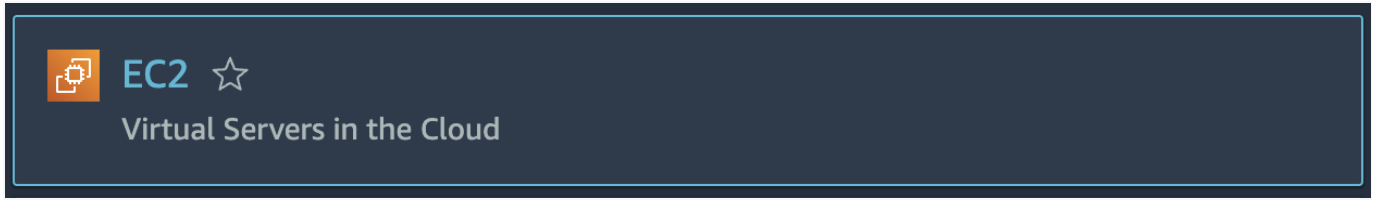
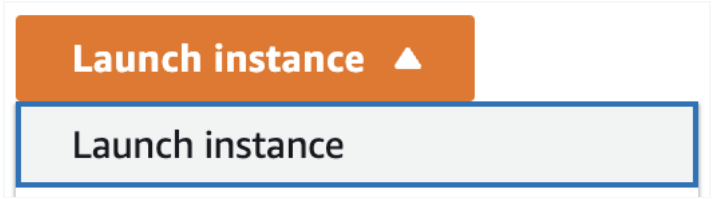
Instructions

1. In the AWS Management Console search bar, enter *EC2*, and click the **EC2** result under **Services**:



2. From the EC2 dashboard, click **Launch instance** > **Launch instance**:



3. Under **Application and OS Images**, select **Amazon Linux 2 AMI (HVM) - Kernel 5.10**:

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

Search our full catalog including 1000s of application and OS images

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)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type — Free tier eligible

ami-08e2d37b6a0129927 (64-bit (x86)) / ami-0d70650c3afa9cf54 (64-bit (Arm))

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

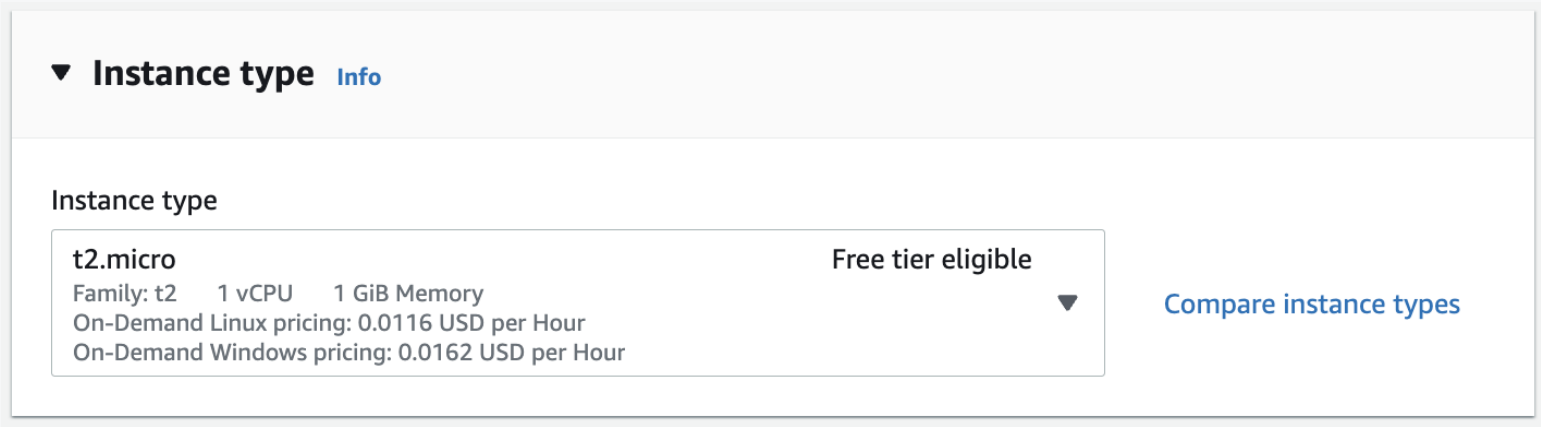
Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20220912.1 x86_64 HVM gp2

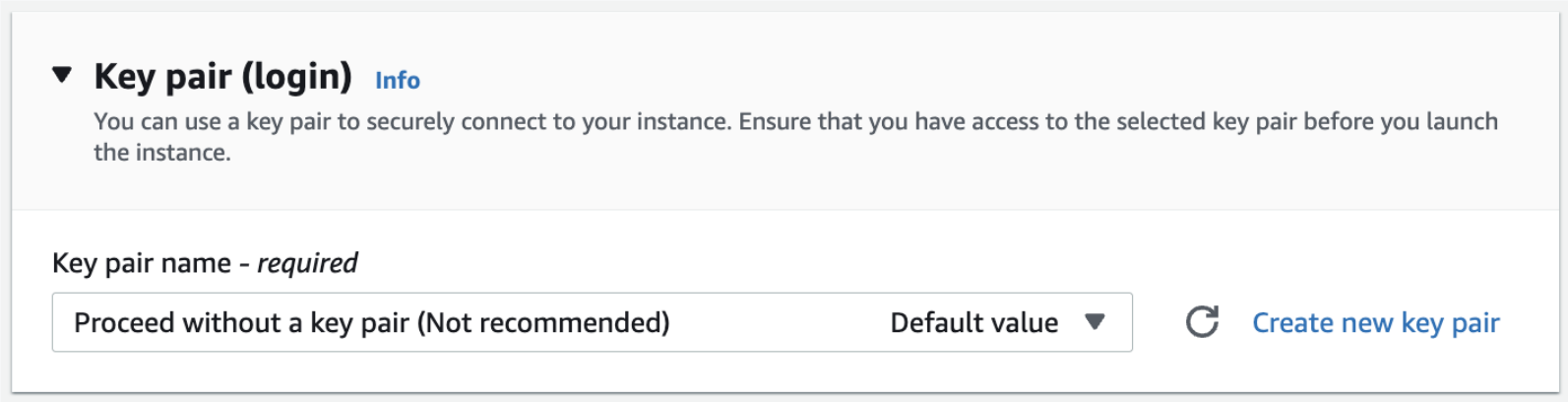
Architecture: 64-bit (x86)

AMI ID: ami-08e2d37b6a0129927 Verified provider

4. Under **Instance type**, select **t2.micro**:

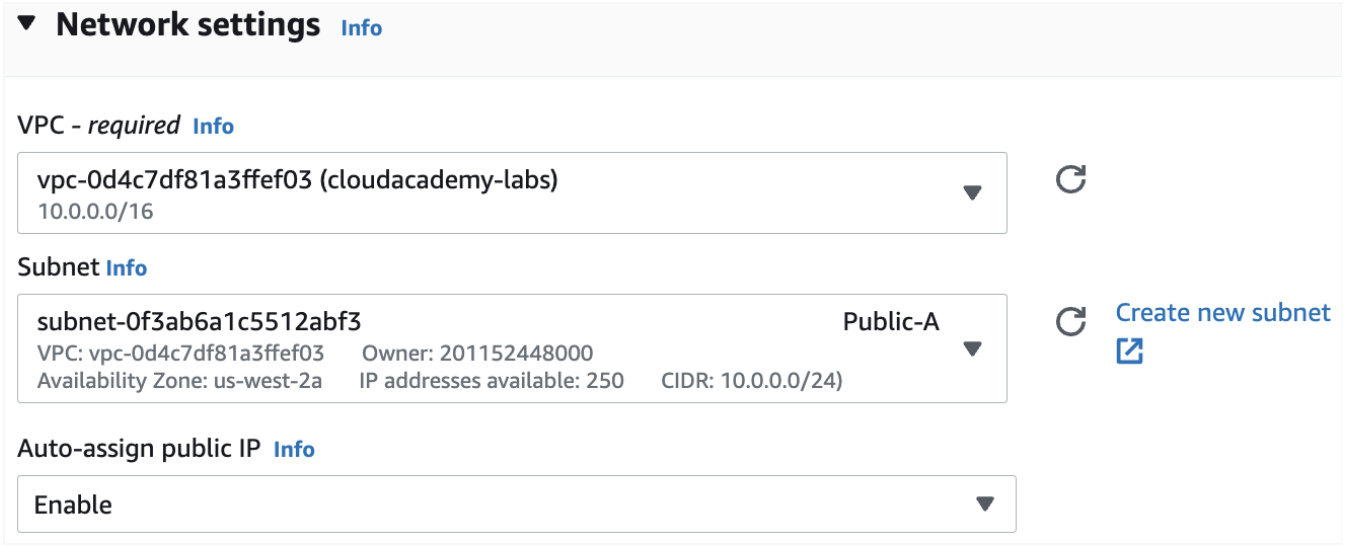


5. Under **Key pair**, select **Proceed without a key pair**:



6. Click on **Edit** within the **Network settings** section and select the following values:

- **VPC**: Make sure the cloudacademy-labs VPC is selected
- **Subnet**: Select Public-A | US-west-2a
- **Auto-assign Public IP**: Select Enable
- **Inbound security group rules**: Click **Add security group rule**, and select **All traffic** for **Type** and **Anywhere** for **Source type**



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-1

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-1 created 2022-10-17T15:08:28.324Z

Inbound security groups rules

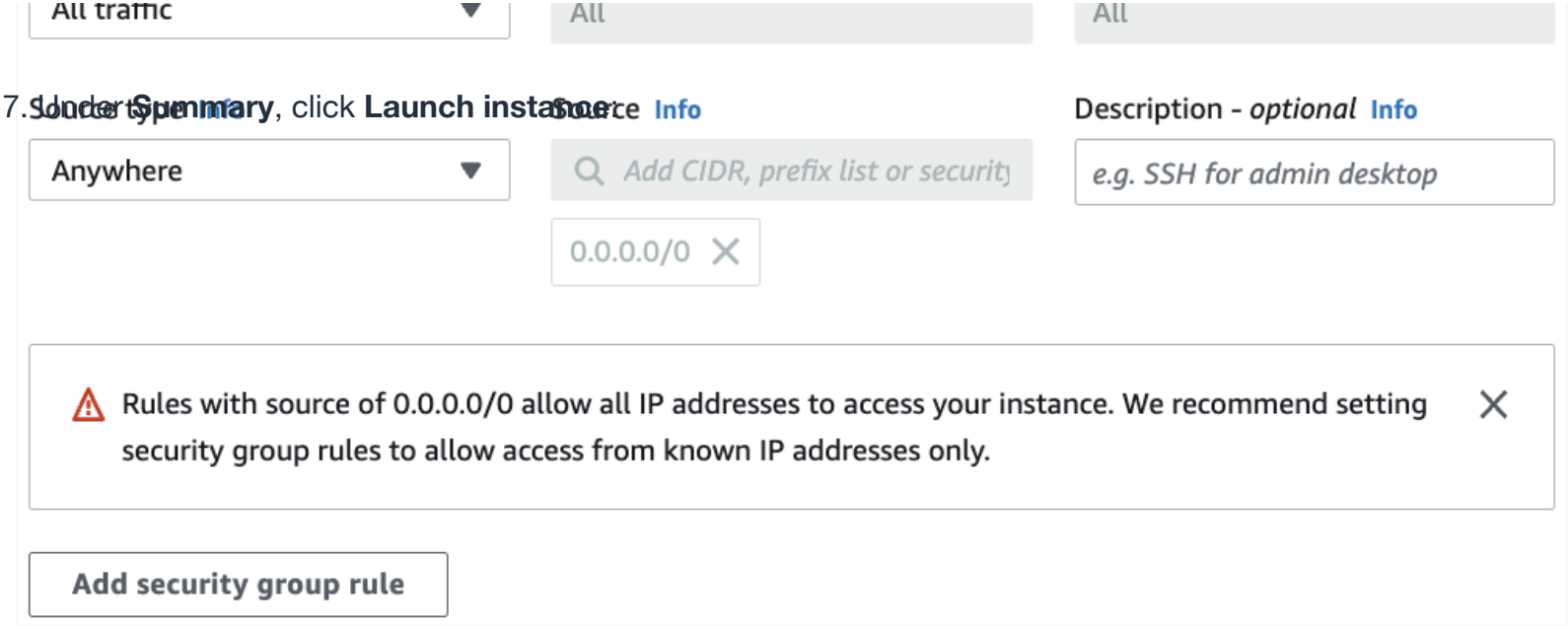
▼ Security group rule 1 (TCP, 22, 0.0.0.0/0) Remove

Type Info	Protocol Info	Port range Info
ssh	TCP	22

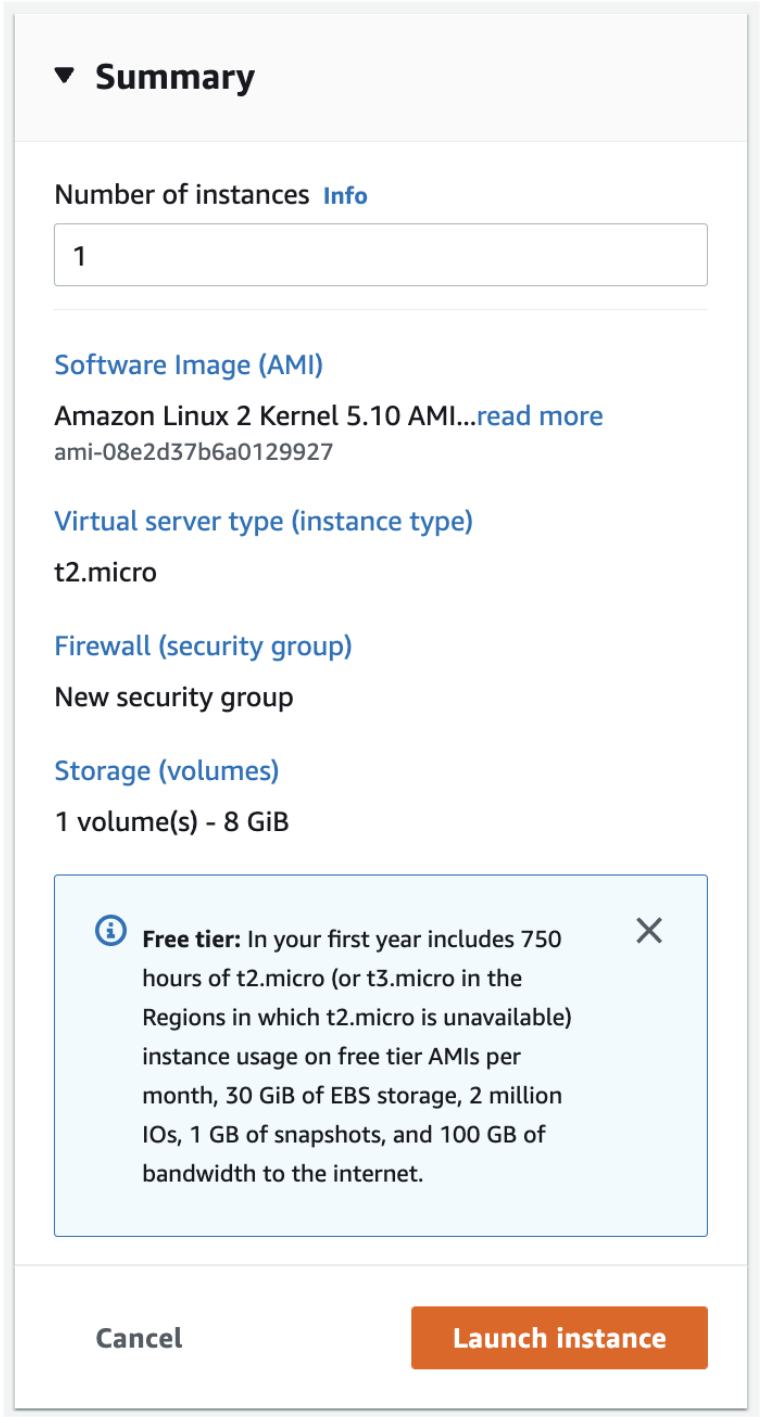
Source type Info	Source Info	Description - *optional* Info
Anywhere	Add CIDR, prefix list or securit	e.g. SSH for admin desktop
	0.0.0.0/0	

▼ Security group rule 2 (All, All, 0.0.0.0/0) Remove

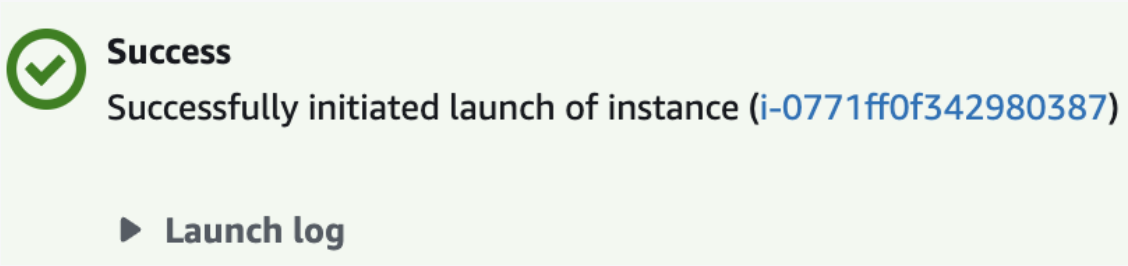
Type Info	Protocol Info	Port range Info



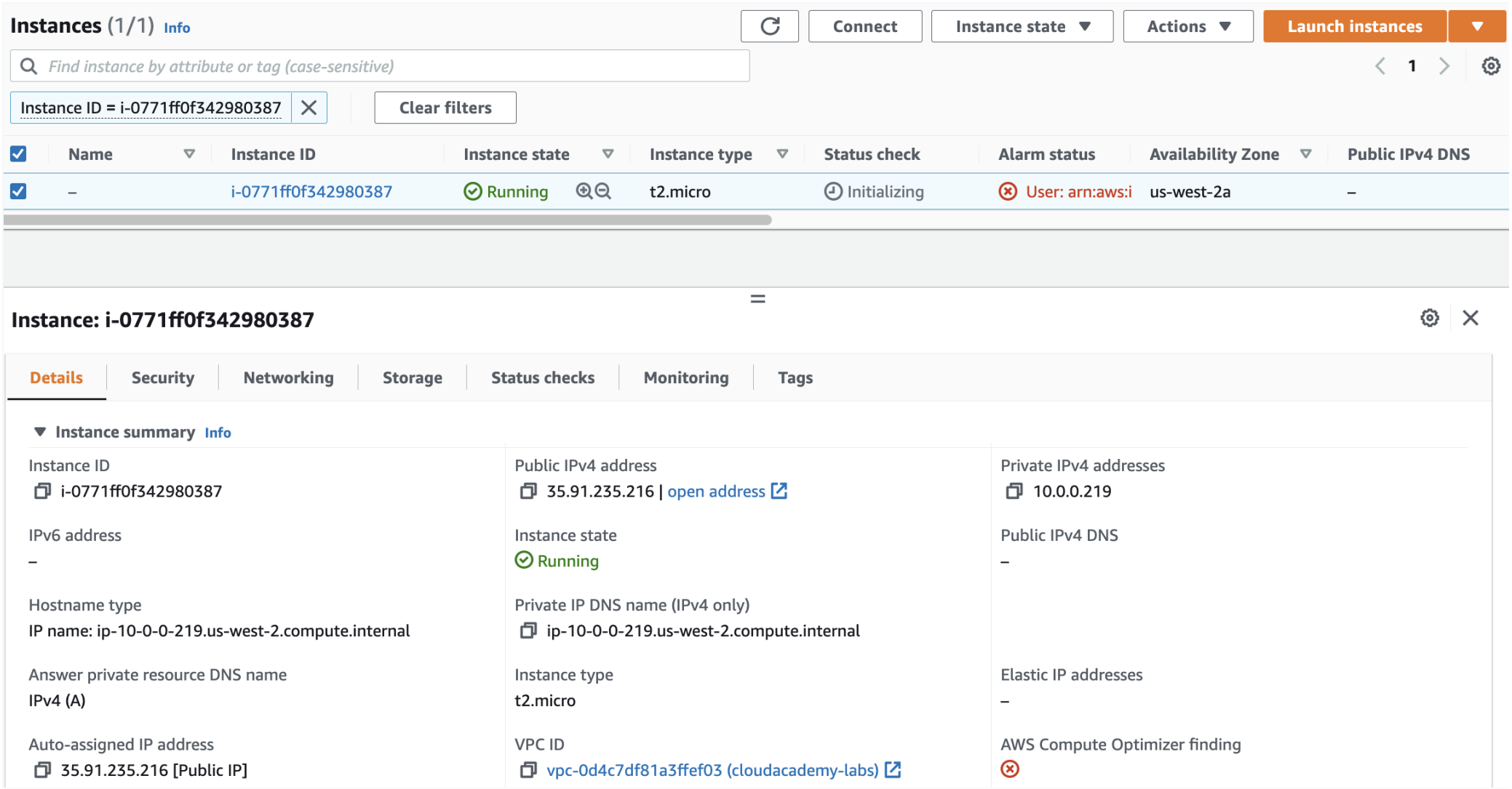
7. Under **Summary**, click **Launch instance**.


Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-08e2d37b6a0129927
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 IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance

8. Click on the ID of the instance you have created:



9. Select the instance, ensure it is in the **Running** state, and record the **Public IPv4 address** found in the **Details** tab of the EC2 instance: :



10. Open a terminal window on your computer (command prompt or PowerShell window on Windows or terminal on mac OSX and Linux) and execute the following command, replacing *<PublicIPAddress>* with the IP address you recorded:

Copy code

```
ping <PublicIPAddress>
```

```
64 bytes from 52.206.218.22: icmp_seq=1 ttl=236 time=49.3 ms
64 bytes from 52.206.218.22: icmp_seq=2 ttl=236 time=44.0 ms
64 bytes from 52.206.218.22: icmp_seq=3 ttl=236 time=47.0 ms
64 bytes from 52.206.218.22: icmp_seq=4 ttl=236 time=45.3 ms
```

Summary

In this Lab Step, you created an EC2 instance within your AWS VPC and used its public IP address to ping it.

VALIDATION CHECKS

1 **Checks**

Check again

Created EC2 Instance

Check if the Amazon EC2 instance has been created

Amazon EC2