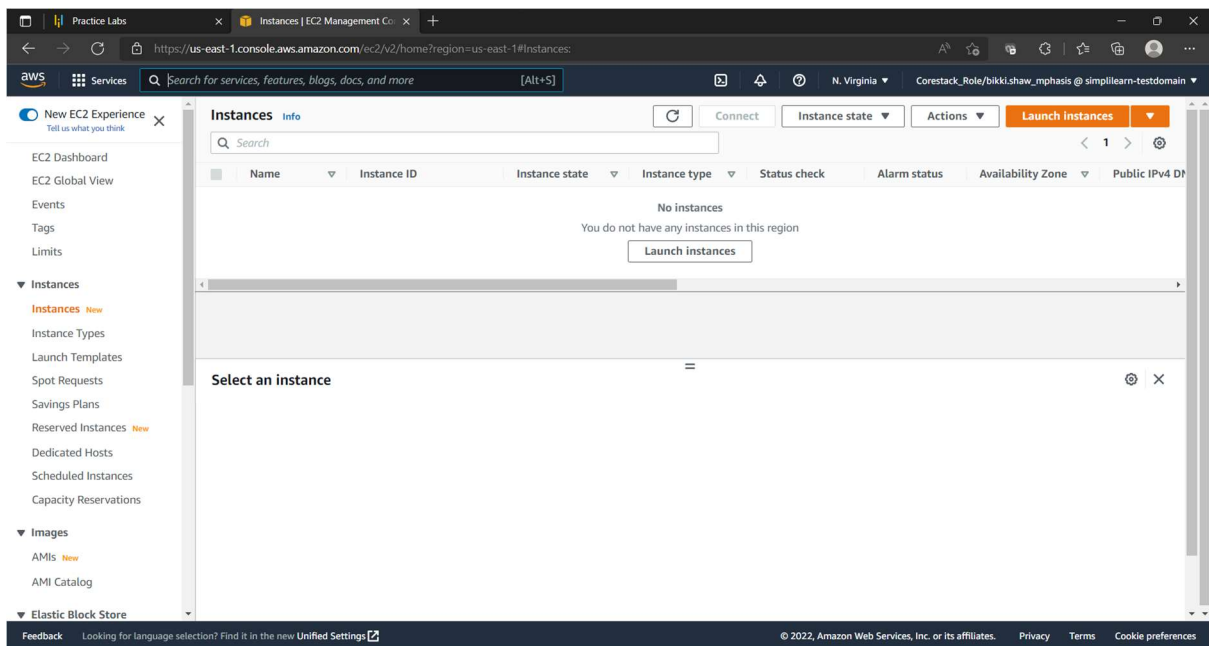


# Deploy Application on Cloud

## Screenshots

### GitHub:

[https://github.com/Bikki084/Java\\_FSD\\_All\\_Projects/tree/master/Phase\\_5/practice\\_projects/practice\\_project\\_3](https://github.com/Bikki084/Java_FSD_All_Projects/tree/master/Phase_5/practice_projects/practice_project_3)



Practice Labs

Launch instance wizard | EC2 M...

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

Services

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N. Virginia

Corestack\_Role/biklshaw\_mphasis@simplearn-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 AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. 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

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-0f9fc25dd2506cf6d (64-bit x86) / ami-06b80fe534e6eb95 (64-bit Arm)

Amazon Linux Free tier eligible

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: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit (x86)

64-bit (Arm)

Select

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

Amazon Linux Free tier eligible

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.

64-bit (x86)

64-bit (Arm)

Select

Feedback

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1. Choose AMI

2. Choose Instance Type

3. Configure Instance

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6. Configure Security Group

7. 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

1

Launch 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 directory

Create new directory

IAM role

None

Create new IAM role

Cancel

Previous

Review and Launch

Next: Add Storage

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Corestack\_Role/bikki.shaw\_mphasis@simplelearn-testdomain

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. 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-0b25d444b0ce9352	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

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Corestack\_Role/bikki.shaw\_mphasis@simplelearn-testdomain

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

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Corestack\_Role/bikki.shaw\_mphasis@simplelearn-testdomain

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. 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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EC2 Management Console

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

aws

Services

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Corestack\_Role/bikki.shaw\_mphasis@simplelearn-testdomain

New EC2 Experience

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

Connect

Instance state

Actions

Launch instances

1

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

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ec2-user@ip-172-31-23-78~

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

/home/ec2-user/

Name

ssh

bash\_logout

bash\_profile

bashrc

StringSecurity-0.0.1-SNAPSHOT.jar

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		
(2/64): alsa-lib-1.1.4-1.2.amzn2.x86_64.rpm	250 kB	00:00:00
(3/64): avahi-libs-0.6.31-20.amzn2.x86_64.rpm	425 kB	00:00:00
(4/64): copy-jdk-configs-3.3-10.amzn2.noarch.rpm	61 kB	00:00:00
(5/64): catro-1.15.12-4.amzn2.x86_64.rpm	21 kB	00:00:00
(6/64): dejavu-fonts-common-2.33-6.amzn2.noarch.rpm	732 kB	00:00:00
(7/64): cups-libs-1.6.3-51.amzn2.x86_64.rpm	64 kB	00:00:00
(8/64): fontconfig-2.13.0-4.3.amzn2.x86_64.rpm	356 kB	00:00:00
(9/64): fontpackages-filesystem-1.44-8.amzn2.noarch.rpm	253 kB	00:00:00
(10/64): frribidi-1.0.2-1.amzn2.1.x86_64.rpm	1.4 MB	00:00:00
(11/64): gdk-pixbuf2-2.36.12-3.amzn2.x86_64.rpm	10 kB	00:00:00
(12/64): giflib-4.1.6-9.amzn2.0.2.x86_64.rpm	79 kB	00:00:00
(13/64): graphite2-1.3.10-1.amzn2.0.2.x86_64.rpm	568 kB	00:00:00
(14/64): glib-2.56.1-1.amzn2.0.2.x86_64.rpm	40 kB	00:00:00
(15/64): glib-2.56.1-1.amzn2.0.2.x86_64.rpm	115 kB	00:00:00
(16/64): glib-2.56.1-1.amzn2.0.2.x86_64.rpm	26 kB	00:00:00
(17/64): harfbuzz-1.7.5-2.amzn2.x86_64.rpm	279 kB	00:00:00
(18/64): hicolor-icon-theme-0.12-7.amzn2.noarch.rpm	43 kB	00:00:00
(19/64): gtk2-2.24.31-1.amzn2.0.2.x86_64.rpm	3.4 MB	00:00:00
(20/64): jasper-libs-1.900.1-33.amzn2.x86_64.rpm	150 kB	00:00:00
(21/64): java-1.8.0-openjdk-1.8.0.312.b07-1.amzn2.0.2.x86_64.rpm	318 kB	00:00:00
(22/64): jvarkit-3.4.1-11.amzn2.noarch.rpm	73 kB	00:00:00
(23/64): libICE-1.0.9-9.amzn2.0.2.x86_64.rpm	67 kB	00:00:00
(24/64): libSM-1.2.2-2.amzn2.0.2.x86_64.rpm	39 kB	00:00:00

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ec2-user@ip-172-31-23-78~

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

/home/ec2-user/

Name

ssh

bash\_logout

bash\_profile

bashrc

StringSecurity-0.0.1-SNAPSHOT.jar

(51/64): log4j-cve-2021-44228-hotpatch-1.1-16.amzn2.noarch.rpm	148 kB	00:00:00
(52/64): mesa-libEGL-18.3.4-5.amzn2.0.1.x86_64.rpm	188 kB	00:00:00
(53/64): mesa-libGL-18.3.4-5.amzn2.0.1.x86_64.rpm	162 kB	00:00:00
(54/64): mesa-libglapi-18.3.4-5.amzn2.0.1.x86_64.rpm	45 kB	00:00:00
(55/64): mesa-libgbm-18.3.4-5.amzn2.0.1.x86_64.rpm	38 kB	00:00:00
(56/64): pango-1.42.4-4.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): pixman-0.34.0-1.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): ttmkfdtr-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	190 kB	00:00:00
(63/64): xorg-x11-font-utils-7.5-21.amzn2.x86_64.rpm	103 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-libglapi-18.3.4-5.amzn2.0.1.x86\_64 1/64

Installing : libICE-1.0.9-9.amzn2.0.2.x86\_64 2/64

Installing : libxslt-1.1.28-6.amzn2.x86\_64 3/64

Installing : fontpackages-filesystem-1.44-8.amzn2.noarch 4/64

Installing : libglvnd-1.0.1-0.1.glt5baa1e5.amzn2.0.1.x86\_64 5/64

Installing : libxshmfence-1.2-1.amzn2.0.2.x86\_64 6/64

Installing : libwayland-server-1.17.0-1.amzn2.x86\_64 7/64

Installing : mesa-libgbm-18.3.4-5.amzn2.0.1.x86\_64 8/64

Installing : dejavu-fonts-common-2.33-6.amzn2.noarch 9/64

Installing : dejavu-sans-fonts-2.33-6.amzn2.noarch 10/64

Installing : fontconfig-2.13.0-4.3.amzn2.x86\_64 11/64

Installing : python-lxml-3.2.1-4.amzn2.0.3.x86\_64 12/64

Installing : python-javapackages-3.4.1-11.amzn2.noarch 13/64

Installing : javapackages-tools-3.4.1-11.amzn2.noarch 14/64

Installing : libSM-1.2.2-2.amzn2.0.2.x86\_64 15/64

Installing : log4j-cve-2021-44228-hotpatch-1.1-16.amzn2.noarch 16/64

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 17/64

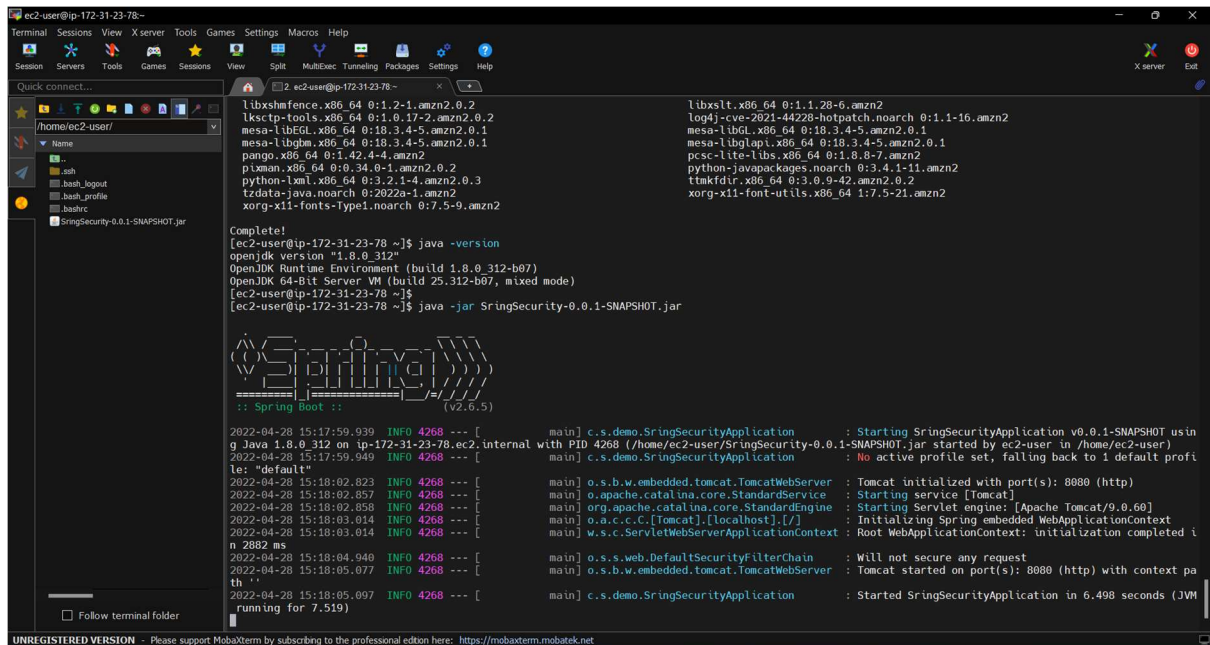
Installing : graphite2-1.3.10-1.amzn2.0.2.x86\_64 18/64

Installing : harfbuzz-1.7.5-2.amzn2.x86\_64 19/64

Installing : jasper-libs-1.900.1-33.amzn2.x86\_64 20/64

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## Application is started running on AWS



### Instance running

