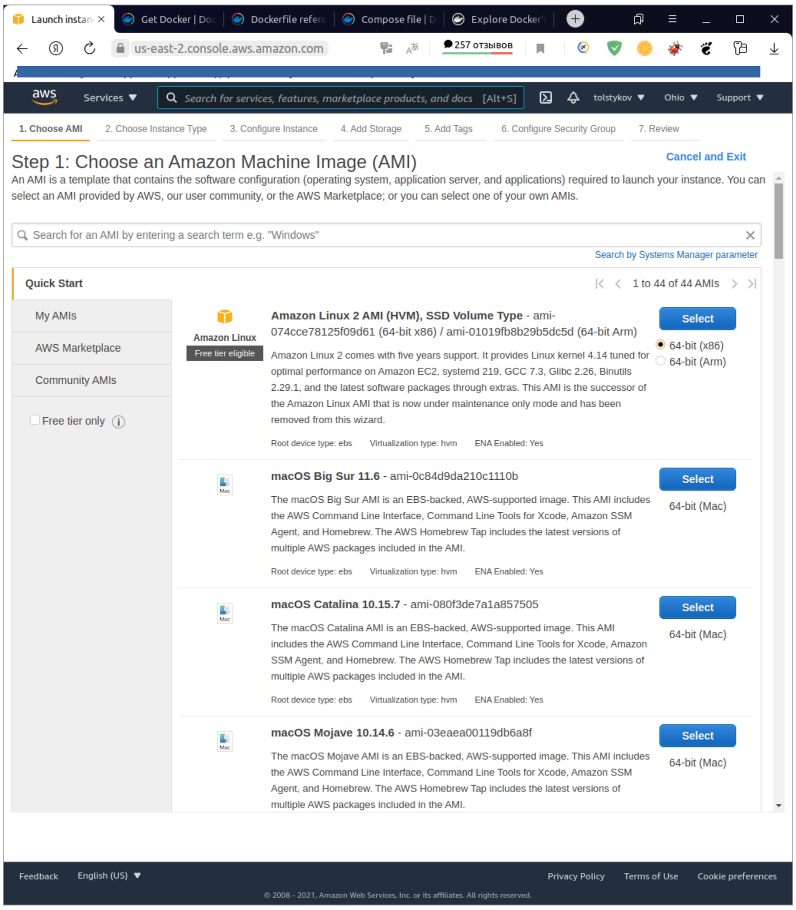
Домашнее задание к уроку 2 - Docker



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

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

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.

Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parameter

Quick Start

1 to 44 of 44 AMIs

My AMIs

AWS Marketplace

Community AMIs

□ Free tier only

Amazon Linux
Free tier eligible

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-074cce78125f09d61 (64-bit x86) / ami-01019fb8b29b5dc5d (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

● 64-bit (x86)
○ 64-bit (Arm)

macOS Big Sur 11.6 - ami-0c84d9da210c1110b

The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit (Mac)

macOS Catalina 10.15.7 - ami-080f3de7a1a857505

The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit (Mac)

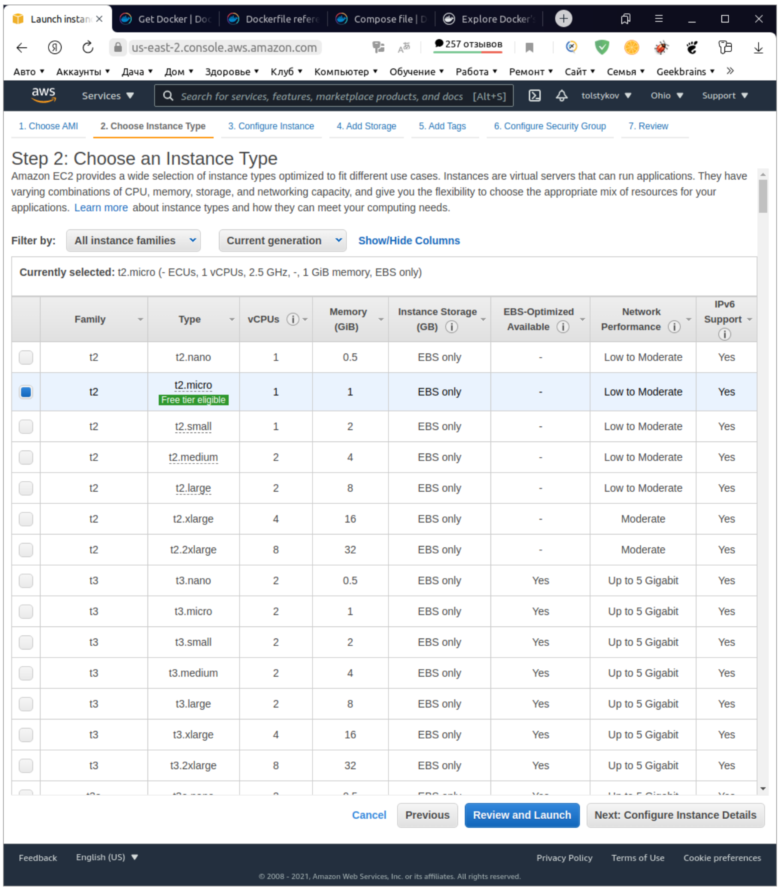
macOS Mojave 10.14.6 - ami-03eaea00119db6a8f

The macOS Mojave AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Select

64-bit (Mac)

Feedback
English (US) ▼
Privacy Policy
Terms of Use
Cookie preferences
© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.



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

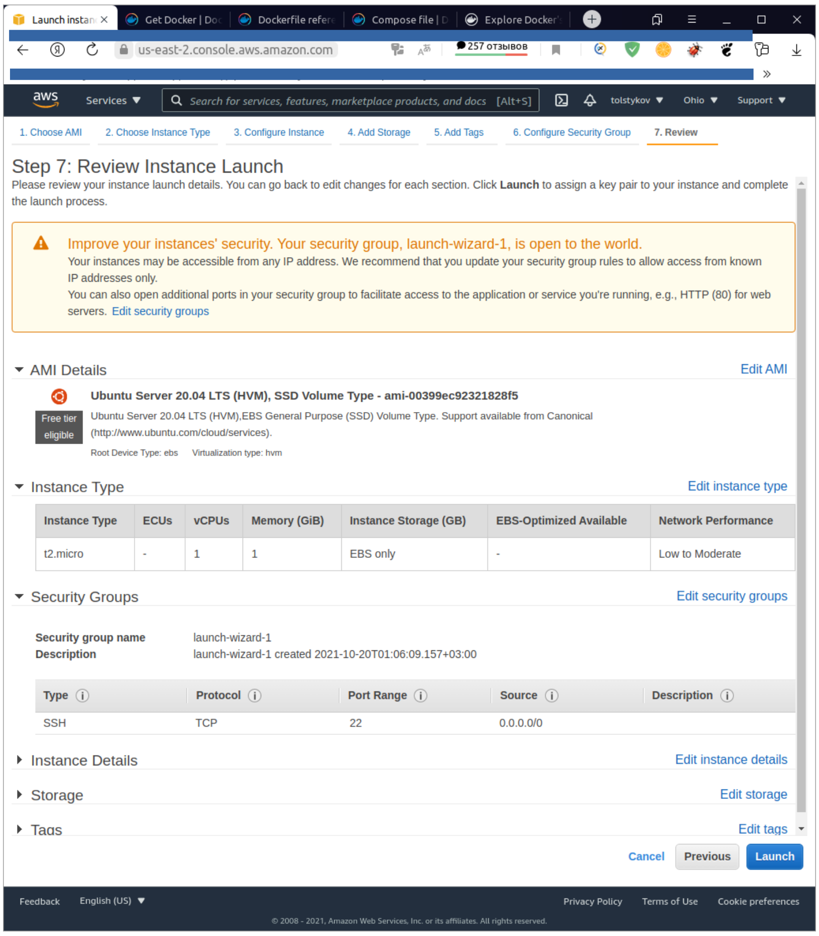
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources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

Filter by: All instance families | Current generation | Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
□	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
■	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
□	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
□	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
□	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
□	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
□	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
□	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
□	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
□	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
□	t3	t3.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
□	t3	t3.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes
□	t3	t3.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes
□	t3	t3.2xlarge	8	32	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English (US) ▼
Privacy Policy
Terms of Use
Cookie preferences
© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.



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, launch-wizard-1, 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

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-00399ec92321828f5

Free tier eligible

Ubuntu Server 20.04 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	-	1	1	EBS only	-	Low to Moderate

Security Groups

Edit security groups

Security group name launch-wizard-1
Description launch-wizard-1 created 2021-10-20T01:06:09.157+03:00

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

Instance Details

Edit instance details

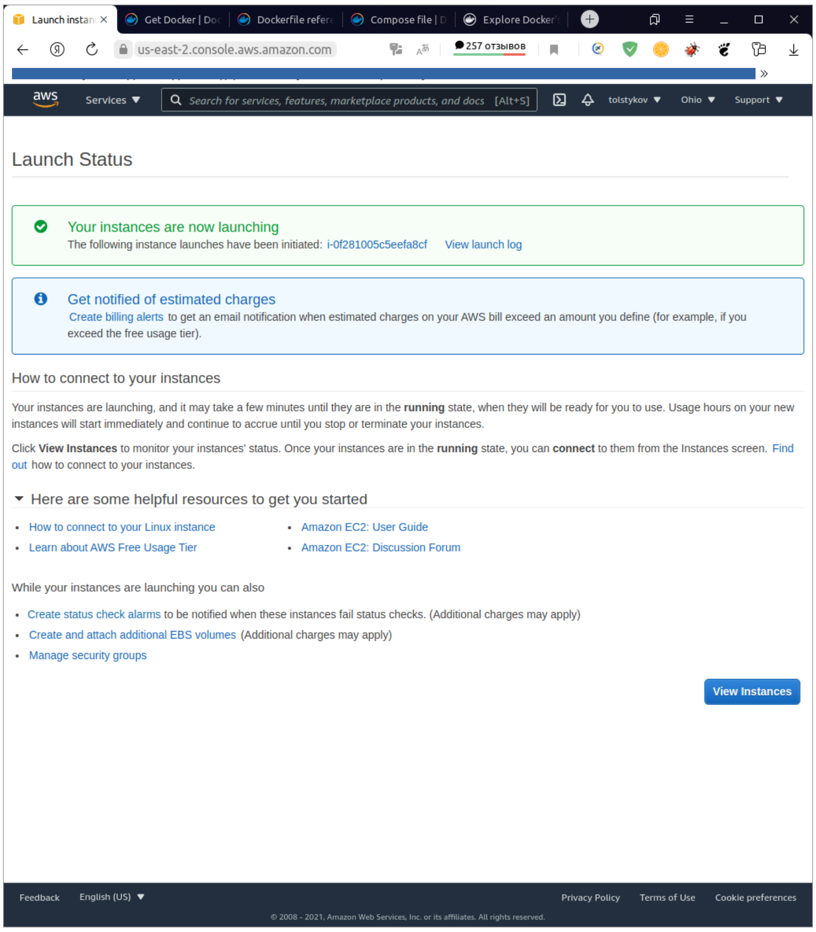
Storage

Edit storage

Tags

Edit tags

© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.



Launch Status

Your instances are now launching
The following instance launches have been initiated: i-0f281005c5eefa8cf View launch log

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.

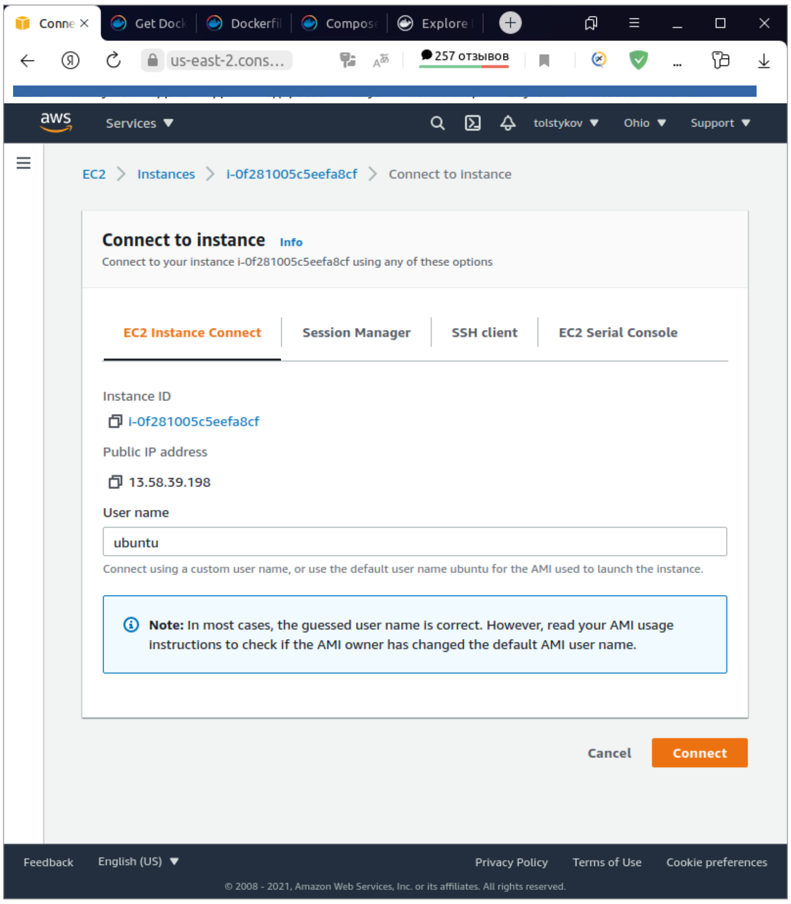
▼ Here are some helpful resources to get you started

- How to connect to your Linux instance
- Learn about AWS Free Usage Tier
- Amazon EC2: User Guide
- 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
Feedback
English (US) ▼
Privacy Policy
Terms of Use
Cookie preferences
© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.



Connect to instance Info
Connect to your instance i-0f281005c5eefa8cf using any of these options

EC2 Instance Connect | Session Manager | SSH client | EC2 Serial Console

Instance ID
i-0f281005c5eefa8cf

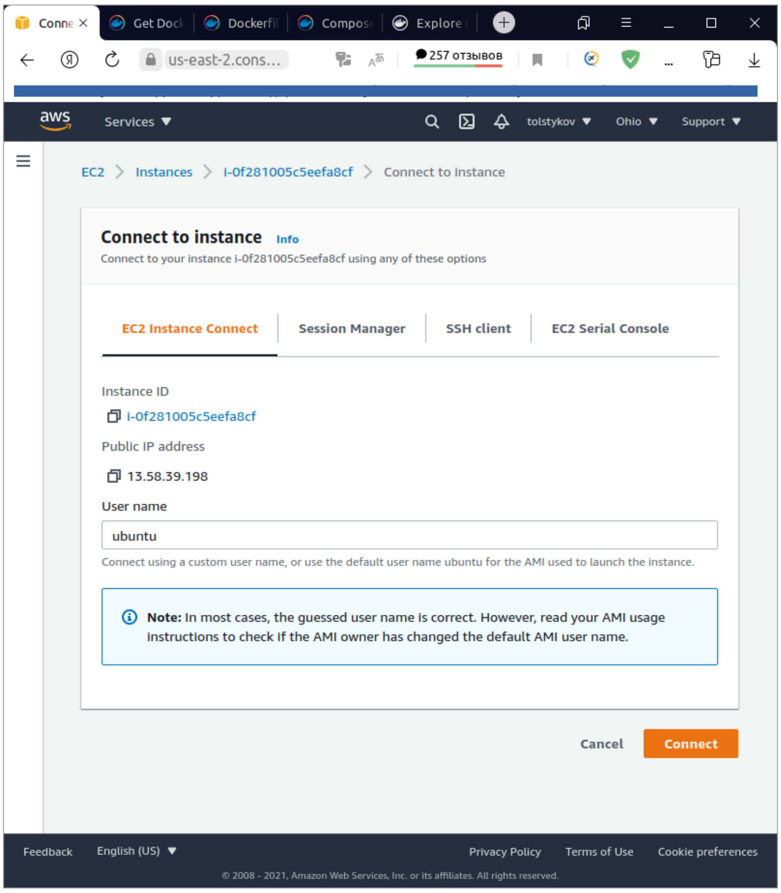
Public IP address
13.58.39.198

User name
ubuntu

Connect using a custom user name, or use the default user name ubuntu for the AMI used to launch the instance.

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel
Connect
Feedback
English (US) ▼
Privacy Policy
Terms of Use
Cookie preferences
© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.



Connect to instance

Connect to your instance i-0f281005c5eefa8cf using any of these options

Instance ID

i-0f281005c5eefa8cf

Public IP address

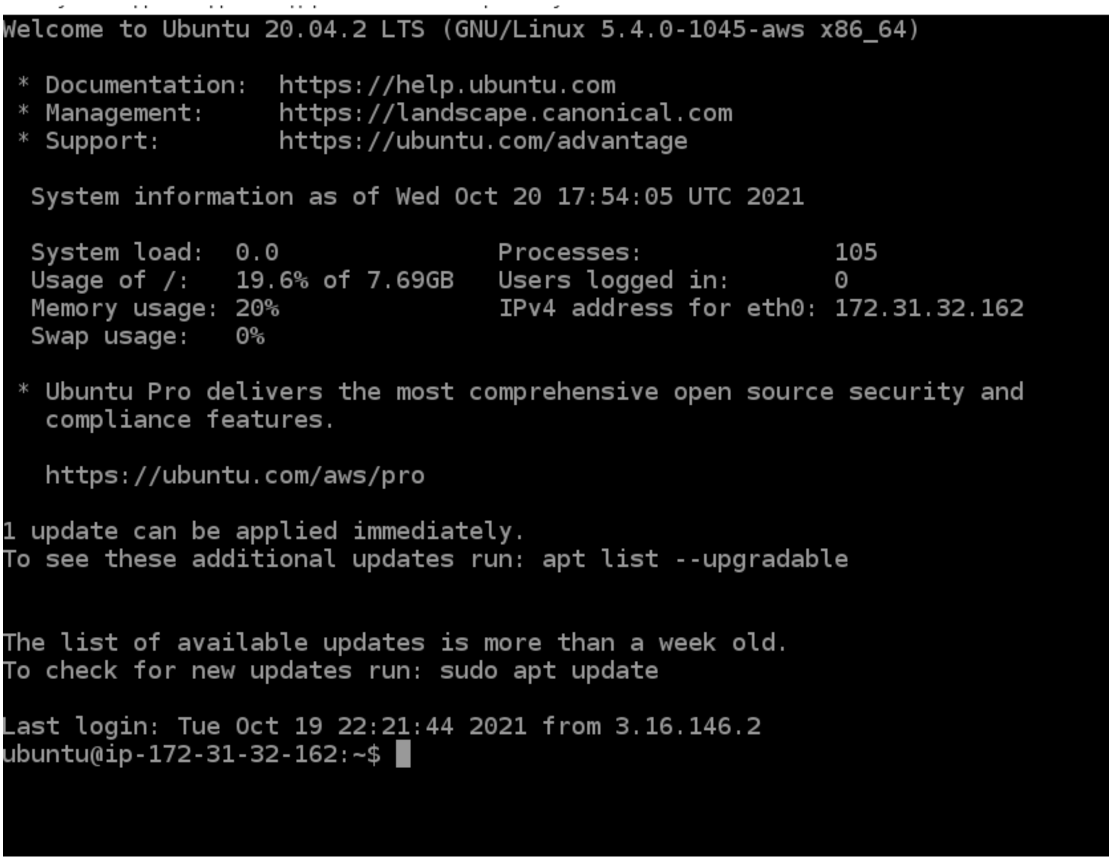
13.58.39.198

User name

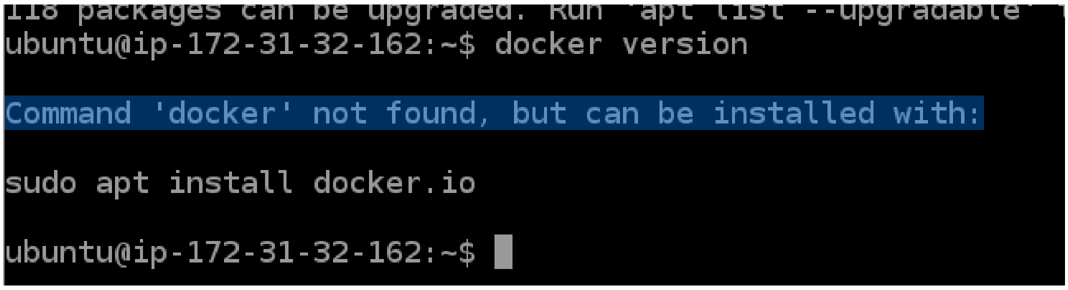
ubuntu

Connect using a custom user name, or use the default user name ubuntu for the AMI used to launch the instance.

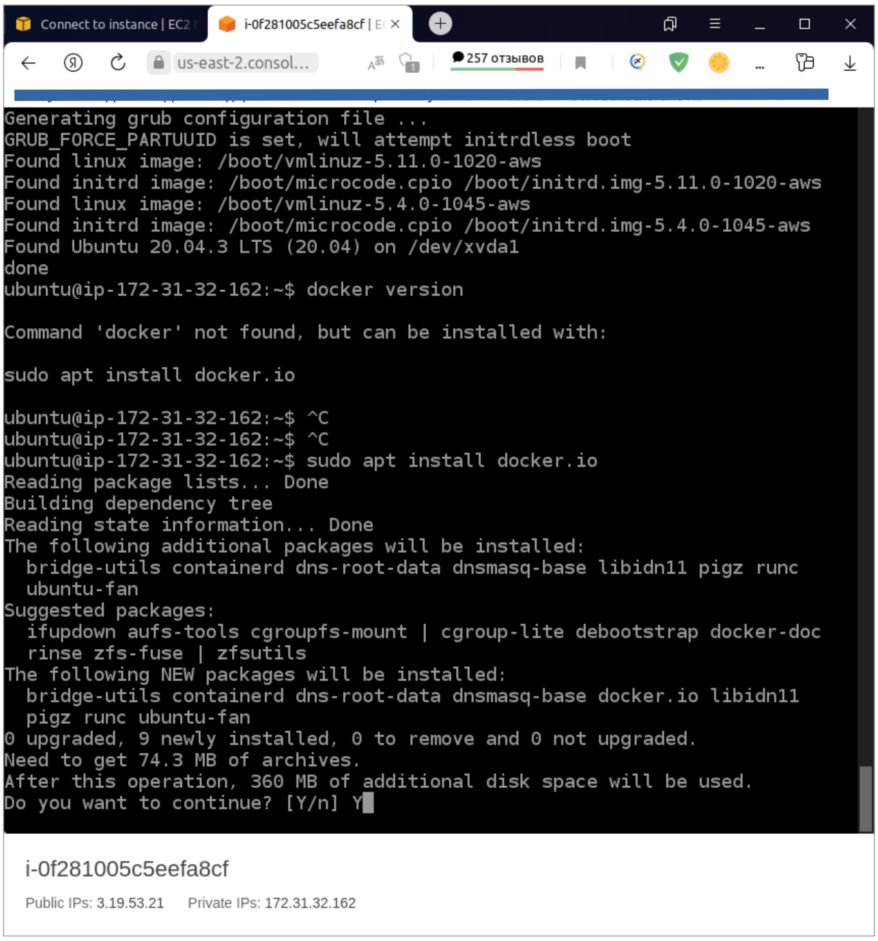
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.



```
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Wed Oct 20 17:54:05 UTC 2021

  System load:  0.0               Processes:             105
  Usage of /:   19.6% of 7.69GB   Users logged in:       0
  Memory usage: 20%               IPv4 address for eth0: 172.31.32.162
  Swap usage:   0%

 * Ubuntu Pro delivers the most comprehensive open source security and
   compliance features.

   https://ubuntu.com/aws/pro

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable


The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Tue Oct 19 22:21:44 2021 from 3.16.146.2
ubuntu@ip-172-31-32-162:~$ █
```



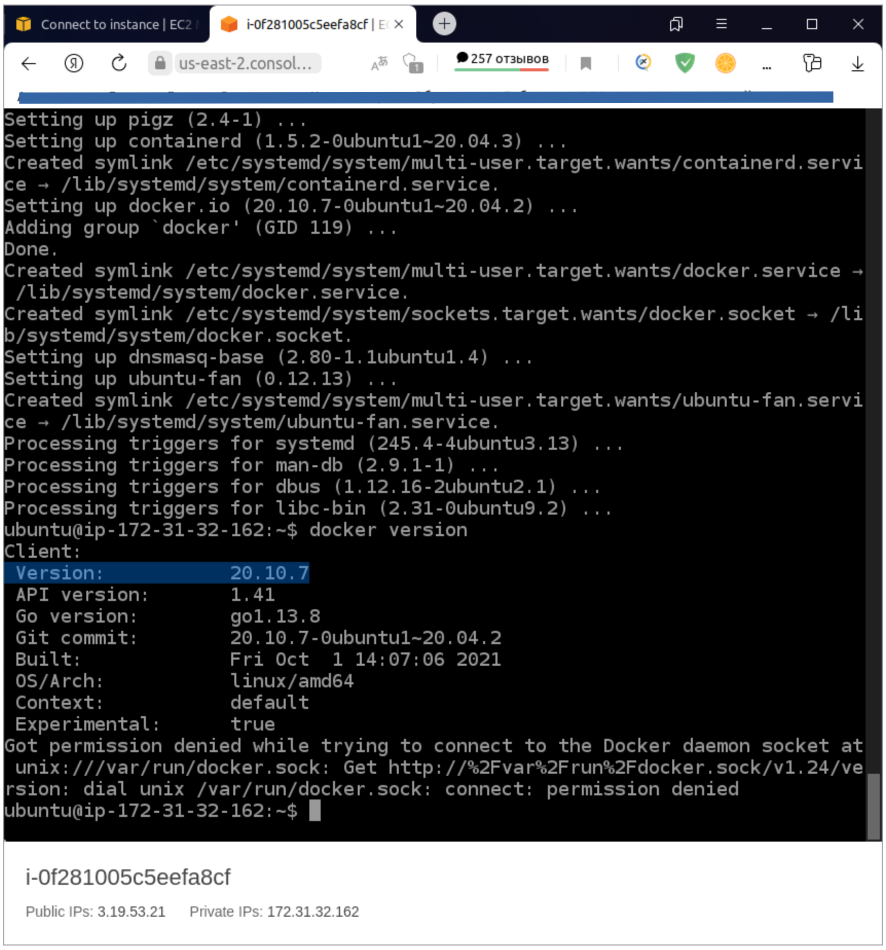
```
118 packages can be upgraded. Run 'apt list --upgradable'
ubuntu@ip-172-31-32-162:~$ docker version

Command 'docker' not found, but can be installed with:

sudo apt install docker.io

ubuntu@ip-172-31-32-162:~$
```



```
Generating grub configuration file ...
GRUB_FORCE_PARTUUID is set, will attempt initrdless boot
Found linux image: /boot/vmlinuz-5.11.0-1020-aws
Found initrd image: /boot/microcode.cpio /boot/initrd.img-5.11.0-1020-aws
Found linux image: /boot/vmlinuz-5.4.0-1045-aws
Found initrd image: /boot/microcode.cpio /boot/initrd.img-5.4.0-1045-aws
Found Ubuntu 20.04.3 LTS (20.04) on /dev/xvda1
done
ubuntu@ip-172-31-32-162:~$ docker version

Command 'docker' not found, but can be installed with:

sudo apt install docker.io

ubuntu@ip-172-31-32-162:~$ ^C
ubuntu@ip-172-31-32-162:~$ ^C
ubuntu@ip-172-31-32-162:~$ sudo apt install docker.io
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base libidn11 pigz runc
  ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc
  rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base docker.io libidn11
  pigz runc ubuntu-fan
0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.
Need to get 74.3 MB of archives.
After this operation, 360 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

i-0f281005c5eefa8cf

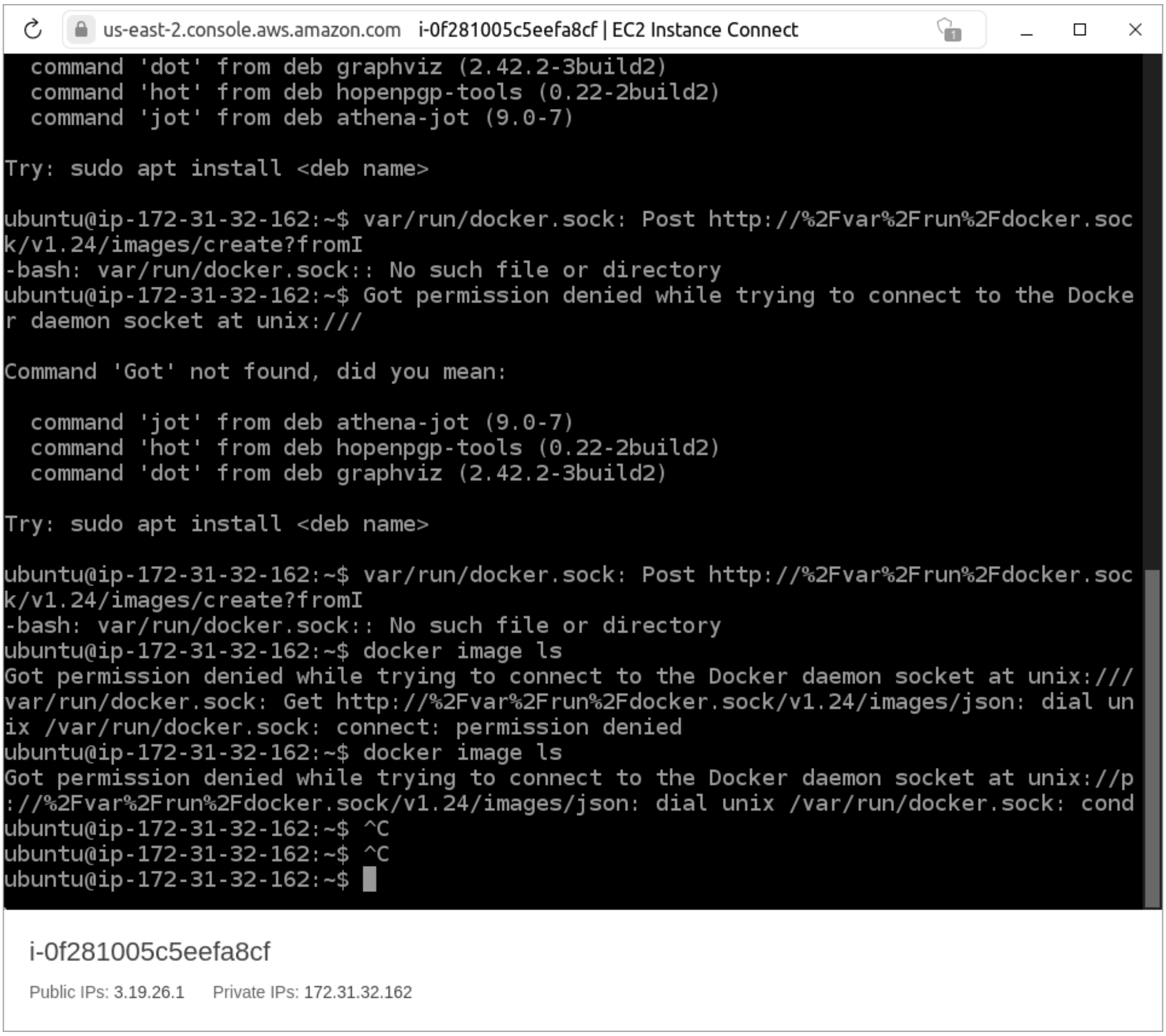
Public IPs: 3.19.53.21   Private IPs: 172.31.32.162



```
Setting up pigz (2.4-1) ...
Setting up containerd (1.5.2-0ubuntu1~20.04.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.servi
ce → /lib/systemd/system/containerd.service.
Setting up docker.io (20.10.7-0ubuntu1~20.04.2) ...
Adding group `docker' (GID 119) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service →
 /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /li
b/systemd/system/docker.socket.
Setting up dnsmasq-base (2.80-1.1ubuntu1.4) ...
Setting up ubuntu-fan (0.12.13) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.servi
ce → /lib/systemd/system/ubuntu-fan.service.
Processing triggers for systemd (245.4-4ubuntu3.13) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
ubuntu@ip-172-31-32-162:~$ docker version
Client:
 Version:           20.10.7
 API version:       1.41
 Go version:        go1.13.8
 Git commit:        20.10.7-0ubuntu1~20.04.2
 Built:             Fri Oct  1 14:07:06 2021
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true
Got permission denied while trying to connect to the Docker daemon socket at
 unix:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.24/ve
rsion: dial unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-32-162:~$
```

i-0f281005c5eefa8cf

Public IPs: 3.19.53.21   Private IPs: 172.31.32.162


us-east-2.console.aws.amazon.com
i-0f281005c5eefa8cf | EC2 Instance Connect

```
  command 'dot' from deb graphviz (2.42.2-3build2)
  command 'hot' from deb hopenpgp-tools (0.22-2build2)
  command 'jot' from deb athena-jot (9.0-7)

Try: sudo apt install <deb name>

ubuntu@ip-172-31-32-162:~$ var/run/docker.sock: Post http://%2Fvar%2Frun%2Fdocker.soc
k/v1.24/images/create?fromI
-bash: var/run/docker.sock:: No such file or directory
ubuntu@ip-172-31-32-162:~$ Got permission denied while trying to connect to the Docke
r daemon socket at unix:///

Command 'Got' not found, did you mean:

  command 'jot' from deb athena-jot (9.0-7)
  command 'hot' from deb hopenpgp-tools (0.22-2build2)
  command 'dot' from deb graphviz (2.42.2-3build2)

Try: sudo apt install <deb name>

ubuntu@ip-172-31-32-162:~$ var/run/docker.sock: Post http://%2Fvar%2Frun%2Fdocker.soc
k/v1.24/images/create?fromI
-bash: var/run/docker.sock:: No such file or directory
ubuntu@ip-172-31-32-162:~$ docker image ls
Got permission denied while trying to connect to the Docker daemon socket at unix:///
var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json: dial un
ix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-32-162:~$ docker image ls
Got permission denied while trying to connect to the Docker daemon socket at unix://p
://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json: dial unix /var/run/docker.sock: cond
ubuntu@ip-172-31-32-162:~$ ^C
ubuntu@ip-172-31-32-162:~$ ^C
ubuntu@ip-172-31-32-162:~$ 
```

i-0f281005c5eefa8cf

Public IPs: 3.19.26.1   Private IPs: 172.31.32.162