AWS educate

classroom tutorial

- Visit the following website and login.

https://www.awseducate.com/signin/SiteLogin?ec=302&startURL=%2Feducator%2Fs%2F

- Click my classroom

Hi, welcome back to Educate.

AWS Educate for Students
Take a quick tour of the AWS Educate student experience! Click the image to start the tour

MY CONTENT

MY PROFESSIONAL DEVELOPMENT

REQUEST CREDITS

MY CLASSROOMS

Featured Content

10-minute tutorial: Deploy Code to a Virtual Machine with AWS CodeDeploy

10-minute tutorial: Create and Connect to a MySQL Database (RDS)

Introducing AWS IoT

Educate News

Arizona State University Brings Voice-Technology Program to Campus
Arizona State University, with support from the Amazon Alexa team, has created a voice-technology program on campus designed to enhance students' ASU experience by giving them touch-free

- Click “Go to classroom”

My Classrooms

Check on the status of your Classroom requests or go to your Classroom. Click on a Classroom name to view the details you provided in your request.

Course Name	Request Date	Course Number	Start Date	Credit Allocated Per Student	# Invited Students	# Students Joined	Status
Operating Systems	01/18/2019	IOC5092	01/19/2019	$50	10	5	Go to classroom

- Click "AWS console"

vocareum

My Classes | Manage | Help | deron.cs07g@nctu.e..

Welcome to AWS Educate Classroom Account

Use your AWS Educate Classroom Account to access to a wide variety of AWS Services and start building! Click on the AWS Console button to sign in and get started.

- What regions can I use with a Classroom Account?
- Are Service Linked Roles supported?
- I can't start any resources. What happened?
- Can I create users within my Classroom Account for others to access?
- Can I create my own IAM policy within Starter Account or Classroom?
- How can I use IAM roles within AWS services?

Your Classroom Account Status

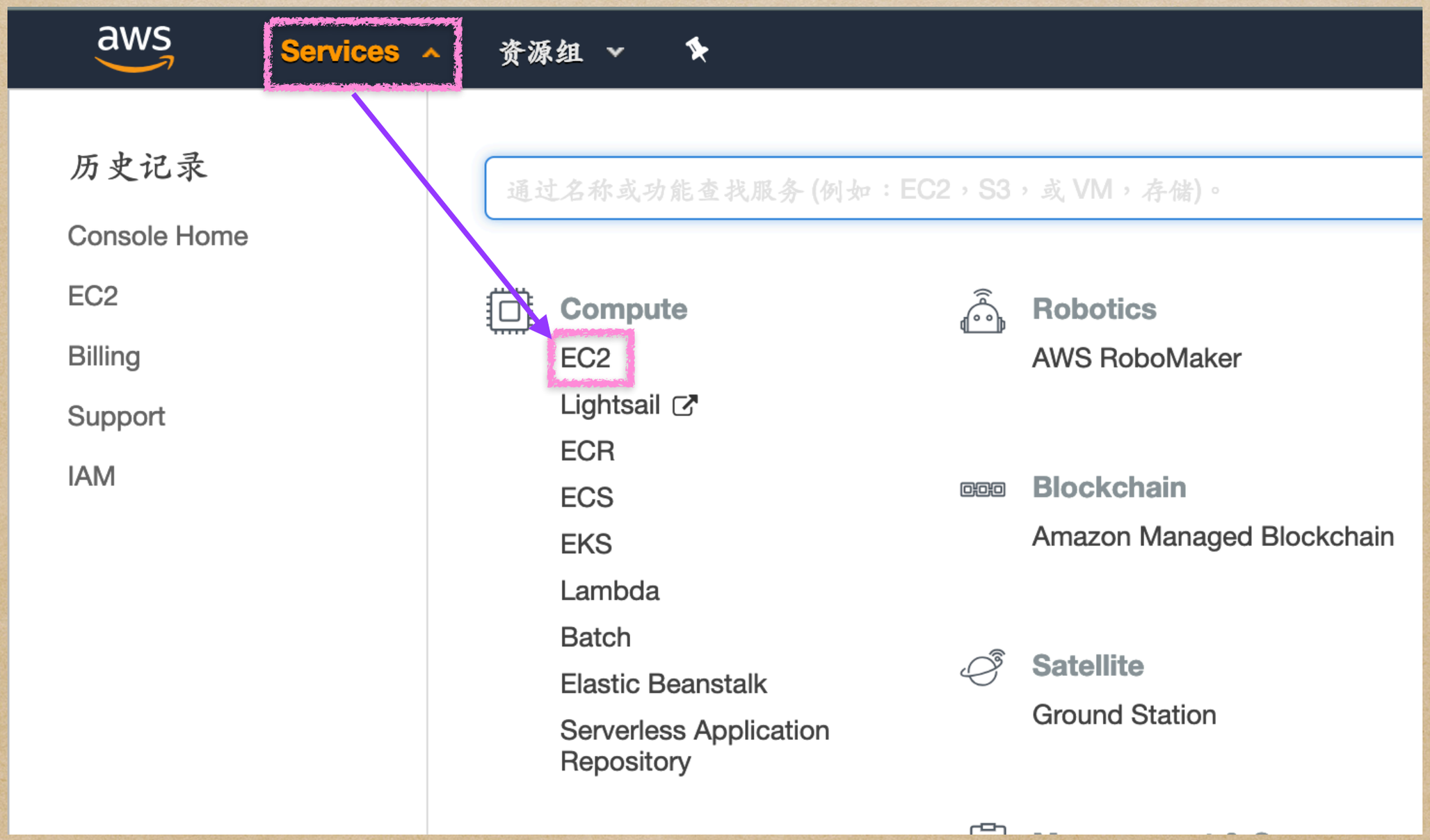
(deron.cs07g@nctu.edu.tw)

$50
remaining credits (estimated)

2:59
session time

Account Details | AWS Console

- Click "Services" and "EC2"



- Click "Launch instance"

Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

0 Running Instances	0 Elastic IPs
0 Dedicated Hosts	0 Snapshots
0 Volumes	Error retrieving resource count
1 Key Pairs	3 Security Groups
0 Placement Groups	

Learn more about the latest in AWS Compute from AWS re:Invent by viewing the EC2 Videos.

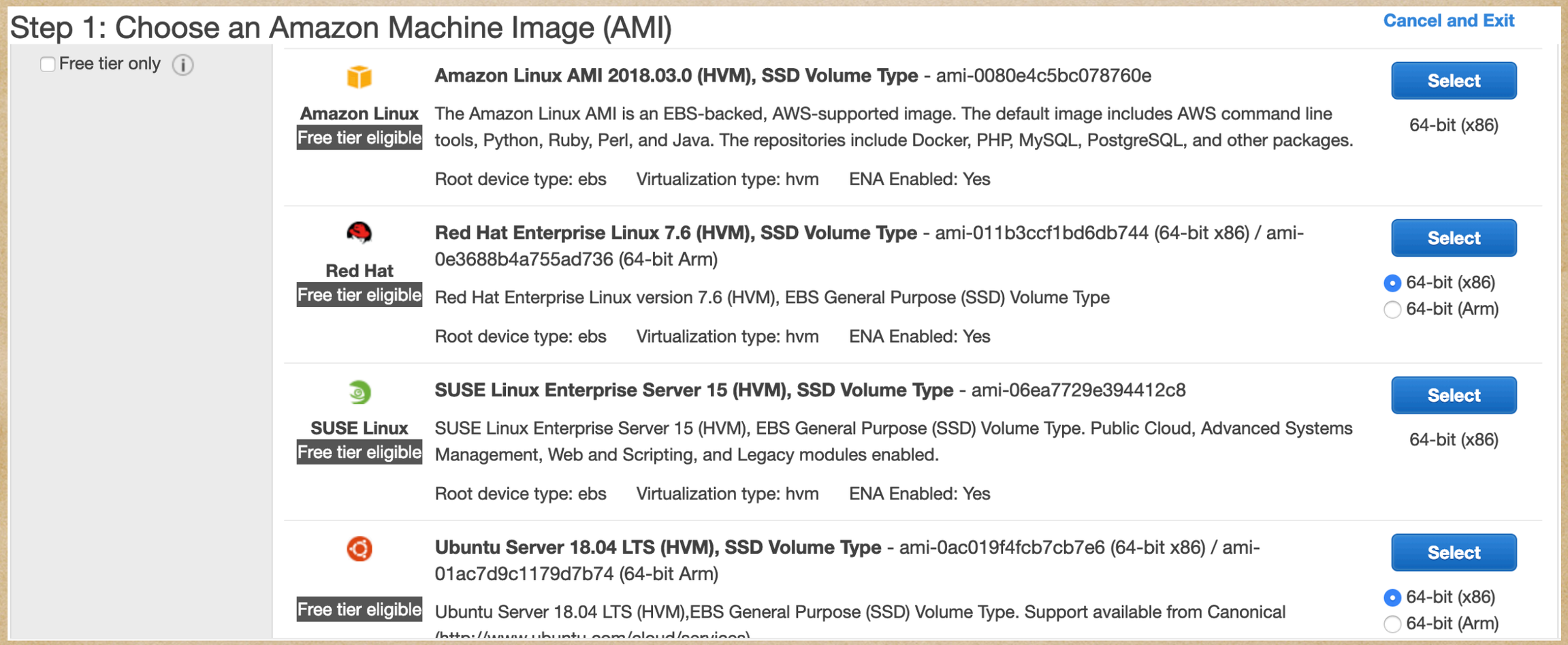
Create Instance

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 US East (N. Virginia) region

- Select the operating system for your machine and click select



- Choose an instance type and click “Next”

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
☐	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
☑	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes

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

- Configure Instance Details and click “Next”

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 3 Launch into Auto Scaling Group

You may want to consider launching these instances into an Auto Scaling Group to help you maintain application availability and for easy scaling in the future. Learn how Auto Scaling can help your application stay healthy and cost effective.

Purchasing option Request Spot instances

Network vpc-7be95b01 (default) Create new VPC

Subnet No preference (default subnet in any Availability Zon Create new subnet

Auto-assign Public IP Use subnet setting (Enable)

Placement group Add instance to placement group

Capacity Reservation Open Create new Capacity Reservation

IAM role None Create new IAM role

Cancel | Previous | Review and Launch | Next: Add Storage

- Add storage

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/sda1	snap-0f08fe61aa57fc583	8	General Purpose SSD (gp2)	100 / 3000	N/A	☑	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

- Add tag

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

This resource currently has no tags

Choose the Add tag button or click to add a Name tag.
Make sure your IAM policy includes permissions to create tags.

Add Tag (Up to 50 tags maximum)

Cancel | Previous | Review and Launch | Next: Configure Security Group

- Select the type you want to connect to your instance.
- Select the ip you want to allow to access your instance.

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: launch-wizard-3

Description: launch-wizard-3 created 2019-02-24T14:16:43.397+08:00

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

- Review the information and click “Launch”

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.

AMI Details

Edit AMI

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0ac019f4fcb7cb7e6

Free tier eligible

Ubuntu Server 18.04 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

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

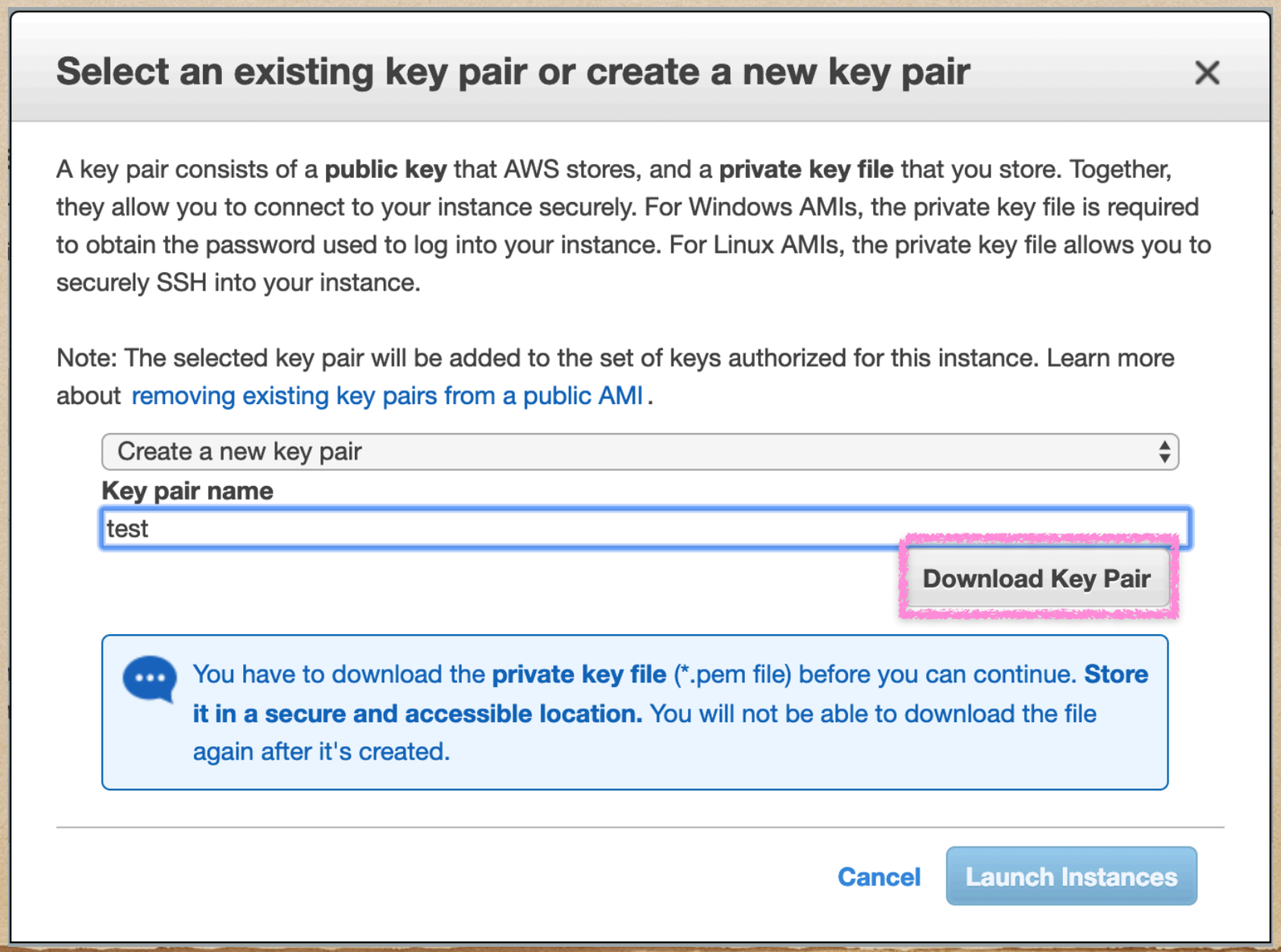
Security group name launch-wizard-3

Description launch-wizard-3 created 2019-02-24T14:16:43.397+08:00

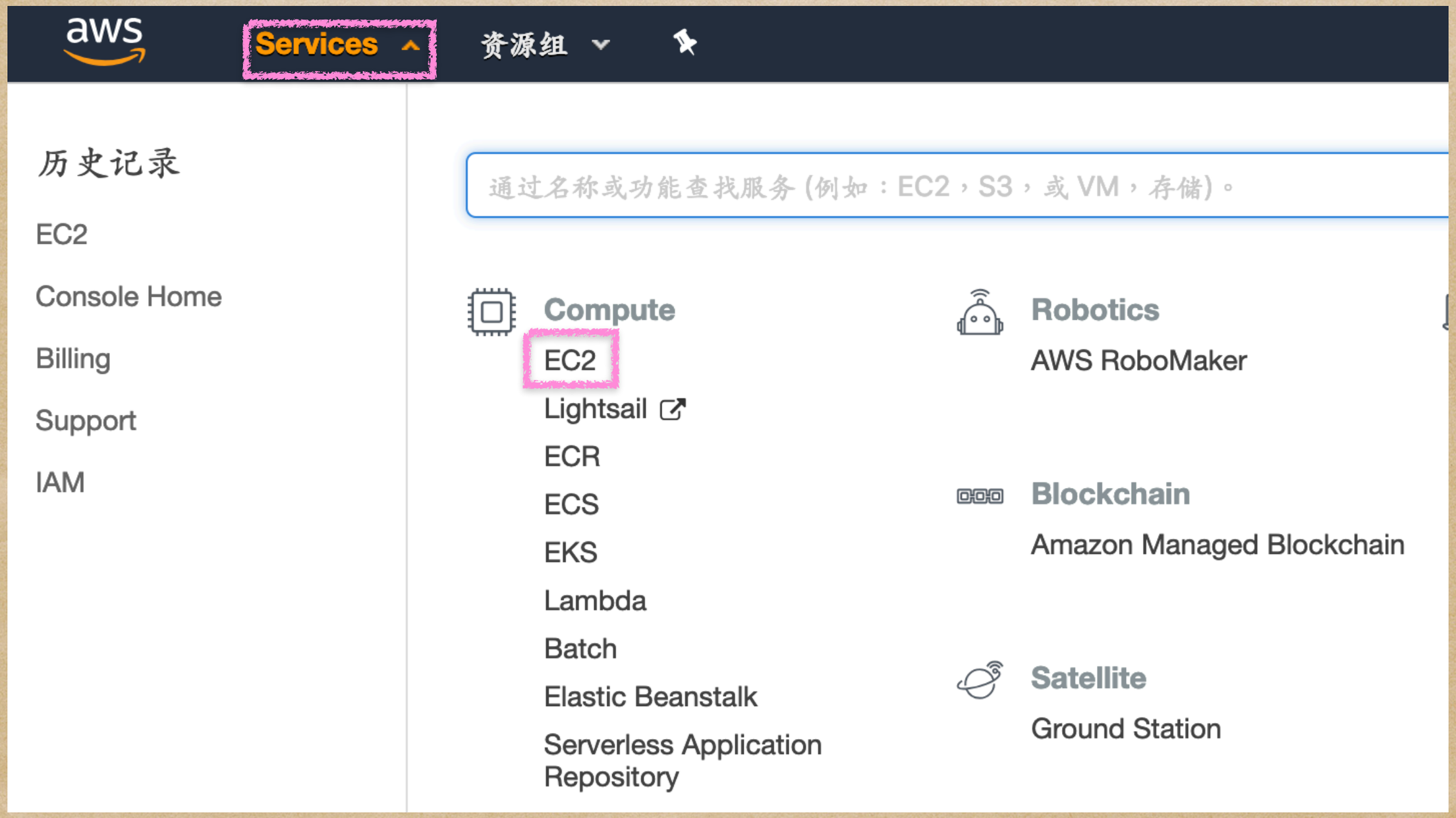
Type	Protocol	Port Range	Source	Description

Cancel Previous Launch

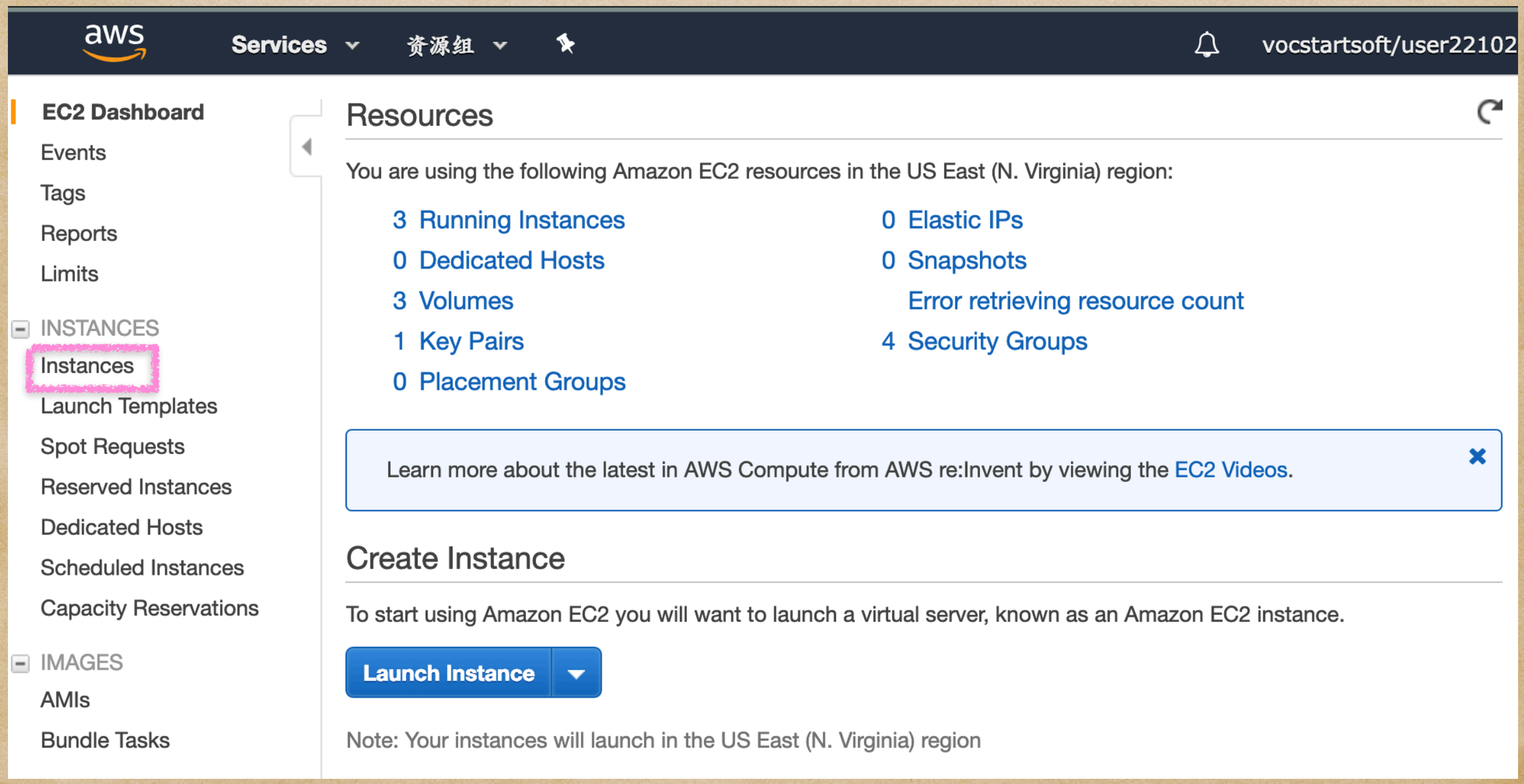
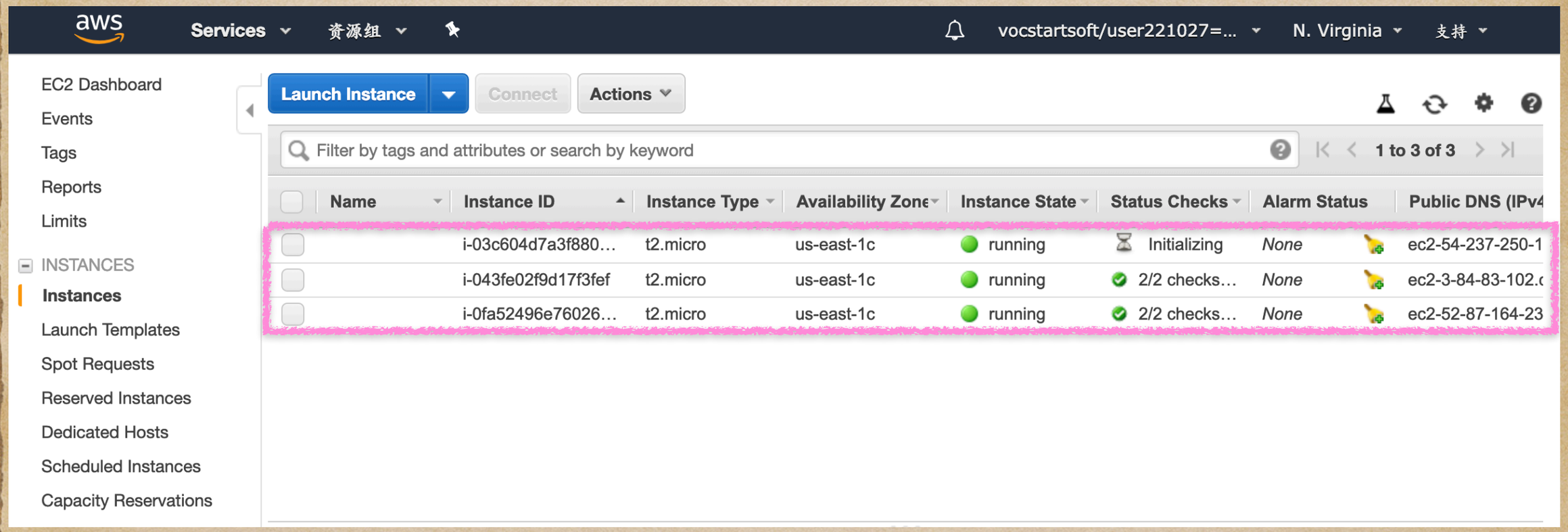
- Create a key pair and download it



- Click “Services” and “EC2”



- Click "Instances"



- You will see the instances you created