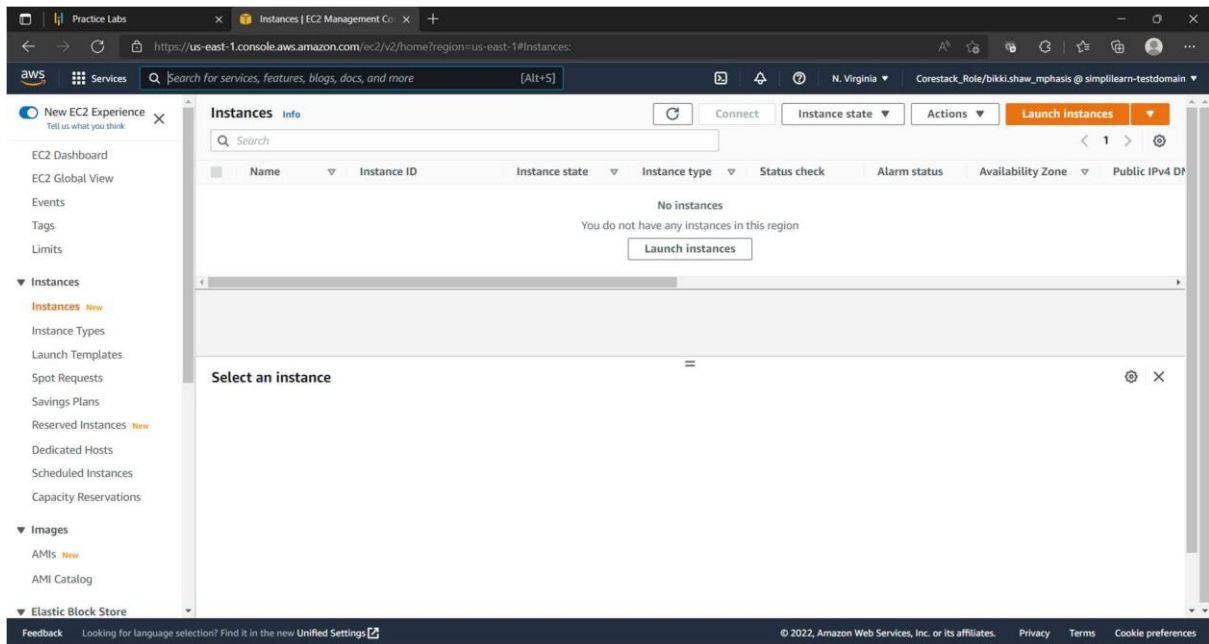


# Deploy Application on Cloud

## Screenshot



Practice Labs

Launch instance wizard | EC2 M...

https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

Search for services, features, blogs, docs, and more

N. Virginia

Corestack\_Role/bikiki.shaw\_mphasis @ simplilearn-testdomain

We are replacing this launch experience with a new launch experience, which we will continue to improve based on your feedback. Opt-in to the new experience by selecting the button on the right and give us feedback. For now you can still opt-out once you have tried it.

Opt-in to the new experience

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Cancel and Exit

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.

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

Search by Systems Manager parameter

Quick Start

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only 1

Amazon Linux

Free tier eligible

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-0f9c25dd2506cf6d (64-bit x86) / ami-06b8f0fe534e0eb95 (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 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: ebsVirtualization type: hvmENA Enabled: Yes

Select

☒ 64-bit (x86)  
☐ 64-bit (Arm)

Amazon Linux

Free tier eligible

Amazon Linux 2 AMI (HVM) - Kernel 4.14, SSD Volume Type - ami-00db75007d6c5c578 (64-bit x86) / ami-02f3470b34b05464a (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.

Select

☒ 64-bit (x86)  
☐ 64-bit (Arm)

Feedback

Looking for language selection? Find it in the new Unified Settings

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Launch instance wizard | EC2 M...

https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

Search for services, features, blogs, docs, and more

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

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 1Launch into Auto Scaling Group

Purchasing option☐ Request Spot instances

Network vpc-080c5ae5936f629ab (default)Create new VPC

Subnet No preference (default subnet in any Availability Zone)Create new subnet

Auto-assign Public IP Use subnet setting (Enable)

Hostname type Use subnet setting (IP name)

DNS Hostname☒ Enable IP name IPv4 (A record) DNS requests☒ Enable resource-based IPv4 (A record) DNS requests☐ Enable resource-based IPv6 (AAAA record) DNS requests

Placement group☐ Add instance to placement group

Capacity Reservation Open

Domain join directory No directoryCreate new directory

IAM roleNoneCreate new IAM role

CancelPreviousReview and LaunchNext: Add Storage

Feedback

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Launch instance wizard | EC2 M...

https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

Search for services, features, blogs, docs, and more

[Alt+S]

N. Virginia

Corestack\_Role/bikiki.shaw\_mphasis @ simplilearn-testdomain

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	Encryption
Root	/dev/xvda	snap-0b25d4444bcoe9352	10	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.

Shared file systems

You currently don't have any file systems on this instance. Select "Add file system" button below to add a file system.

Add file system

Cancel

Previous

Review and Launch

Next: Add Tags

Feedback

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Launch instance wizard | EC2 M...

https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

Search for services, features, blogs, docs, and more

[Alt+S]

N. Virginia

Corestack\_Role/bikiki.shaw\_mphasis @ simplilearn-testdomain

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	Value	Instances	Volumes	Network Interfaces
Name	SpringBootAWS	<input checked="" type="checkbox"/>	<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

Feedback

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Launch instance wizard | EC2 M...

https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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
Custom TCP F	TCP	8080	Custom 0.0.0.0/0 ::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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Practice Labs

EC2 Management Console

https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:

New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits

▼ Instances

- Instances **New**
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances **New**
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

▼ Images

- AMIs **New**
- AMI Catalog

▼ Elastic Block Store

### Instances (1) info

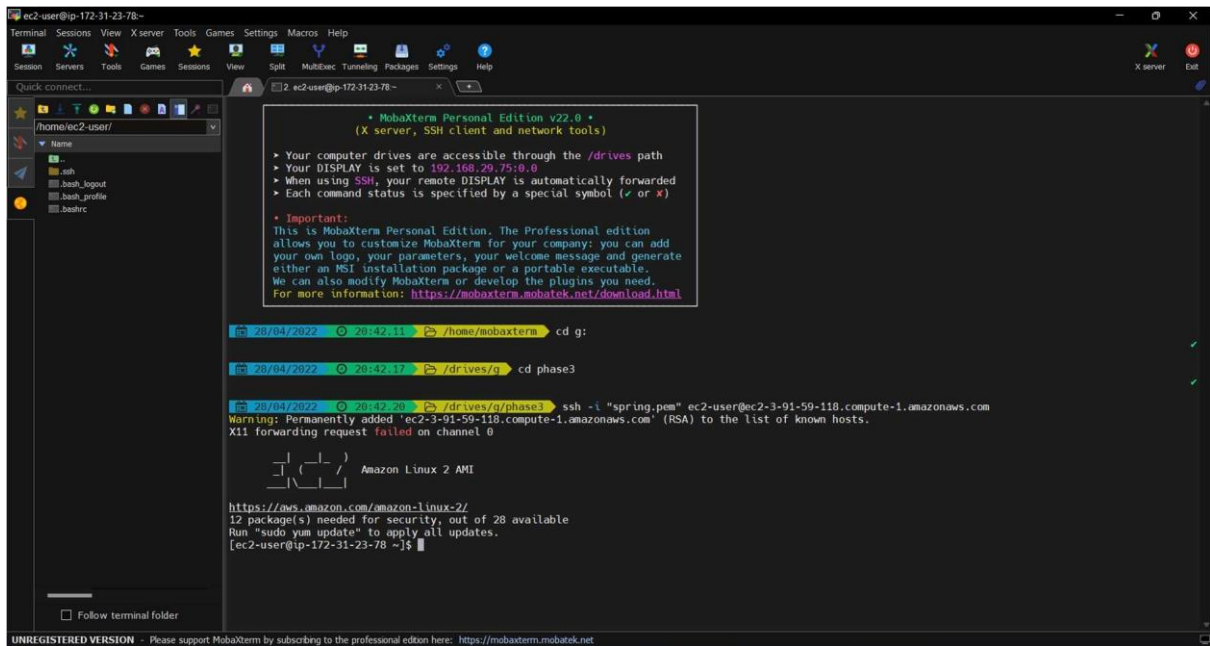
Search

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
<input type="checkbox"/>	SpringBootAWS	i-0f742fe873023a42e	Running	t2.micro	Initializing	No alarms	us-east-1b	ec2-3-91-59-1

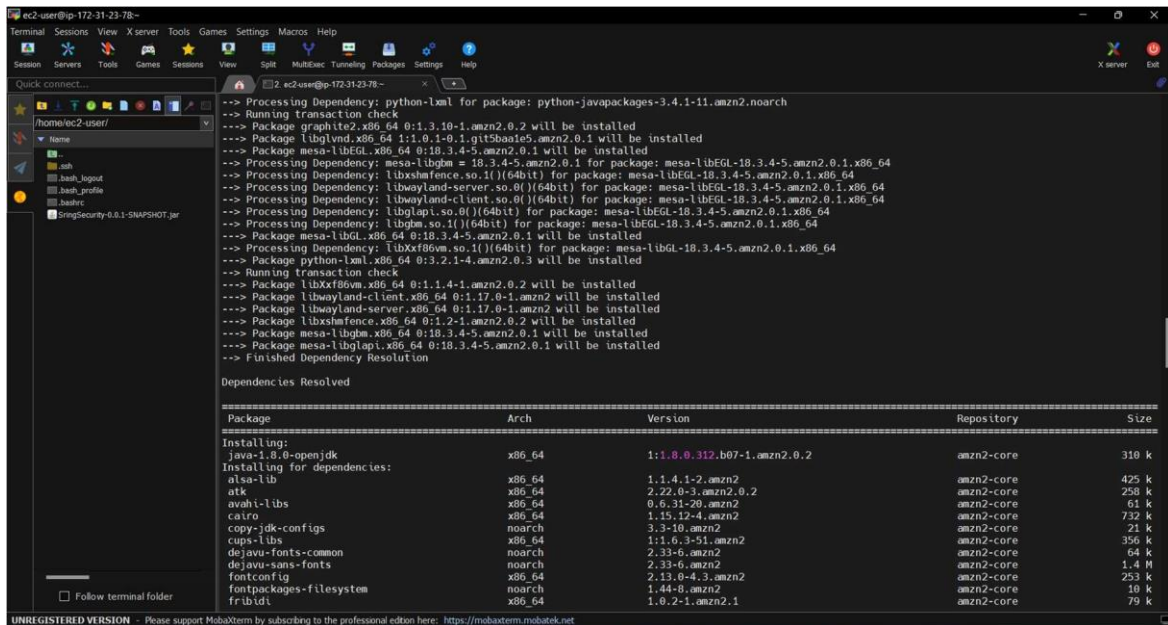
Select an instance

Feedback Looking for language selection? Find it in the new Unified Settings

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## Installing the jdk



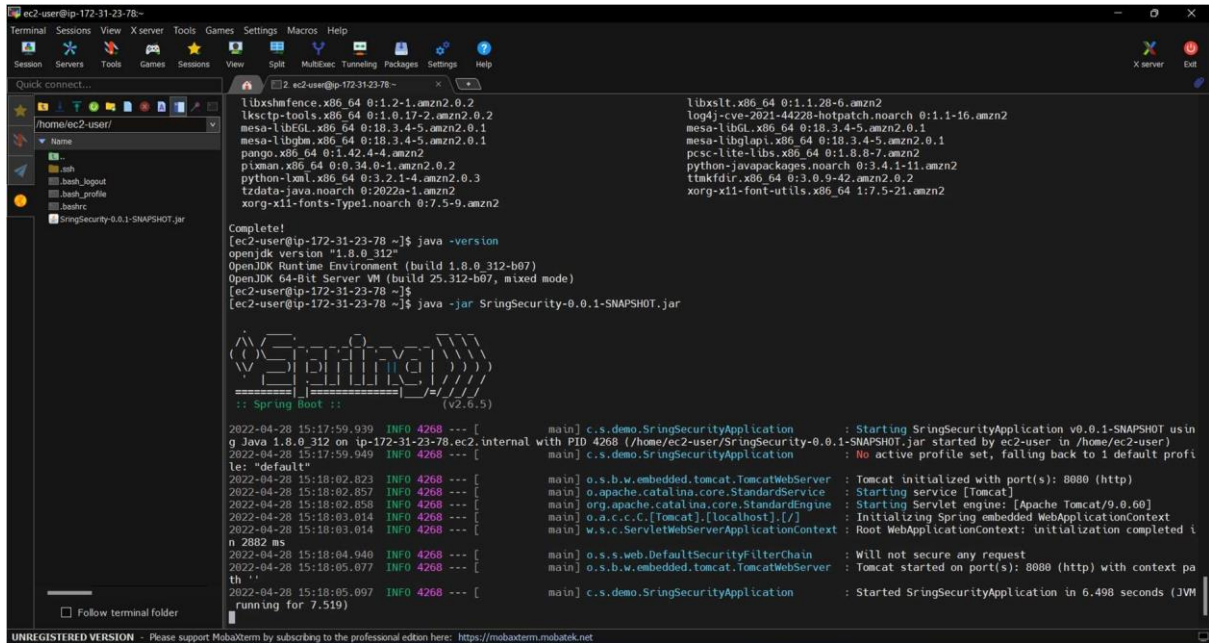


```
ec2-user@ip-172-31-23-78:~$ sudo yum install mesa-libgl-devel
Transaction Summary
Install 1 Package (+63 Dependent packages)

Total download size: 47 M
Installed size: 154 M
Is this ok [y/d/N]: y
Downloading packages:
(1/64): atk-2.22.0-3.amzn2.0.2.x86_64.rpm | 258 kB 00:00:00
(2/64): alsa-lib-1.1.4-1.2.amzn2.x86_64.rpm | 425 kB 00:00:00
(3/64): avahi-libs-0.6.31-20.amzn2.x86_64.rpm | 61 kB 00:00:00
(4/64): copy-jdk-configs-3.3-10.amzn2.noarch.rpm | 21 kB 00:00:00
(5/64): cairo-1.15.12-4.amzn2.x86_64.rpm | 732 kB 00:00:00
(6/64): dejavu-fonts-common-2.33-6.amzn2.noarch.rpm | 64 kB 00:00:00
(7/64): cups-libs-1.6.3-51.amzn2.x86_64.rpm | 356 kB 00:00:00
(8/64): fontconfig-2.13.0-4.3.amzn2.x86_64.rpm | 253 kB 00:00:00
(9/64): dejavu-sans-fonts-2.33-6.amzn2.noarch.rpm | 1.4 MB 00:00:00
(10/64): fontpackages-filesystem-1.44-8.amzn2.noarch.rpm | 10 kB 00:00:00
(11/64): freibidi-1.0.2-1.amzn2.1.x86_64.rpm | 79 kB 00:00:00
(12/64): gdk-pixbuf2-2.36.12-3.amzn2.x86_64.rpm | 568 kB 00:00:00
(13/64): giflib-4.1.6-9.amzn2.0.2.x86_64.rpm | 40 kB 00:00:00
(14/64): graphite2-1.3.10-1.amzn2.0.2.x86_64.rpm | 115 kB 00:00:00
(15/64): gtk-update-icon-cache-3.22.38-3.amzn2.x86_64.rpm | 26 kB 00:00:00
(16/64): harfbuzz-1.7.5-2.amzn2.x86_64.rpm | 279 kB 00:00:00
(17/64): hicolor-icon-theme-0.12-7.amzn2.noarch.rpm | 43 kB 00:00:00
(18/64): gtk2-2.24.31-1.amzn2.0.2.x86_64.rpm | 3.4 MB 00:00:00
(19/64): jasper-libs-1.900.1-33.amzn2.x86_64.rpm | 150 kB 00:00:00
(20/64): java-1.8.0-openjdk-1.8.0.312.b07-1.amzn2.0.2.x86_64.rpm | 310 kB 00:00:00
(21/64): javapackages-tools-3.4.1-11.amzn2.noarch.rpm | 73 kB 00:00:00
(22/64): libICE-1.0.9-9.amzn2.0.2.x86_64.rpm | 67 kB 00:00:00
(23/64): libSM-1.2.2-2.amzn2.0.2.x86_64.rpm | 39 kB 00:00:00
```

```
ec2-user@ip-172-31-23-78:~$ sudo yum install mesa-libgl-devel
(51/64): log4j-cve-2021-44228-hotpatch-1.1-16.amzn2.noarch.rpm | 148 kB 00:00:00
(52/64): mesa-libGL-18.3.4-5.amzn2.0.1.x86_64.rpm | 188 kB 00:00:00
(53/64): mesa-libGL-devel-18.3.4-5.amzn2.0.1.x86_64.rpm | 162 kB 00:00:00
(54/64): mesa-libgl-18.3.4-5.amzn2.0.1.x86_64.rpm | 45 kB 00:00:00
(55/64): mesa-libgl-devel-18.3.4-5.amzn2.0.1.x86_64.rpm | 38 kB 00:00:00
(56/64): pcsc-lite-libs-1.8.8-7.amzn2.x86_64.rpm | 35 kB 00:00:00
(57/64): pango-1.42.4-4.amzn2.x86_64.rpm | 280 kB 00:00:00
(58/64): p11-kit-0.24.0-1.amzn2.0.2.x86_64.rpm | 254 kB 00:00:00
(59/64): python-javapackages-3.4.1-11.amzn2.noarch.rpm | 31 kB 00:00:00
(60/64): ttmkfdi-3.0.9-42.amzn2.0.2.x86_64.rpm | 50 kB 00:00:00
(61/64): python-lxml-3.2.1-4.amzn2.0.3.x86_64.rpm | 1.0 MB 00:00:00
(62/64): tzdata-java-2022a-1.amzn2.noarch.rpm | 199 kB 00:00:00
(63/64): xorg-x11-font-utils-7.5-21.amzn2.x86_64.rpm | 183 kB 00:00:00
(64/64): xorg-x11-fonts-Type1-7.5-9.amzn2.noarch.rpm | 521 kB 00:00:00
-----
Total: 42 MB/s | 47 MB 00:00:01
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : mesa-libgl-devel-18.3.4-5.amzn2.0.1.x86_64
Installing : libICE-1.0.9-9.amzn2.0.2.x86_64
Installing : libxslt-1.1.28-6.amzn2.x86_64
Installing : fontpackages-filesystem-1.44-8.amzn2.noarch
Installing : libubunt-1.0.1-0.1.git0ba1e9.amzn2.0.1.x86_64
Installing : libxshmfence-1.2-1.amzn2.0.2.x86_64
Installing : libwayland-server-1.17.0-1.amzn2.x86_64
Installing : mesa-libgl-18.3.4-5.amzn2.0.1.x86_64
Installing : dejavu-fonts-common-2.33-6.amzn2.noarch
Installing : dejavu-sans-fonts-2.33-6.amzn2.noarch
Installing : fontconfig-2.13.0-4.3.amzn2.x86_64
Installing : python-lxml-3.2.1-4.amzn2.0.3.x86_64
Installing : python-javapackages-3.4.1-11.amzn2.noarch
Installing : javapackages-tools-3.4.1-11.amzn2.noarch
Installing : libSM-1.2.2-2.amzn2.0.2.x86_64
Installing : log4j-cve-2021-44228-hotpatch-1.1-16.amzn2.noarch
Created symlink from /etc/systemd/system/multi-user.target.wants/log4j-cve-2021-44228-hotpatch.service to /usr/lib/systemd/system/log4j-cve-2021-44228-hotpatch.service.
Installing : tzdata-java-2022a-1.amzn2.noarch
Installing : graphite2-1.3.10-1.amzn2.0.2.x86_64
Installing : harfbuzz-1.7.5-2.amzn2.x86_64
Installing : jasper-libs-1.900.1-33.amzn2.x86_64
```

## Application is started running on AWS



### Instance running

