

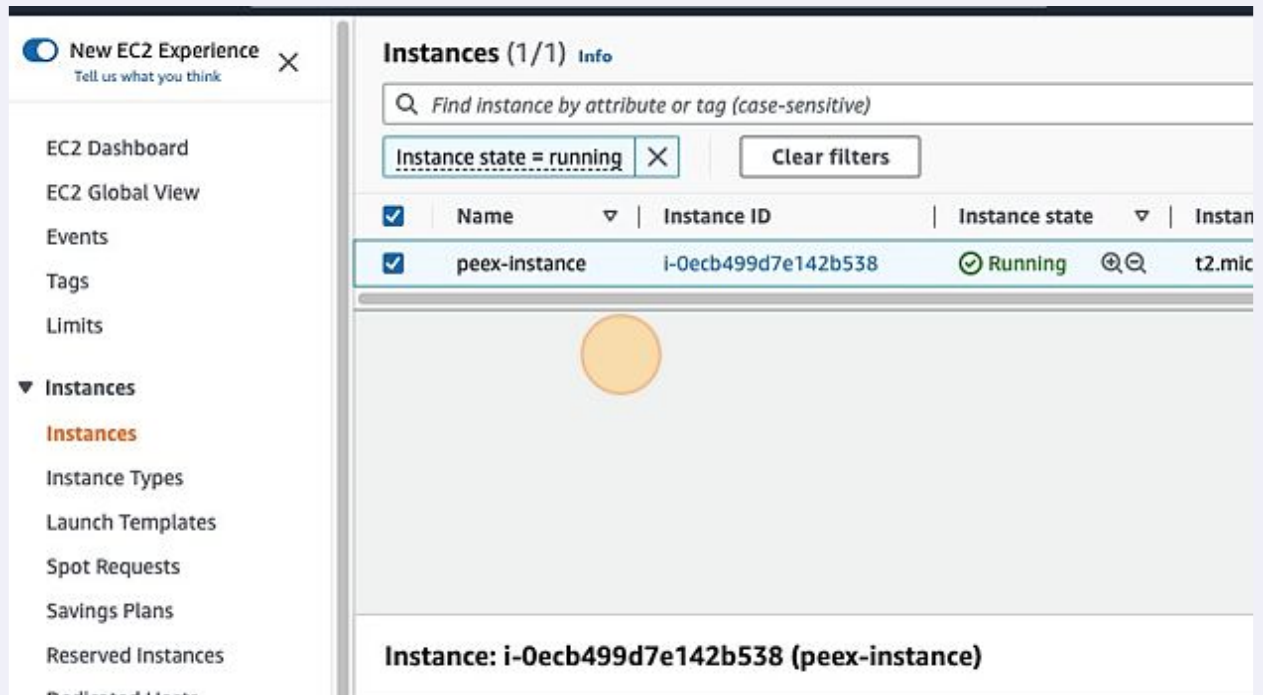
# AWS AMI creation

1 Click "peex-instance"

The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', and a dropdown for 'Instances' which is currently expanded to show 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', and 'Savings Plans'. The main content area is titled 'Instances (1) Info' and features a search bar with the placeholder text 'Find Instance by attribute or tag (case-sensitive)'. Below the search bar, there is a filter box containing 'Instance state = running' and a 'Clear filters' button. A table lists the instances, with one instance named 'peex-instance' highlighted by a yellow circle. The table has columns for 'Name', 'Instance ID', 'Instance state', and 'Instance type'. The instance 'peex-instance' has an Instance ID of 'i-0ecb499d7e142b538', is in a 'Running' state (indicated by a green checkmark), and is of type 't2.micro'.

Name	Instance ID	Instance state	Instance type
peex-instance	i-0ecb499d7e142b538	Running	t2.micro

2 Click here.



**Instances (1/1)** Info

Find instance by attribute or tag (case-sensitive)

Instance state = running X Clear filters

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type
<input checked="" type="checkbox"/>	peex-instance	i-0ecb499d7e142b538	Running	t2.micro

Instance: i-0ecb499d7e142b538 (peex-instance)

3 I have connected to the instance to install apache

```
april.x86_64 0:1.7.0-9.amzn2      apr-util.x86_64 0:1.6.1-5.amzn2.0.2  apr-util-bdb.x86_64
httpd-tools.x86_64 0:2.4.54-1.amzn2  mailcap.noarch 0:2.1.41-2.amzn2      mod_http2.x86_64

complete!
ec2-user@ip-172-31-95-124 ~]$ systemctl start
Too few arguments.
ec2-user@ip-172-31-95-124 ~]$ systemctl start httpd
Failed to start httpd.service: The name org.freedesktop.PolicyKit1 was not provided by any .service files.
See system logs and 'systemctl status httpd.service' for details.
ec2-user@ip-172-31-95-124 ~]$ sudo systemctl start httpd
ec2-user@ip-172-31-95-124 ~]$ sudo su
root@ip-172-31-95-124 ec2-user# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
root@ip-172-31-95-124 ec2-user# echo "Hello PeEx" > /var/www/html/index.html
root@ip-172-31-95-124 ec2-user# curl localhost:80
bash: curl: command not found
root@ip-172-31-95-124 ec2-user# curl localhost:80
Hello PeEx
root@ip-172-31-95-124 ec2-user#
```

i-0ecb499d7e142b538 (peex-instance)

Public IPs: 44.203.255.215 Private IPs: 172.31.95.124



- 4 And created a simple html file with a "Hello Peex" inside

```
systemctl start  
  
systemctl start httpd  
The name org.freedesktop.PolicyKit1 was not provided by any .service files  
status httpd.service' for details.  
sudo systemctl start httpd  
sudo su  
# systemctl enable httpd  
Created symlink /usr/lib/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.  
# echo "Hello PeEx" > /var/www/html/index.html  
# curl localhost:80  
  
# curl localhost:80  
#
```

tance)

2.31.95.124

Find it in the new [Unified Settings](#)

- 5 In a new tab, navigate to [44.203.255.215](http://44.203.255.215) which is the public address of the instance just to check that the html file shows "hello peex"

6 Click "Hello PeEx"

Hello PeEx

7 Click here.

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

### Instances (1/1) Info

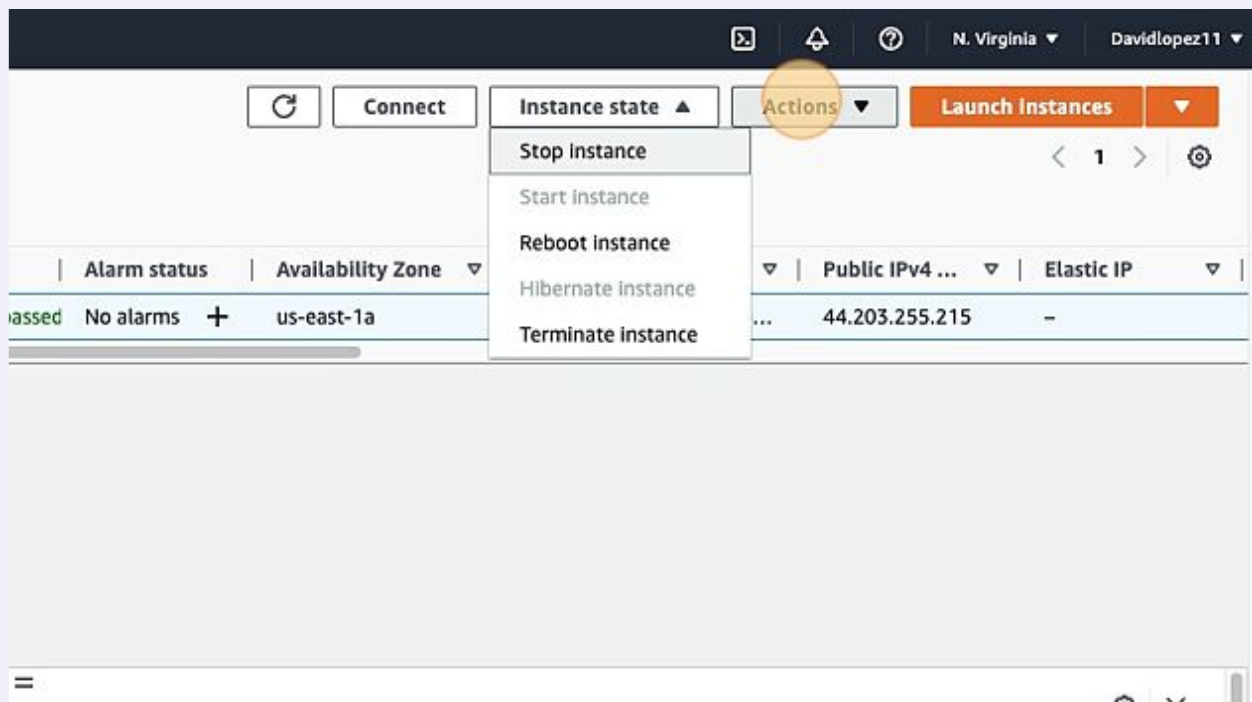
Find instance by attribute or tag (case-sensitive)

Instance state = running × Clear filters

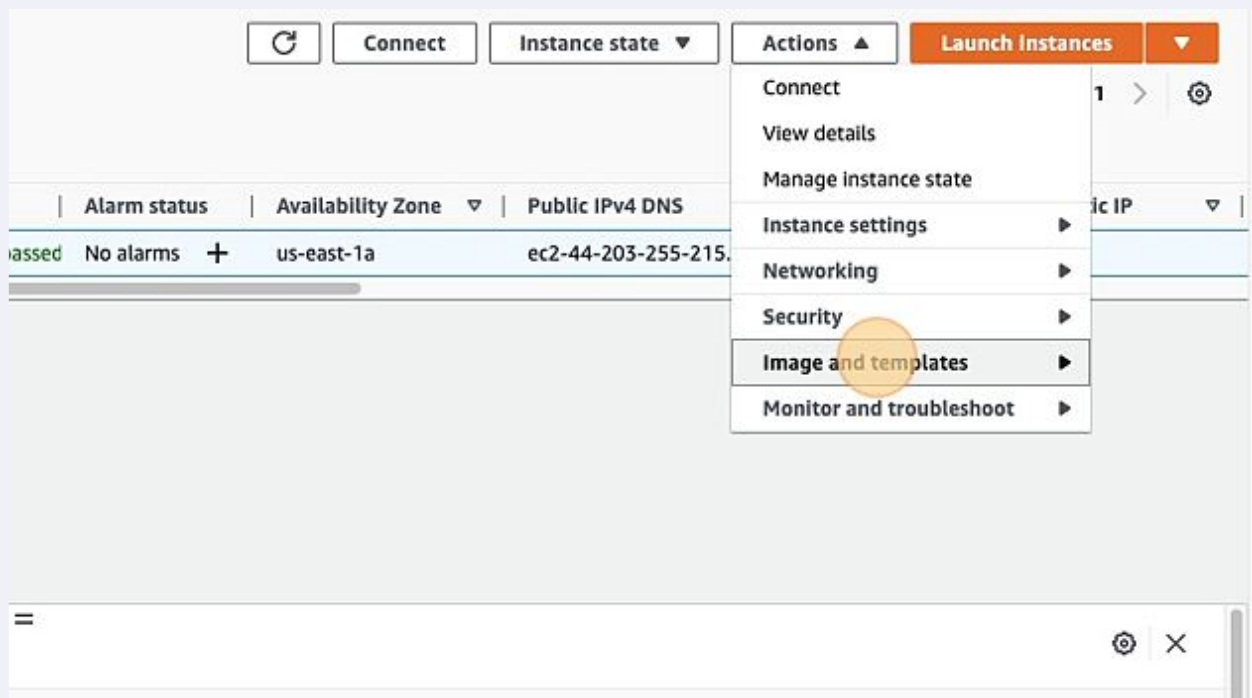
<input checked="" type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instan
<input checked="" type="checkbox"/>	peex-instance	i-0ecb499d7e142b538	<span>✓</span> Running <span>⊕</span> <span>⊖</span>	t2.mic

Instance: i-0ecb499d7e142b538 (peex-instance)

## 8 Click "Actions"



## 9 Click "Image and templates"



## 10 Click "Create image"

The screenshot shows the AWS Management Console interface for an EC2 instance. At the top, there are buttons for 'Connect', 'Instance state', and 'Actions'. The 'Actions' dropdown menu is open, showing options like 'Connect', 'View details', 'Manage instance state', 'Instance settings', 'Networking', 'Security', 'Image and templates', and 'Monitor and troubleshoot'. The 'Image and templates' option is highlighted, and its sub-menu is visible, showing 'Create image', 'Create template from instance', and 'Launch more like this'. The 'Create image' option is highlighted with an orange circle. Below the dropdown, there is a table with columns for 'Health check', 'Alarm status', 'Availability Zone', and 'Public IPv4 DNS'. The table shows '2/2 checks passed', 'No alarms', 'us-east-1a', and 'ec2-44-203-255-215.'. At the bottom, there is a search bar and a settings icon.

## 11 Click the "Image name" field.

The screenshot shows the 'Create image' page in the AWS Management Console. The breadcrumb navigation at the top reads 'EC2 > Instances > i-0ecb499d7e142b538 > Create image'. The page title is 'Create image' with an 'Info' link. Below the title, there is a description: 'An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create...'. The 'Instance ID' field is populated with 'i-0ecb499d7e142b538 (peex-Instance)'. The 'Image name' field is highlighted with an orange circle and contains the placeholder text 'Enter image name'. Below this field, there is a note: 'Maximum 127 characters. Can't be modified after creation.' The 'Image description - optional' field contains the placeholder text 'Image description' and has a note: 'Maximum 255 characters'. The 'No reboot' section has a checkbox labeled 'Enable'. The 'Instance volumes' section is partially visible at the bottom.

12 Type "hello-peex"

13 Click the "Image description - optional" field.

Instance ID  
i-0ecb499d7e142b538 (peex-instance)

Image name  
hello-peex  
Maximum 127 characters. Can't be modified after creation.

Image description - optional  
Image description  
Maximum 255 characters

No reboot  
☐ Enable

Instance volumes

Volume type	Device	Snapshot	Size	Volume type
EBS	Idev1	Create new snapshot fr	0	EBS General Purpose S

14 Click here.

i-0ecb499d7e142b538 (peex-instance)

Image name

hello-peex

Maximum 127 characters. Can't be modified after creation.

Image description - optional

AMI with html file

Maximum 255 characters

No reboot

☐ Enable

Instance volumes

Volume type	Device	Snapshot	Size	Volume type
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose S...

15 Click "Create image"

AWS costs.

separately

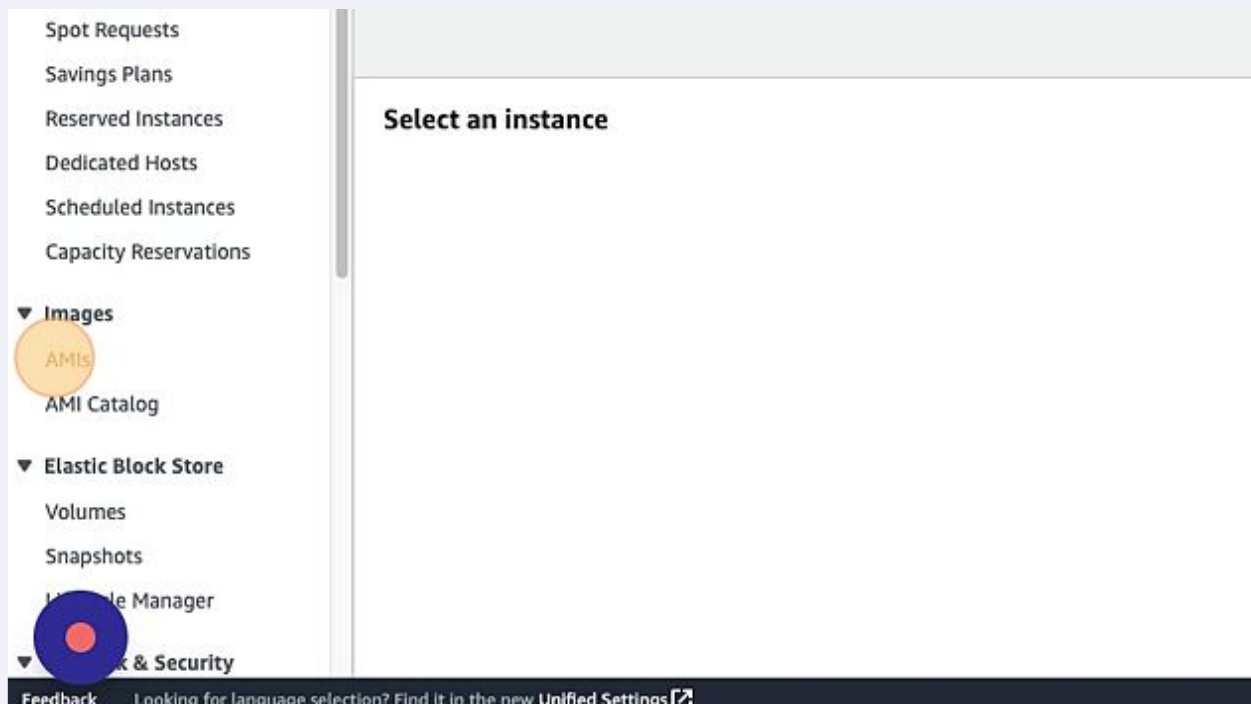
with different tags.

Cancel Create Image

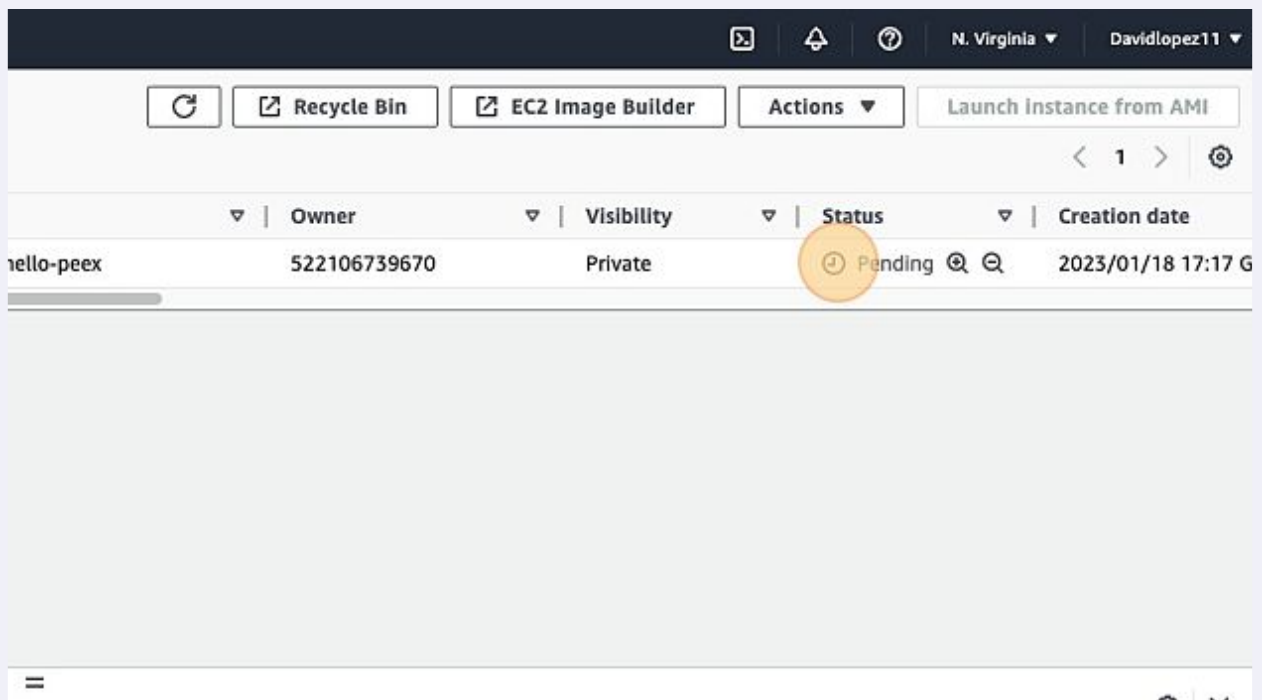
© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie p



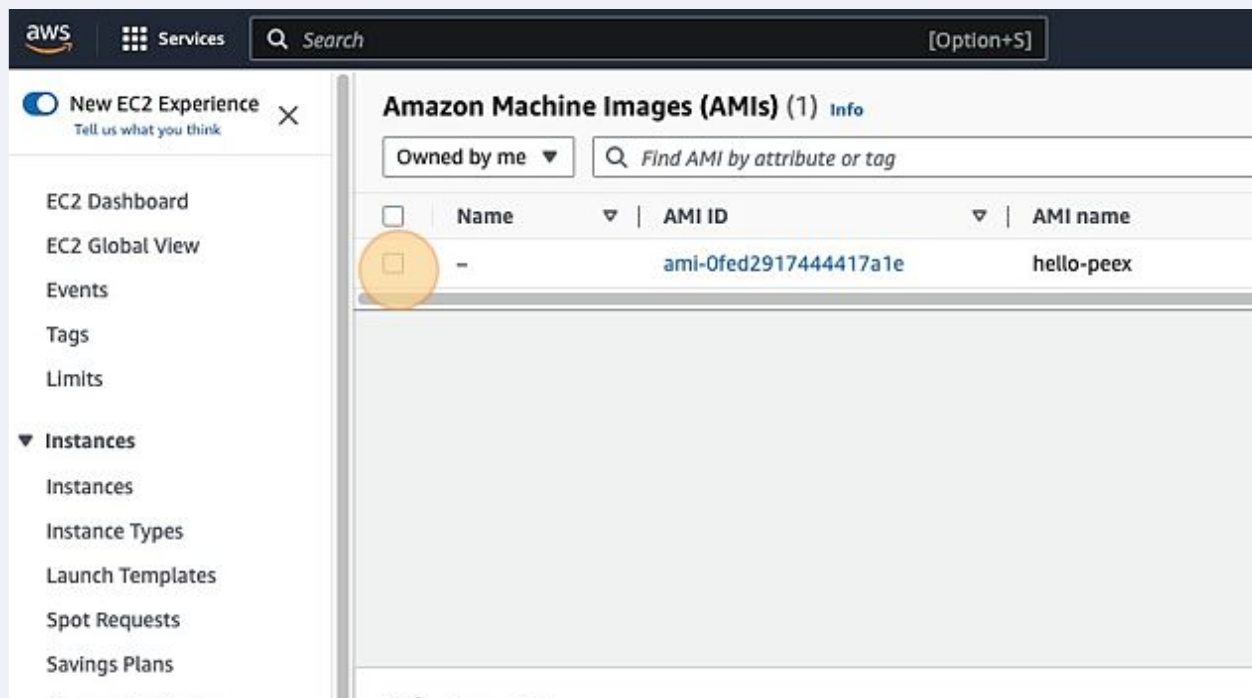
## 16 Click "AMIs"



## 17 check the newly created AMI



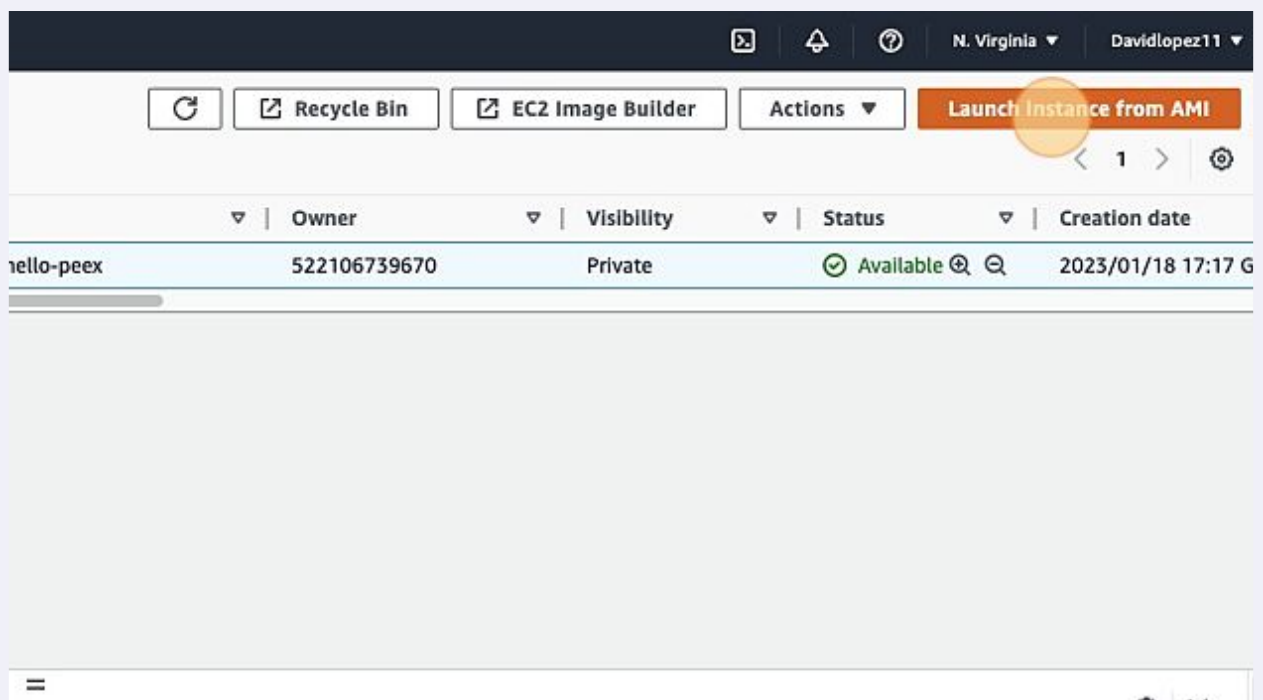
18 Click this checkbox.



The screenshot shows the AWS Management Console interface. On the left is a navigation menu with options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and a dropdown for Instances. The main panel is titled "Amazon Machine Images (AMIs) (1) Info". It features a search bar "Find AMI by attribute or tag" and a filter "Owned by me". Below this is a table with columns: Name, AMI ID, and AMI name. The first row contains a checkbox (highlighted with a yellow circle), a dash "-", the AMI ID "ami-Ofed2917444417a1e", and the name "hello-peex".

<input type="checkbox"/>	Name	AMI ID	AMI name
<input type="checkbox"/>	-	ami-Ofed2917444417a1e	hello-peex

19 Click "Launch instance from AMI"



The screenshot shows the AWS Management Console interface for a specific AMI. At the top, there's a header with "N. Virginia" and "Davidlopez11". Below the header is a toolbar with buttons: "Recycle Bin", "EC2 Image Builder", "Actions", and "Launch instance from AMI" (highlighted with a yellow circle). Below the toolbar is a table with columns: Owner, Visibility, Status, and Creation date. The first row shows "hello-peex", "522106739670", "Private", "Available", and "2023/01/18 17:17 G".

Owner	Visibility	Status	Creation date	
hello-peex	522106739670	Private	Available	2023/01/18 17:17 G

- 20 Click the "Name" field.

## 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

- 21 Type "hello-peex-instance"

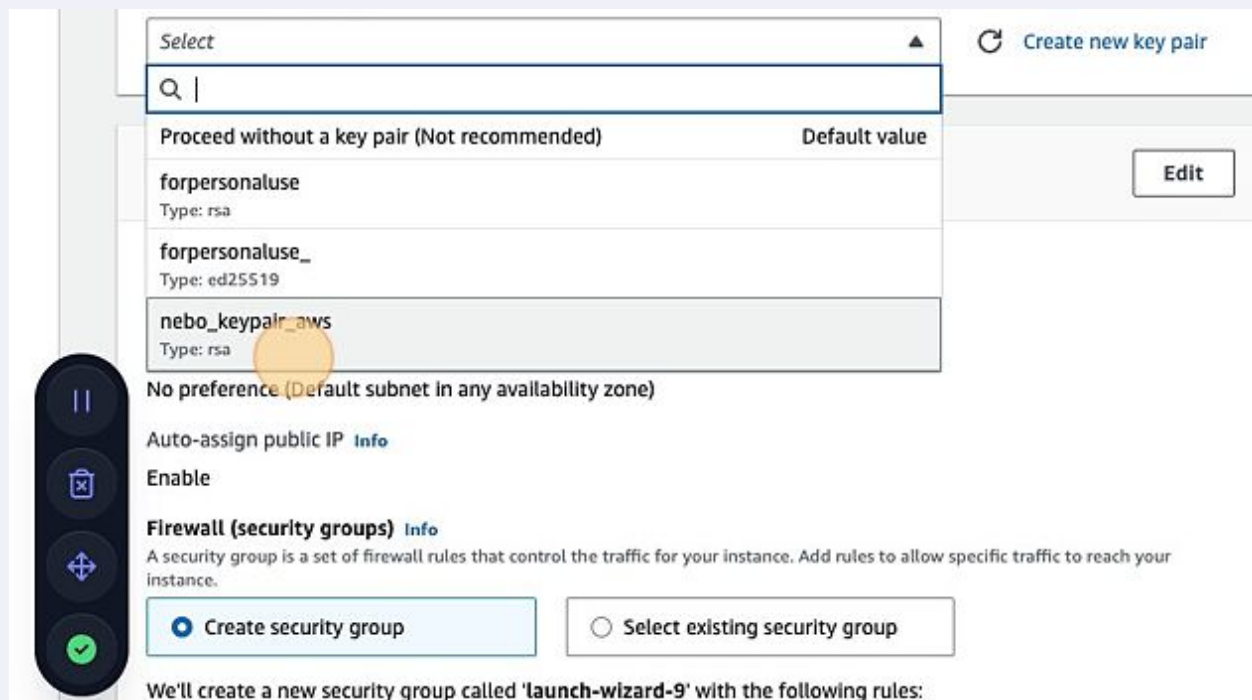
- 22 Click the "Name" field.

The screenshot shows the 'Launch an instance' page in the AWS Management Console. The page title is 'Launch an instance' with an 'Info' link. Below the title is a brief description of Amazon EC2. The main section is 'Name and tags' with an 'Info' link. It contains a 'Name' label and a text input field with the value 'hello-peeze-instance'. An orange circle highlights the text input field. To the right of the input field is a button labeled 'Add additional tags'. Below this section is a section titled 'Application and OS Images (Amazon Machine Image)' with an 'Info' link. It contains a description of AMIs and a search bar with the placeholder text 'Search our full catalog including 1000s of application and OS images'.

- 23 Click here.

The screenshot shows the 'Launch an instance' page in the AWS Management Console, specifically the 'Key pair (login)' section. The section title is 'Key pair (login)' with an 'Info' link. Below the title is a description of key pairs. The main section is 'Key pair name - required' with a dropdown menu showing 'Select'. An orange circle highlights the dropdown menu. To the right of the dropdown menu is a button labeled 'Create new key pair'. Above this section is a section titled 'Family: t2' with a dropdown menu showing '1 vCPU 1 GiB Memory'. To the right of this section is a button labeled 'Compare instance types'. Below the 'Key pair (login)' section is a section titled 'Network settings' with an 'Info' link. To the right of this section is a button labeled 'Edit'. Below the 'Network settings' section is a section titled 'Network' with an 'Info' link. It contains the value 'vpc-00d3e05e6e055a776'. Below this section is a section titled 'Subnet' with an 'Info' link.

24



Select ▲

Q |

Proceed without a key pair (Not recommended) Default value

forpersonaluse  
Type: rsa

forpersonaluse\_  
Type: ed25519

nebo\_keypair\_aws  
Type: rsa

Create new key pair

Edit

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

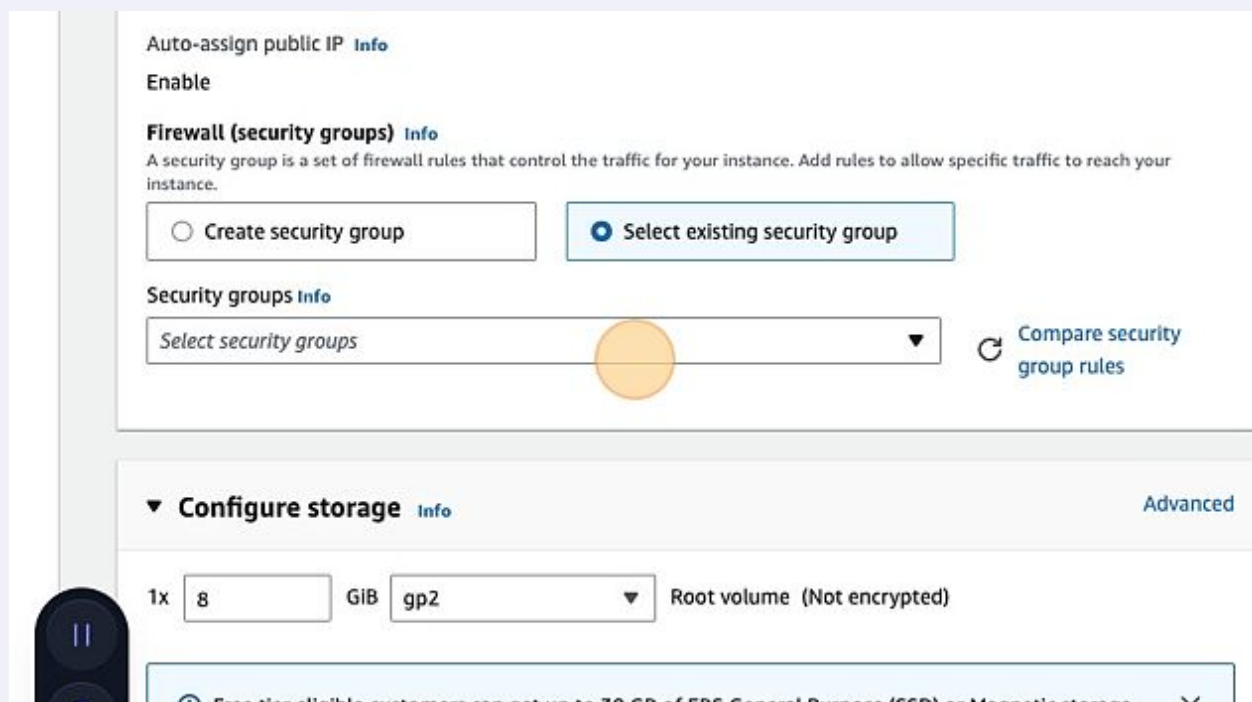
**Firewall (security groups)** [Info](#)

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-9' with the following rules:

25 Click "Select security groups"



Auto-assign public IP [Info](#)

Enable

**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 groups [Info](#)

Select security groups ▼

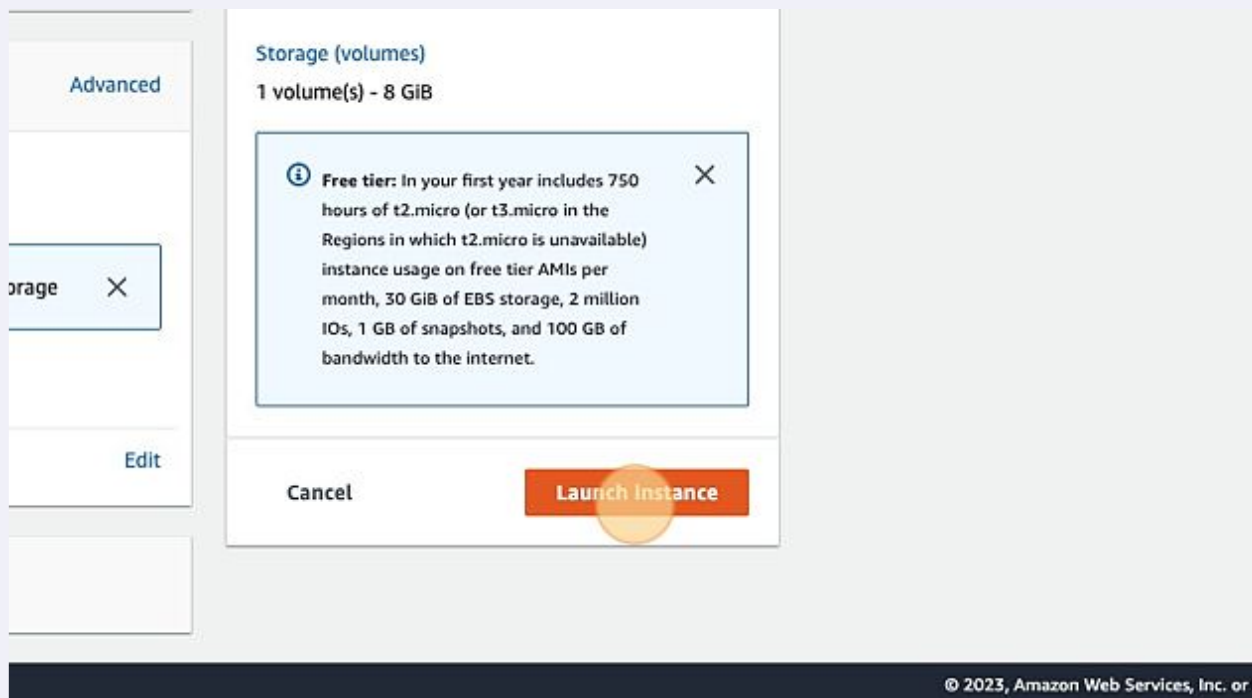
Compare security group rules

▼ **Configure storage** [Info](#) Advanced

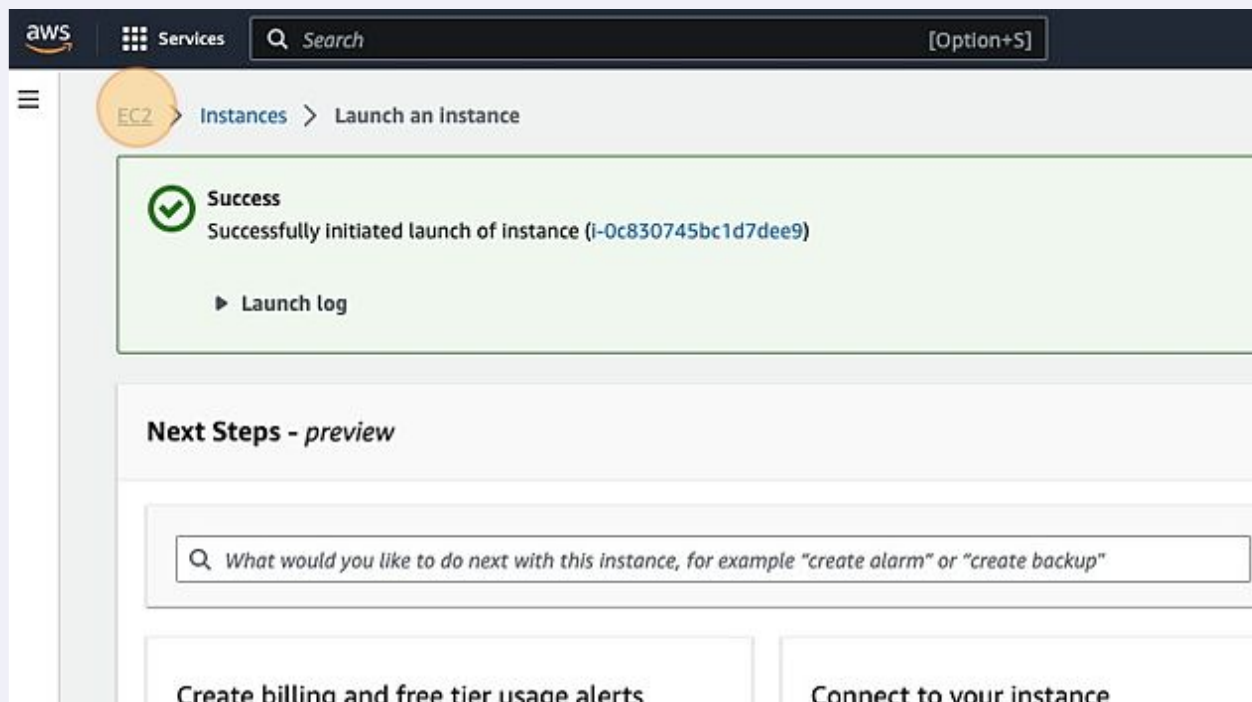
1x 8 GiB gp2 ▼ Root volume (Not encrypted)

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

## 26 Click "Launch instance"



## 27 Click "EC2"



28 Click here.

The screenshot shows the AWS Management Console interface. On the left, there's a sidebar with navigation links: 'New EC2 Experience' (with a close button), 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', and a dropdown for 'Instances' which includes 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', and 'Savings Plans'. The main content area is titled 'Resources' and states 'You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:'. Below this, there's a table of resources:

Resource	Count
<a href="#">Instances (running)</a>	1
<a href="#">Instances</a>	3
<a href="#">Placement groups</a>	0
<a href="#">Volumes</a>	2

Additional links on the right include 'Dedicated Hosts', 'Key pairs', and 'Security groups'. At the bottom, there's a blue box with an information icon and text: 'Easily size, configure, and deploy Microsoft SQL Server Always On availability group. [Learn more](#)'.

29 Grab the public address and connect to it

The screenshot shows the details of an EC2 instance named 'hello-peex-instance' (ID: i-0c830745bc1d7dee9). The instance was created 'minute ago'. The details are organized into two columns:

Label	Value
Public IPv4 address	54.211.243.152   <a href="#">open address</a>
Instance state	Running
Private IP DNS name (IPv4 only)	ip-172-31-81-93.ec2.internal
Instance type	t2.micro
VPC ID	vpc-00d3e05e6e055a776

On the left side of the details, there are labels for 'source DNS name' and 'address', with the value '52 [Public IP]' visible.

**30** In a new tab, navigate to [54.211.243.152](https://54.211.243.152)

**31** Click "Hello PeEx"



Hello PeEx