

OUTPUT

Chukkaluru Pavithra Assessment x +
127.0.0.1:5500/my-spring-boot-web/src/main/resources/public/index.html
Eclipse downloads ... mphasis-fsd-Dec27... Sonal0409/Pahse5... Reading list

CHUKKALURU PAVITHRA'S

SPRING-BOOT Web App



As requested by management, this is my final product stage, demonstrating the automated, integrated, and deployed spring-boot web application.

This is an environment where the application is hosted and accessed by users. The following were used in its development:

Activate Windows
Go to Settings to activate Windows.

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PAVITHRA'S

SPRING-BOOT Web App



As requested by management, this is my final product stage, demonstrating the automated, integrated, and deployed spring-boot web application.

This is an environment where the application is hosted and accessed by users. The following were used in its development:

- Eclipse
- GitHub
- Jenkins
- AWS EC2/ Virtual machine

Feel free to contact Chukkaluru Pavithra with any new requests or upgrades to this product!

Activate Windows
Go to Settings to activate Windows.

Markers Properties Servers Data Source Explorer Snippets Console Call Hierarchy Terminal History

```
[INFO] my-spring-boot-web [Maven Build] C:\Program Files\AdoptOpenJDK\jdk-11.0.10-hotspot\bin\javaw.exe (Sep 26, 2021, 1:45:19 PM)
[INFO] -----< com.simplilearn.workshop:my-spring-boot-web >-----
[INFO] Building my-spring-boot-web 1.0
[INFO] -----[ jar ]-----
[INFO]
[INFO] >>> spring-boot-maven-plugin:2.5.5:run (default-cli) > test-compile @ my-spring-boot-web >>>
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ my-spring-boot-web ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 4 resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ my-spring-boot-web ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @ my-spring-boot-web ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:/Users/kevin/Desktop/CALTECH__COURSE\PHASE_5\CLASS_ASSESSMENT\SOFTWARE\my-spring-boot-web\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ my-spring-boot-web ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] <<< spring-boot-maven-plugin:2.5.5:run (default-cli) < test-compile @ my-spring-boot-web <<<
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.5:run (default-cli) @ my-spring-boot-web ---
[INFO] Attaching agents: []

```
 \\\ /--.
 ((\
 \
 \
 :: Spring Boot ::
 (v2.5.5)
```

```

2021-09-26 13:45:21.999 INFO 12132 --- [main] com.simplilearn.workshop.MyApplication : Starting MyApplication using Java 11.0.10 on DESKTOP-GRFP1TP with PID 12132 (C:/Users/kevin/Desktop/CALTECH__COURSE\PHASE_5\CLASS_ASSESSMENT\SOFTWARE\my-spring-boot-web\src\main\java\com\simplilearn\workshop\MyApplication.java)
 2021-09-26 13:45:22.001 INFO 12132 --- [main] com.simplilearn.workshop.MyApplication : No active profile set, falling back to default profiles: default
 2021-09-26 13:45:22.330 INFO 12132 --- [main] org.eclipse.jetty.util.log : Logging initialized @750ms to org.eclipse.jetty.util.log.Slf4jLog
 2021-09-26 13:45:22.446 INFO 12132 --- [main] org.eclipse.jetty.server.ServerFactory : Server initialized with port: 8080
 2021-09-26 13:45:22.447 INFO 12132 --- [main] org.eclipse.jetty.servlet.WebServerFactory : jetty-9.4.43.v20210629; built: 2021-06-30T11:07:22.254Z; git: 526006ecfa3af7f1a27ef3a288e2bef7ea9dd7e8; jvm: 11.0.10+9-Ubuntu-0ubuntu1
 2021-09-26 13:45:22.460 INFO 12132 --- [main] o.s.b.w.e.j.JettyServletWebServerFactory : Initializing Spring embedded WebApplicationContext
 2021-09-26 13:45:22.460 INFO 12132 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 438 ms
 2021-09-26 13:45:22.495 INFO 12132 --- [main] org.eclipse.jetty.server.Session : DefaultSessionIdManager workerName=node0
 2021-09-26 13:45:22.495 INFO 12132 --- [main] org.eclipse.jetty.server.Session : No SessionScavenger set, using defaults
 2021-09-26 13:45:22.496 INFO 12132 --- [main] org.eclipse.jetty.server.Session : node0 Scavenging every 600000ms
 2021-09-26 13:45:22.500 INFO 12132 --- [main] o.e.j.s.h.ContextHandler : Started @920ms
 2021-09-26 13:45:22.500 INFO 12132 --- [main] o.e.j.s.h.ContextHandler : Adding welcome page: class path resource [public/index.html]
 2021-09-26 13:45:22.623 INFO 12132 --- [main] o.e.j.s.h.ContextHandler : Initializing Spring DispatcherServlet 'dispatcherServlet'
 2021-09-26 13:45:22.623 INFO 12132 --- [main] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
 2021-09-26 13:45:22.624 INFO 12132 --- [main] o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms
 2021-09-26 13:45:22.639 INFO 12132 --- [main] o.e.j.s.AbstractConnector : Started ServerConnector@70e02081{HTTP/1.1, (http/1.1)}{0.0.0.0:8080}
 2021-09-26 13:45:22.639 INFO 12132 --- [main] o.s.b.web.embedded.jetty.JettyWebServer : Jetty started on port(s) 8080 (http/1.1) with context path '/'
 2021-09-26 13:45:22.645 INFO 12132 --- [main] com.simplilearn.workshop.MyApplication : Started MyApplication in 0.849 seconds (JVM running for 1.064)

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review Corestack_Role/mailalakev_gmail @ 7799-2173-1516 N. Virginia Support

Step 7: Review Instance Launch

Root Device type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPU
t2.micro	-	1

Security Groups

Security group name	Description
launch-wizard-1	launch-wizard-1

Type: SSH Protocol: TCP

Type: HTTP Protocol: TCP

Type: HTTP Protocol: TCP

Instance Details

Storage

Volume Type	Device	Snap
Root	/dev/xvda	sna069

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Create a new key pair Key pair type: RSA ED25519 Key pair name: phase5_aws_project Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location**. You will not be able to download the file again after it's created.

Cancel Launch Instances

Network Performance: Low to Moderate Edit security groups

Description: Edit instance details Edit storage

on action: Encrypted: Not Encrypted

Cancel Previous Launch

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Screenshot of the AWS Launch Instance Wizard Step 7: Review Instance Launch. A file explorer window is overlaid on the wizard, showing a folder structure with a file named "phase5_aws_project.pem". A red arrow points from the "Select an existing key pair" dropdown in the wizard to this file.

Select an existing key pair

A key pair consists of a public key that allows you to connect to your instance and obtain the password used to log into it securely SSH into your instance. Amazon provides a new key pair for each instance.

Note: The selected key pair will be automatically removed after removing existing key pairs from the instance.

Create a new key pair

Key pair type RSA

Key pair name phase5_aws_project

You have to download the key pair in a secure and accessible location after it's created.

Screenshot of the AWS Launch Instance Wizard Step 1: Choose an Amazon Machine Image (AMI). The search bar shows "Amazon Linux".

Quick Start

- My AMIs
- Amazon Linux Free tier eligible
- Community AMIs
- Free tier only

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-087c17d1fe0178315 (64-bit x86) / ami-029c64b3c205e6cce (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 approaching end of life on December 31, 2020 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-0355f1ed5537c0368

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-0ae0b6d49088fc747

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-07279d867534aacb6

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.

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

Select

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
<input checked="" type="checkbox"/>	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

Cancel Previous Review and Launch Next: Configure Instance Details

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-0df264bc3671f6ec2 (default) Create new VPC

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

Auto-assign Public IP: Use subnet setting (Enable)

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

Shutdown behavior: Stop

Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring Additional charges apply.

Tenancy: Shared - Run a shared hardware instance

Cancel Previous Review and Launch Next: Add Storage

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

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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-0699a041095ac5492	8	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.

Cancel Previous **Review and Launch** Next: Add Tags

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

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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	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces
<i>This resource currently has no tags</i>						

Choose the Add tag button or click to add a Name tag. Make sure your IAM policy includes permissions to create tags.

Add Tag (Up to 50 tags maximum)

Cancel Previous **Review and Launch** Next: Configure Security Group

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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:	launch-wizard-1
Description:	launch-wizard-1 created 2021-09-26T14:37:03.423-05:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom ::/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.

Step 7: Review Instance Launch

Root Device type: ebs Virtualization type: nvm

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 2021-09-26T14:37:03.423-05:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	::/0	

Instance Details Edit instance details

Storage Edit storage

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-0699a041095ac5492	8	gp2	100 / 3000	N/A	Yes	Not Encrypted

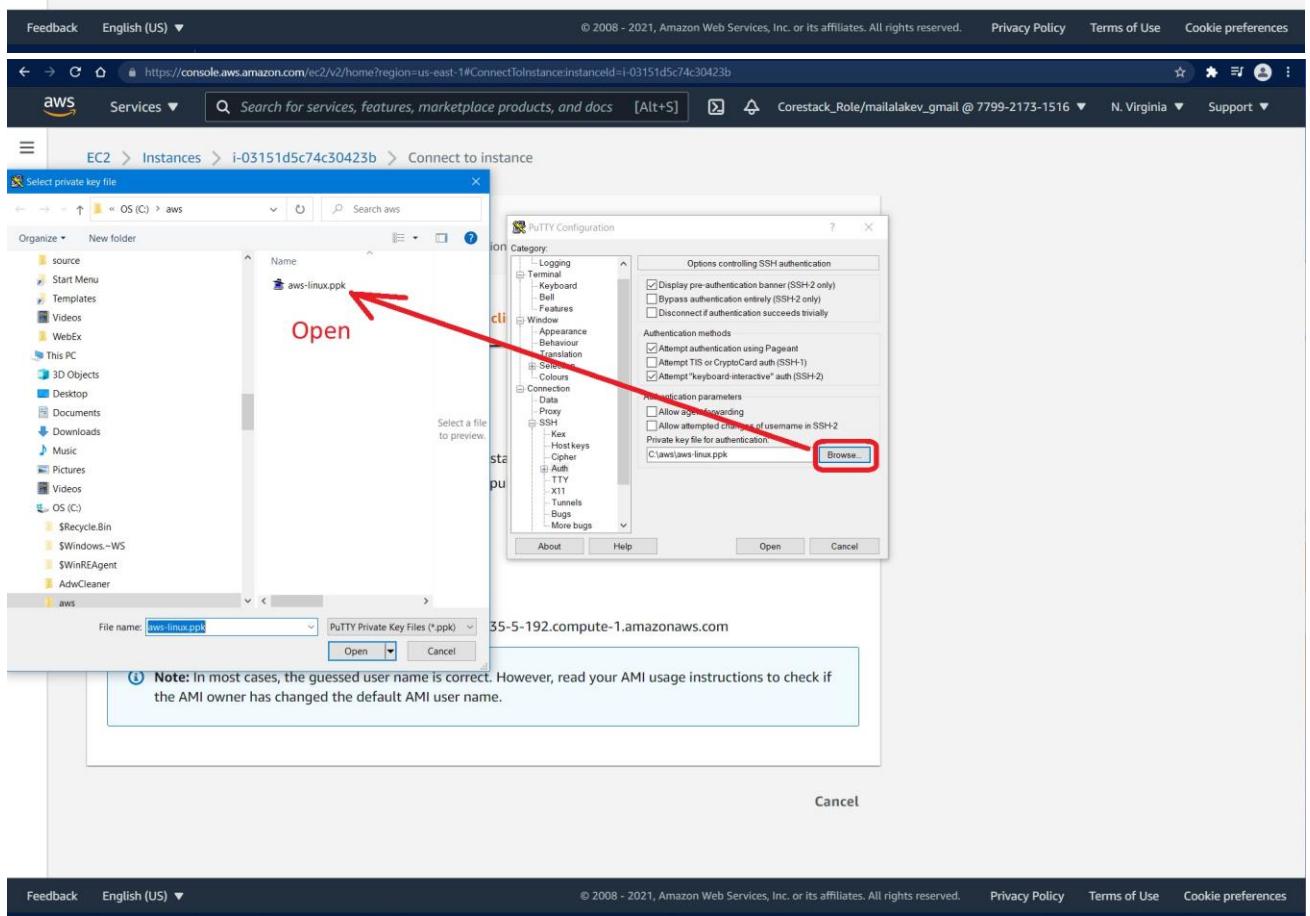
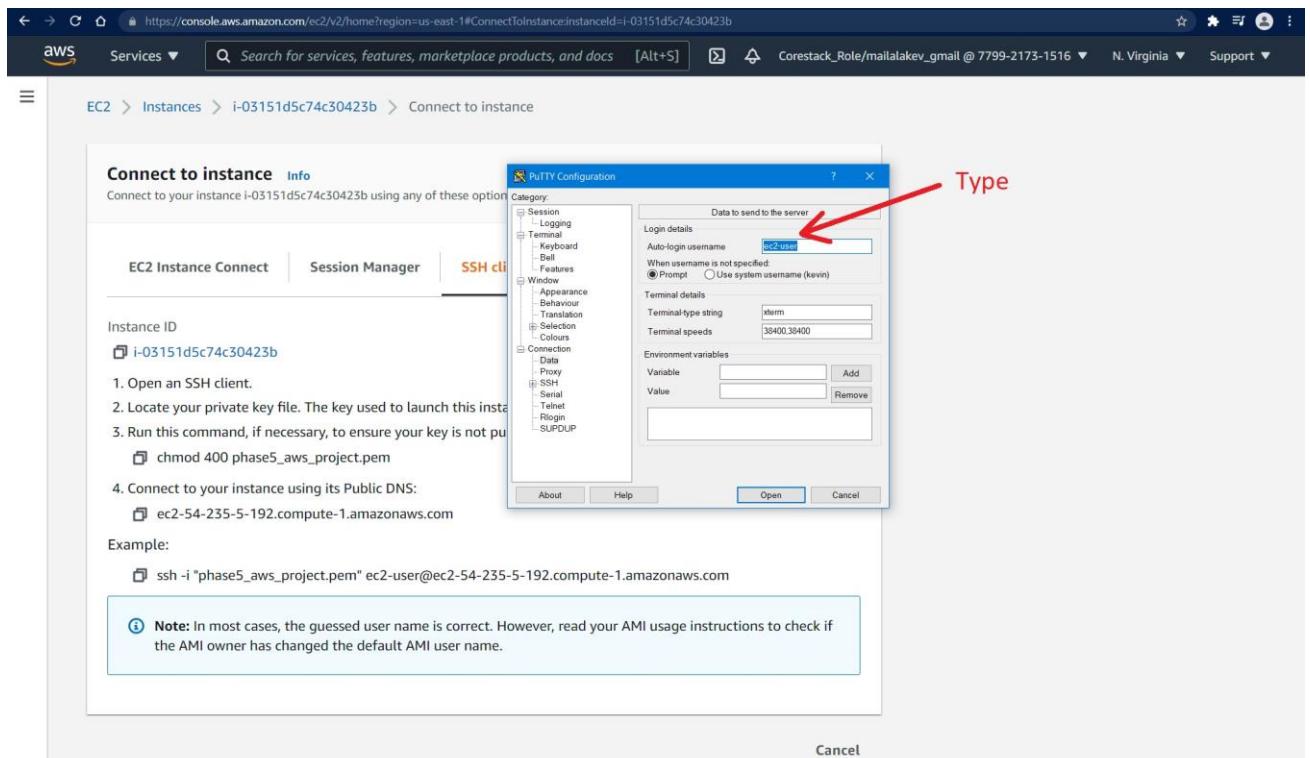
Tags Edit tags

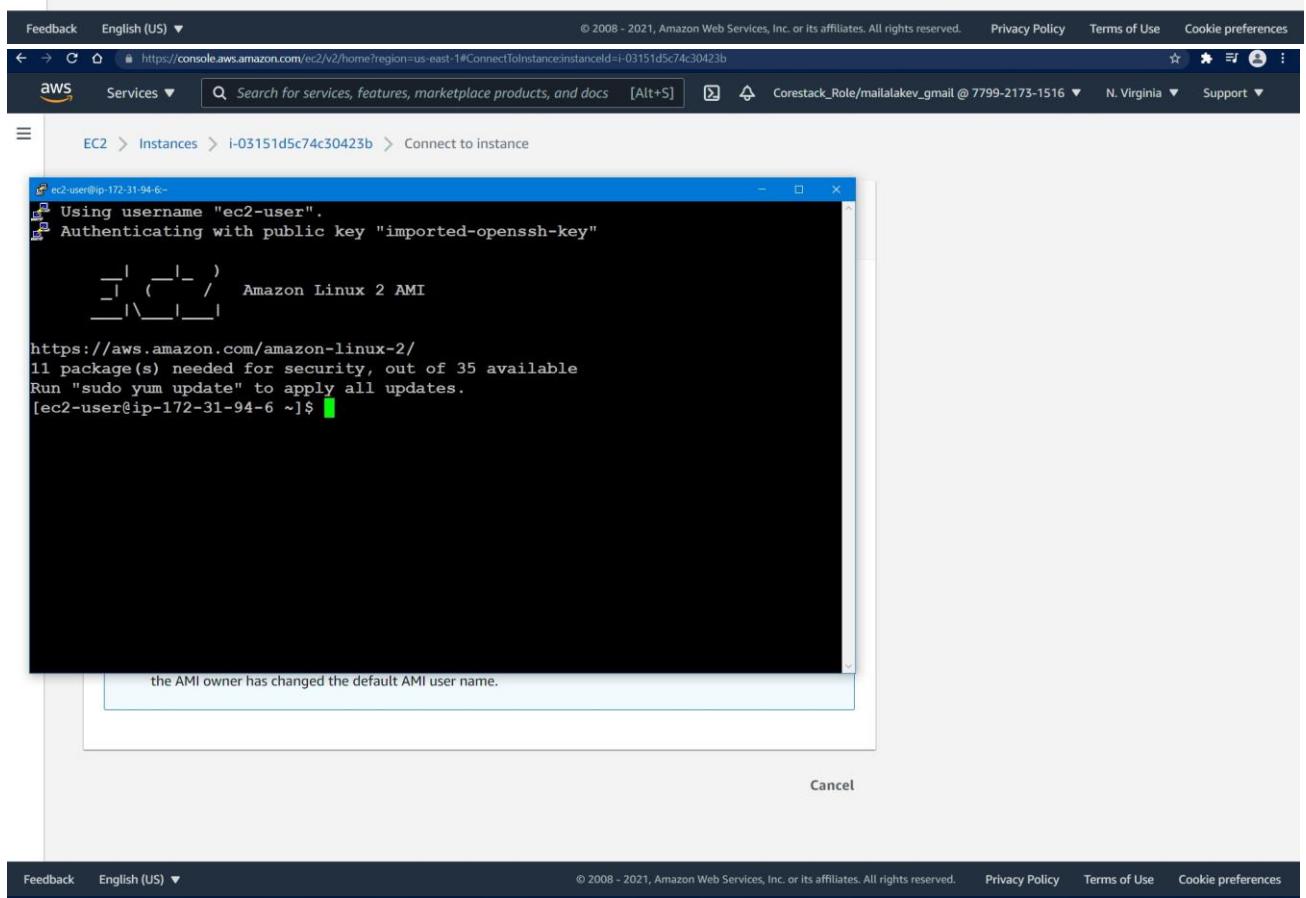
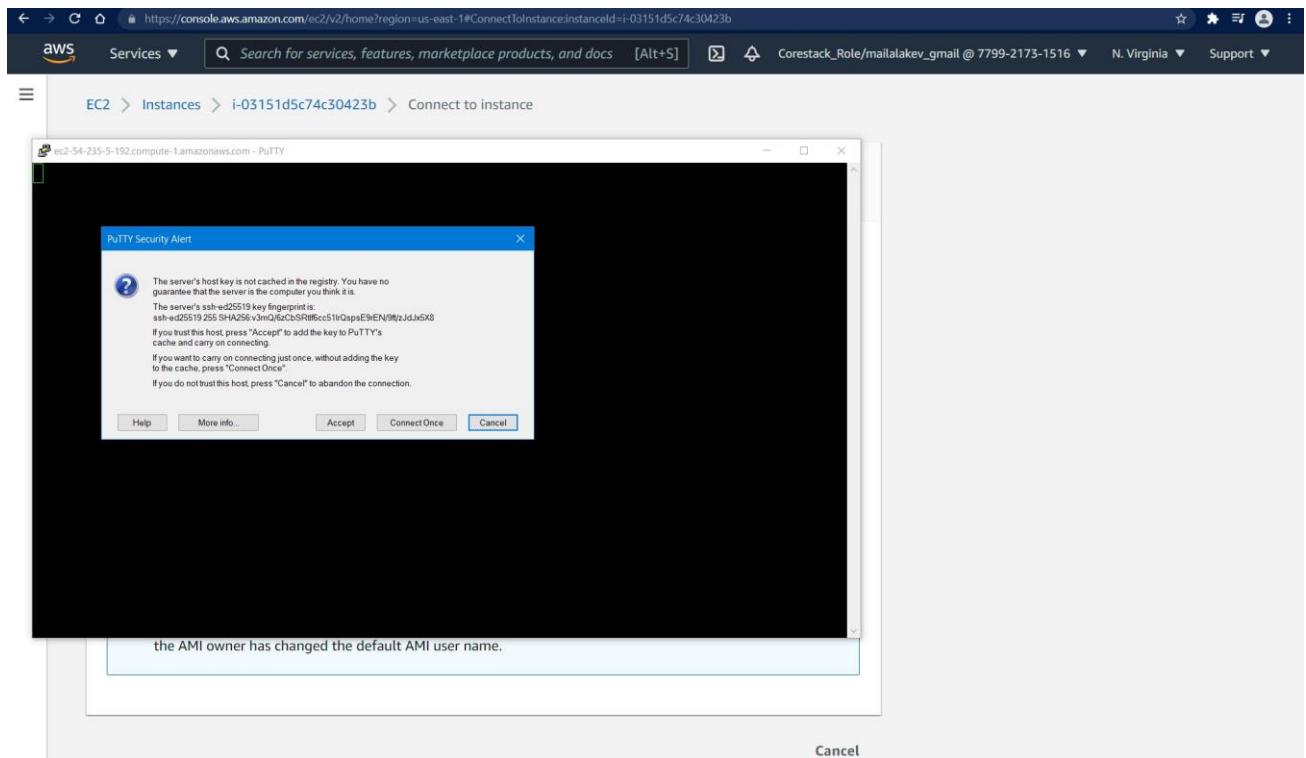
Launch

Screenshot of the AWS EC2 Connect to instance page. The SSH client tab is selected. A note at the bottom says: "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." A red arrow points from the "Paste" button in the Putty configuration window to this note.

Screenshot of the AWS EC2 Connect to instance page. The SSH client tab is selected. A note at the bottom says: "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." A red arrow points from the "Paste" button in the Putty configuration window to this note.

Screenshot of the AWS EC2 Connect to instance page. The SSH client tab is selected. A note at the bottom says: "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."





Screenshot of the AWS EC2 Launch Instance Wizard showing the initial loading screen where the instance is being launched.

Launch Status



Initiating Instance Launches

Please do not close your browser while this is loading

Creating security groups... Successful

Authorizing inbound rules... Successful

Initiating launches...

Screenshot of the AWS EC2 Launch Instance Wizard showing the status of the instance launch.

Launch Status

Your instances are now launching

The following instance launches have been initiated: i-03151d5c74c30423b [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
- Amazon EC2: User Guide
- Learn about AWS Free Usage Tier
- 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](#)

Screenshot of the AWS EC2 Launch Instance Wizard showing the final status page with a "View Instances" button.

Screenshot of the AWS EC2 Instances page showing a single running instance.

Instances (1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
-	i-03151d5c74c30423b	Running	t2.micro	Initializing	No alarms	us-east-1d	ec2-54-235-5-192.com...	54.235.5.192

Select an instance above

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Screenshot of the AWS EC2 Instance Details page for instance i-03151d5c74c30423b.

Instance summary for i-03151d5c74c30423b

Instance ID	Public IPv4 address	Private IPv4 addresses
i-03151d5c74c30423b	54.235.5.192 open address	172.31.94.6
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-54-235-5-192.compute-1.amazonaws.com open address
Private IPv4 DNS	Instance type	Elastic IP addresses
ip-172-31-94-6.ec2.internal	t2.micro	-
VPC ID	AWS Compute Optimizer finding	IAM Role
vpc-0df264bc3671f6ec2	User: arnawssts::779921751516:assumed-role/Corestack_Role/mailalakev_gmail is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * with an explicit deny	-
Subnet ID	Retry	
subnet-09c3d19313c035a75		

Details Security Networking Storage Status checks Monitoring Tags

Instance details

Platform	AMI ID	Monitoring
Amazon Linux (Inferred)	ami-087c17d1fe0178315	disabled

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The screenshot shows two consecutive screenshots of the AWS EC2 Instances page for an instance named i-03151d5c74c30423b.

Screenshot 1: The Public IPv4 address (54.235.5.192) is highlighted with a red box and an orange arrow pointing to it. The Networking tab is selected.

Public IPv4 address	54.235.5.192 open address
---------------------	-----------------------------

Screenshot 2: A PUTTY Key Generator dialog box is overlaid on the screen. It shows the following settings:

- File: Key Conversions Help
- Key: No key
- Actions:
 - Generate a public/private key pair
 - Load an existing private key file
 - Save the generated key
 - Save public key
 - Save private key
- Parameters:
 - Type of key to generate:
 RSA
 DSA
 ECCDSA
 EdDSA
 - Number of bits in a generated key: 2048

The screenshot shows two instances of the AWS EC2 Instances page for an instance named "i-03151d5c74c30423b".

Top Instance:

- Networking Tab:** Shows a "PutTY Key Generator" dialog box. The "Key" section displays a long string of characters. The "Actions" section has "Save private key" highlighted.
- File Explorer:** A file browser window shows two files: "aws-linux.ppk" and "phatc_swi_project.pem". A red arrow points from the "Save private key" button in the dialog to the "aws-linux.ppk" file in the file explorer.

Bottom Instance:

- Networking Tab:** Shows a "PutTY Key Generator" dialog box. The "Actions" section has "Save private key" highlighted.
- File Explorer:** A file browser window shows two files: "aws-linux.ppk" and "phatc_swi_project.pem". A red arrow points from the "Save private key" button in the dialog to the "aws-linux.ppk" file in the file explorer.

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#ConnectToInstance:instanceId=i-03151d5c74c30423b

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EC2 > Instances > i-03151d5c74c30423b > Connect to instance

root@ip-172-31-94-6:~

```
Using username "ec2-user".
Authenticating with public key "imported-openssh-key"

[ec2-user@ip-172-31-94-6 ~]$ whoami
ec2-user
[ec2-user@ip-172-31-94-6 ~]$ sudo -i
[root@ip-172-31-94-6 ~]# java -version
-bash: java: command not found
[root@ip-172-31-94-6 ~]#
```

the AMI owner has changed the default AMI user name.

Cancel

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ec2-user@ip-172-31-94-6:~

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sun Sep 26 21:04:55 2021 from 104-14-74-96.lightspeed.jcsnms.sbcglobal.net

[ec2-user@ip-172-31-94-6 ~]$ ^C
[ec2-user@ip-172-31-94-6 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB     00:00
Resolving Dependencies
--> Running transaction check
--> Package curl.x86_64 0:7.76.1-4.amzn2.0.1 will be updated
--> Package curl.x86_64 0:7.76.1-7.amzn2.0.2 will be an update
--> Package device-mapper.x86_64 7:1.02.146-4.amzn2.0.2 will be updated
--> Package device-mapper.x86_64 7:1.02.170-6.amzn2.5 will be an update
--> Package device-mapper-event.x86_64 7:1.02.146-4.amzn2.0.2 will be updated
--> Package device-mapper-event.x86_64 7:1.02.170-6.amzn2.5 will be an update
```

```
[root@ip-172-31-94-6 ~]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
You need to be root to perform this command.
[ec2-user@ip-172-31-94-6 ~]$ sudo su
-bash: sudo: command not found
[ec2-user@ip-172-31-94-6 ~]$ sudo su
[root@ip-172-31-94-6 ~]# service httpd start
Redirecting to /bin/systemctl start httpd.service
Failed to start httpd.service: Unit not found.
[root@ip-172-31-94-6 ~]# yum install httpd -y
bash: yum: command not found
[root@ip-172-31-94-6 ~]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.48-2.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.48-2.amzn2 for package: httpd-2.4.48-2.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.48-2.amzn2 for package: httpd-2.4.48-2.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.48-2.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.48-2.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.48-2.amzn2.x86_64
```

```
[ec2-user@ip-172-31-94-6 ~]
[ec2-user@ip-172-31-94-6 ~]$ login as: ec2-user
[ec2-user@ip-172-31-94-6 ~]$ Authenticating with public key "imported-openssh-key"
Last login: Sun Sep 26 22:14:09 2021 from 104-14-74-96.lightspeed.jcsnms.sbcglob.al.net
[ec2-user@ip-172-31-94-6 ~]$ 
[ec2-user@ip-172-31-94-6 ~]$ Amazon Linux 2 AMI
[ec2-user@ip-172-31-94-6 ~]$ https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-94-6 ~]$ [ec2-user@ip-172-31-94-6 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
No Match for argument: -y
No packages marked for update
[ec2-user@ip-172-31-94-6 ~]$ sudo wget -O /etc/yum.repos.d/jenkins.repo \
> https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2021-09-26 22:31:30-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.250.133, 2a04:4e42:60::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.250.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

100%[=====] 85
2021-09-26 22:31:30 (6.08 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]
[ec2-user@ip-172-31-94-6 ~]$ 
```

INSTALL (JENKINS) into our EC2 Instance

```
ec2-user@ip-172-31-94-6:~  
Authenticating with public key "imported-openssh-key"  
Last login: Sun Sep 26 22:14:09 2021 from 104-14-74-96.lightspeed.jcsnms.sbcglob  
al.net  
  
      _\ | / _ / ) Amazon Linux 2 AMI  
     _\ \_\ | __ |  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-94-6 ~]$  
[ec2-user@ip-172-31-94-6 ~]$ sudo yum update -y  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core  
No Match for argument: -y  
No packages marked for update  
[ec2-user@ip-172-31-94-6 ~]$ sudo wget -O /etc/yum.repos.d/jenkins.repo \  
> https://pkg.jenkins.io/redhat-stable/jenkins.repo  
--2021-09-26 22:31:30-- https://pkg.jenkins.io/redhat-stable/jenkins.repo  
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.250.133, 2a04:4e42:60::645  
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.250.133|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 85  
Saving to: '/etc/yum.repos.d/jenkins.repo'  
  
100%[=====]  
  
2021-09-26 22:31:30 (6.08 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]  
  
[ec2-user@ip-172-31-94-6 ~]$ sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key  
[ec2-user@ip-172-31-94-6 ~]$ sudo yum upgrade  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
jenkins  
jenkins/primary_db  
No packages marked for update  
[ec2-user@ip-172-31-94-6 ~]$
```

Jenkins now installed on EC2 Instance

```
ec2-user@ip-172-31-94-6:~  
amzn2-core  
No Match for argument: -y  
No packages marked for update  
[ec2-user@ip-172-31-94-6 ~]$ sudo wget -O /etc/yum.repos.d/jenkins.repo \  
> https://pkg.jenkins.io/redhat-stable/jenkins.repo  
--2021-09-26 22:31:30-- https://pkg.jenkins.io/redhat-stable/jenkins.repo  
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.250.133, 2a04:4e42:60::645  
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.250.133|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 85  
Saving to: '/etc/yum.repos.d/jenkins.repo'  
  
100%[=====]  
  
2021-09-26 22:31:30 (6.08 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]  
  
[ec2-user@ip-172-31-94-6 ~]$ sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key  
[ec2-user@ip-172-31-94-6 ~]$ sudo yum upgrade  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
jenkins  
jenkins/primary_db  
No packages marked for update  
[ec2-user@ip-172-31-94-6 ~]$ sudo yum install jenkins java-1.8.0-openjdk-devel -y  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Package 1:java-1.8.0-openjdk-devel-1.8.0.302.b08-0.amzn2.0.1.x86_64 already installed and latest version  
Resolving Dependencies  
--> Running transaction check  
--> Package jenkins.noarch 0:2.303.1-1.1 will be installed  
--> Processing Dependency: daemonize for package: jenkins-2.303.1-1.1.noarch  
--> Finished Dependency Resolution  
Error: Package: jenkins-2.303.1-1.1.noarch (jenkins)  
    Requires: daemonize  
    You could try using --skip-broken to work around the problem  
    You could try running: rpm -Va --nofiles --nodigest  
[ec2-user@ip-172-31-94-6 ~]$
```

installed Java 1.8 on Jenkins, EC2 session

```

ec2-user@ip-172-31-94-6:~$ sudo yum install jenkins
[ec2-user@ip-172-31-94-6 ~]$ ls -l /var/lib/jenkins/
total 0
[ec2-user@ip-172-31-94-6 ~]$ curl -L https://pkg.jenkins.io/redhat-stable/jenkins-2.303.1-1.1.noarch.rpm > jenkins.rpm
[ec2-user@ip-172-31-94-6 ~]$ rpm -ivh jenkins.rpm
[ec2-user@ip-172-31-94-6 ~]$ systemctl start jenkins
[ec2-user@ip-172-31-94-6 ~]$ systemctl status jenkins
● jenkins.service - LSB: Jenkins Automation Server
  Loaded: loaded (/etc/rc.d/init.d/jenkins; bad; vendor preset: disabled)
  Active: active (running) since Sun Sep 26 22:39:58 UTC; 9s ago
    Docs: man:systemd-sysv-generator(8)
  Process: 5746 ExecStart=/etc/rc.d/init.d/jenkins start (code=exited, status=0/SUCCESS)
  CGroup: /system.slice/jenkins.service
          └─5750 /usr/lib/jvm/java-1.8.0/bin/java -Djava.awt.headless=true -DJENKINS_HOME=/var/lib/jenkins -jar ...

Sep 26 22:39:58 ip-172-31-94-6.ec2.internal systemd[1]: Starting LSB: Jenkins Automation Server...
Sep 26 22:39:58 ip-172-31-94-6.ec2.internal jenkins[5746]: Starting Jenkins [ OK ]
Sep 26 22:39:58 ip-172-31-94-6.ec2.internal systemd[1]: Started LSB: Jenkins Automation Server.
[ec2-user@ip-172-31-94-6 ~]$ 

```

Jenkins Now Running on EC2 - as a service

The screenshot shows the AWS S3 console. On the left, there's a sidebar with navigation links like 'Amazon S3', 'Buckets', 'Storage Lens', 'Feature spotlight', and 'AWS Marketplace for S3'. The main area has a blue header bar with the AWS logo, search bar, and user info. Below the header, there are two informational boxes: one about improving the S3 console and another about AWS Snow Family. The main content area shows the 'Account snapshot' section with a table header for 'Buckets (0)' and a message stating 'No buckets'. A 'Create bucket' button is visible at the bottom.

Amazon S3 > Create bucket

Create bucket Info

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
[Choose bucket](#)

Block Public Access settings for this bucket
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.

Block public access to buckets and objects granted through new public bucket or access point policies
S3 will ignore all public bucket or access point policies that grant public access to buckets and objects.

Create bucket

Buckets are containers that you use to store data in Amazon S3. You can upload any number of objects to a bucket.

When you create a bucket, you enter the bucket name and choose the AWS Region. After you create the bucket, you can't change the name or Region. Bucket ownership is not transferrable.

Configure your bucket properties and permissions. You can copy settings from an existing bucket or configure settings for your bucket.

[Learn more](#)

[Creating a bucket](#)

[Buckets overview](#)

[Restrictions and limitations](#)

Feedback English (US) ▾

Amazon S3 > Create bucket

Create bucket Info

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

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AWS Region

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Configure your bucket properties and permissions. You can copy settings from an existing bucket or configure settings for your bucket.

[Learn more](#)

[Creating a bucket](#)

[Buckets overview](#)

[Restrictions and limitations](#)

Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Successfully created bucket "myphasefivebucket"
To upload files and folders, or to configure additional bucket settings choose View details.

Account snapshot
Storage lens provides visibility into storage usage and activity trends. Learn more

Buckets (1) Info
Buckets are containers for data stored in S3. Learn more

Name	AWS Region	Access	Creation date
myphasefivebucket	US East (N. Virginia) us-east-1	Objects can be public	September 26, 2021, 15:28:05 (UTC-05:00)

Buckets

Buckets are containers for objects stored in Amazon S3. You can store any number of objects in a bucket and can have up to 100 buckets in your account. To request an increase, visit the Service Quotas Console. You can create, configure, empty, and delete buckets. However, you can only delete an empty bucket.

Manage access
Buckets are private and can only be accessed if you explicitly grant permissions. Use bucket policies, IAM policies, access control lists (ACLs), and S3 Access Points to manage access.

Configure your bucket
You can configure your bucket to support your use case. For example, host a static website, use S3 Versioning and replication for disaster recovery, S3 Lifecycle to manage storage costs, and logging to track requests.

Understand storage usage and activity
The S3 Storage Lens account snapshot displays your total storage, object count, and average object size for all buckets in the account. View your S3 Storage Lens dashboard to analyze your usage and activity trends by AWS Region, storage class, bucket, or prefix.

Amazon S3 > myphasefivebucket

myphasefivebucket [Info](#)

Objects [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (0)
Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Create folder](#) [Upload](#) [Upload](#)

Actions

[Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#)

[Find objects by prefix](#)

Objects

Name	Type	Last modified	Size	Storage class
No objects				

You don't have any objects in this bucket.

[Upload](#)

Objects

You can view all the objects in a bucket or folder, including their name, type, last modified, size, storage class, and tags.

Objects are the fundamental entities stored in Amazon S3. You must explicitly grant others permissions to access your objects. Each object has *data*, a *key*, and *metadata*. The object key (or key name) uniquely identifies the object in a bucket.

Amazon S3 maintains a set of system and user metadata for each object and processes the system metadata as needed for storage management.

Amazon S3 has a flat structure instead of a hierarchy like you might see in a file system. However, the console supports the folder concept as a means of grouping objects, using a shared name prefix for objects in the same folder.

Use this page to see all the objects in a bucket or folder. You can open, download, delete, and copy the URL for selected objects. Choose **Actions** to perform object actions like calculate size, copy, restore, edit, and query with S3 Select. Choose **Create folder** to create a folder, and choose **Upload** to upload an object.

← → C 🔍 https://s3.console.aws.amazon.com/s3/upload/myphaselinebucket?region=us-east-1

AWS Services ▾ Search for services, features, marketplace products, and docs [Alt+S] Corestack_Role/mailalakev_gmail @ 7799-2173-1516 ▾ Global ▾ Support ▾

Amazon S3 > myphaselinebucket > Upload

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

Files and folders (1 Total, 16.8 MB)

All files and folders in this table will be uploaded.

	Name	Folder	Type	Size
<input type="checkbox"/>	my-spring-boot-web-aws-exe.jar	-	-	16.8 MB

Destination

Destination
s3://myphaselinebucket

▶ **Destination details**
Bucket settings that impact new objects stored in the specified destination.

▶ **Permissions**
Grant public access and access to other AWS accounts.

▶ **Properties**
Specify storage class, encryption settings, tags, and more.

Cancel **Upload**

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Upload

Upload one or more objects (files and folders) to the destination bucket. Drag and drop files and folders into the box, or choose **Add files** or **Add folders**.
To upload objects larger than 160 GB, use the AWS CLI, SDK, or REST API.

Additional upload options
Configure additional properties for the uploaded objects, including storage class, server-side encryption settings, access control list (ACL) settings, tags, and metadata.

[Learn more](#)

[Uploading objects](#)
[Working with objects](#)
[Objects overview](#)

← → ⌂ https://s3.console.aws.amazon.com/s3/upload/myphasefivebucket?region=us-east-1

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☰ **Upload succeeded**
View details below.

Upload: status

ⓘ The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded	Failed
s3://myphasefivebucket	✔ 1 file, 16.8 MB (100.00%)	✖ 0 files, 0 B (0%)

Files and folders Configuration

Files and folders (1 Total, 16.8 MB)

Name	Folder	Type	Size	Status	Error
my-spring-boot-web-aws-exe.jar	-	-	16.8 MB	✔ Succeeded	-

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← → C 🔍 https://s3.console.aws.amazon.com/s3/buckets/myphaselinebucket/object/edit_public_read_access?region=us-east-1&showversions=false

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Amazon S3 > myphaselinebucket > Make public

Make public Info

The make public action enables public read access in the object access control list (ACL) settings. [Learn more](#).

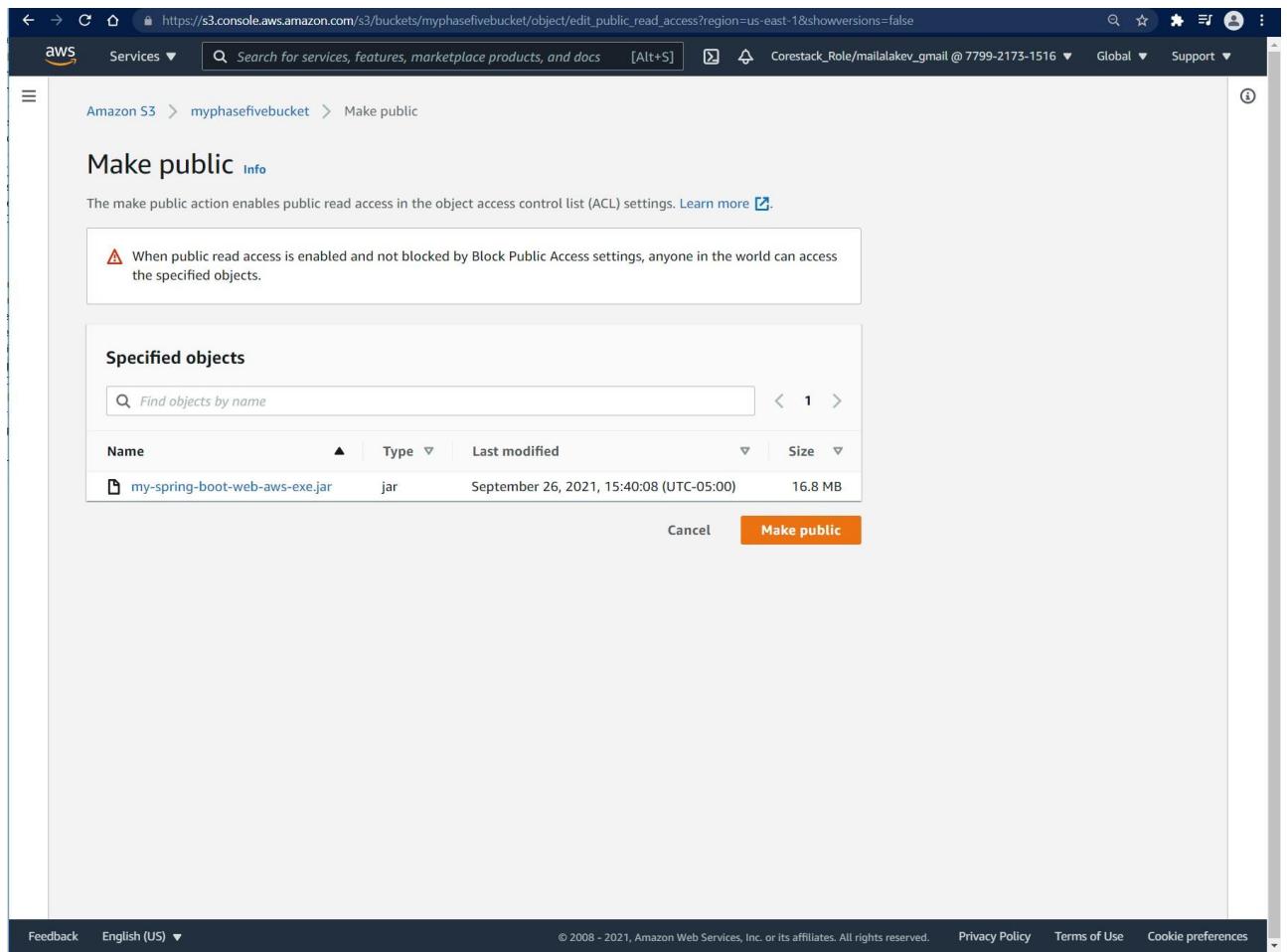
Specified objects

Find objects by name

Name	Type	Last modified	Size
my-spring-boot-web-aws-exe.jar	jar	September 26, 2021, 15:40:08 (UTC-05:00)	16.8 MB

Cancel **Make public**

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The screenshot shows the AWS S3 console interface. The URL in the browser is <https://s3.console.aws.amazon.com/s3/object/myphasefivebucket?region=us-east-1&prefix=my-spring-boot-web-aws-exe.jar&tab=details>. The object name is **my-spring-boot-web-aws-exe.jar**. The **Properties** tab is selected. In the **Object overview** section, the **Object URL** field contains the value <https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar>. This URL is highlighted with a red box and has a red arrow pointing down to a terminal window at the bottom. The terminal window shows the command `[root@ip-172-31-94-6 ~]# wget`, indicating where the URL should be pasted.

https://s3.console.aws.amazon.com/s3/object/myphasefivebucket?region=us-east-1&prefix=my-spring-boot-web-aws-exe.jar&tab=details

Services ▾ Search for services, features, marketplace products, and docs [Alt+S] Corestack_Role/mailalakev_gmail @ 7799-2173-1516 ▾ Global ▾ Support ▾

Amazon S3 > myphasefivebucket > my-spring-boot-web-aws-exe.jar

my-spring-boot-web-aws-exe.jar [Info](#)

Properties Permissions Versions

Object overview

Owner	S3 URI
claaslabs+5f3425062d11de6d6706a89f	s3://myphasefivebucket/my-spring-boot-web-aws-exe.jar
AWS Region	Amazon Resource Name (ARN)
US East (N. Virginia) us-east-1	arn:aws:s3:::myphasefivebucket/my-spring-boot-web-aws-exe.jar
Last modified	Entity tag (Etag)
September 26, 2021, 15:40:08 (UTC-05:00)	cf1df45c09cece875e3ebba910bb8b49-2
Size	Object URL
16.8 MB	https://myphasefivebuckets.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar
Type	
jar	
Key	
my-spring-boot-web-aws-exe.jar	

Object management overview

The following bucket properties and object details are used for this operation.

Bucket properties

Bucket Versioning

When enabled, multiple variants of an object can be stored in the same key.

Feedback English (US) ▾

JAR FILE uploaded to EC2 INSTANCE!

root@ip-172-31-94-6:~#

```
root@ip-172-31-94-6:~# ./my-spring-boot-web-aws-exe.jar
Resolving myphasefivebucket.s3.amazonaws.com (myphasefivebucket.s3.amazonaws.com) ... 52.217.93.196
Connecting to myphasefivebucket.s3.amazonaws.com (myphasefivebucket.s3.amazonaws.com) |52.217.93.196|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17646207 (17M) [application/x-www-form-urlencoded]
Saving to: 'my-spring-boot-web-aws-exe.jar'

100%[=====] 17,646,207 41.7MB/s in 0.4s
2021-09-26 20:45:54 (41.7 MB/s) - 'my-spring-boot-web-aws-exe.jar' saved [17646207]
```

Screenshot of the AWS S3 console showing the details of the file "my-spring-boot-web-aws-exe.jar" in the bucket "myphasefivebucket".

Object overview:

- Owner: claaslabs+5f3425062d11de6d6706a89f
- AWS Region: US East (N. Virginia) us-east-1
- Last modified: September 26, 2021, 15:40:08 (UTC-05:00)
- Size: 16.8 MB
- Type: jar
- Key: my-spring-boot-web-aws-exe.jar
- S3 URI: s3://myphasefivebucket/my-spring-boot-web-aws-exe.jar
- Amazon Resource Name (ARN): am:aws:s3:::myphasefivebucket/my-spring-boot-web-aws-exe.jar
- Entity tag (Etag): cf1df45c09ce875e3ebba910bb8b49-2
- Object URL: https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar

Object management overview:

The following bucket properties and objects are listed.

Bucket properties:

- Bucket Versioning: When enabled, multiple variants of an object can coexist.

Feedback: English (US) ▾

Terminal Output:

```
root@ip-172-31-94-6:~# ... 52.217.93.196
Connecting to myphasefivebucket.s3.amazonaws.com (myphasefivebucket.s3.amazonaws.com) |52.217.93.196|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17646207 (17M) [application/x-www-form-urlencoded]
Saving to: 'my-spring-boot-web-aws-exe.jar'

100%[=====] 17,646,207 41.7MB/s in 0.4s
2021-09-26 20:45:54 (41.7 MB/s) - 'my-spring-boot-web-aws-exe.jar' saved [17646207/17646207]
```

JAR FILE on EC2! (A green arrow points to the terminal output line "my-spring-boot-web-aws-exe.jar")

Screenshot of the AWS Practice Labs interface for the "PG FSD Testing in a DevOps Lifecycle" course.

Current Lab: AWS Certification - Dedicated Account

Access Information:

- Auth Url: <https://signin.aws.amazon.com/federation>
- Session Expires in: 7h 59m 11s
- Refresh Link

Information:

- Category: Cloud Computing
- Start Date: 2021-09-19 19:25
- End Date: 2021-09-27 08:59
- Code: SLAWS

Description:

Amazon Web Services (AWS) offers a suite of cloud computing services that make up an on-demand computing platform. AWS has more than 70 services, spanning a wide range, including compute, storage, networking, database, analytics, application services, deployment, management, mobile, developer tools and tools for the Internet of things.

Actions:

- TERMINATE LAB ACCESS
- Terms & Conditions

Powered by: CORESTACK

AWS Management Console

AWS services

- Recently visited services
- All services

Build a solution

Get started with simple wizards and automated workflows.

Launch a virtual machine	Build a web app	Build using virtual servers
With EC2 2-3 minutes	With Elastic Beanstalk 6 minutes	With Lightsail 1-2 minutes
Register a domain	Connect an IoT device	Start migrating to AWS
With Route 53 3 minutes	With AWS IoT 5 minutes	With AWS MGN 1-2 minutes
▶ See more		

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AWS Certification

Get a complete overview of all things AWS Certification in this free e-book. [Learn more](#)

Have feedback?

PSA-PHASE5-PROJ - my-spring-boot-web:pom.xml - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer

- my-spring-boot-web
 - src/main/java
 - src/main/resources
 - public
 - css
 - index.html
 - application.properties
 - src/test/java
 - com.simplilearn.workshop
 - Maven Dependencies
 - bin
 - target
 - generated-sources
 - generated-test-sources
 - maven-archiver
 - maven-metadata.xml
 - surefire-reports
 - my-spring-boot-web-aws-exe.jar
 - my-spring-boot-web-aws-exe.jar.manifest
 - mmw
 - mmw.cmd
- pom.xml

Overview Dependencies Call Hierarchy Effective POM pom.xml

Markers Properties Servers Data Source Explorer Snippets Console Call Hierarchy Terminal History

```

<terminated> my-spring-boot-web [Maven Build] C:\Program Files\AdoptOpenJDK\jdk-11.0.10-hotspot\bin\javaw.exe (Sep 26, 2021, 3:34:46 PM - 3:34:52 PM)

Spring Boot (v2.5.5)
2021-09-26 15:34:50.181 INFO 14404 --- [           main] c.s.w.0BSPrinterWebApplicationTests   : Starting 0BSPrinterWebApplicationTests using Java 11.0.10 on I...
2021-09-26 15:34:50.182 INFO 14404 --- [           main] c.s.w.0BSPrinterWebApplicationTests   : No active profile set, falling back to default profiles: default
2021-09-26 15:34:50.901 INFO 14404 --- [           main] org.springframework.boot.util.log.LoggingSystem  : Log file: C:\Users\kevin\IdeaProjects\my-spring-boot-web\target\logs\server.log[514]
2021-09-26 15:34:51.005 INFO 14404 --- [           main] c.s.w.0BSPrinterWebApplicationTests   : Adding welcome page: class path resource [public/index.html]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.468 s - in com.simplilearn.workshop.0BSPrinterWebApplicationTests
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] ...
[INFO] ... maven-jar-plugin:3.2.0:jar (default-jar) @ my-spring-boot-web ...
[INFO] Building jar: C:\Users\kevin\Desktop\ICALTECH__COURSEPHASE5\CLASS_ASSESSMENT\SOFTWARE\my-spring-boot-web\target\my-spring-boot-web-aws.jar
[INFO] Replacing main artifact with repackaged archive
[INFO] BUILD SUCCESS
[INFO] Total time: 4.441 s
[INFO] Finished at: 2021-09-26T15:34:52-05:00
[INFO] -----

```

Creates Executable JAR FILE

```
[ec2-user@ip-172-31-94-6 ~]
$ login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sun Sep 26 22:14:09 2021 from 104-14-74-96.lightspeed.jcsnms.sbcglob
al.net
[ec2-user@ip-172-31-94-6 ~]$ java -jar my-spring-boot-web-aws-exe.jar
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-94-6 ~]$ java -jar my-spring-boot-web-aws-exe.jar
Now running my Spring-Boot App
on EC2 instance
:: Spring Boot ::      (v2.3.0.RELEASE)

2020-06-06 14:14:41.359  INFO 23604 --- [           main] c.j.a.a.SpringBootAwsExampleApplication : Starting SpringBootAwsExampleApplication v0.
on ip-172-31-43-97 with PID 23604 (/home/ec2-user/spring-boot-aws-exe.jar started by ec2-user in /home/ec2-user)
2020-06-06 14:14:41.363  INFO 23604 --- [           main] c.j.a.a.SpringBootAwsExampleApplication : No active profile set, falling back to default
2020-06-06 14:14:44.109  INFO 23604 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2020-06-06 14:14:44.144  INFO 23604 --- [           main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2020-06-06 14:14:44.145  INFO 23604 --- [           main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.
2020-06-06 14:14:44.306  INFO 23604 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationCon
2020-06-06 14:14:44.311  INFO 23604 --- [           main] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization com
2777 ms
2020-06-06 14:14:45.199  INFO 23604 --- [           main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2020-06-06 14:14:45.637  INFO 23604 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with
''

2020-06-06 14:14:45.665  INFO 23604 --- [           main] c.j.a.a.SpringBootAwsExampleApplication : Started SpringBootAwsExampleApplication in 5
```

```
1 <?xml version="1.0" encoding="UTF-8"?>
2<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5     <parent>
6       <groupId>org.springframework.boot</groupId>
7       <artifactId>spring-boot-starter-parent</artifactId>
8       <version>2.5.5</version>
9       <relativePath/> <!-- local repository (.m2) / remote repository (www.mvnrepository.com) -->
10    </parent>
11    <groupId>com.simplilearn.workshop</groupId>
12    <artifactId>my-spring-boot-web</artifactId>
13    <version>1.0</version>
14    <name>my-spring-boot-web</name>
15    <description>Kevin Casey's SimpliLearnPhase-5 Assessment</description>
16    <properties>
17      <java.version>11</java.version>
18    </properties>
19    <dependencies>
20      <dependency>
21        <groupId>org.springframework.boot</groupId>
22        <artifactId>spring-boot-starter-web</artifactId>
23        <exclusions>
24          <exclusion>
25            <groupId>org.springframework.boot</groupId>
26            <artifactId>spring-boot-starter-tomcat</artifactId>
27          </exclusion>
28        </exclusions>
29      </dependency>
30      <dependency>
31        <groupId>org.springframework.boot</groupId>
32        <artifactId>spring-boot-starter-jetty</artifactId>
33      </dependency>
34    </dependencies>
35    <dependency>
36      <groupId>org.springframework.boot</groupId>
37      <artifactId>spring-boot-starter-test</artifactId>
38      <scope>test</scope>
39    </dependency>
40  </dependencies>
41
42  <build>
43    <plugins>
44      <plugin>
45        <groupId>org.springframework.boot</groupId>
46        <artifactId>spring-boot-maven-plugin</artifactId>
47      </plugin>
48    </plugins>
49  </build>
50
51</project>
52
```