and 0 Placement Groups. A prominent yellow box highlights the "Launch Instance" button. Below this, the "Create Instance" section explains that launching an Amazon EC2 instance starts a virtual server. The "Service Health" section shows that the US East (Ohio) service is operating normally across all three availability zones (us-east-2a, us-east-2b, and us-east-2c). The "Scheduled Events" section shows no events. On the right, the "Account Attributes" panel displays supported platforms (VPC), default VPC (vpc-1de10e75), and additional information links like "Getting Started Guide" and "Documentation". The "AWS Marketplace" section lists trial products like Barracuda NextGen Firewall F-Series - PAYG and Splunk Insights for AWS Cloud Monitoring.

Click “Amazon Linux AMI”.



The screenshot shows the AWS EC2 Management Console interface. The browser address bar indicates the URL: <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:>. The console header shows the AWS logo, navigation tabs (Services, Resource Groups), and user information (siva1n82, Ohio, Support).

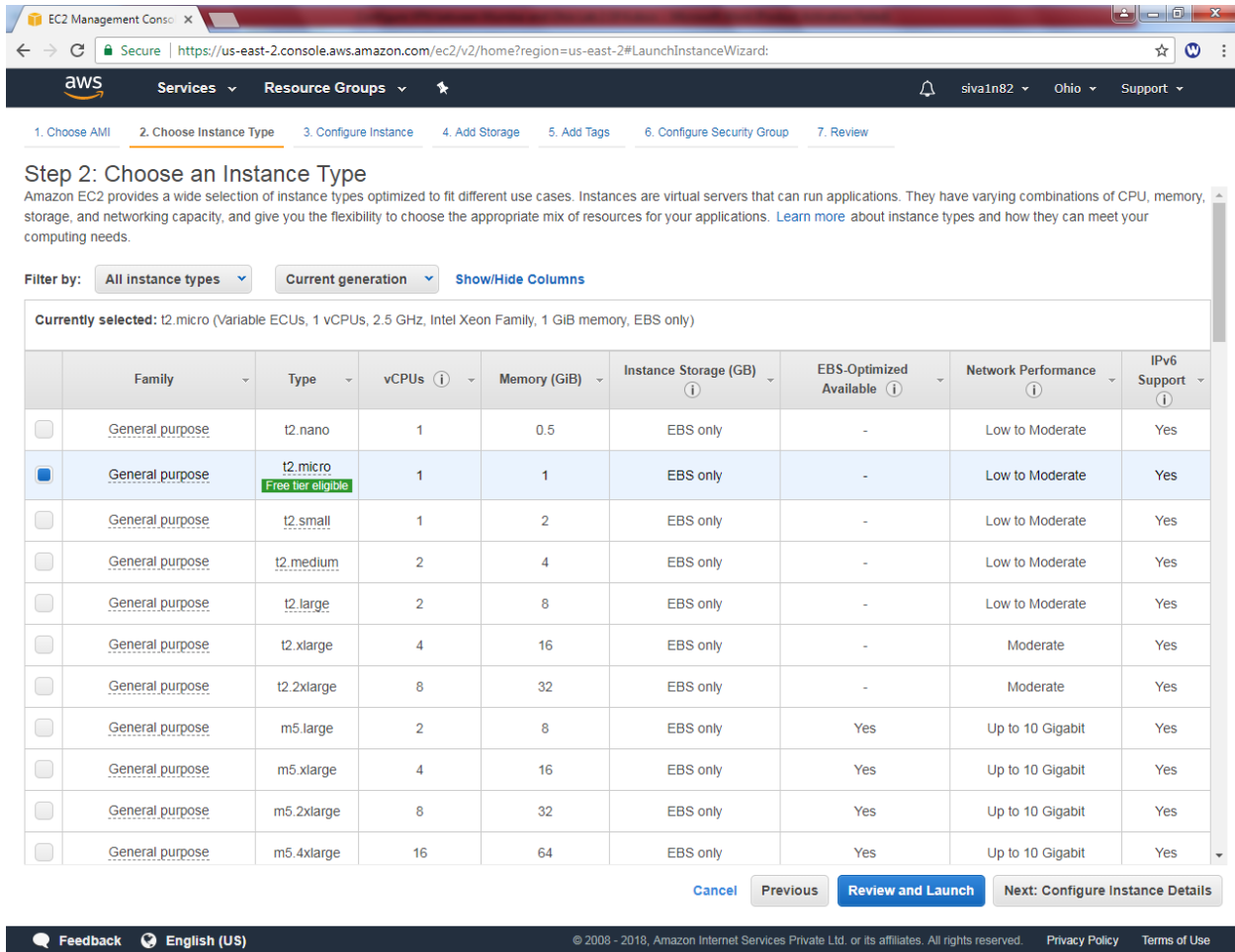
The main content area is titled "Step 1: Choose an Amazon Machine Image (AMI)". Below the title, a description states: "An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs."

The interface displays a list of available AMIs under the "Quick Start" section. The list includes:

- Amazon Linux AMI 2017.09.1 (HVM), SSD Volume Type - ami-f63b1193** (Free tier eligible). Description: The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages. Root device type: ebs, Virtualization type: hvm. 64-bit.
- Amazon Linux 2 LTS Candidate AMI 2017.12.0 (HVM), SSD Volume Type - ami-710e2414** (Free tier eligible). Description: Amazon Linux 2 is the next generation of Amazon Linux. It includes the latest LTS kernel (4.9) tuned for enhanced performance on Amazon EC2, systemd support, newer versions of glibc, gcc and binutils, and an additional set of core packages for performance and security improvements. Root device type: ebs, Virtualization type: hvm. 64-bit.
- SUSE Linux Enterprise Server 12 SP3 (HVM), SSD Volume Type - ami-75143f10** (Free tier eligible). Description: SUSE Linux Enterprise Server 12 Service Pack 3 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled. Root device type: ebs, Virtualization type: hvm. 64-bit.
- Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type - ami-0b1e356e** (Free tier eligible). Description: Red Hat Enterprise Linux version 7.4 (HVM), EBS General Purpose (SSD) Volume Type. Root device type: ebs, Virtualization type: hvm. 64-bit.
- Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-965e6bf3** (Free tier eligible). Description: Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>). Root device type: ebs, Virtualization type: hvm. 64-bit.

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Select General Purpose (t2.micro).



**Step 2: Choose an Instance Type**

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: **All instance types** **Current generation** [Show/Hide Columns](#)

**Currently selected:** t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

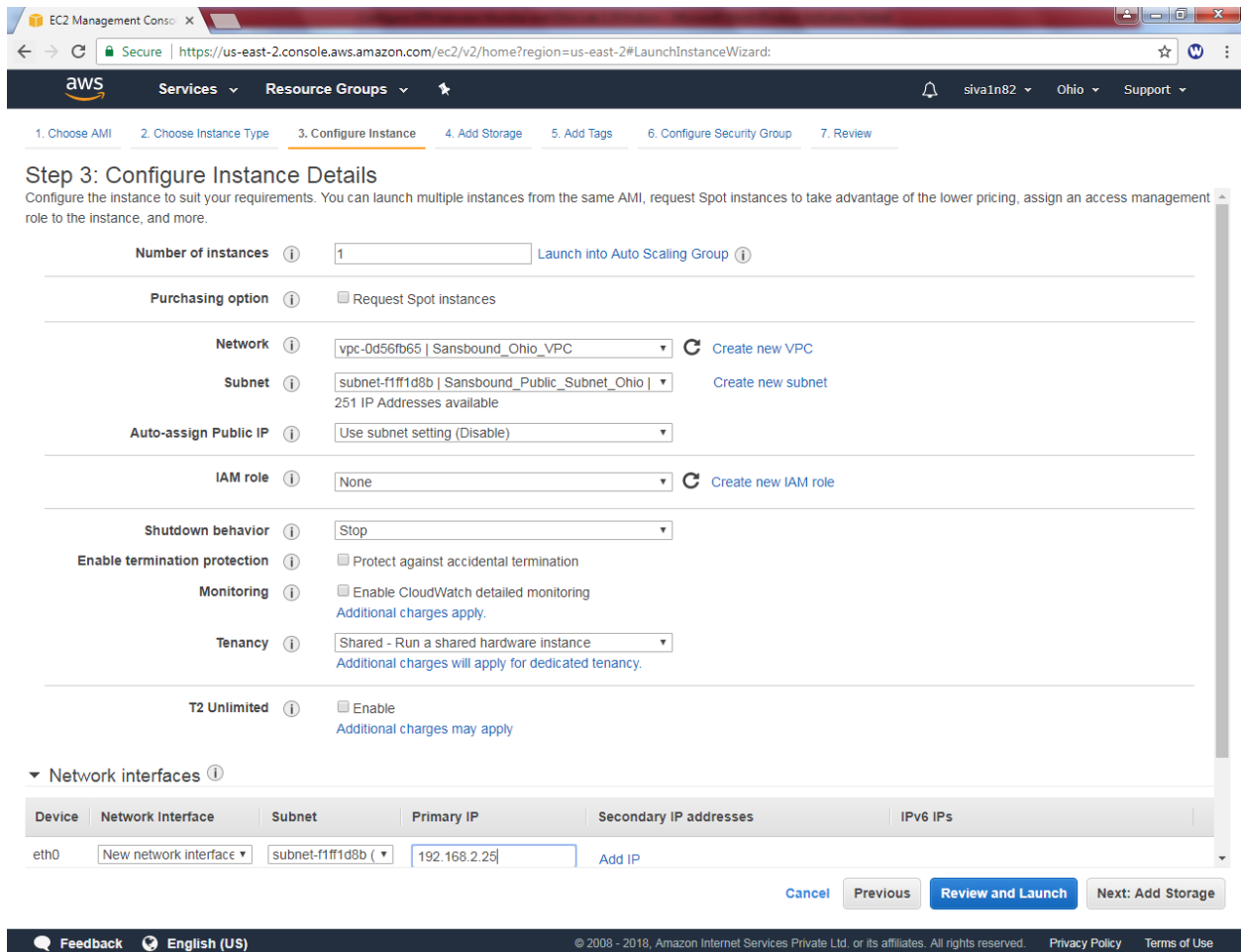
	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro <b>Free tier eligible</b>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	m5.large	2	8	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	General purpose	m5.xlarge	4	16	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	General purpose	m5.2xlarge	8	32	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="checkbox"/>	General purpose	m5.4xlarge	16	64	EBS only	Yes	Up to 10 Gigabit	Yes

[Cancel](#)
[Previous](#)
[Review and Launch](#)
[Next: Configure Instance Details](#)

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Click “Next”.

Select network as “Sanbound\_Ohio\_VPC”, subnet as “Sansbound Private Subnet” and Auto-assign Public IP as disable.



**Step 3: Configure Instance Details**  
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

**Number of instances** 1 [Launch into Auto Scaling Group](#)

**Purchasing option** ☐ Request Spot Instances

**Network** vpc-0d56fb65 | Sansbound\_Ohio\_VPC [Create new VPC](#)

**Subnet** subnet-f1ff1d8b | Sansbound\_Public\_Subnet\_Ohio [Create new subnet](#)  
251 IP Addresses available

**Auto-assign Public IP** Use subnet setting (Disable)

**IAM role** None [Create new IAM role](#)

**Shutdown behavior** Stop

**Enable termination protection** ☐ Protect against accidental termination

**Monitoring** ☐ Enable CloudWatch detailed monitoring  
Additional charges apply.

**Tenancy** Shared - Run a shared hardware instance  
Additional charges will apply for dedicated tenancy.

**T2 Unlimited** ☐ Enable  
Additional charges may apply

**Network interfaces**

Device	Network Interface	Subnet	Primary IP	Secondary IP addresses	IPv6 IPs
eth0	New network interface	subnet-f1ff1d8b	192.168.2.25	<a href="#">Add IP</a>	

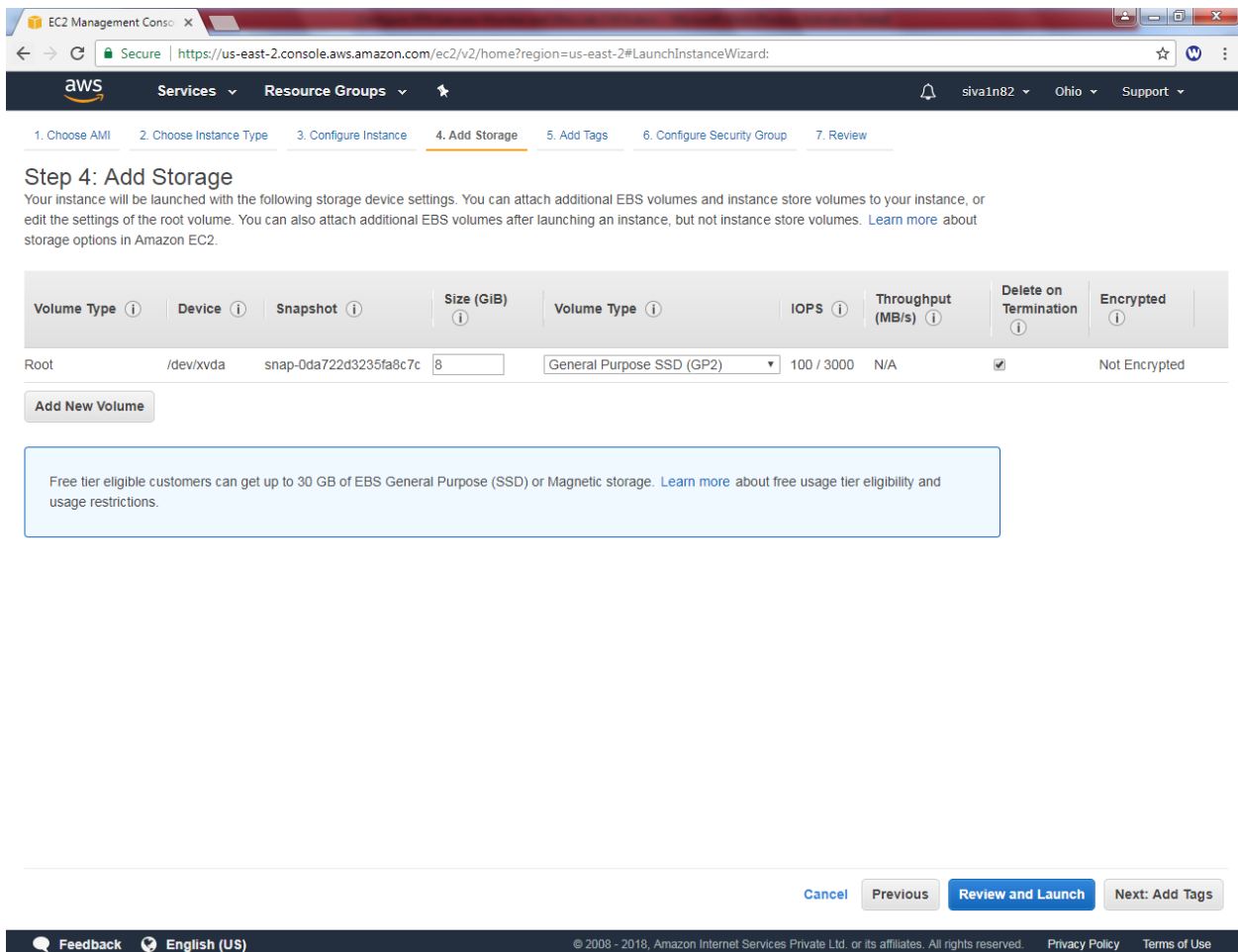
[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

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Assign the interface ip as 192.168.2.25 and click “Next”.



Leave default settings and click “Next”.



The screenshot shows the AWS Management Console 'Add Storage' step for an EC2 instance. The breadcrumb navigation at the top indicates the steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage (current step), 5. Add Tags, 6. Configure Security Group, and 7. Review. The page title is 'Step 4: Add Storage'. Below the title, a paragraph explains that the instance will be launched with the following storage device settings and that additional EBS volumes can be attached after launching. A table displays the storage settings for the 'Root' volume. The table has columns for Volume Type, Device, Snapshot, Size (GiB), Volume Type, IOPS, Throughput (MB/s), Delete on Termination, and Encrypted. The 'Root' volume is configured with device '/dev/xvda', snapshot 'snap-0da722d3235fa8c7c', size '8', volume type 'General Purpose SSD (GP2)', IOPS '100 / 3000', throughput 'N/A', 'Delete on Termination' checked, and 'Not Encrypted'. Below the table is an 'Add New Volume' button. A blue information box states that free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. At the bottom right, there are buttons for 'Cancel', 'Previous', 'Review and Launch' (highlighted in blue), and 'Next: Add Tags'. The footer includes a 'Feedback' link, 'English (US)' language selection, and copyright information for Amazon Internet Services Private Ltd.

EC2 Management Console

Secure | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard>

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-0da722d3235fa8c7c	8	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

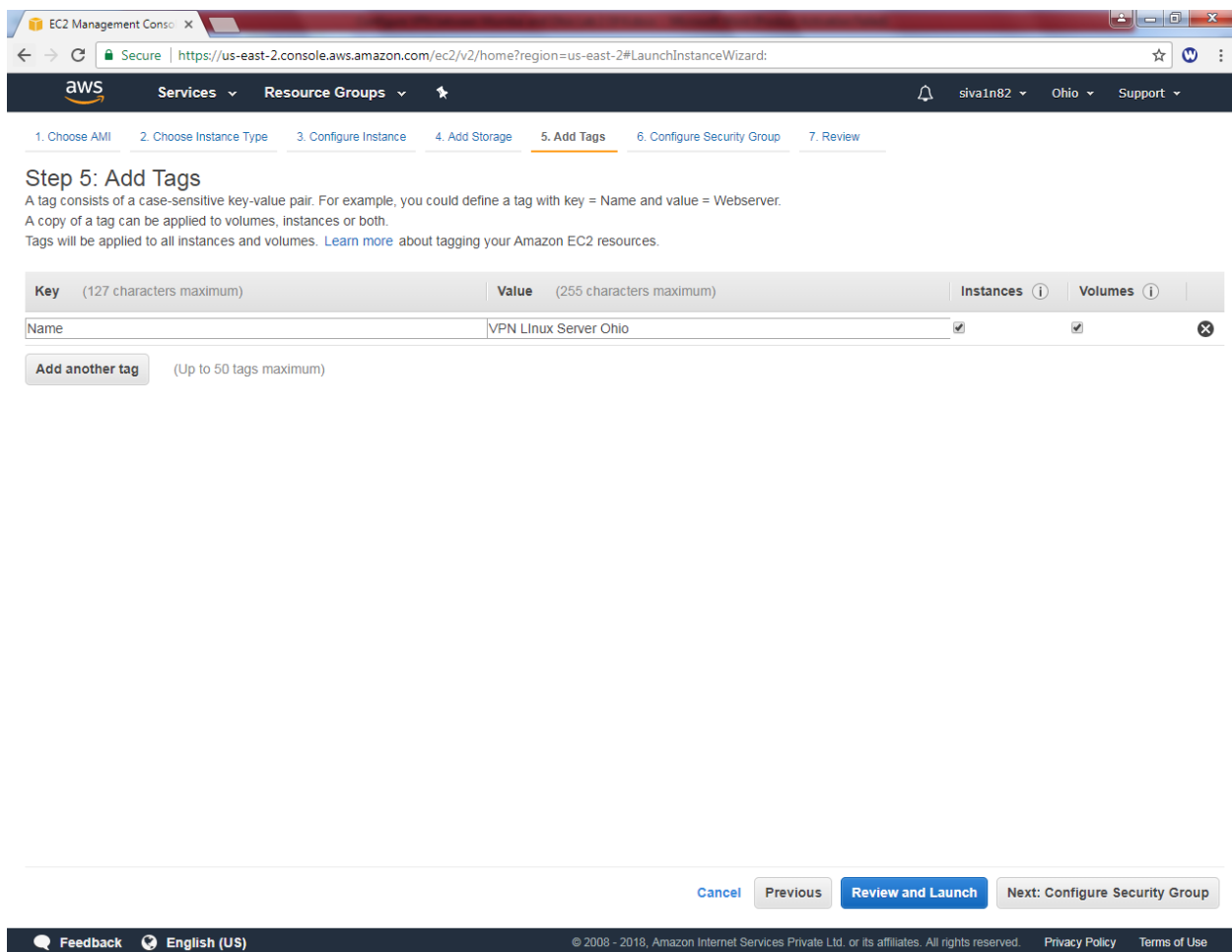
[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)

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Key as name and Value “VPN Linux Server Ohio”.



EC2 Management Console

Secure | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:>

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.  
A copy of a tag can be applied to volumes, instances or both.  
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)	Instances ⓘ	Volumes ⓘ
Name	VPN Linux Server Ohio	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

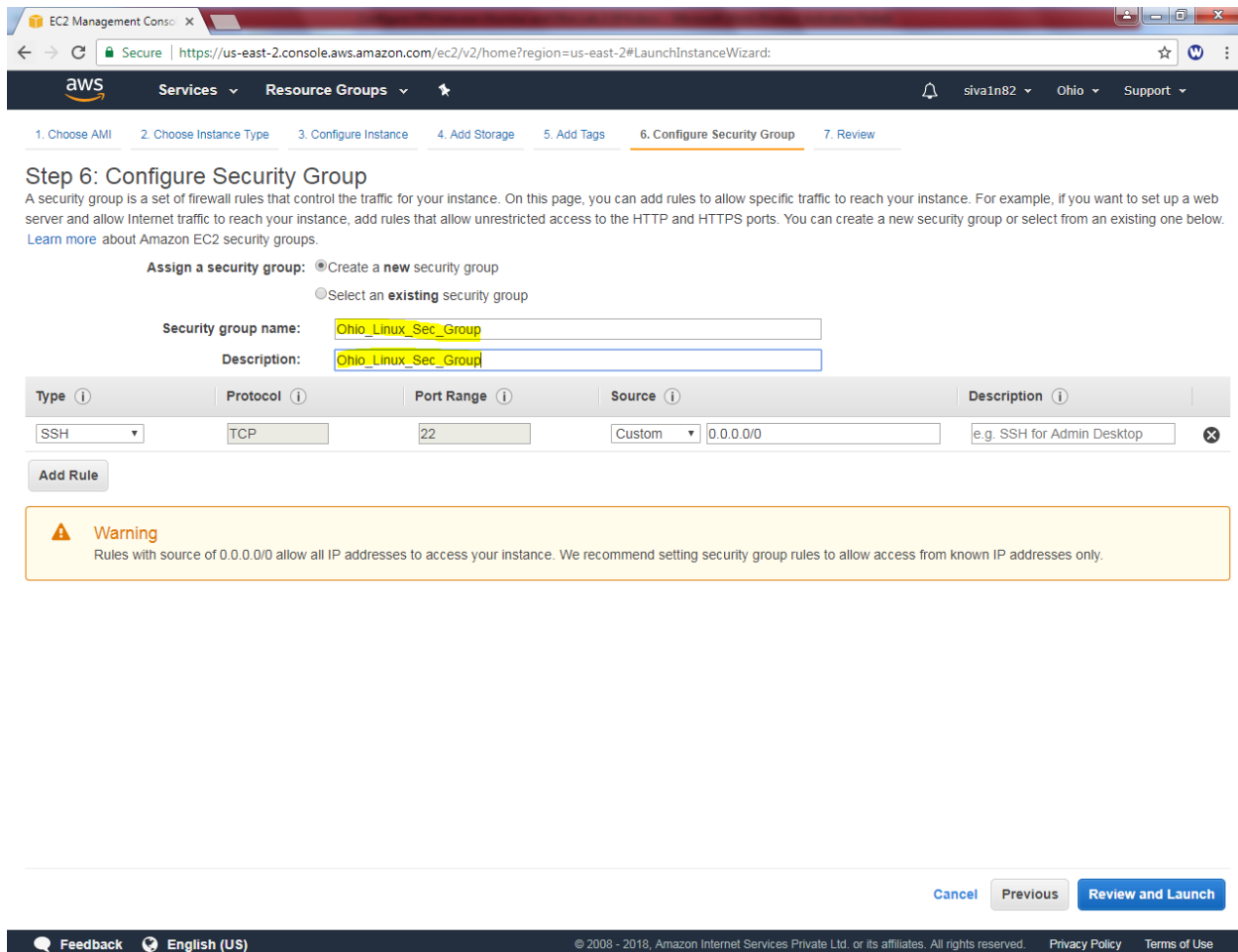
[Add another tag](#) (Up to 50 tags maximum)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

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Click “Next”.

Create a new security group as Ohio\_Linux\_Sec\_Group.



EC2 Management Console

Secure | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard>

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

**Assign a security group:** ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

**Warning**

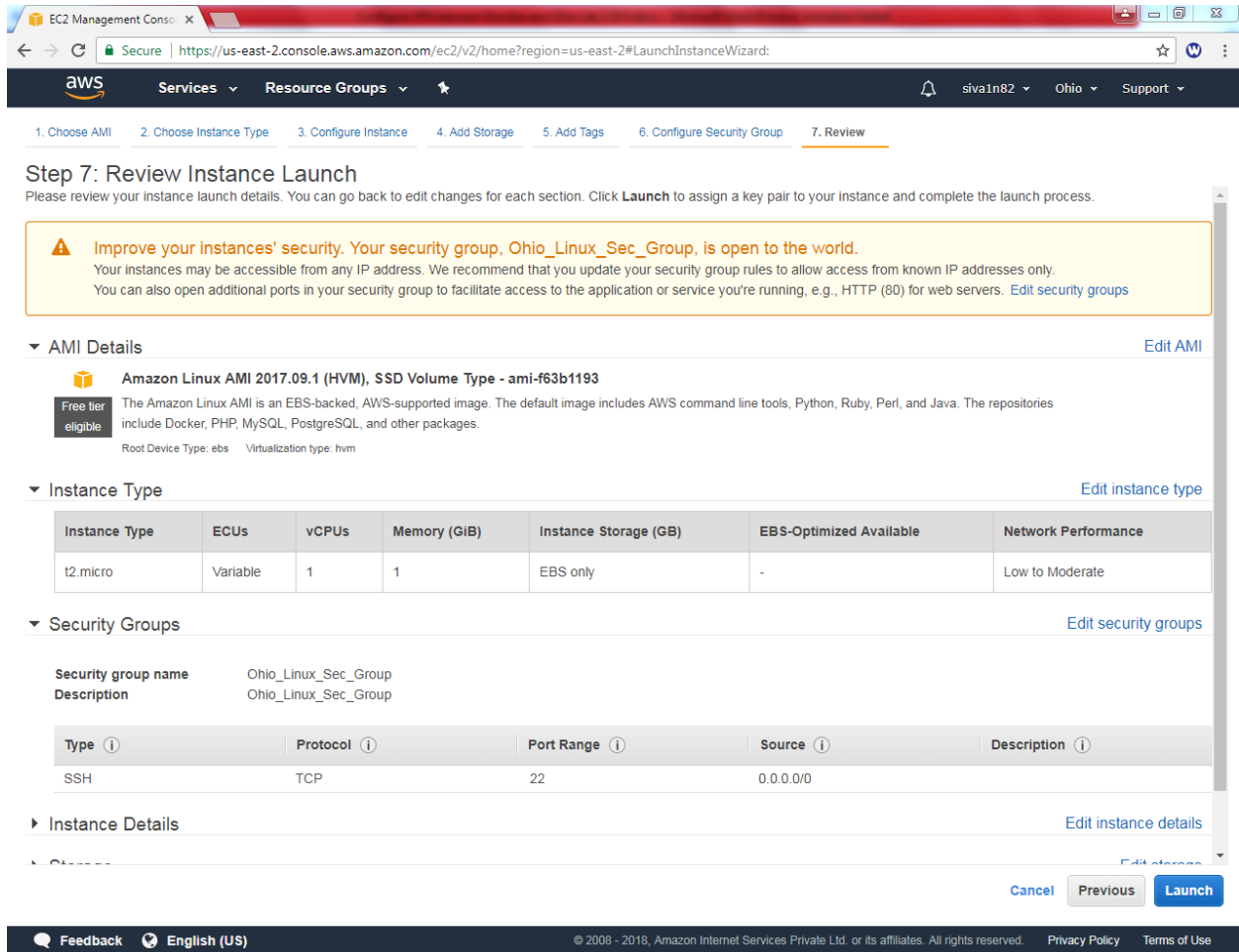
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous **Review and Launch**

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Click “Review and Launch”

Click “Launch”.



EC2 Management Console

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**Improve your instances' security. Your security group, Ohio\_Linux\_Sec\_Group, is open to the world.**

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

**AMI Details** [Edit AMI](#)

**Amazon Linux AMI 2017.09.1 (HVM), SSD Volume Type - ami-f63b1193**

**Free tier eligible** The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root Device Type: ebs Virtualization type: hvm

**Instance Type** [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

**Security Groups** [Edit security groups](#)

**Security group name** Ohio\_Linux\_Sec\_Group

**Description** Ohio\_Linux\_Sec\_Group

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	Description ⓘ
SSH	TCP	22	0.0.0.0/0	

**Instance Details** [Edit instance details](#)

[Cancel](#) [Previous](#) [Launch](#)

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While launch instance, it asks for “Select an existing key pair or create a new key pair”. You can choose an existing key pair and choose the existing key. If you don’t have key need to generate the key.

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair

Select a key pair

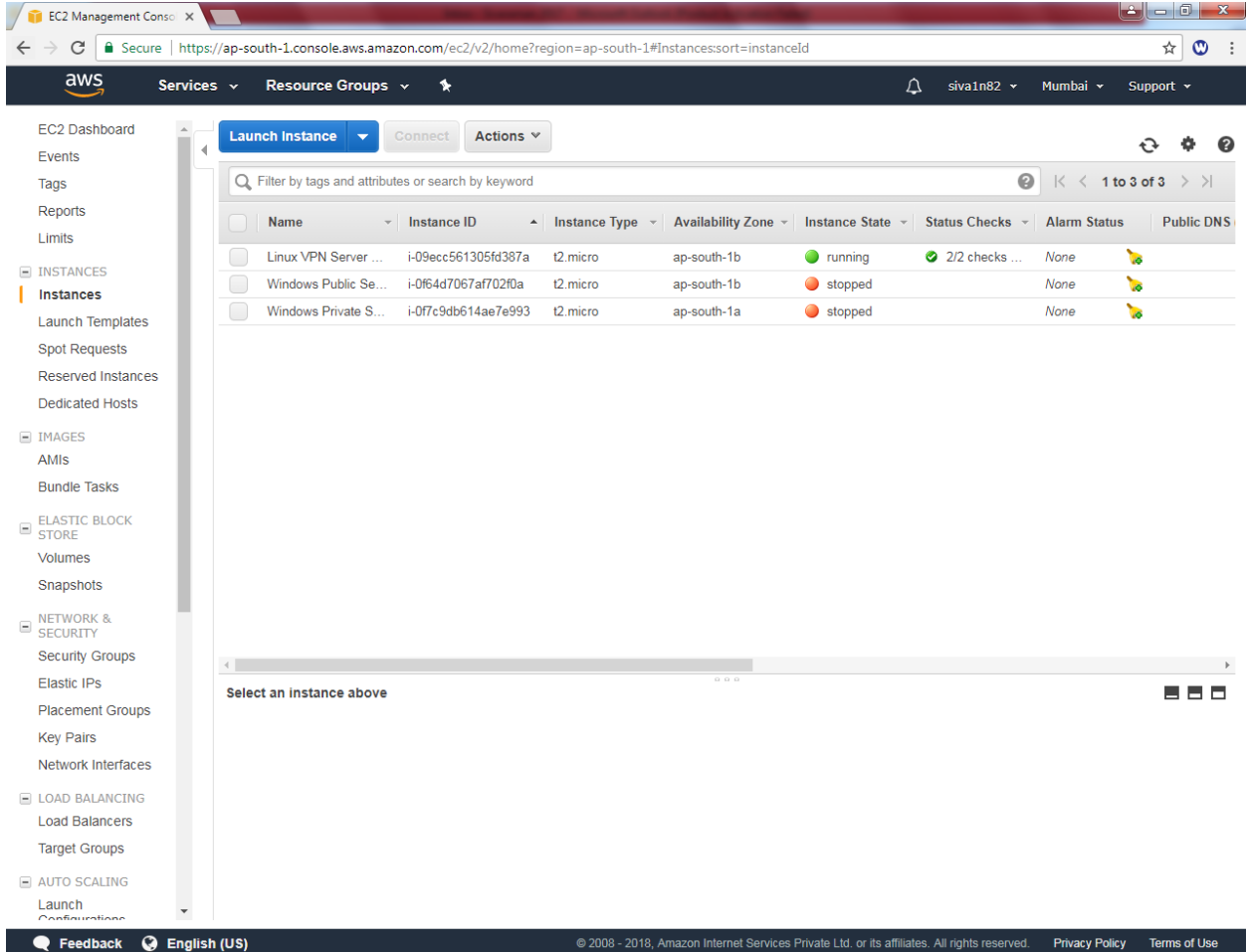
siva\_ohio

☒ I acknowledge that I have access to the selected private key file (siva\_ohio.pem), and that without this file, I won't be able to log into my instance.

CancelLaunch Instances

Click “Launch Instance”.

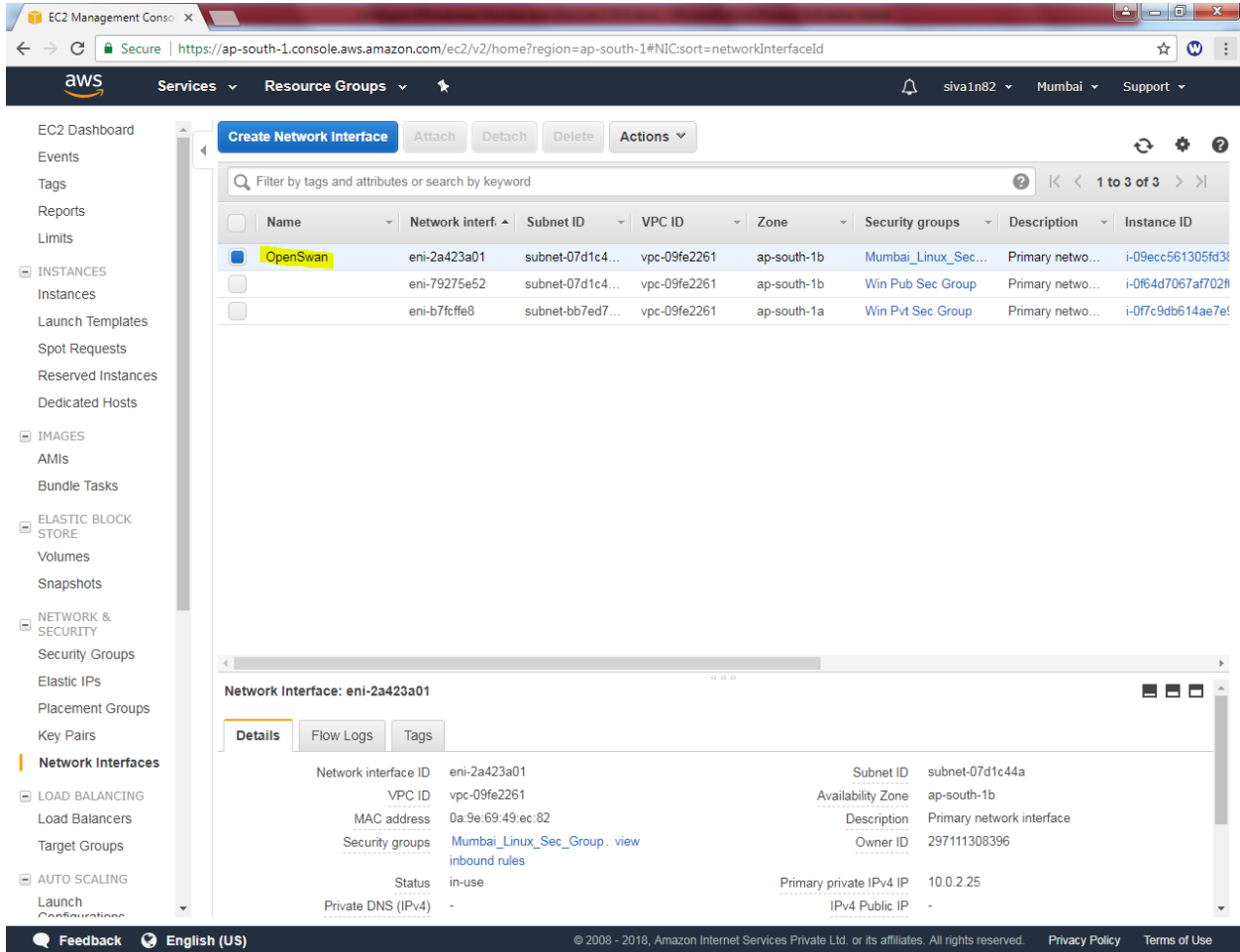
Goto “Mumbai”region.



The screenshot displays the AWS Management Console interface for the Mumbai region. The left-hand navigation pane lists various services, with 'INSTANCES' expanded and 'Instances' selected. The main content area shows a table of EC2 instances. The table has columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, and Public DNS. Three instances are listed: 'Linux VPN Server ...' (running), 'Windows Public Se...' (stopped), and 'Windows Private S...' (stopped). Below the table, there is a section titled 'Select an instance above' with three small icons.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
Linux VPN Server ...	i-09ecc561305fd387a	t2.micro	ap-south-1b	running	2/2 checks ...	None	
Windows Public Se...	i-0f64d7067af702f0a	t2.micro	ap-south-1b	stopped		None	
Windows Private S...	i-0f7c9db614ae7e993	t2.micro	ap-south-1a	stopped		None	

Rename the interface as “Open Swan”.



The screenshot shows the AWS Management Console for the 'ap-south-1' region. The left sidebar shows the navigation menu with 'Network Interfaces' selected. The main content area displays a table of network interfaces. The first interface, 'eni-2a423a01', is highlighted and its name is changed to 'OpenSwan'. Below the table, the details for this interface are shown.

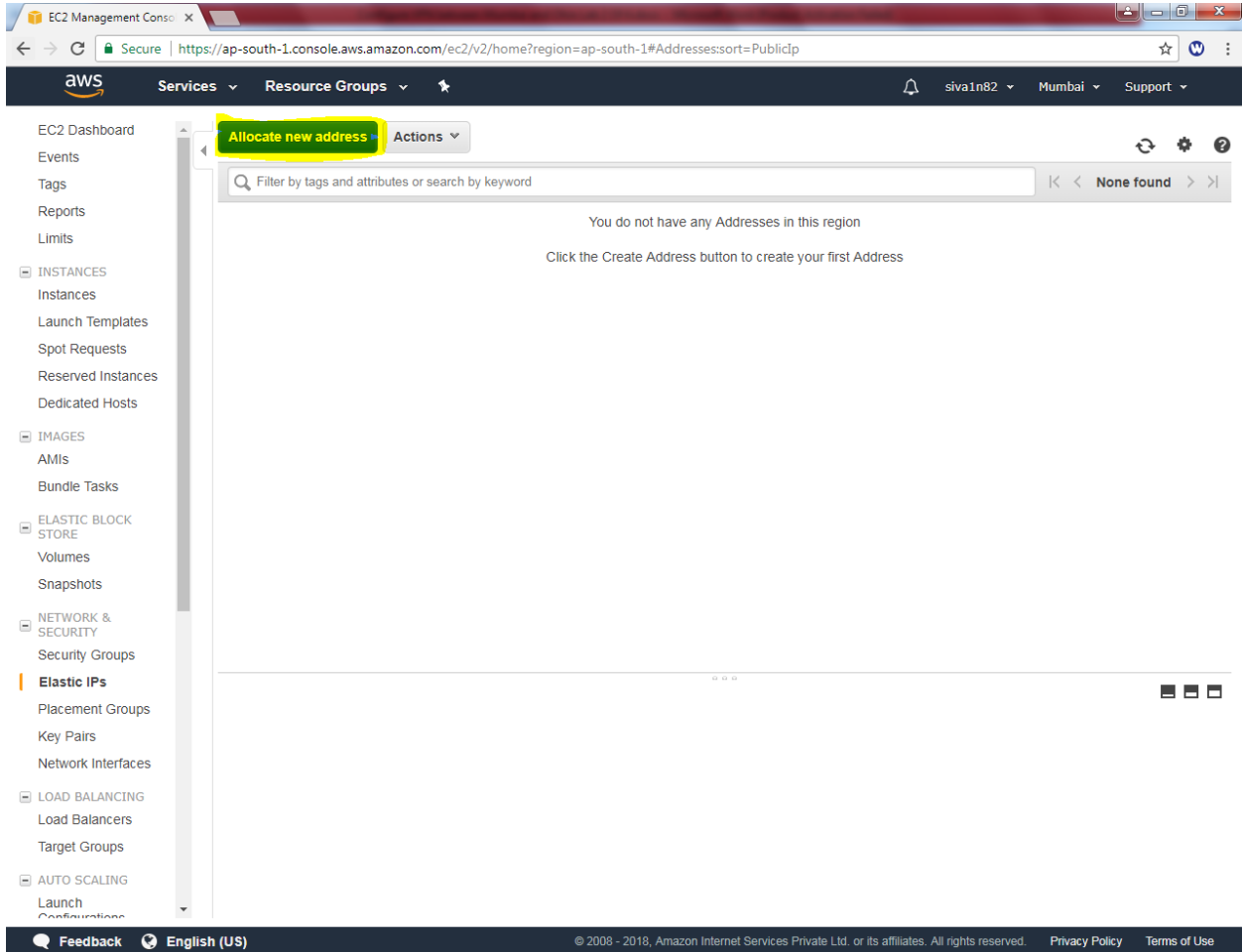
Name	Network interf.	Subnet ID	VPC ID	Zone	Security groups	Description	Instance ID
<b>OpenSwan</b>	eni-2a423a01	subnet-07d1c4...	vpc-09fe2261	ap-south-1b	Mumbai_Linux_Sec...	Primary netwo...	i-09ecc561305fd38
	eni-79275e52	subnet-07d1c4...	vpc-09fe2261	ap-south-1b	Win Pub Sec Group	Primary netwo...	i-0f64d7067af702f
	eni-b7fcfe8	subnet-bb7ed7...	vpc-09fe2261	ap-south-1a	Win Pvt Sec Group	Primary netwo...	i-0f7c9db614ae7e

**Network Interface: eni-2a423a01**

Property	Value
Network interface ID	eni-2a423a01
VPC ID	vpc-09fe2261
Subnet ID	subnet-07d1c44a
Availability Zone	ap-south-1b
MAC address	0a:9e:69:49:ec:82
Description	Primary network interface
Security groups	Mumbai_Linux_Sec_Group . view inbound rules
Owner ID	297111308396
Status	in-use
Primary private IPv4 IP	10.0.2.25
Private DNS (IPv4)	-
IPv4 Public IP	-

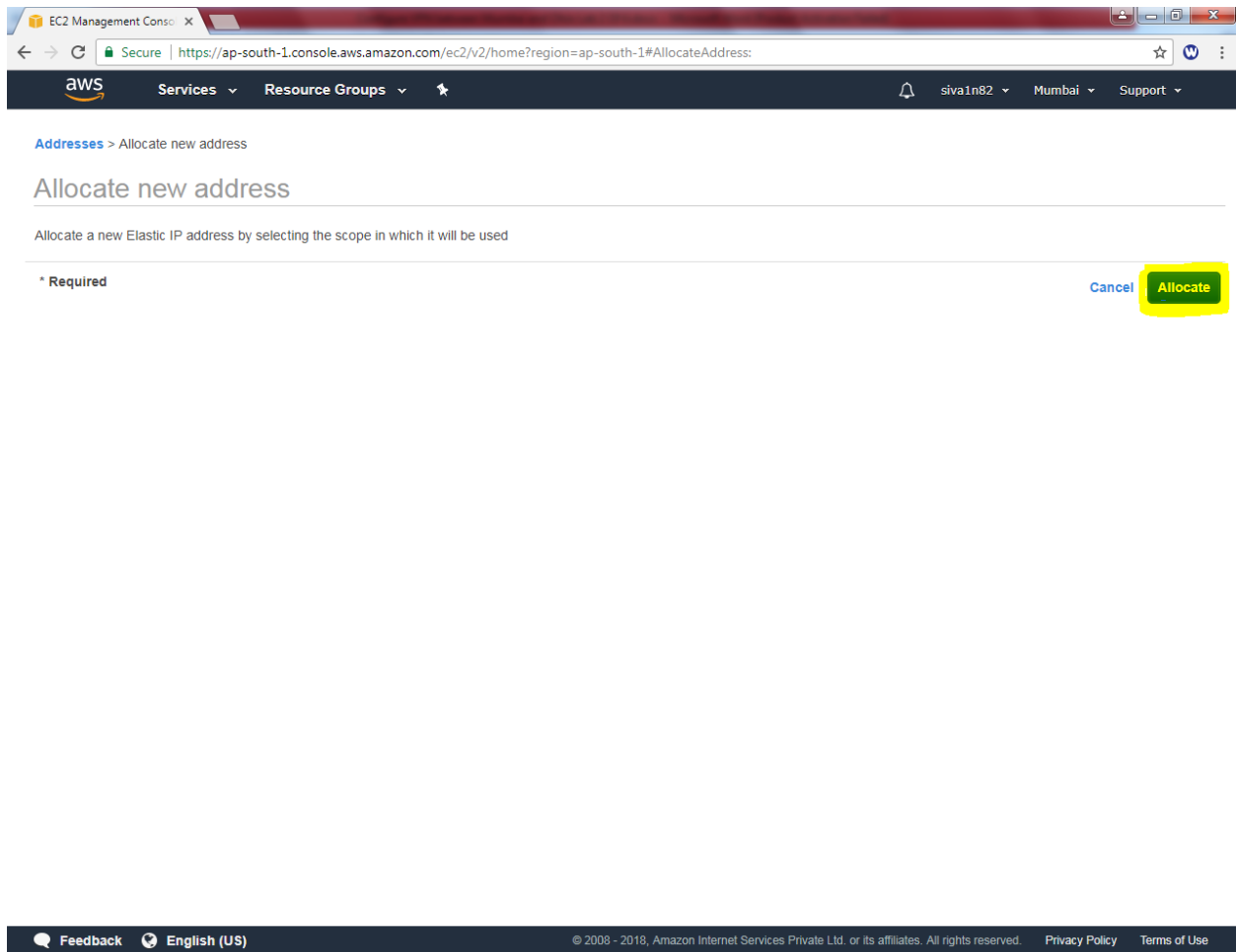
Click “Elastic IP” and then click “Allocate new address”.



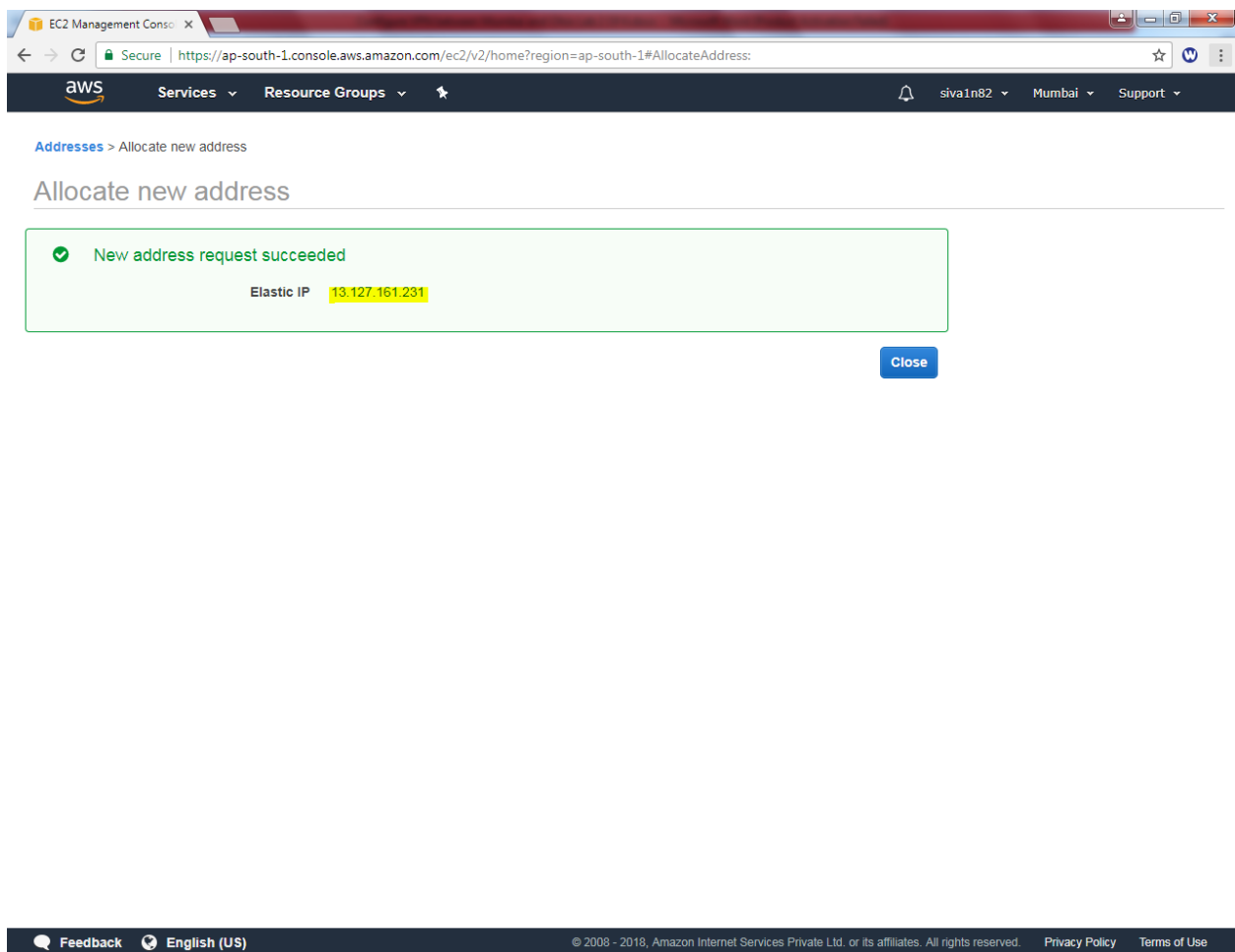
The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The left sidebar lists various services, with 'Elastic IPs' highlighted under the 'NETWORK & SECURITY' category. The main content area shows a message: 'You do not have any Addresses in this region. Click the Create Address button to create your first Address.' The 'Allocate new address' button is highlighted in the top left of the main content area. The bottom of the console shows a footer with 'Feedback', 'English (US)', and copyright information.



Click “Allocate”.

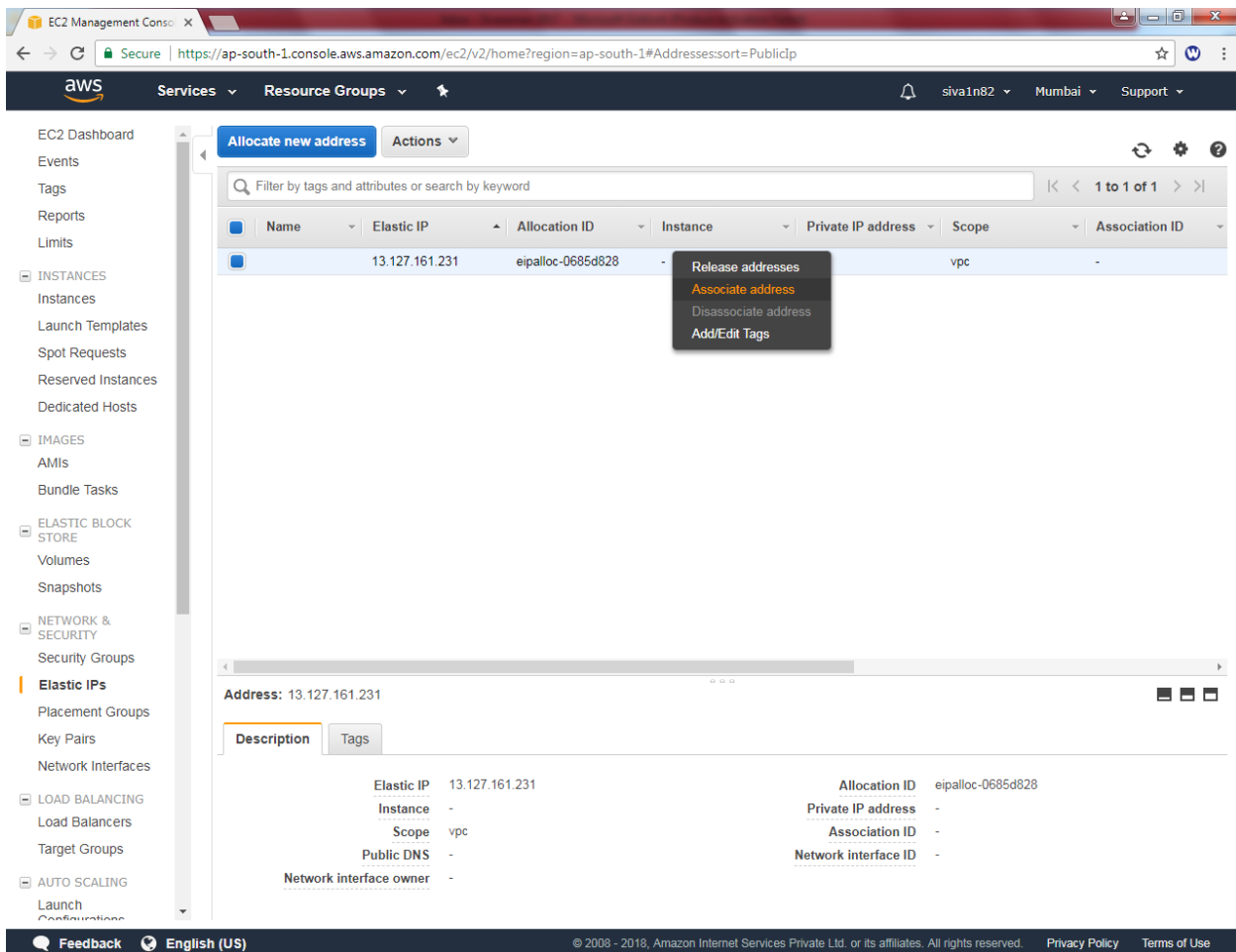


Elastic IP has been assigned in Mumbai region.



Click “Close”.

Select the Elastic IP and right click Select “Associate address”



The screenshot shows the AWS Management Console interface for Elastic IPs. The left sidebar contains navigation links for various AWS services. The main content area displays a table of Elastic IPs. A context menu is open over the first Elastic IP, showing the 'Associate address' option highlighted in orange.

Name	Elastic IP	Allocation ID	Instance	Private IP address	Scope	Association ID
	13.127.161.231	eipalloc-0685d828	-	-	vpc	-

Context menu options:

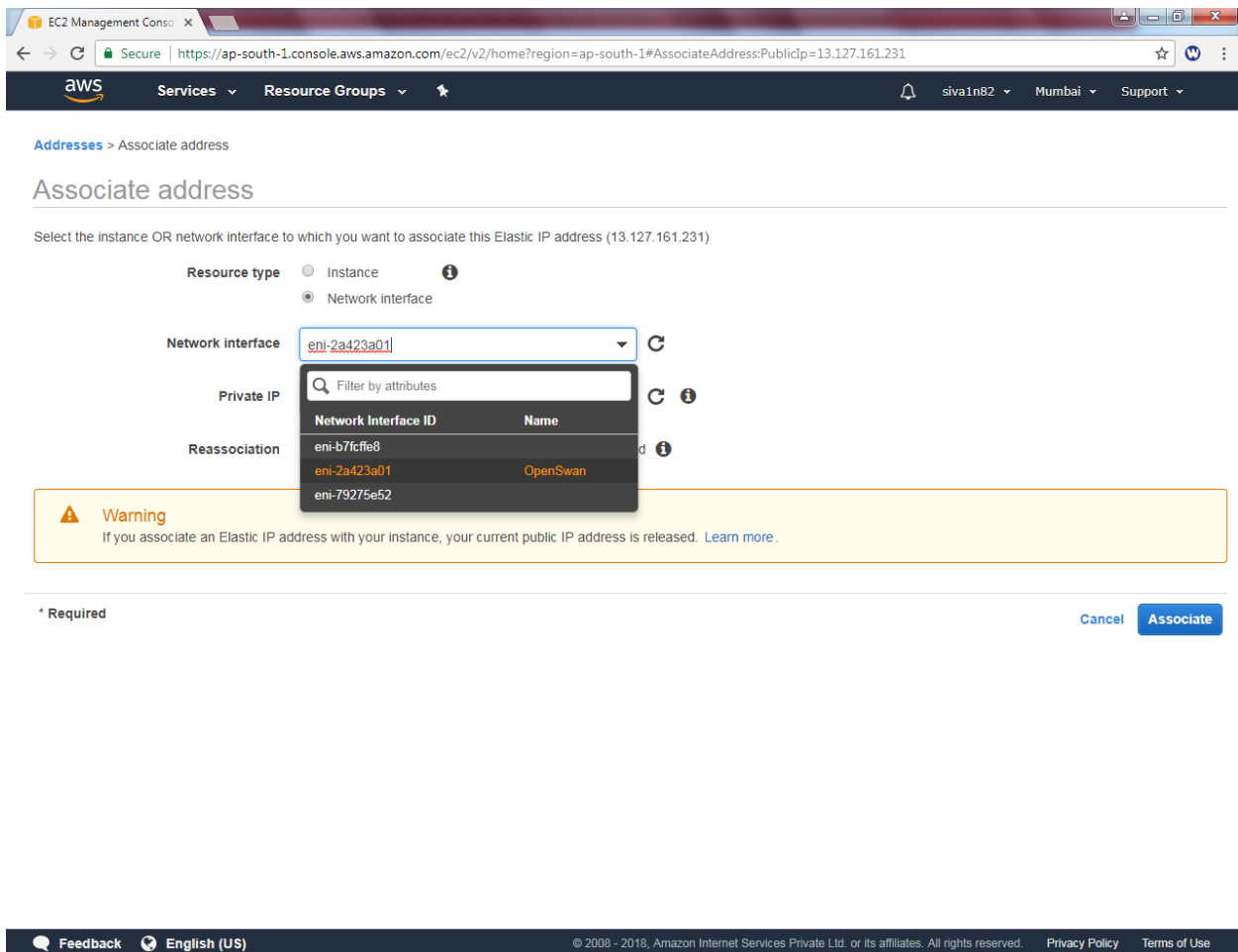
- Release addresses
- Associate address
- Disassociate address
- Add/Edit Tags

Below the table, the details for the selected Elastic IP (13.127.161.231) are shown:

Address: 13.127.161.231

Description		Tags	
Elastic IP	13.127.161.231	Allocation ID	eipalloc-0685d828
Instance	-	Private IP address	-
Scope	vpc	Association ID	-
Public DNS	-	Network interface ID	-
Network interface owner	-		

Select the network interface.



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#AssociateAddress:PublicIp=13.127.161.231>

Services Resource Groups

Addresses > Associate address

### Associate address

Select the instance OR network interface to which you want to associate this Elastic IP address (13.127.161.231)

**Resource type**

- Instance
- Network interface**

**Network interface** eni-2a423a01

**Private IP**

**Reassociation**

Filter by attributes

Network Interface ID	Name
eni-b7fcfe8	
<b>eni-2a423a01</b>	<b>OpenSwan</b>
eni-79275e52	

**Warning**  
If you associate an Elastic IP address with your instance, your current public IP address is released. [Learn more.](#)

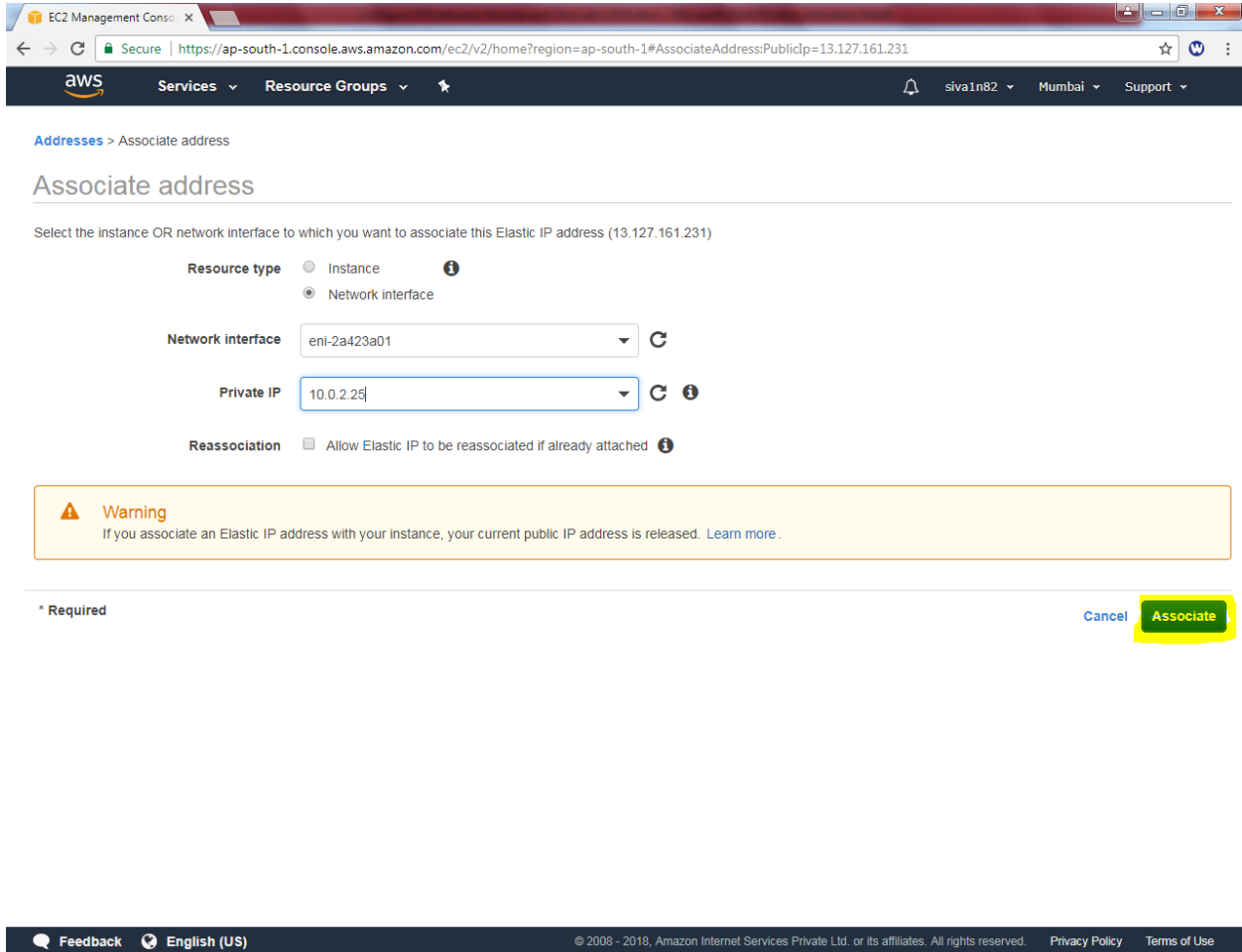
\* Required

Cancel Associate

Feedback English (US)

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Select Private Ip address and click “Associate”.



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#AssociateAddress:PublicIp=13.127.161.231>

Services Resource Groups

Addresses > Associate address

### Associate address

Select the instance OR network interface to which you want to associate this Elastic IP address (13.127.161.231)

**Resource type** ☐ Instance ☒ Network interface

**Network interface** eni-2a423a01

**Private IP** 10.0.2.25

**Reassociation** ☐ Allow Elastic IP to be reassociated if already attached

**Warning**

If you associate an Elastic IP address with your instance, your current public IP address is released. [Learn more.](#)

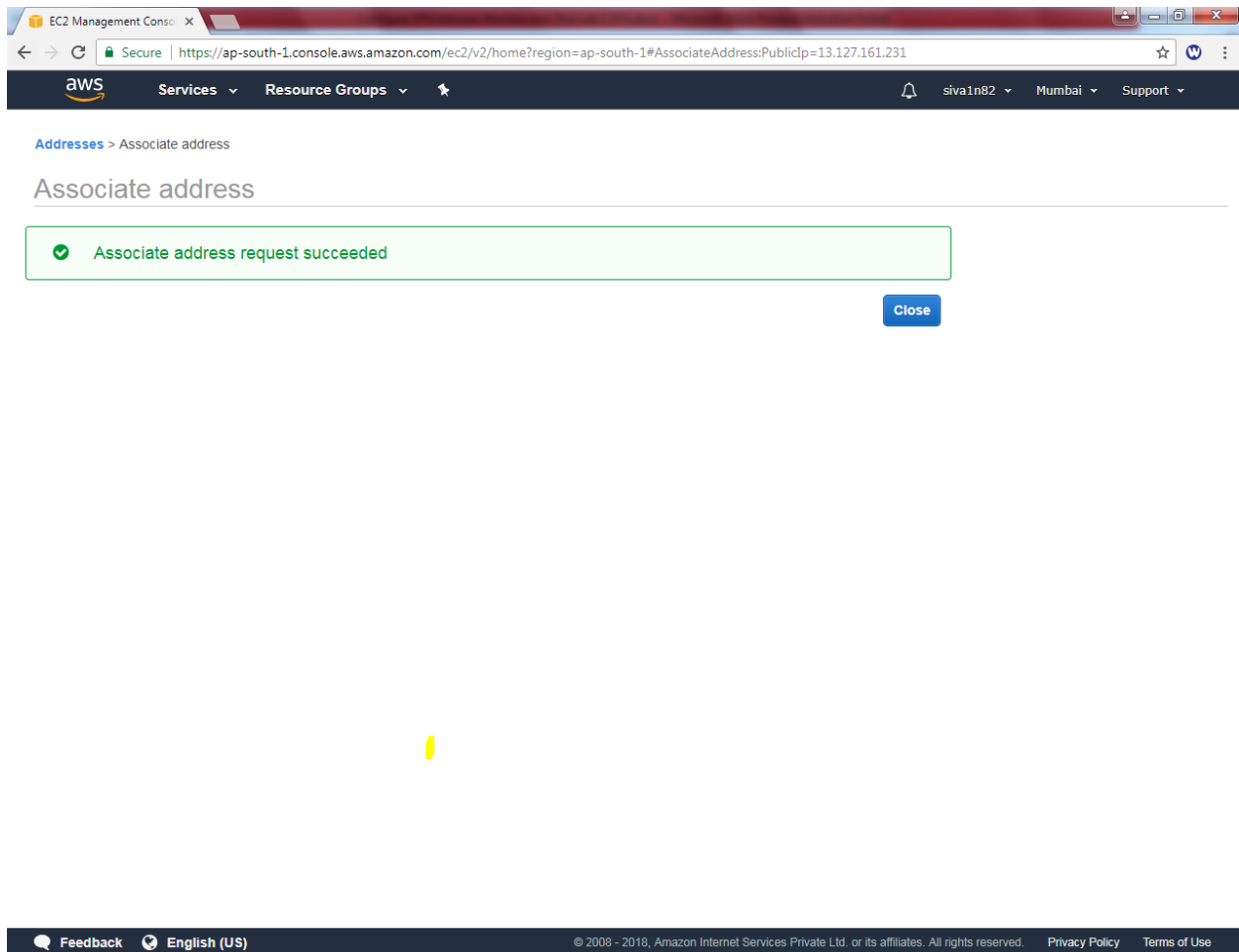
\* Required

Cancel Associate

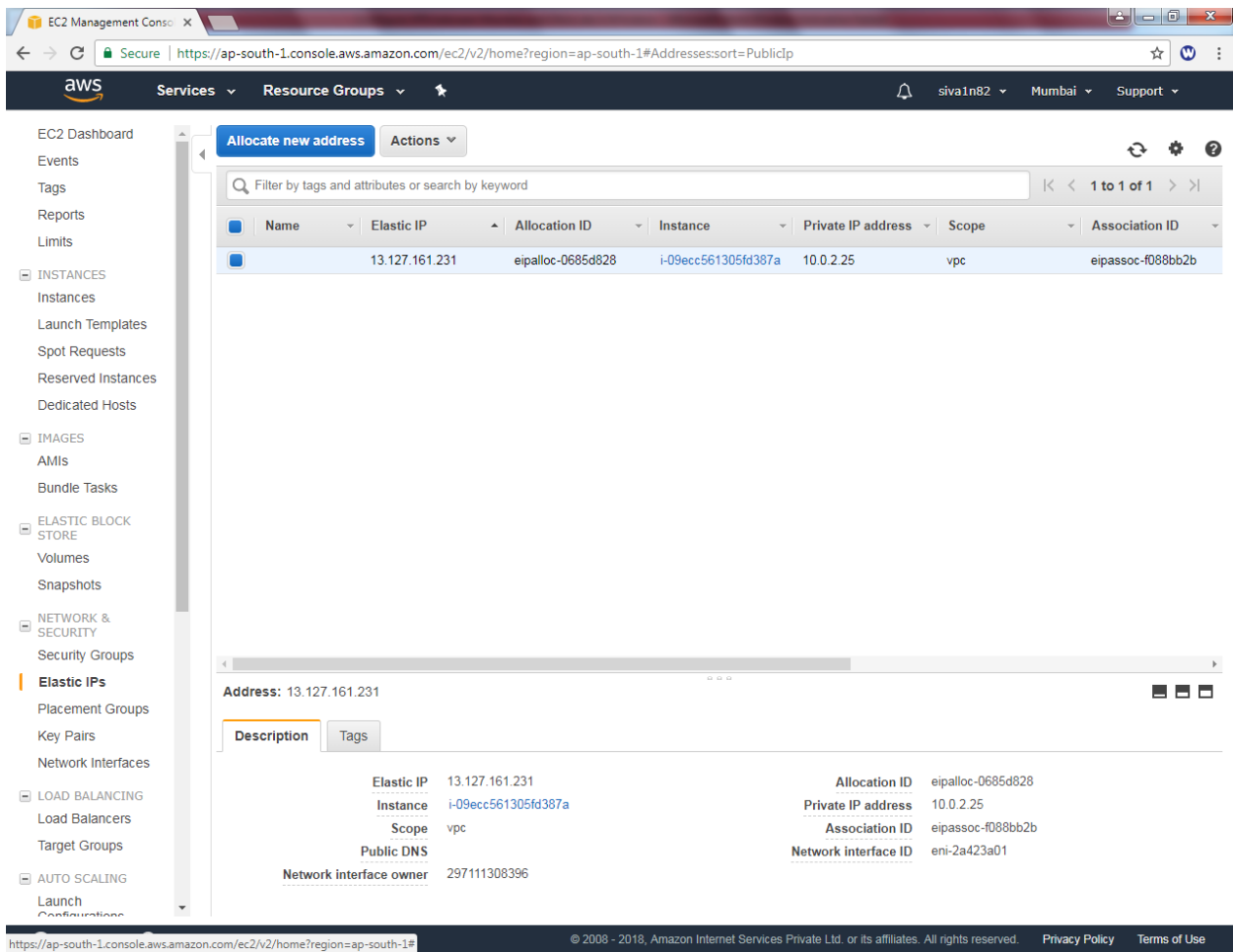
Feedback English (US)

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Associate address request succeeded.



Now the interface has been assigned with public ip address.



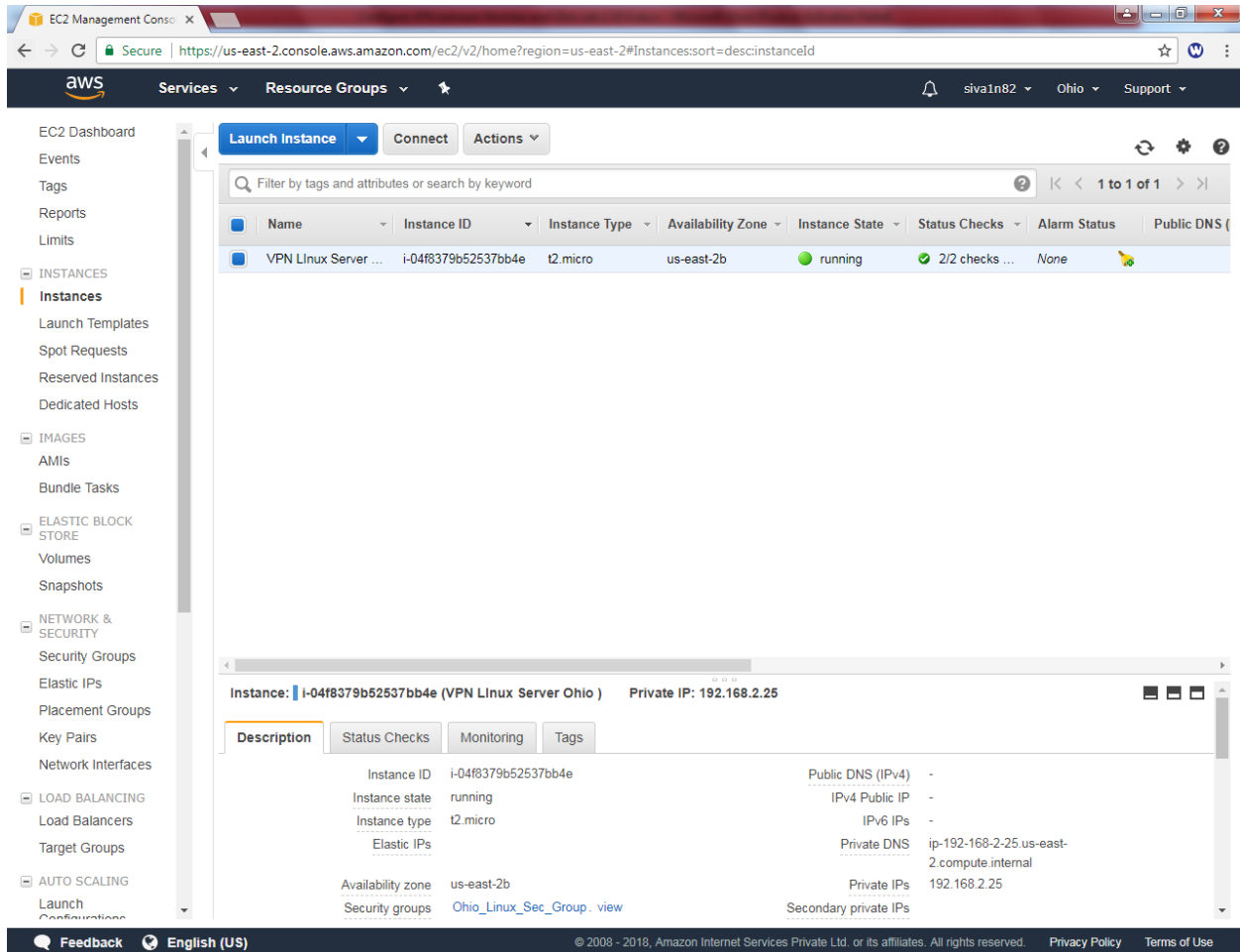
The screenshot shows the AWS Management Console interface for the EC2 Management Console. The left sidebar contains navigation links for various AWS services. The main content area displays a table of Elastic IP addresses. One Elastic IP is listed with the following details:

Name	Elastic IP	Allocation ID	Instance	Private IP address	Scope	Association ID
	13.127.161.231	eipalloc-0685d828	i-09ecc561305fd387a	10.0.2.25	vpc	eipassoc-f088bb2b

Below the table, the details for the selected Elastic IP (Address: 13.127.161.231) are shown:

Description		Tags	
Elastic IP	13.127.161.231	Allocation ID	eipalloc-0685d828
Instance	i-09ecc561305fd387a	Private IP address	10.0.2.25
Scope	vpc	Association ID	eipassoc-f088bb2b
Public DNS		Network interface ID	eni-2a423a01
Network interface owner	297111308396		

Go to Ohio region,



The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile 'siva1n82' in the 'Ohio' region. The left sidebar lists various AWS services, with 'INSTANCES' expanded and 'Instances' selected. The main content area displays a table of EC2 instances. One instance is listed: 'VPN Linux Server Ohio' with Instance ID 'i-04f8379b52537bb4e', Instance Type 't2.micro', Availability Zone 'us-east-2b', and State 'running'. Below the table, a detailed view for the selected instance is shown, including tabs for 'Description', 'Status Checks', 'Monitoring', and 'Tags'. The 'Description' tab is active, showing details such as Instance ID, Instance state, Instance type, Elastic IPs, Availability zone, Security groups, Public DNS (IPv4), IPv4 Public IP, IPv6 IPs, Private DNS, Private IPs, and Secondary private IPs.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
VPN Linux Server Ohio	i-04f8379b52537bb4e	t2.micro	us-east-2b	running	2/2 checks ...	None	

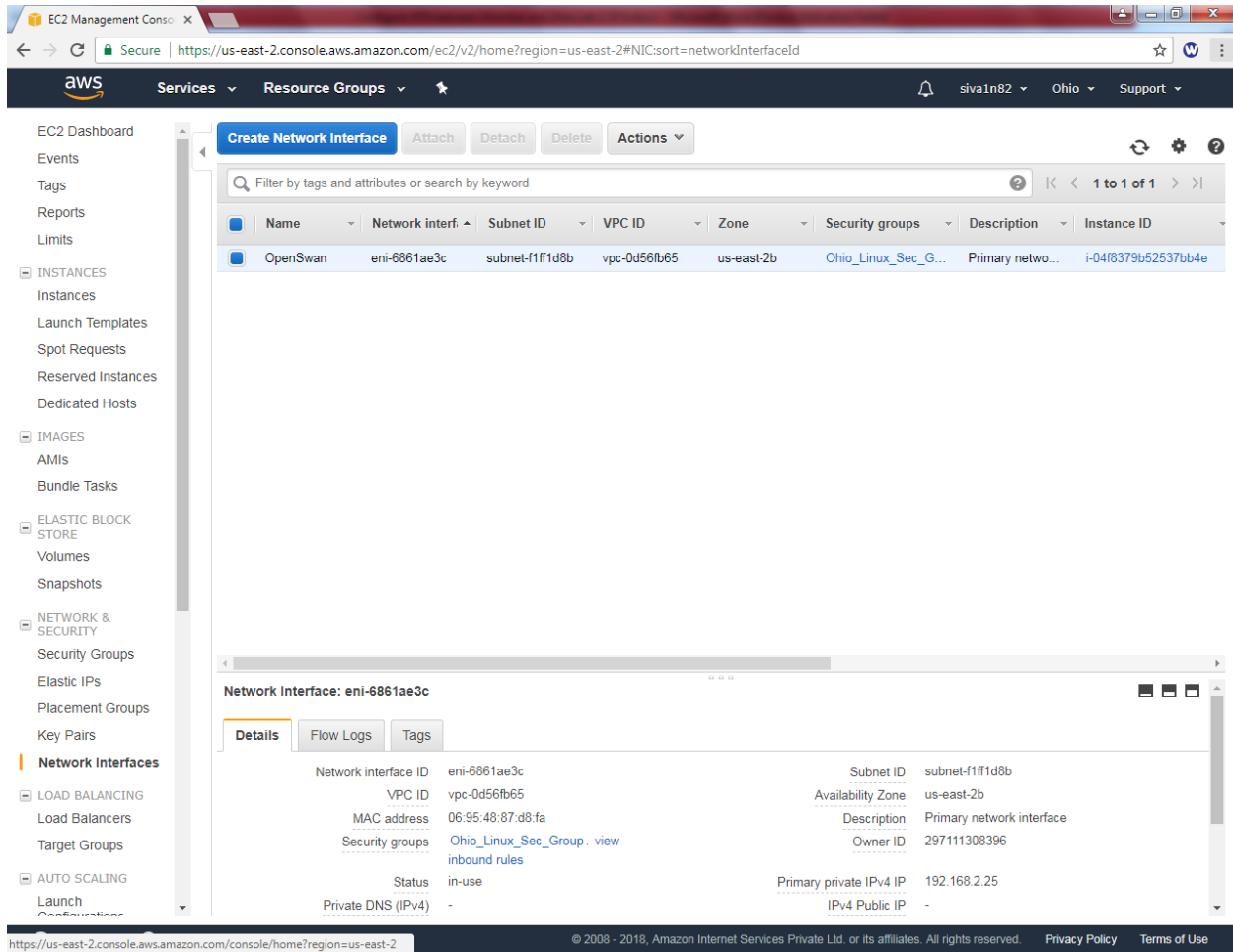
  

**Instance:** **i-04f8379b52537bb4e (VPN Linux Server Ohio)** **Private IP: 192.168.2.25**

Description		Status Checks	Monitoring	Tags
Instance ID	i-04f8379b52537bb4e			
Instance state	running			
Instance type	t2.micro			
Elastic IPs				
Availability zone	us-east-2b			
Security groups	Ohio_Linux_Sec_Group . view			
Public DNS (IPv4)	-			
IPv4 Public IP	-			
IPv6 IPs	-			
Private DNS	ip-192-168-2-25.us-east-2.compute.internal			
Private IPs	192.168.2.25			
Secondary private IPs				



Rename the interface name as “Openswan”.



The screenshot shows the AWS Management Console for the EC2 service. The left sidebar contains navigation links for various AWS services. The main content area displays a list of Network Interfaces. One interface, named 'OpenSwan', is selected. Below the list, the details for this interface are shown in a tabbed view.

Name	Network interf.	Subnet ID	VPC ID	Zone	Security groups	Description	Instance ID
OpenSwan	eni-6861ae3c	subnet-f1ff1d8b	vpc-0d56fb65	us-east-2b	Ohio_Linux_Sec_G...	Primary netwo...	i-04f8379b52537bb4e

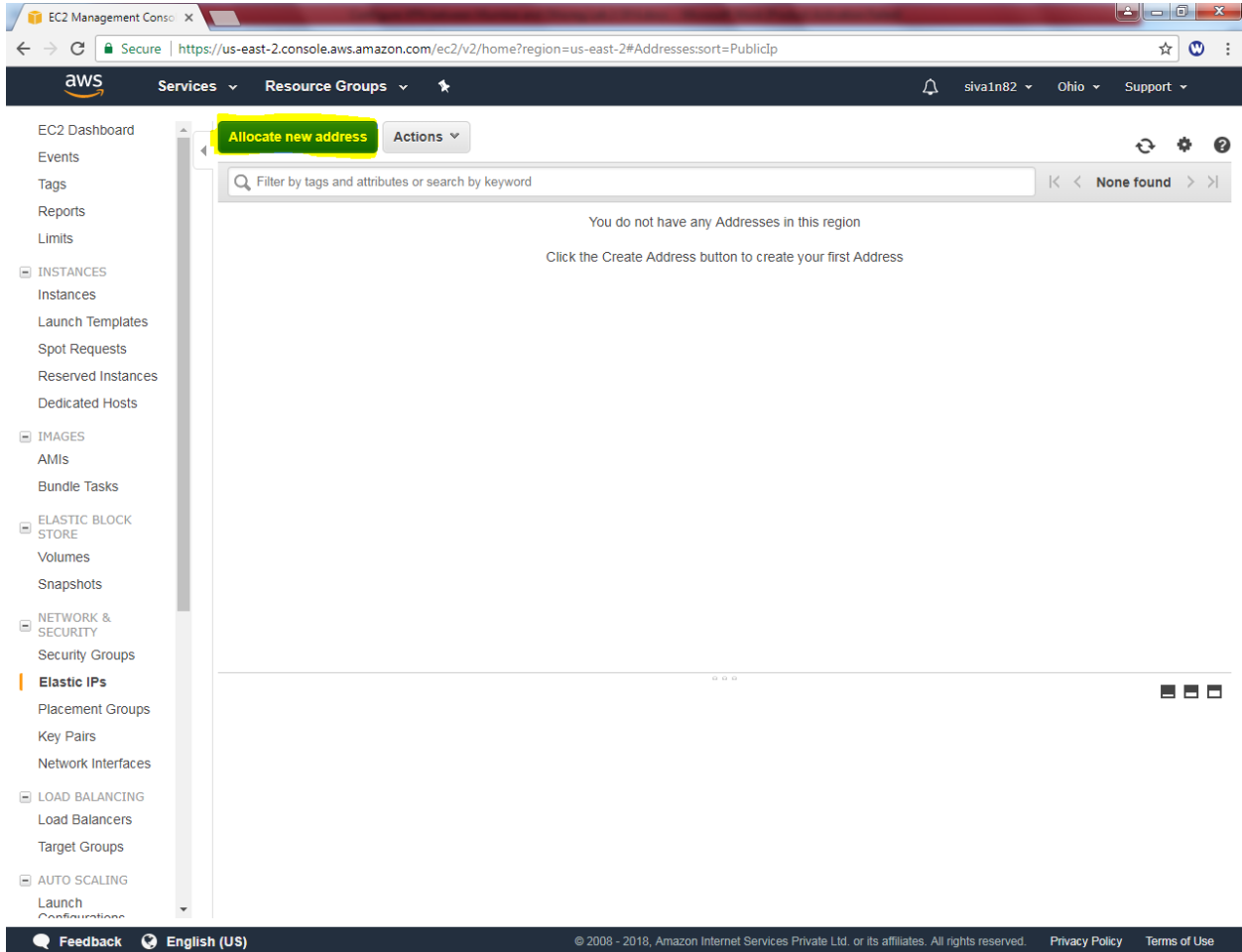
  

**Network Interface: eni-6861ae3c**

**Details** | Flow Logs | Tags

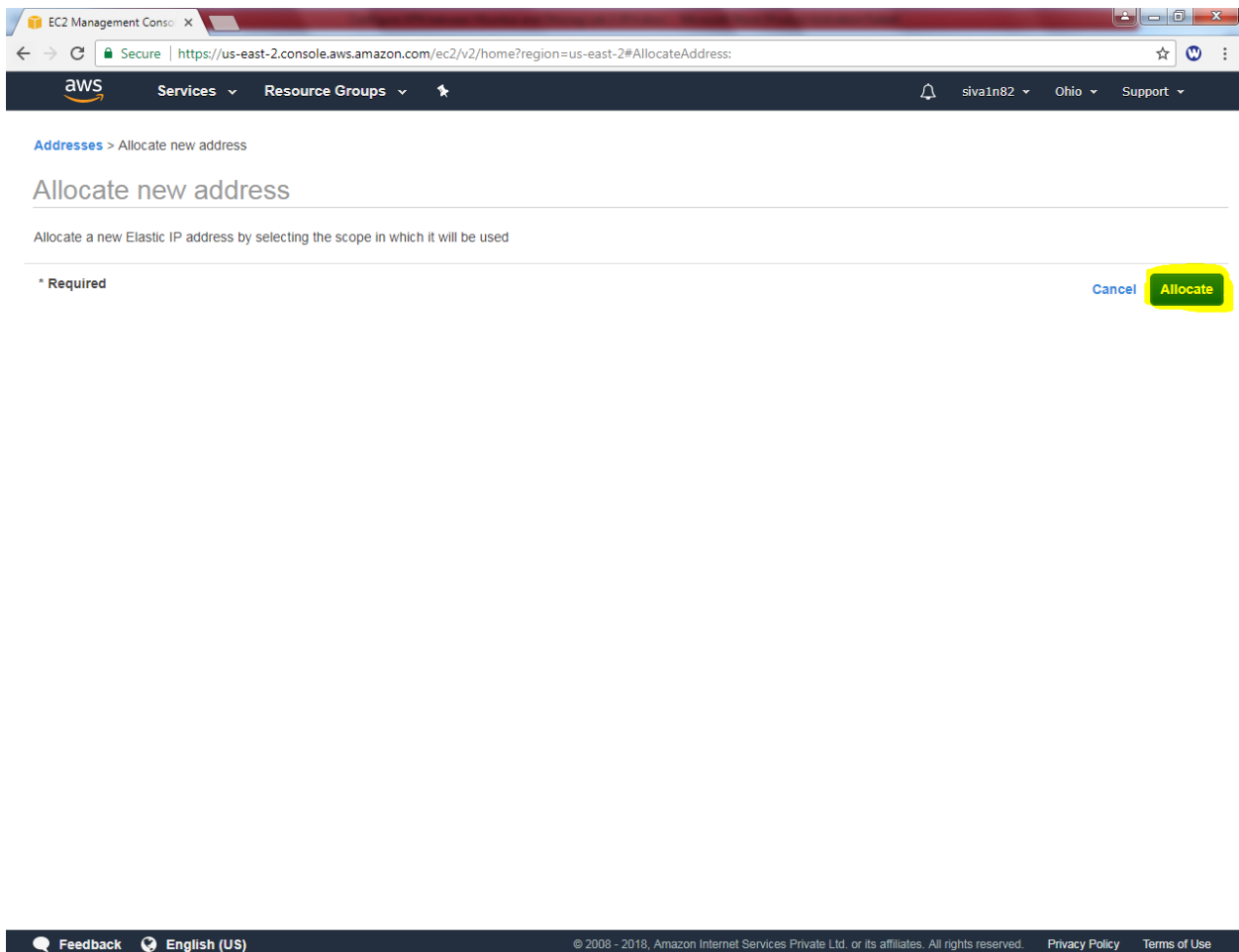
Network interface ID	eni-6861ae3c	Subnet ID	subnet-f1ff1d8b
VPC ID	vpc-0d56fb65	Availability Zone	us-east-2b
MAC address	06:95:48:87:d8:fa	Description	Primary network interface
Security groups	Ohio_Linux_Sec_Group . view inbound rules	Owner ID	297111308396
Status	in-use	Primary private IPv4 IP	192.168.2.25
Private DNS (IPv4)	-	IPv4 Public IP	-

Click “Allocate new address”.



The screenshot shows the AWS Management Console interface. The left sidebar contains a navigation menu with categories like INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, and ELASTIC IPs. The main content area is titled 'Elastic IPs' and shows a message: 'You do not have any Addresses in this region. Click the Create Address button to create your first Address.' The 'Allocate new address' button is highlighted in the top right corner of the page content area. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a search bar. The bottom footer contains 'Feedback', 'English (US)', and copyright information.

Click “Allocate”.



EC2 Management Console x

Secure | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#AllocateAddress:>

aws Services Resource Groups

Addresses > Allocate new address

### Allocate new address

Allocate a new Elastic IP address by selecting the scope in which it will be used

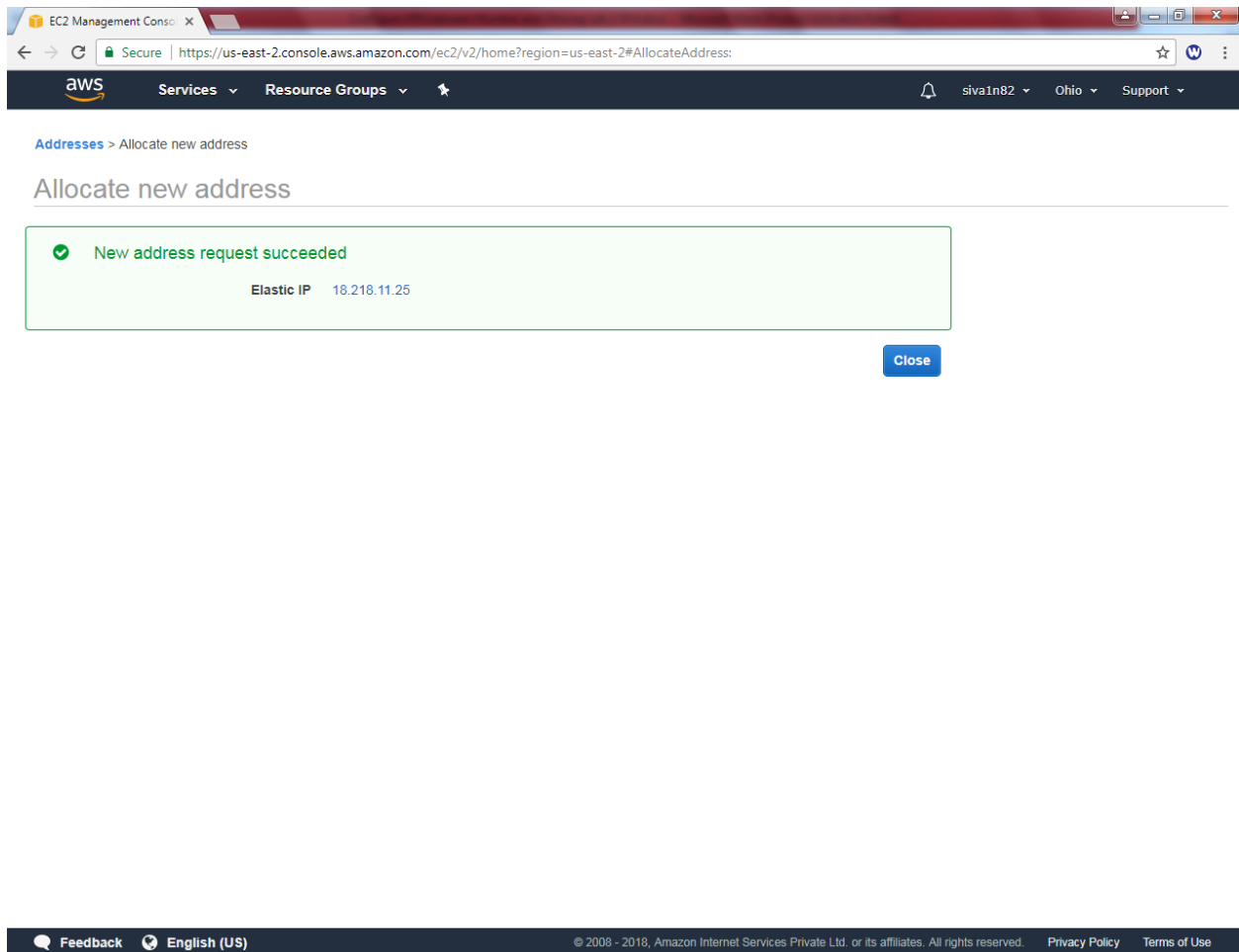
\* Required

Cancel Allocate

Feedback English (US)

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Elastic Ip has been provided.



The screenshot shows the AWS Management Console interface. The browser address bar displays the URL: <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#AllocateAddress:>. The console header includes the AWS logo, navigation tabs for Services and Resource Groups, and user information for 'siva1n82' in the 'Ohio' region. The main content area is titled 'Addresses > Allocate new address'. Below this, a green success message box states 'New address request succeeded' and displays the allocated Elastic IP address '18.218.11.25'. A 'Close' button is located at the bottom right of the message box. The footer contains a 'Feedback' link, the language 'English (US)', and copyright information for Amazon Internet Services Private Ltd.

EC2 Management Console

Secure | <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#AllocateAddress:>

aws Services Resource Groups

siva1n82 Ohio Support

Addresses > Allocate new address

### Allocate new address

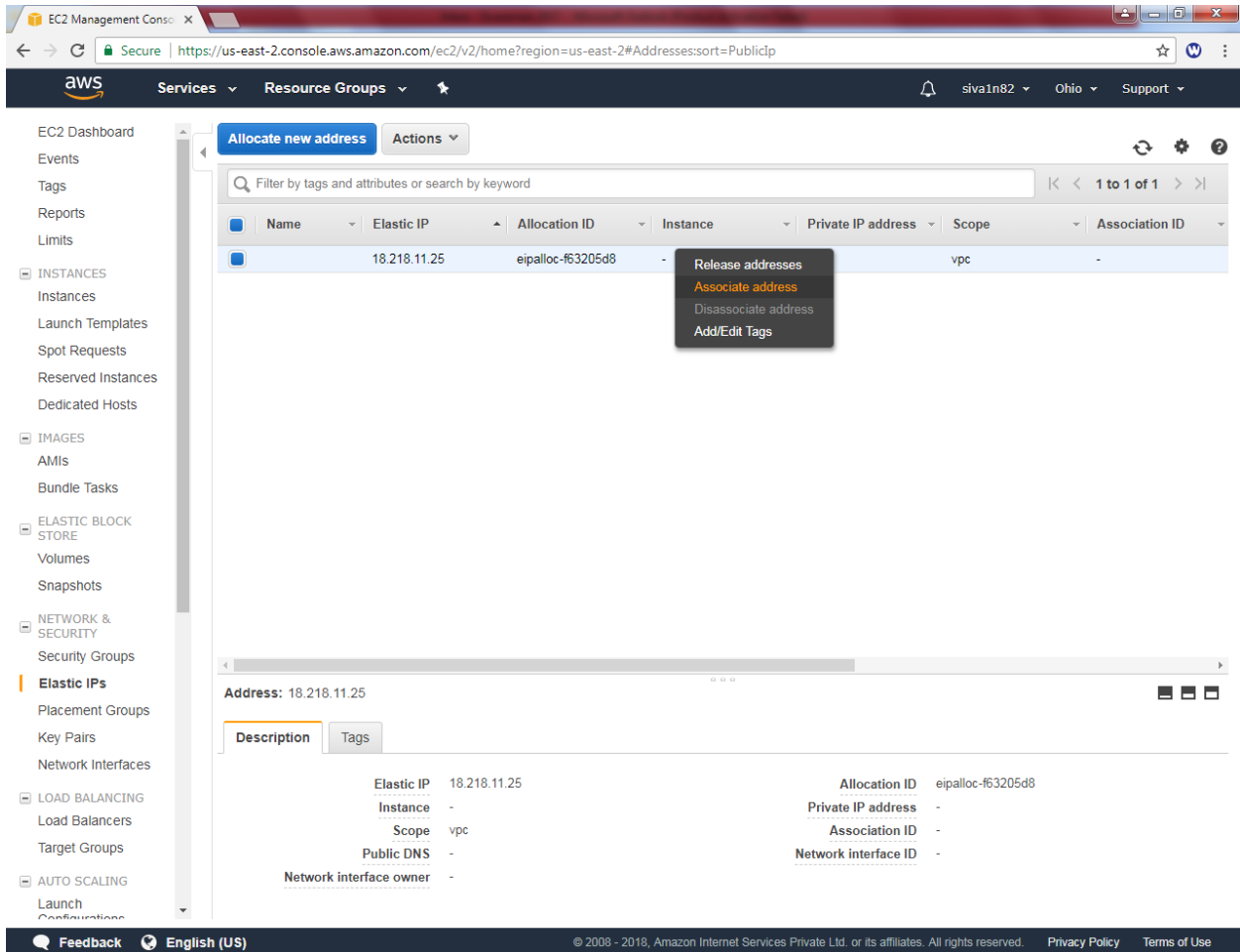
✓ New address request succeeded

Elastic IP 18.218.11.25

Close

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The IP address needs to be associated. Select the IP and right click and then select “Associate address”.



The screenshot shows the AWS Management Console interface for Elastic IP addresses. The left sidebar contains navigation links for various AWS services. The main content area displays a table of Elastic IP addresses. One address, 18.218.11.25, is selected, and a context menu is open over it, showing options like 'Release addresses', 'Associate address', 'Disassociate address', and 'Add/Edit Tags'. Below the table, the details for the selected IP are shown, including its Allocation ID (eipalloc-f63205d8) and its current state (not associated with an instance).

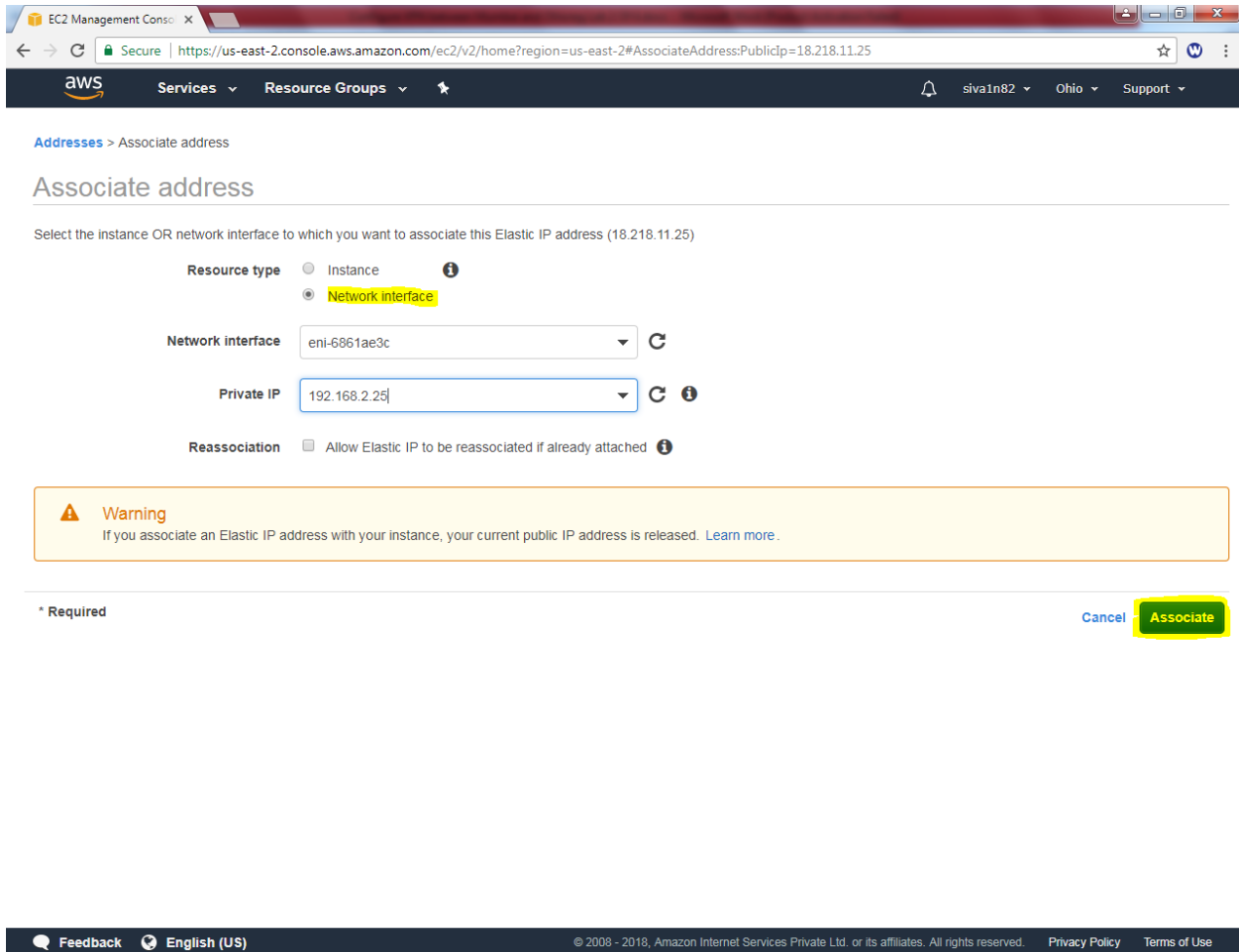
Name	Elastic IP	Allocation ID	Instance	Private IP address	Scope	Association ID
	18.218.11.25	eipalloc-f63205d8	-		vpc	-

**Address: 18.218.11.25**

Description		Tags	
Elastic IP	18.218.11.25	Allocation ID	eipalloc-f63205d8
Instance	-	Private IP address	-
Scope	vpc	Association ID	-
Public DNS	-	Network interface ID	-
Network interface owner	-		

Select Resource type as “Network interface”, Select network interface and Private IP.



EC2 Management Console

Services Resource Groups

Addresses > Associate address

### Associate address

Select the instance OR network interface to which you want to associate this Elastic IP address (18.218.11.25)

**Resource type** ☐ Instance ☒ **Network interface**

**Network interface** eni-6861ae3c

**Private IP** 192.168.2.25

**Reassociation** ☐ Allow Elastic IP to be reassociated if already attached

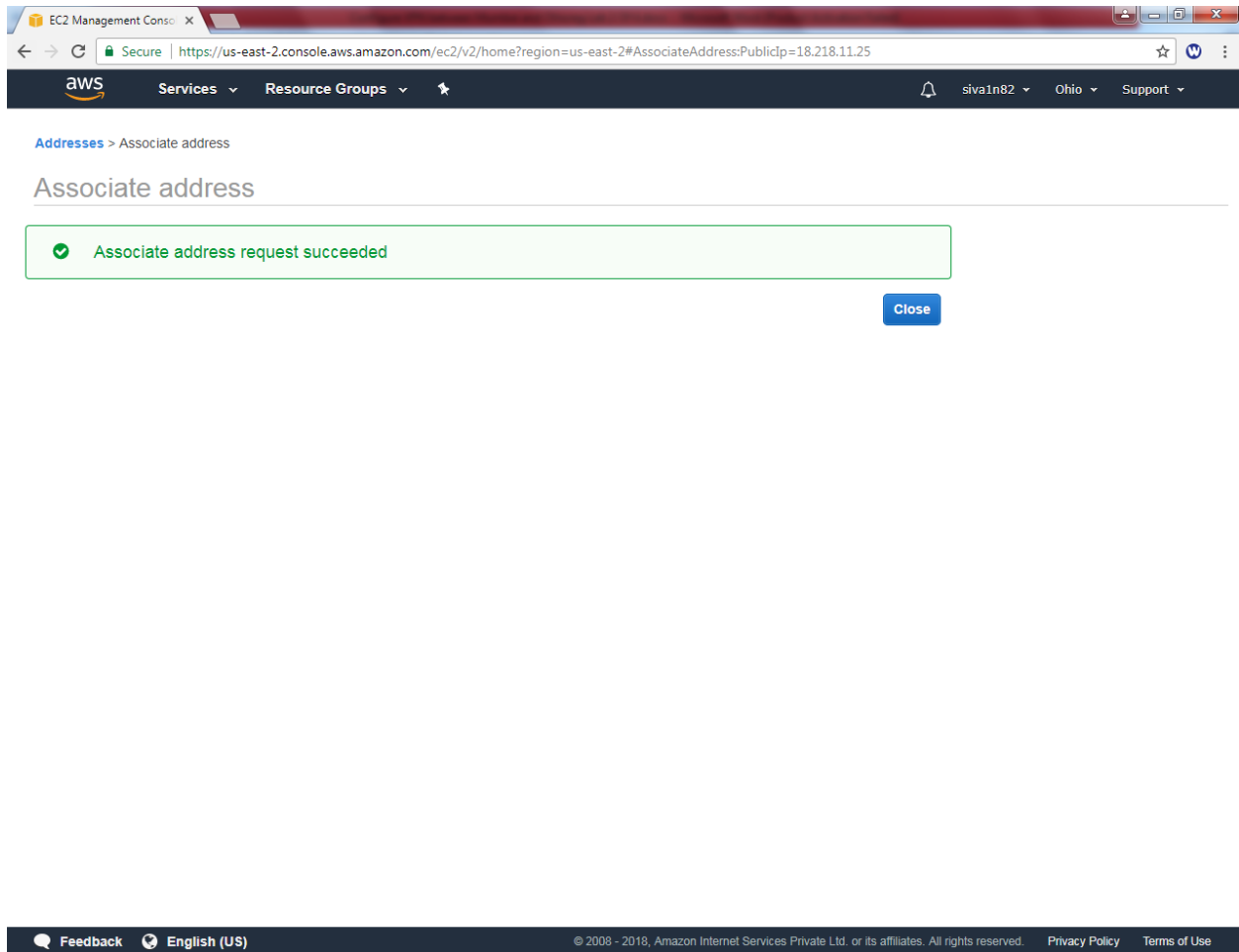
**Warning**  
If you associate an Elastic IP address with your instance, your current public IP address is released. [Learn more.](#)

\* Required

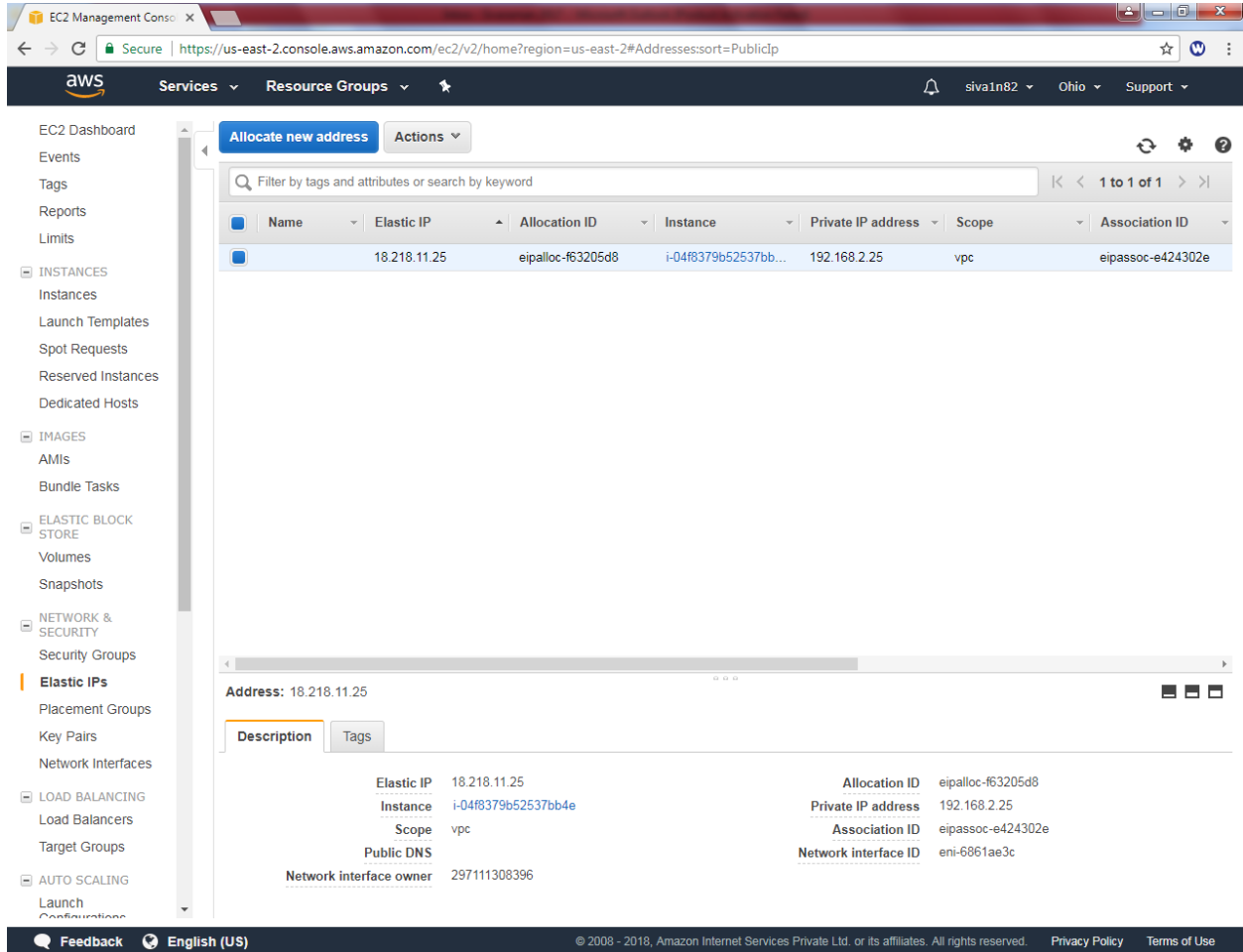
Cancel **Associate**

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Click “Associate”.



Now Elastic ip has been assigned to interface.



The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, Elastic IPs, LOAD BALANCING, and AUTO SCALING. The main content area displays a table of Elastic IP addresses. The table has columns for Name, Elastic IP, Allocation ID, Instance, Private IP address, Scope, and Association ID. One entry is visible with Elastic IP 18.218.11.25, Allocation ID eipalloc-f63205d8, and Instance i-04f8379b52537bb4e. Below the table, the details for the selected Elastic IP (18.218.11.25) are shown, including its Description, Tags, and associated metadata.

Name	Elastic IP	Allocation ID	Instance	Private IP address	Scope	Association ID
	18.218.11.25	eipalloc-f63205d8	i-04f8379b52537bb4e	192.168.2.25	vpc	eipassoc-e424302e

**Address:** 18.218.11.25

**Description** | **Tags**

<b>Elastic IP</b>	18.218.11.25	<b>Allocation ID</b>	eipalloc-f63205d8
<b>Instance</b>	i-04f8379b52537bb4e	<b>Private IP address</b>	192.168.2.25
<b>Scope</b>	vpc	<b>Association ID</b>	eipassoc-e424302e
<b>Public DNS</b>	297111308396	<b>Network interface ID</b>	eni-6861ae3c
<b>Network interface owner</b>	297111308396		