

# Deploy Application on Cloud.

## DESCRIPTION

### Project objective:

As a developer, deploy your Spring Boot application on Cloud.

### Background of the problem statement:

You have been assigned a new task during the sprint planning. You have been asked to deploy your Spring Boot application on the Cloud. You need to create and launch an instance, provide all the required privileges, and run your application.

## OUTPUT:

The screenshot displays the Spring Tool Suite (STS) interface and the AWS S3 console, illustrating the deployment of a Spring Boot application.

**Spring Tool Suite (STS) Console:**

```
<terminated> springbootawsapp [Maven Build] C:\Program Files\Java\jdk1.8.0_144\bin\javaw.exe (11-Mar-2022, 1:05:08 PM)
2022-03-11 13:05:32.806 INFO 3740 --- [main] c.e.d.SpringbootawsappApplicationTests : Started Springbootawsapp
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 8.554 s - in com.example.demo.SpringbootawsappApplicationTests
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ springbootawsapp ---
[INFO] Building jar: C:\Users\theju shetty\Desktop\springtoolsuite\springbootawsapp\target\springbootaws.jar
[INFO] --- spring-boot-maven-plugin:2.6.4:repackage (repackage) @ springbootawsapp ---
[INFO] Replacing main artifact with repackaged archive
[INFO] BUILD SUCCESS
[INFO] Total time: 26.470 s
[INFO] Finished at: 2022-03-11T13:05:39+05:30
[WARNING] The requested profile "pom.xml" could not be activated because it does not exist.
```

**AWS S3 Console:**

The screenshot shows the AWS S3 console for the bucket **fspringbucket**. The bucket is publicly accessible. The **Objects** tab is selected, showing a list of objects:

Name	Type	Last modified	Size	Storage class
springbootaws.jar	jar	March 11, 2022, 12:46:45 (UTC+05:30)	16.7 MB	Standard

## springbootaws.jar

Copy S3 URI Download Open Object actions

Properties Permissions Versions

### Object overview

Owner  
claaslabs+5f0385bc2d11de5048e470ed

AWS Region  
US East (N. Virginia) us-east-1

Last modified  
March 11, 2022, 12:46:45 (UTC+05:30)

Size  
16.7 MB

Type  
jar

S3 URI  
s3://fspringbucket/springbootaws.jar

Amazon Resource Name (ARN)  
arn:aws:s3:::fspringbucket/springbootaws.jar

Entity tag (Etag)  
428469517bc031e5841ee1ab9824b15b-2

Object URL  
<https://fspringbucket.s3.amazonaws.com/springbootaws.jar>

```
https://fspringbucket.s3.amazonaws.com/springbootaws.jar
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ec2-user@ip-172-31-91-119:~$
Clean up : rayalog-8.24.0-52.amzn2.x86_64 10/10
Verifying : rayalog-8.24.0-57.amzn2.1.x86_64 1/10
Verifying : 12:dhcp-common-4.2.5-77.amzn2.1.4.x86_64 2/10
Verifying : 12:dhclient-4.2.5-77.amzn2.1.4.x86_64 3/10
Verifying : 12:dhcp-libs-4.2.5-77.amzn2.1.4.x86_64 4/10
Verifying : dracut-config-ec2-2.0-3.amzn2.noarch 5/10
Verifying : dracut-config-ec2-2.0-2.amzn2.noarch 6/10
Verifying : rayalog-8.24.0-52.amzn2.x86_64 7/10
Verifying : 12:dhclient-4.2.5-77.amzn2.1.3.x86_64 8/10
Verifying : 12:dhcp-libs-4.2.5-77.amzn2.1.3.x86_64 9/10
Verifying : 12:dhcp-common-4.2.5-77.amzn2.1.3.x86_64 10/10

Updated:
dhclient.x86_64 12:4.2.5-77.amzn2.1.4
dhcp-common.x86_64 12:4.2.5-77.amzn2.1.4
dhcp-libs.x86_64 12:4.2.5-77.amzn2.1.4
dracut-config-ec2.noarch 0:2.0-3.amzn2
rayalog.x86_64 0:8.24.0-57.amzn2.1

Complete!
[ec2-user@ip-172-31-91-119 ~]$ sudo yum install -y httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.52-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.52-1.amzn2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem = 2.4.52-1.amzn2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: libaprutil1.so.0()(64bit) for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.52-1.amzn2.x86_64
--> Running transaction check
--> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
--> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
--> Package httpd filesystem.noarch 0:2.4.52-1.amzn2 will be installed
--> Package httpd-tools.x86_64 0:2.4.52-1.amzn2 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check
```

```
ec2-user@ip-172-31-91-119:~  
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9  
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 3/9  
Installing : httpd-tools-2.4.52-1.amzn2.x86_64 4/9  
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 5/9  
Installing : mailcap-2.1.41-2.amzn2.noarch 6/9  
Installing : httpd-fsfilesystem-2.4.52-1.amzn2.noarch 7/9  
Installing : mod_http2-1.15.19-1.amzn2.0.1.x86_64 8/9  
Installing : httpd-2.4.52-1.amzn2.x86_64 9/9  
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9  
Verifying : httpd-tools-2.4.52-1.amzn2.x86_64 2/9  
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 3/9  
Verifying : httpd-fsfilesystem-2.4.52-1.amzn2.noarch 4/9  
Verifying : mailcap-2.1.41-2.amzn2.noarch 5/9  
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 7/9  
Verifying : mod_http2-1.15.19-1.amzn2.0.1.x86_64 8/9  
Verifying : apr-1.7.0-9.amzn2.x86_64 9/9  
  
Installed:  
httpd.x86_64 0:2.4.52-1.amzn2  
  
Dependency Installed:  
apr.x86_64 0:1.7.0-9.amzn2 apr-util.x86_64 0:1.6.1-5.amzn2.0.2  
apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 generic-logos-httpd.noarch 0:18.0.0-4.amzn2  
httpd-fsfilesystem.noarch 0:2.4.52-1.amzn2 httpd-tools.x86_64 0:2.4.52-1.amzn2  
mailcap.noarch 0:2.1.41-2.amzn2 mod_http2.x86_64 0:1.15.19-1.amzn2.0.1  
  
Complete!  
[ec2-user@ip-172-31-91-119 ~]$ sudo systemctl start httpd  
[ec2-user@ip-172-31-91-119 ~]$ sudo systemctl enable httpd  
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.  
[ec2-user@ip-172-31-91-119 ~]$ sudo yum install wget -y  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Package wget-1.14-18.amzn2.1.x86_64 already installed and latest version  
Nothing to do  
[ec2-user@ip-172-31-91-119 ~]$ java -version  
-bash: java: command not found  
[ec2-user@ip-172-31-91-119 ~]$ sudo yum install java -y  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Resolving Dependencies  
--> Running transaction check  
--> Package java-17-amazon-corretto.x86_64 1:17.0.2+8-1.amzn2.1 will be installed  
--> Processing Dependency: java-17-amazon-corretto-headless(x86-64) = 1:17.0.2+8-1.amzn2.1 for pac  
kage: 1:java-17-amazon-corretto-17.0.2+8-1.amzn2.1.x86_64  
  
--> Package libxslt.x86_64 0:1.1.28-6.amzn2 will be installed  
--> Package python-javapackages.noarch 0:3.4.1-11.amzn2 will be installed  
--> Processing Dependency: python-lxml for package: python-javapackages-3.4.1-11.amzn2.noarch  
--> Running transaction check  
--> Package python-lxml.x86_64 0:3.2.1-4.amzn2.0.3 will be installed  
--> Finished Dependency Resolution  
  
Dependencies Resolved  
  
=====
```

Package	Arch	Version	Repository	Size
Installing:				
java-17-amazon-corretto	x86_64	1:17.0.2+8-1.amzn2.1	amzn2-core	178 k
Installing for dependencies:				
alsa-lib	x86_64	1.1.4.1-2.amzn2	amzn2-core	425 k
dejavu-fonts-common	noarch	2.33-6.amzn2	amzn2-core	64 k
dejavu-sans-fonts	noarch	2.33-6.amzn2	amzn2-core	1.4 M
dejavu-sans-mono-fonts	noarch	2.33-6.amzn2	amzn2-core	433 k
dejavu-serif-fonts	noarch	2.33-6.amzn2	amzn2-core	777 k
fontconfig	x86_64	2.13.0-4.3.amzn2	amzn2-core	253 k
fontpackages-filesystem	noarch	1.44-8.amzn2	amzn2-core	10 k
java-17-amazon-corretto-headless	x86_64	1:17.0.2+8-1.amzn2.1	amzn2-core	94 M
javapackages-tools	noarch	3.4.1-11.amzn2	amzn2-core	73 k
libICE	x86_64	1.0.9-9.amzn2.0.2	amzn2-core	67 k
libSM	x86_64	1.2.2-2.amzn2.0.2	amzn2-core	39 k
libX11	x86_64	1.6.7-3.amzn2.0.2	amzn2-core	606 k
libX11-common	noarch	1.6.7-3.amzn2.0.2	amzn2-core	165 k
libXau	x86_64	1.0.8-2.1.amzn2.0.2	amzn2-core	29 k
libXext	x86_64	1.3.3-3.amzn2.0.2	amzn2-core	39 k
libXi	x86_64	1.7.9-1.amzn2.0.2	amzn2-core	41 k
libXinerama	x86_64	1.1.3-2.1.amzn2.0.2	amzn2-core	14 k
libXrandr	x86_64	1.5.1-2.amzn2.0.3	amzn2-core	27 k
libXrender	x86_64	0.9.10-1.amzn2.0.2	amzn2-core	26 k
libXt	x86_64	1.1.5-3.amzn2.0.2	amzn2-core	177 k
libXtst	x86_64	1.2.3-1.amzn2.0.2	amzn2-core	20 k
libxcb	x86_64	1.12-1.amzn2.0.2	amzn2-core	216 k
libxslt	x86_64	1.1.28-6.amzn2	amzn2-core	240 k
log4j-cve-2021-44228-hotpatch	noarch	1.1-13.amzn2	amzn2-core	144 k
python-javapackages	noarch	3.4.1-11.amzn2	amzn2-core	31 k
python-lxml	x86_64	3.2.1-4.amzn2.0.3	amzn2-core	1.0 M

```
Transaction Summary  
Install 1 Package (+26 Dependent packages)
```

```
ec2-user@ip-172-31-91-119:~$
Verifying : log4j-cve-2021-44228-hotpatch-1.1-13.amzn2.noarch 22/27
Verifying : python-javapackages-3.4.1-11.amzn2.noarch 23/27
Verifying : libXtst-1.2.3-1.amzn2.0.2.x86_64 24/27
Verifying : alsa-lib-1.1.4-1-2.amzn2.x86_64 25/27
Verifying : libICE-1.0.9-9.amzn2.0.2.x86_64 26/27
Verifying : javapackages-tools-3.4.1-11.amzn2.noarch 27/27

Installed:
  java-17-amazon-corretto.x86_64 1:17.0.2+8-1.amzn2.1

Dependency Installed:
  alsa-lib.x86_64 0:1.1.4-1-2.amzn2
  dejavu-fonts-common.noarch 0:2.33-6.amzn2
  dejavu-sans-fonts.noarch 0:2.33-6.amzn2
  dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2
  dejavu-serif-fonts.noarch 0:2.33-6.amzn2
  fontconfig.x86_64 0:12.13.0-3.amzn2
  fontpackages-filesystem.noarch 0:1.44-8.amzn2
  java-17-amazon-corretto-headless.x86_64 1:17.0.2+8-1.amzn2.1
  javapackages-tools.noarch 0:3.4.1-11.amzn2
  libICE.x86_64 0:1.0.9-9.amzn2.0.2
  libSM.x86_64 0:1.2.2-2.amzn2.0.2
  libX11.x86_64 0:1.6.7-3.amzn2.0.2
  libX11-common.noarch 0:1.6.7-3.amzn2.0.2
  libXau.x86_64 0:1.0.8-2.1.amzn2.0.2
  libXext.x86_64 0:1.3.3-3.amzn2.0.2
  libXl.x86_64 0:1.7.9-1.amzn2.0.2
  libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2
  libXrandr.x86_64 0:1.5.1-2.amzn2.0.3
  libXrender.x86_64 0:0.9.10-1.amzn2.0.2
  libXt.x86_64 0:1.1.5-3.amzn2.0.2
  libXtst.x86_64 0:1.2.3-1.amzn2.0.2
  libxcb.x86_64 0:1.12-1.amzn2.0.2
  libxslt.x86_64 0:1.1.28-6.amzn2
  log4j-cve-2021-44228-hotpatch.noarch 0:1.1-13.amzn2
  python-javapackages.noarch 0:3.4.1-11.amzn2
  python-lxml.x86_64 0:3.2.1-4.amzn2.0.3

Complete!
[ec2-user@ip-172-31-91-119 ~]$ java -version
openjdk version "17.0.2" 2022-01-18 LTS
OpenJDK Runtime Environment Corretto-17.0.2.8.1 (build 17.0.2+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.2.8.1 (build 17.0.2+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-91-119 ~]$ sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
[ec2-user@ip-172-31-91-119 ~]$ sudo rpm --import http://pkg.jenkins-ci.org/redhat/jenkins-ci.org
--2022-03-11 07:03:15-- http://pkg.jenkins-ci.org/redhat/jenkins-ci.org/redhat/jenkins-ci.org
Resolving pkg.jenkins-ci.org (pkg.jenkins-ci.org)... 52.202.51.185
Connecting to pkg.jenkins-ci.org (pkg.jenkins-ci.org)[52.202.51.185]:80... connected.
HTTP request sent, awaiting response... 404 Not Found
2022-03-11 07:03:15 ERROR 404: Not Found.

[ec2-user@ip-172-31-91-119 ~]$ sudo rpm --import http://pkg.jenkins-ci.org/redhat/jenkins-ci.org
curl: (22) The requested URL returned error: 404
error: http://pkg.jenkins-ci.org/redhat/jenkins-ci.org/redhat/jenkins-ci.org: import read failed(2).
[ec2-user@ip-172-31-91-119 ~]$ sudo wget -O /etc/yum.repos.d/jenkins.repo \
> https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2022-03-11 07:07:30-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 146.75.38.133, 2a04:4e42:79a:645::
Connecting to pkg.jenkins.io (pkg.jenkins.io)[146.75.38.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

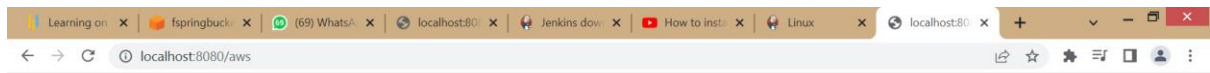
100%[=====] 85 --.-K/s in 0s

2022-03-11 07:07:30 (6.18 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

[ec2-user@ip-172-31-91-119 ~]$ sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
[ec2-user@ip-172-31-91-119 ~]$ sudo dnf upgrade
sudo: dnf: command not found
[ec2-user@ip-172-31-91-119 ~]$ sudo yum upgrade
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
jenkins | 2.9 kB 00:00:00
jenkins/primary.db | 40 kB 00:00:00
No packages marked for update
[ec2-user@ip-172-31-91-119 ~]$ sudo amazon-linux-extras install epel -y
Installing epel-release
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-epel amzn2extra-kernel-5.10 jenkins
19 metadata files removed
8 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
amzn2extra-docker | 3.0 kB 00:00:00
```

```
ec2-user@ip-172-31-91-119:~  
60 mock2 available [ =stable ]  
61 dnsmasq2.85 available [ =stable ]  
[ec2-user@ip-172-31-91-119 ~]$ sudo amazon-linux-extras install epel -y  
Installing epel-release  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-epel amzn2extra-kernel-5.10 epel jenkins  
30 metadata files removed  
12 sqlite files removed  
0 metadata files removed  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core | 3.7 kB 00:00:00  
amzn2extra-docker | 3.0 kB 00:00:00  
amzn2extra-epel | 3.0 kB 00:00:00  
amzn2extra-kernel-5.10 | 3.0 kB 00:00:00  
epel/x86_64/metalink | 15 kB 00:00:00  
epel | 4.7 kB 00:00:00  
jenkins | 2.9 kB 00:00:00  
(1/13): amzn2-core/2/x86_64/group_gz | 2.5 kB 00:00:00  
(2/13): amzn2-core/2/x86_64/updateinfo | 451 kB 00:00:00  
(3/13): amzn2extra-epel/2/x86_64/primary_db | 1.4 kB 00:00:00  
(4/13): amzn2extra-kernel-5.10/2/x86_64/updateinfo | 12 kB 00:00:00  
(5/13): amzn2extra-epel/2/x86_64/updateinfo | 76 B 00:00:00  
(6/13): amzn2extra-docker/2/x86_64/updateinfo | 5.9 kB 00:00:00  
(7/13): amzn2extra-docker/2/x86_64/primary_db | 86 kB 00:00:00  
(8/13): amzn2extra-kernel-5.10/2/x86_64/primary_db | 7.4 MB 00:00:00  
(9/13): epel/x86_64/group_gz | 96 kB 00:00:00  
(10/13): epel/x86_64/updateinfo | 1.0 MB 00:00:00  
(11/13): epel/x86_64/primary_db | 7.0 MB 00:00:00  
(12/13): jenkins/primary_db | 40 kB 00:00:00  
(13/13): amzn2-core/2/x86_64/primary_db | 60 MB 00:00:02  
209 packages excluded due to repository priority protections  
Package epel-release-7-11.noarch already installed and latest version  
Nothing to do  
0 ansible2 available \   
 [ =2.4.2 =2.4.6 =2.8 =stable ] [ =1.0 =stable ]  
2 httpd_modules available [ =1.0 =stable ]  
3 memcached1.5 available \   
 [ =1.5.1 =1.5.16 =1.5.17 ]  
5 postgresql9.6 available \   
 [ =9.6.6 =9.6.8 =stable ]  
6 postgresql10 available [ =10 =stable ]  
9 R3.4 available [ =3.4.3 =stable ]  
10 rust1 available \   
 [ =1.22.1 =1.26.0 =1.26.1 =1.27.2 =1.31.0 =1.38.0  
 =stable ]  
Resolving fspringbucket.s3.amazonaws.com (fspringbucket.s3.amazonaws.com)... 52.216.110.179  
Connecting to fspringbucket.s3.amazonaws.com (fspringbucket.s3.amazonaws.com) [52.216.110.179]:443.  
.. connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 17554289 (17M) [application/x-www-form-urlencoded]  
Saving to: 'springbootaws.jar'  
100%[=====] 17,554,289 37.1MB/s in 0.5s  
2022-03-11 07:22:04 (37.1 MB/s) - 'springbootaws.jar' saved [17554289/17554289]  
[ec2-user@ip-172-31-91-119 ~]$ ls  
springbootaws.jar  
[ec2-user@ip-172-31-91-119 ~]$ springbootaws.jar  
-bash: springbootaws.jar: command not found  
[ec2-user@ip-172-31-91-119 ~]$ java -jar springbootaws.jar  
  
:: Spring Boot :: (v2.6.4)  
  
2022-03-11 07:24:12.357 INFO 17971 --- [ main] c.e.demo.SpringbootawsappApplication  
: Starting SpringbootawsappApplication v0.0.1-SNAPSHOT using Java 17.0.2 on ip-172-31-91-119.ec2.  
internal with PID 17971 (/home/ec2-user/springbootaws.jar started by ec2-user in /home/ec2-user)  
2022-03-11 07:24:12.369 INFO 17971 --- [ main] c.e.demo.SpringbootawsappApplication  
: No active profile set, falling back to 1 default profile: "default"  
2022-03-11 07:24:14.788 INFO 17971 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer  
: Tomcat initialized with port(s): 8080 (http)  
2022-03-11 07:24:14.820 INFO 17971 --- [ main] o.apache.catalina.core.StandardService  
: Starting service [Tomcat]  
2022-03-11 07:24:14.820 INFO 17971 --- [ main] org.apache.catalina.core.StandardEngine  
: Starting Servlet engine: [Apache Tomcat/9.0.58]  
2022-03-11 07:24:14.923 INFO 17971 --- [ main] o.a.c.c.C.[Tomcat].[localhost].[/]  
: Initializing Spring embedded WebApplicationContext  
2022-03-11 07:24:14.926 INFO 17971 --- [ main] w.s.c.ServletWebServerApplicationContext  
: Root WebApplicationContext: initialization completed in 2385 ms  
2022-03-11 07:24:16.288 INFO 17971 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer  
: Tomcat started on port(s): 8080 (http) with context path ''  
2022-03-11 07:24:16.319 INFO 17971 --- [ main] c.e.demo.SpringbootawsappApplication  
: Started SpringbootawsappApplication in 5.135 seconds (JVM running for 6.615)
```





Deploying Spring Boot Application On The Cloud.....

