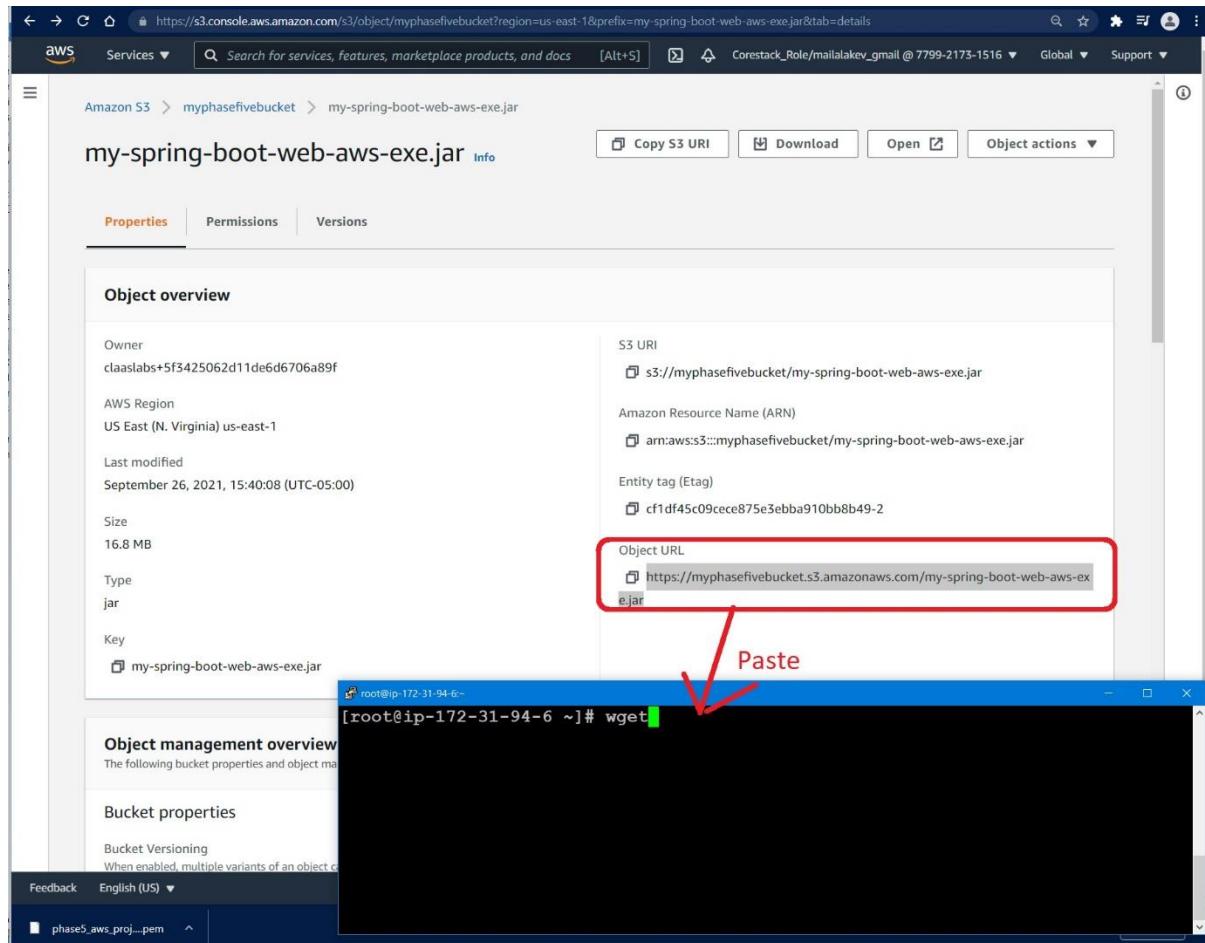


CI/CD DEPLOYMENT FOR SPRINGBOOT APPLICATION



PG FSD Testing in a DevOps Lifecycle
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FSD Java AWS

This Lab will get reset on 19th September 2021, 4:55 PM

Current Lab : AWS Certification - Dedicated Account

Access Information Lab Details Components Log Details Usage Details

Applications

AWS Web Console AWS API Access

AWS Web Console

Auth Url <https://signin.aws.amazon.com/federate>

Session Expires in: 7h 59m 11s Refresh Link

1. Session Duration is for 8 Hours. Post the session duration all the resources will be cleaned up automatically.
2. Auth URL enables Single-Sign-On, so the URL will vary for each session and the same URL will not work next time. Refresh the Access Details

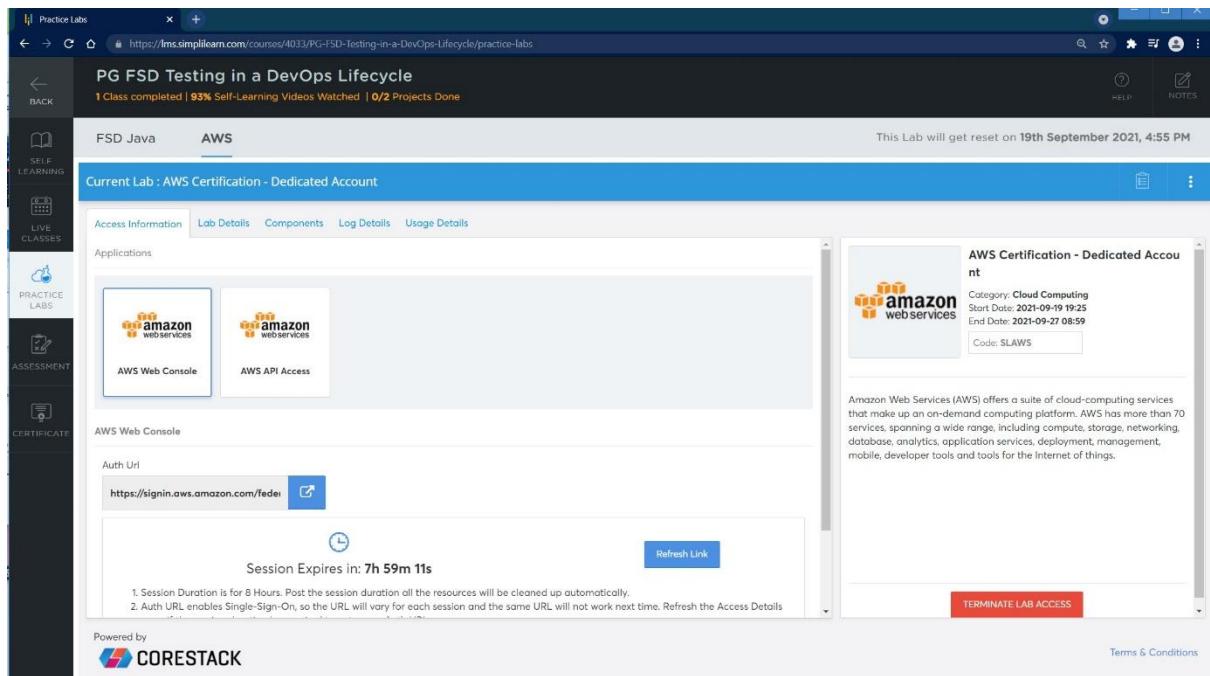
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AWS Certification - Dedicated Account

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

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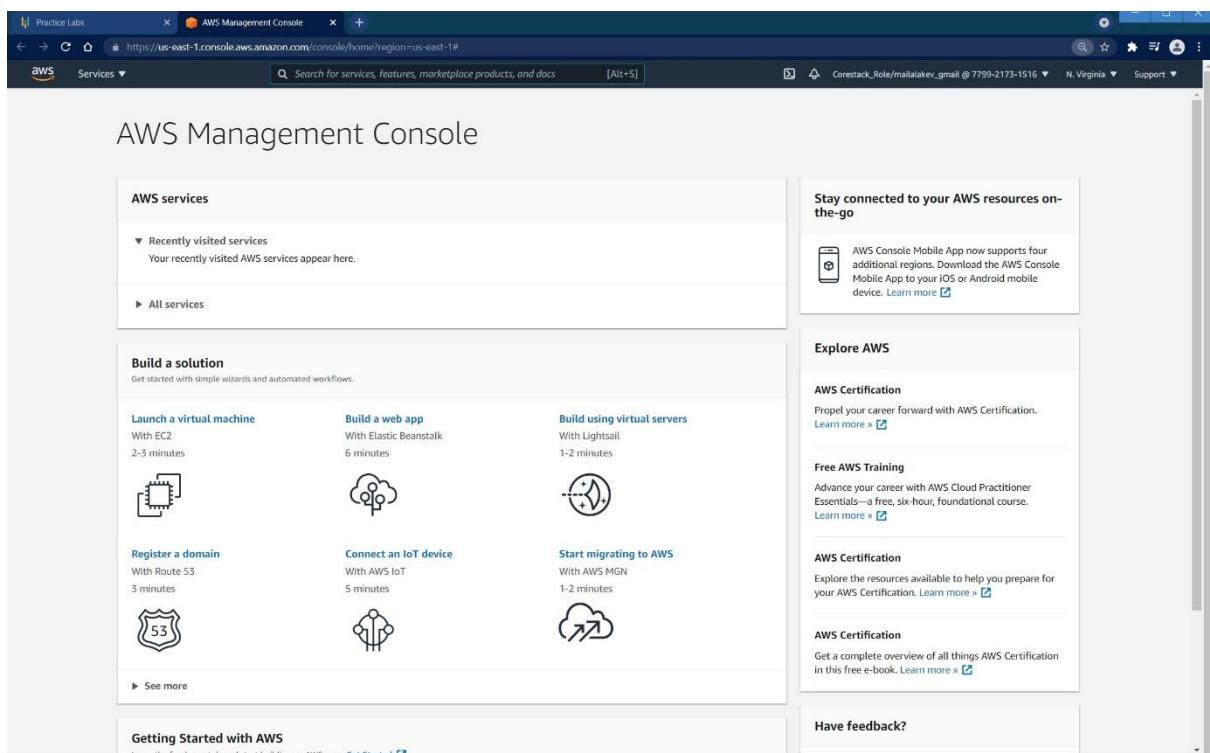
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Creates Executable JAR FILE

```

PSD-PHASE3-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/main/resources
com.simplilearnworkshop
JRE System Library [JavaSE-11]
Maven Dependencies
src
target
generated-sources
generated-test-sources
maven-archiver
maven-status
surefire-reports
my-spring-boot-web-aws-exe-jar
my-spring-boot-web-aws-exe.jar
mvn
mvnw
mvnw.cmd
pom.xml

17<
    <parent>
        <groupId>com.simplilearnworkshop</groupId>
        <artifactId>my-spring-boot-web</artifactId>
        <version>1.0</version>
        <description>Kevin Case&#039;s SimplilearnPhase 5 Assessment</description>
    </parent>
    <properties>
        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
        <maven.compiler.source>11</maven.compiler.source>
        <maven.compiler.target>11</maven.compiler.target>
    </properties>
<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
        <exclusions>
            <exclusion>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-starter-tomcat</artifactId>
            </exclusion>
        </exclusions>
    </dependency>
</dependencies>

```

Overview Dependencies Dependency Hierarchy [Effective POM: pom.xml]

```

Markers Properties Server Data Source Explorer Snippets Console Call Hierarchy Terminal History
terminated: my-spring-boot-web (S) [ Maven Build ] (C:\Program Files\AdoptOpenJDK\jdk-11.0.10\bin\mvn.bat) Sep 26, 2021, 8:34:46 PM - 3:34:52 PM
Dependencies
:: Spring Boot :: (v2.5.5)
2021-09-26 15:34:50.181 [INFO] 140404 --- [main] c.s.w.08SpringBootWebApplicationTests : Starting 08SpringBootWebApplicationTests using Java 11.0.10 on I...
2021-09-26 15:34:50.182 [INFO] 140404 --- [main] c.s.w.08SpringBootWebApplicationTests : No active profile set, falling back to default profiles: default
2021-09-26 15:34:50.628 [INFO] 140404 --- [main] o.s.w.u.log.LogFileWriter : Logging initialized @10ms to org-eclipse-jetty-util.log[5144]
2021-09-26 15:34:51.003 [INFO] 140404 --- [main] o.s.w.u.log.LogFileWriter : Logging initialized @10ms to org-eclipse-jetty-util.log[5144]
2021-09-26 15:34:51.003 [INFO] 140404 --- [main] c.s.w.08SpringBootWebApplicationTests : Started 08SpringBootWebApplicationTests in 0.002 seconds (SWF)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.408 s - in com.simplilearn.workshop.08SpringBootWebApplicationTests
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] --- maven-jar-plugin:3.2.0:jar (@default-jar) @ my-spring-boot-web ---
[INFO] Building jar: C:\Users\kevin\Desktop\CALTECH _ COURSE\PHASE_5\CLASS_ASSESSMENT\SOFTWARE\my-spring-boot-web\target\my-spring-boot-web-aws-exe.jar
[INFO] --- spring-boot-maven-plugin:2.5.5:repackage (repackage) @ my-spring-boot-web ---
[INFO] Replacing main artifact with repackaged archive
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 4.445 s
[INFO] Finished at: 2021-09-26T15:34:52.051Z
[INFO]

```

Now running my Spring-Boot App on EC2 instance

```

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
[Amazon Linux 2 AMI]

https://aws.amazon.com/amazon-linux-2/
(ec2-user@ip-172-31-94-6 ~)$ java -jar my-spring-boot-web-aws-exe.jar

Spring Boot : (v2.3.0.RELEASE)

2020-06-06 14:14:41.559 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
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] o.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 WebApplicationCo
2020-06-06 14:14:44.311 INFO 23604 --- [main] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization c
2777 ms
2020-06-06 14:14:45.199 INFO 23604 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTas
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
31    <dependency>
32      <groupId>org.springframework.boot</groupId>
33      <artifactId>spring-boot-starter-jetty</artifactId>
34    </dependency>
35
36    <dependency>
37      <groupId>org.springframework.boot</groupId>
38      <artifactId>spring-boot-starter-test</artifactId>
39      <scope>test</scope>
40    </dependency>
41  </dependencies>
42
43  <build>
44    <plugins>
45      <plugin>
46        <groupId>org.springframework.boot</groupId>
47        <artifactId>spring-boot-maven-plugin</artifactId>
48      </plugin>
49    </plugins>
50  </build>
51
52</project>
53
```

Screenshot of the AWS EC2 Instances page showing the instance summary for i-03151d5c74c30423b. The Networking tab is selected. A Putty Key Generator dialog box is open, showing a generated RSA key pair. The private key file is saved to the local file system.

Screenshot of the AWS EC2 Instances page showing the instance summary for i-03151d5c74c30423b. The Networking tab is selected. A Putty Key Generator dialog box is open, showing a generated RSA key pair. The private key file is saved to the local file system. A red arrow points to the "Save private key" button in the Putty Key Generator dialog.

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

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

EC2 Instances i-03151d5c74c30423b Connect to instance

```
root@ip-172-31-94-6:~#
Using username "ec2-user".
Authenticating with public key "imported-ssh-key"

   _\   _ /_ ) Amazon Linux 2 AMI
  __\_\|__|_|
https://aws.amazon.com/amazon-linux-2/
11 package(s) needed for security, out of 35 available
Run "sudo yum update" to apply all updates.
[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

Feedback English (US) © 2008–2021, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences phase5.aws.proj...pem Show all

```
ec2-user@ip-172-31-94-6:~#
login as: ec2-user
Authenticating with public key "imported-ssh-key"
Last login: Sun Sep 26 21:04:55 2021 from 104-14-74-96.lightspeed.jcsnms.sbcglobal.net

   _\   _ /_ ) Amazon Linux 2 AMI
  __\_\|__|_|
https://aws.amazon.com/amazon-linux-2/
11 package(s) needed for security, out of 35 available
Run "sudo yum update" to apply all updates.
[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 ~]# su
-bash: suo: command not found
[ec2-user@ip-172-31-94-6 ~]# sudo su
[root@ip-172-31-94-6 ec2-user]# service httpd start
Redirecting to /bin/systemctl start httpd.service
Failed to start httpd.service: Unit not found.
[root@ip-172-31-94-6 ec2-user]# yum install httpd -y
bash: yun: command not found
[root@ip-172-31-94-6 ec2-user]# 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-2.4.4
8-2.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.x8
```

```
[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 ~]$ 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 ~]$ 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:~$ 
Downloading packages:
(1/2): daemonize-1.7.7-1.el7.x86_64.rpm | 21 kB 00:00:00
(2/2): jenkins-2.303.1-1.noarch.rpm | 69 MB 00:00:20
Total 3.4 MB/s | 69 MB 00:00:20
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : daemonize-1.7.7-1.el7.x86_64 1/2
  Installing : jenkins-2.303.1-1.noarch 2/2
  Verifying  : daemonize-1.7.7-1.el7.x86_64 1/2
  Verifying  : jenkins-2.303.1-1.noarch 2/2

Installed:
  jenkins.noarch 0:2.303.1-1.1

Dependency Installed:
  daemonize.x86_64 0:1.7.7-1.el7

Complete!
[ec2-user@ip-172-31-94-6 ~]$ sudo systemctl start jenkins
[ec2-user@ip-172-31-94-6 ~]$ sudo 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 2021-09-26 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

Create bucket

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

General configuration

Bucket name: myawsbucket

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

Block Public Access settings for this bucket

Block all public access:

Block public access to buckets and objects granted through new access control lists (ACLS):

Create bucket

Learn more [\[?\]](#)

Creating a bucket

Buckets overview

Restrictions and limitations

The screenshot shows the 'Create bucket' wizard in the AWS S3 console. On the left, the navigation bar includes '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', and 'AWS Marketplace for S3'. The main area is titled 'Create bucket' with a sub-section 'General configuration'. It shows a 'Bucket name' field containing 'myphasefivebucket', an 'AWS Region' dropdown set to 'US East (N. Virginia) us-east-1', and a 'Choose bucket' button. Below this is a section titled 'Block Public Access settings for this bucket' with a note about how public access is controlled through ACLs, bucket policies, access point policies, or all. It lists four options: 'Block all public access' (unchecked), 'Block public access to buckets and objects granted through new access control lists (ACLs)' (unchecked), 'Block public access to buckets and objects granted through any access control lists (ACLs)' (unchecked), and 'Block public access to buckets and objects granted through new public bucket or access point policies' (unchecked). A right-hand sidebar provides information on buckets, bucket creation, and links to 'Learn more', 'Creating a bucket', 'Buckets overview', and 'Restrictions and limitations'.

The screenshot shows the 'Buckets' page in the AWS S3 console. The left sidebar is identical to the previous screenshot. The main area displays a green success message: 'Successfully created bucket "myphasefivebucket". To upload files and folders, or to configure additional bucket settings choose View details.' Below this is an 'Account snapshot' section with a 'View Storage Lens dashboard' button. The 'Buckets (1)' section shows a table with one row for 'myphasefivebucket'. The table columns are 'Name', 'AWS Region', 'Access', and 'Creation date'. The data row shows 'myphasefivebucket', 'US East (N. Virginia) us-east-1', 'Objects can be public', and 'September 26, 2021, 15:28:05 (UTC-05:00)'. A right-hand sidebar provides information on buckets, manage access, configure your bucket, understand storage usage and activity, and details about the Storage Lens account snapshot.

The screenshot shows the AWS S3 console interface for the 'myphasefivebucket'. The top navigation bar includes the AWS logo, 'Services' dropdown, search bar ('Search for services, features, marketplace products, and docs'), and user information ('Corestack_Role/mailalakev_gmail @ 7799-2173-1516'). The main content area displays the 'Objects' tab for the 'myphasefivebucket'. The left sidebar shows the bucket structure: 'Amazon S3 > myphasefivebucket'. The main panel has tabs for 'Objects' (selected), 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' section shows a message: 'Objects (0)' and 'No objects'. It includes buttons for 'Create folder' (disabled), 'Upload' (highlighted with a red arrow), 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', and 'Actions'. A search bar says 'Find objects by prefix'. To the right, there's a detailed sidebar with sections: 'Objects' (description of objects in a bucket), 'Amazon S3 objects' (description of objects as fundamental entities), 'Amazon S3 system metadata' (description of system and user metadata), 'Amazon S3 flat structure' (description of the flat structure), and 'Using the S3 console' (instructions for viewing objects). The bottom navigation bar includes 'Feedback', language selection ('English (US)'), copyright notice ('© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.'), and links for 'Privacy Policy', 'Terms of Use', and 'Cookie preferences'.

← → ⌂ ⌂ 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 [\[i\]](#)

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.

<input type="checkbox"/>	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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phase5_aws_proj...pem ^

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 \[i\]](#)

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

← → 🔍 https://s3.console.aws.amazon.com/s3/upload/myphasefivebucket?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 ▾

☰ **Upload succeeded**
View details below.

Upload: status Close

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%)

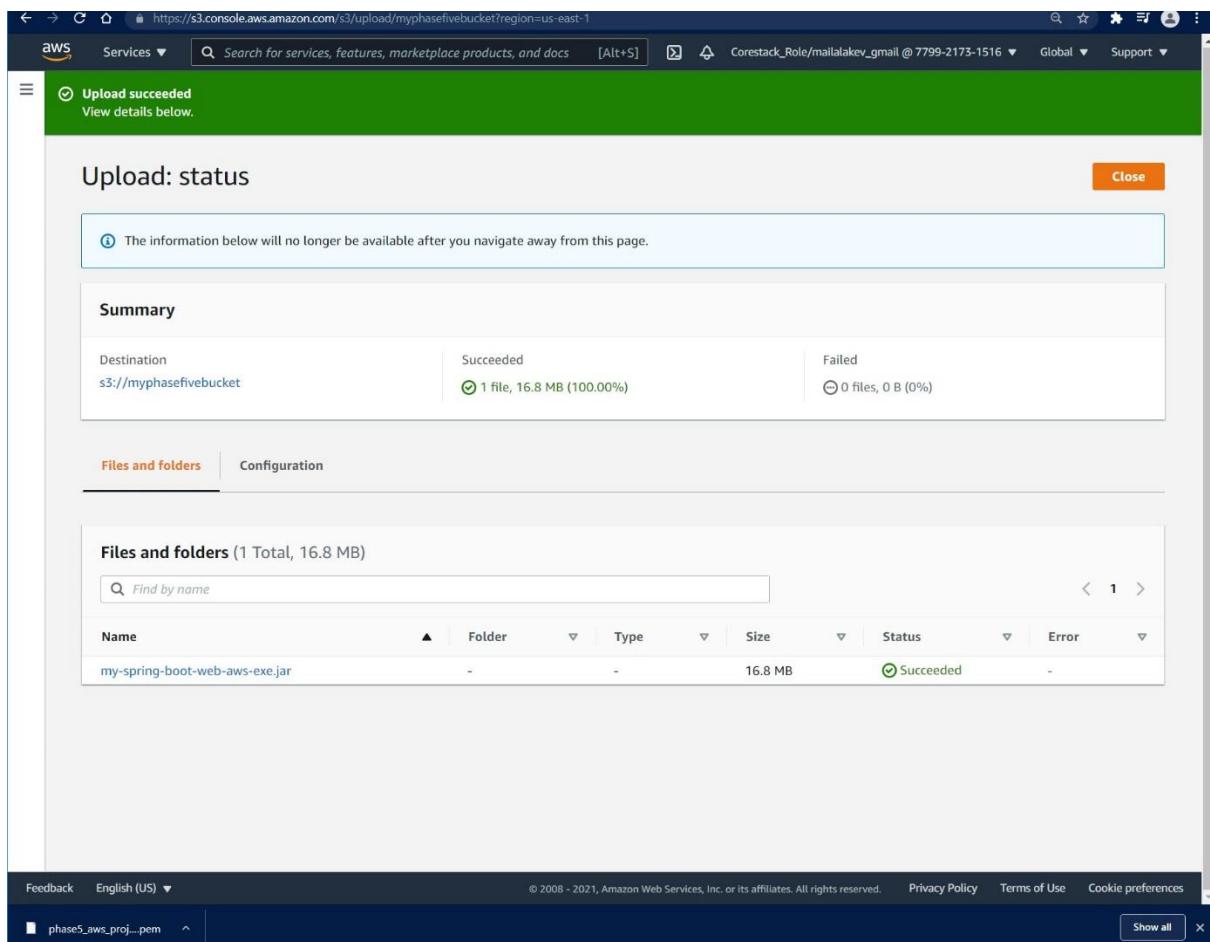
Files and folders Configuration

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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phase5_aws_proj...pem Show all X



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

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

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](#).

⚠ When public read access is enabled and not blocked by Block Public Access settings, anyone in the world can access the specified objects.

Specified objects

Find objects by name < 1 >

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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Screenshot of the AWS S3 console showing the upload of a Spring Boot executable JAR file to an EC2 instance.

The screenshot shows the AWS S3 Object Overview page for the file `my-spring-boot-web-aws-exe.jar`. The object details include:

- 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

The `Object URL` is displayed as `https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar`.

In the foreground, a terminal window on an EC2 instance shows the command being run to download the JAR file:

```
root@ip-172-31-94-6:~# wget https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar
--2021-09-26 20:45:54-- https://myphasefivebucket.s3.amazonaws.com/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 [17646207/17646207]
```

A green arrow points from the terminal output to the text **JAR FILE uploaded to EC2 INSTANCE!** at the bottom right of the terminal window.

Screenshot of the AWS S3 console showing the properties of the file "my-spring-boot-web-aws-exe.jar".

Properties:

- 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

Object overview:

- S3 URI: s3://myphasefivebucket/my-spring-boot-web-aws-exe.jar
- Amazon Resource Name (ARN): arn: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 over:

The following bucket properties and options are available:

Bucket properties:

Bucket Versioning: When enabled, multiple variants of an object can be stored.

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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]

[root@ip-172-31-94-6 ~]# ls
my-spring-boot-web-aws-exe.jar
[root@ip-172-31-94-6 ~]#
```

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

Screenshot of the AWS Launch Instance wizard showing the selection of an Amazon Machine Image (AMI).

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.

Quick Start:

- My AMIs
- AWS Marketplace (Free for eligible)
- Community AMIs
- Free tier only ⓘ

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

AMIs:

Image Type	Name	Description	Root device type	Virtualization type	ENAs Enabled	Select
Amazon Linux	Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-087c17d1fe0178315 (64-bit x86) / ami-029c64b3c205e6cc (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.	ebs	hvm	Yes	<input checked="" type="button" value="Select"/>
Mac	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.	ebs	hvm	ENAs Enabled: Yes	<input type="button" value="Select"/>
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.	ebs	hvm	ENAs Enabled: Yes	<input type="button" value="Select"/>
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.	ebs	hvm	ENAs Enabled: Yes	<input type="button" value="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
<input type="checkbox"/>	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
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes

Review and Launch

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	<input type="text" value="1"/> Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances
Network	vpc-0df264bc3671f6ec2 (default) <input type="button" value="Create new VPC"/>
Subnet	No preference (default subnet in any Availability Zone) <input type="button" value="Create new subnet"/>
Auto-assign Public IP	Use subnet setting (Enable)
Placement group	<input type="checkbox"/> Add instance to placement group
Capacity Reservation	Open
Domain join directory	No directory <input type="button" value="Create new directory"/>
IAM role	None <input type="button" value="Create new IAM role"/>
Shutdown behavior	Stop
Stop - Hibernate behavior	<input type="checkbox"/> Enable hibernation as an additional stop behavior
Enable termination protection	<input type="checkbox"/> Protect against accidental termination
Monitoring	<input type="checkbox"/> Enable CloudWatch detailed monitoring Additional charges apply.
Tenancy	Shared - Run a shared hardware instance

Review and Launch

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

Services ▾ [Alt+S] Corestack_Role/mailalakev_gmail @ 7799-2173-1516 N. Virginia ▾ Support ▾

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: 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.

Cancel Previous Review and Launch

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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 7: Review Instance Launch

Root Device type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

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

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](#)

Cancel Previous Launch

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The screenshot shows the AWS EC2 Connect to instance page for instance i-03151d5c74c30423b. The 'SSH client' tab is selected. The page provides instructions for connecting via SSH:

- Open an SSH client.
- Locate your private key file. The key used to launch this instance is phase5_aws_project.pem
- Run this command, if necessary, to ensure your key is not publicly viewable:
chmod 400 phase5_aws_project.pem
- Connect to your instance using its Public DNS:
ec2-54-235-5-192.compute-1.amazonaws.com

Example:
ssh -i "phase5_aws_project.pem" ec2-user@ec2-54-235-5-192.compute-1.amazonaws.com

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.

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The screenshot shows the AWS EC2 Connect to instance page for instance i-03151d5c74c30423b. The 'SSH client' tab is selected. A Putty Configuration window is overlaid on the page. The 'Session' category is selected, showing the host name as ec2-54-235-5-192.compute-1.amazonaws.com and port as 22. The 'Connection type' is set to SSH. A red arrow points to the 'Paste' button in the Putty window.

Connect to instance Info

EC2 Instance Connect Session Manager SSH client EC2 Serial Console

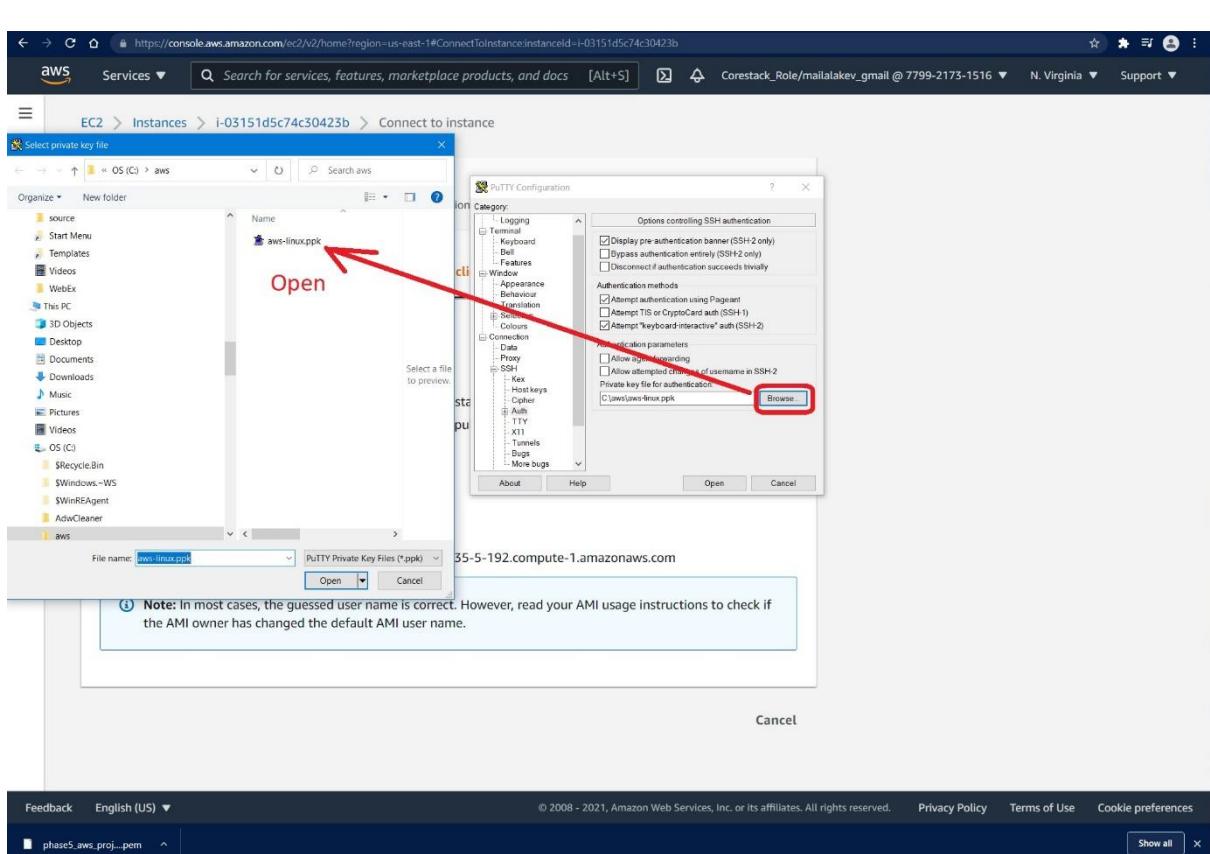
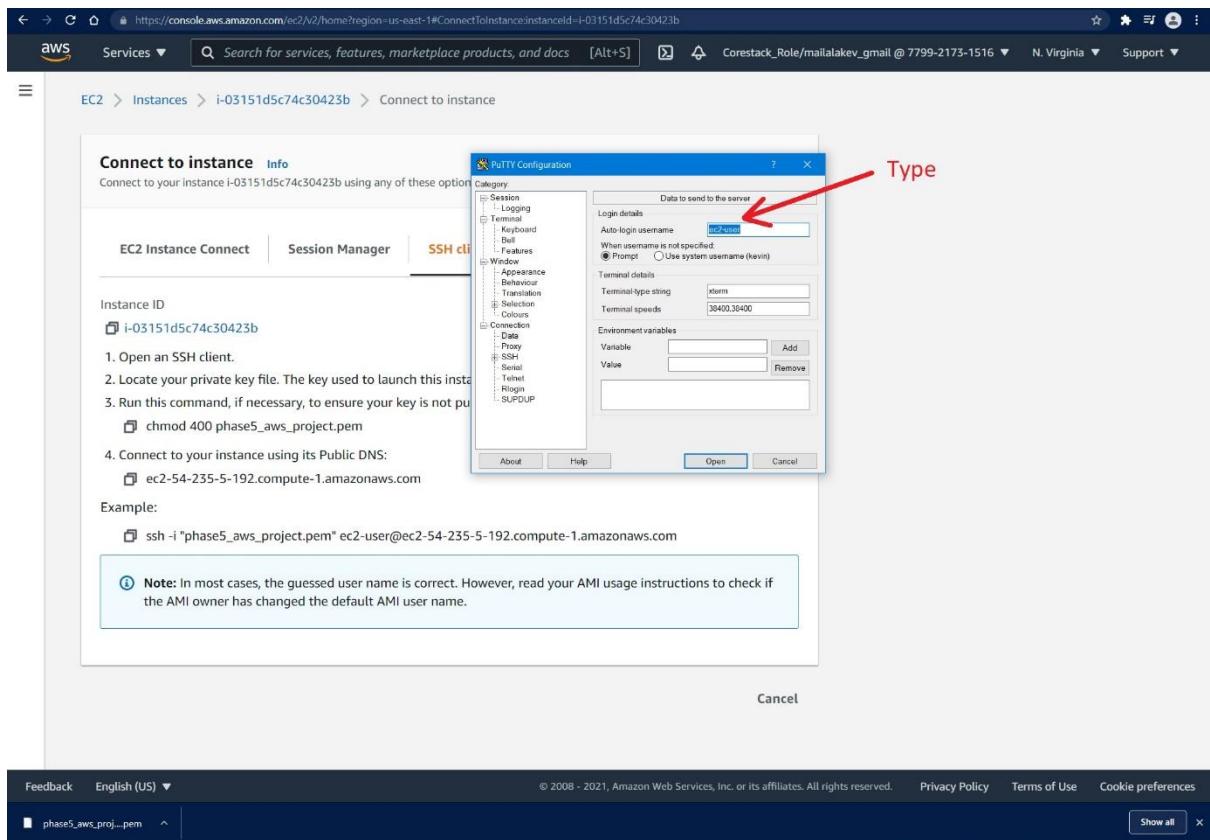
Instance ID i-03151d5c74c30423b

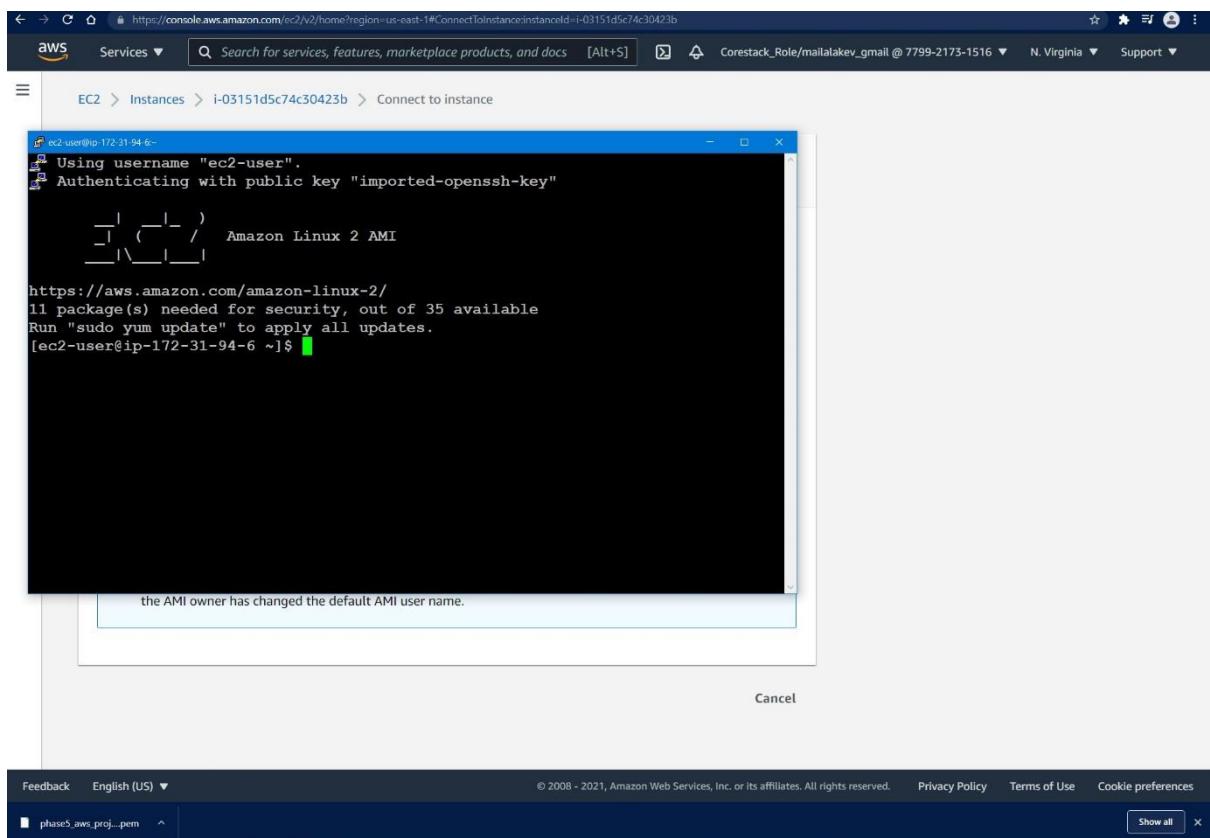
- Open an SSH client.
- Locate your private key file. The key used to launch this instance is phase5_aws_project.pem
- Run this command, if necessary, to ensure your key is not publicly viewable:
chmod 400 phase5_aws_project.pem
- Connect to your instance using its Public DNS:
ec2-54-235-5-192.compute-1.amazonaws.com

Example:
ssh -i "phase5_aws_project.pem" ec2-user@ec2-54-235-5-192.compute-1.amazonaws.com

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.

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Screenshot of the AWS EC2 Instances page showing a single running instance (i-03151d5c74c30423b) in the us-east-1 region. The instance is a t2.micro type, currently initializing. A modal window titled "Select an instance above" is open, prompting the user to choose an instance to perform actions on.

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

Screenshot of the AWS EC2 Instance Details page for the instance i-03151d5c74c30423b. The Public IPv4 address (54.235.5.192) is highlighted with an orange box and an arrow labeled "COPY" pointing to it. The Networking tab is selected.

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

Networking

Public IPv4 address: 54.235.5.192 | Private IPv4 DNS: ip-172-31-94-6.ec2.internal | VPC ID: vpc-0df264bc3671f6ec2 | Subnet ID: subnet-09c3d19313c055a75

Networking details

Public IPv4 address: 54.235.5.192 | Private IPv4 addresses: 172.31.94.6 | VPC ID: vpc-0df264bc3671f6ec2

Screenshot of the AWS EC2 Instances page showing the details for instance i-03151d5c74c30423b. The Networking tab is selected. A Putty Key Generator dialog box is overlaid on the page, prompting for key generation parameters (RSA, 2048 bits). The instance has a Public IPv4 address of 54.235.5.192 and a Private IPv4 DNS of ip-172-31-94-6.ec2.internal.

Screenshot of a Spring-Boot web application running on localhost:9090. The page features a large title "ABHISHEK MALGONDKAR'S SPRING-BOOT Web App" with a 3D pyramid graphic. Below the title, there are two columns of text. The left column discusses the final product stage and the tools used (Eclipse, GitHub, Jenkins, AWS EC2/Virtual machine). The right column describes the environment where the application is hosted and lists development tools (Apache Maven, Java, Spring Boot, MySQL, Tomcat, Jenkins, GitHub, Eclipse, and a Spring-Boot template). At the bottom, a message invites users to contact the developer for requests or upgrades.

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

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

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

- Apache Maven
- Java
- Spring Boot
- MySQL
- Tomcat
- Jenkins
- Github
- Eclipse
- Spring-Boot template

Feel free to contact Abhishek Malgondkar with any new requests or upgrades to this product!

The screenshot shows the AWS Step 7: Review Instance Launch wizard. The main navigation bar includes 'aws Services ▾', a search bar 'Search for services, features, marketplace products, and docs [Alt+S]', and account information 'Corestack_Role/mailalakev@gmail.com @ 7799-2173-1516 ▾ N. Virginia ▾ Support ▾'. Below the navigation, a progress bar shows steps 1 through 7: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review, with step 7 being the active tab.

The 'Instance Type' section shows an i2.micro instance type with 1 vCPU and 1 ECU. The 'Security Groups' section lists a security group named 'launch-wizard-1' with an SSH rule allowing TCP traffic from anywhere. The 'Storage' section shows a root volume of 0.69 GiB using /dev/xvda as the device.

A modal dialog titled 'Select an existing key pair or create a new key pair' is open. It contains instructions about key pairs, a note about adding the selected key pair to authorized keys, and a form to either 'Create a new key pair' (selected) or 'ED25519' (radio button). A 'Key pair name' input field contains 'phase5_aws_project'. A 'Download Key Pair' button is available. A callout message informs the user to store the private key file securely. At the bottom of the dialog are 'Cancel' and 'Launch Instances' buttons.

On the right side of the screen, there are sections for 'Network Performance' (Low to Moderate), 'Edit security groups', 'Edit instance details', 'Edit storage', and 'Encryption' status (Not Encrypted).

At the bottom, there are 'Feedback', 'English (US) ▾', 'Privacy Policy', 'Terms of Use', and 'Cookie preferences' links.

