

CI/CD DEPLOYMENT FOR SPRINGBOOT APPLICATION

The screenshot shows the AWS S3 console with a Spring Boot application jar file named "my-spring-boot-web-aws-exe.jar". The "Object overview" section displays details like Owner, AWS Region, Last modified, Size, Type, and Key. The "Object URL" field is highlighted with a red box and contains the URL: <https://myphaselinebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar>. A red arrow points from this URL to a terminal window at the bottom, which shows the command [root@ip-172-31-94-6 ~]# wget. The terminal window is titled "root@ip-172-31-94-6~".

PG FSD Testing in a DevOps Lifecycle
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FSD Java AWS

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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

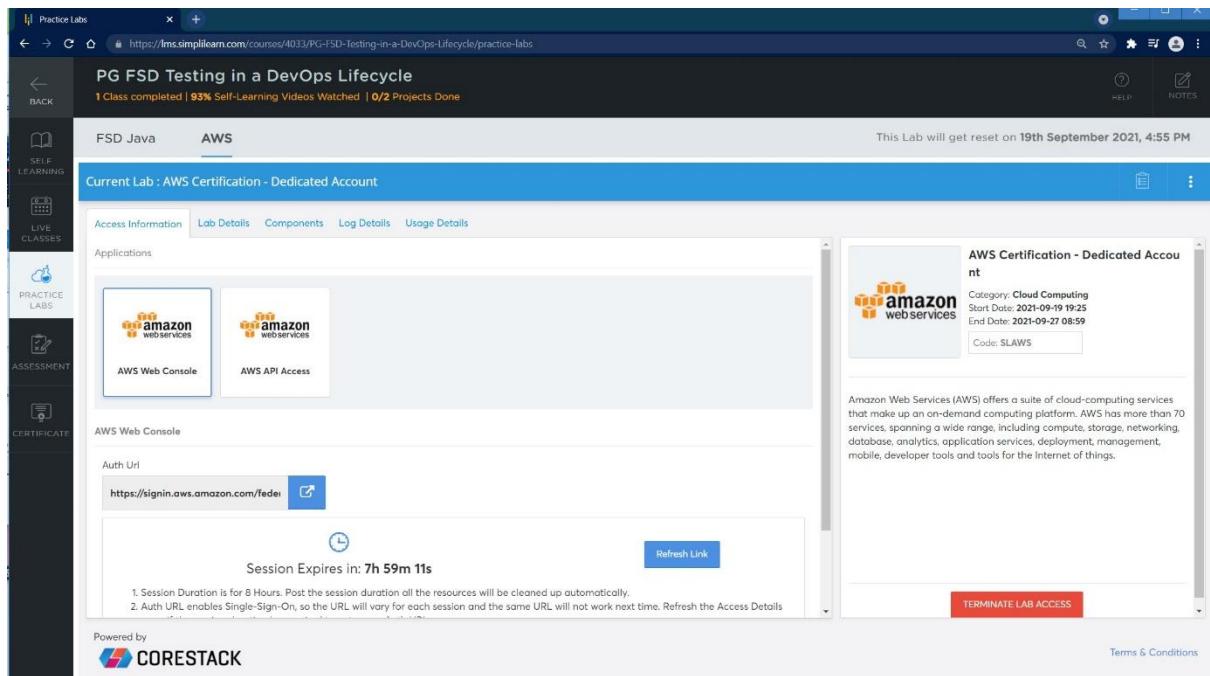
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AWS Certification - Dedicated Account

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

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.

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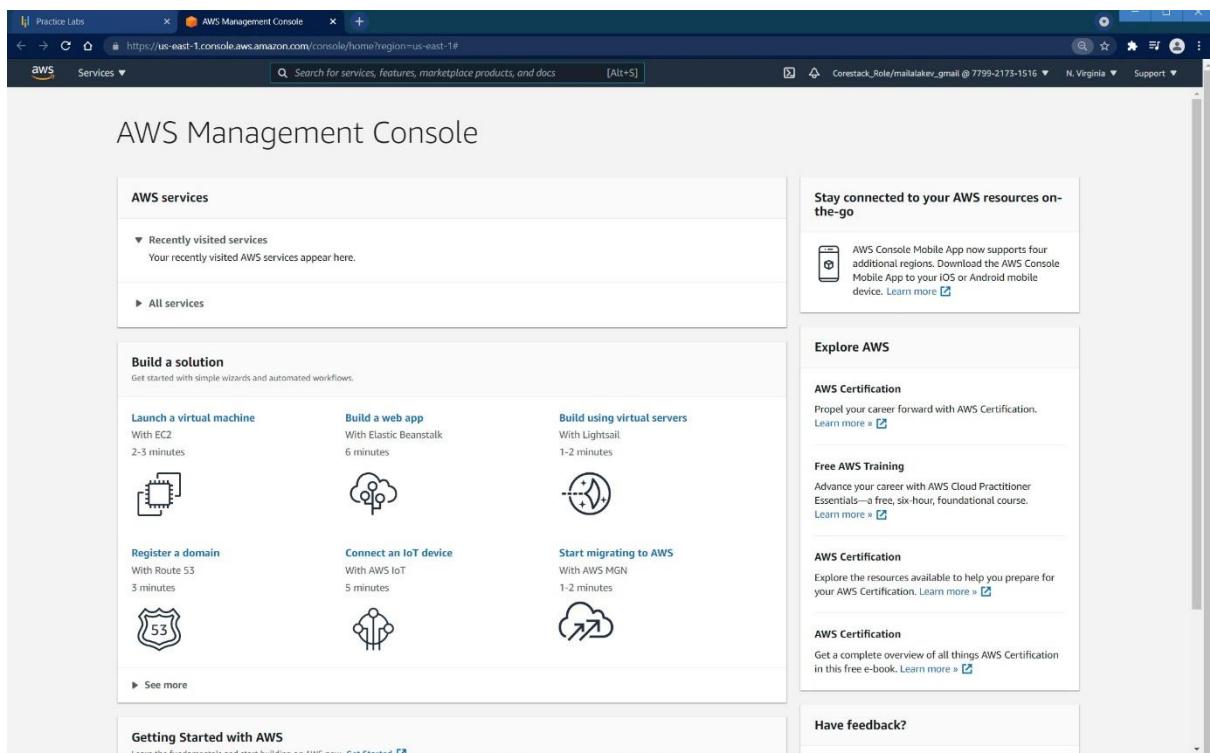
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Creates Executable JAR FILE

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure with files like `index.html`, `application.properties`, and `my-spring-boot-web-aws-exe.jar`.
- Maven Dependencies:** Shows the dependency tree for the project.
- Console:** Displays the Maven build output for `mvn clean package`:


```
2021-09-26 15:34:50.181 [INFO] 14404 --- [main] c.s.w.08SpringBootWebApplicationTests : Starting 08SpringBootWebApplicationTests using Java 11.0.10 on I
2021-09-26 15:34:50.182 [INFO] 14404 --- [main] c.s.w.08SpringBootWebApplicationTests : No active profile set, falling back to default profiles: default
2021-09-26 15:34:50.628 [INFO] 14404 --- [main] o.e.j.u.Container : Logging initialized @10ms to org.eclipse.jetty.util.log.Slf4jLog
2021-09-26 15:34:51.003 [INFO] 14404 --- [main] o.s.w.c.m.MavenBuildContainerMapping : Adding container path /target to [maven-build]
2021-09-26 15:34:51.003 [INFO] 14404 --- [main] c.s.w.08SpringBootWebApplicationTests : Started 08SpringBootWebApplicationTests in 0.082 seconds (JVM running on Java 11.0.10)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.408 s - in com.simplelearn.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

The terminal session on an EC2 instance shows the following steps:

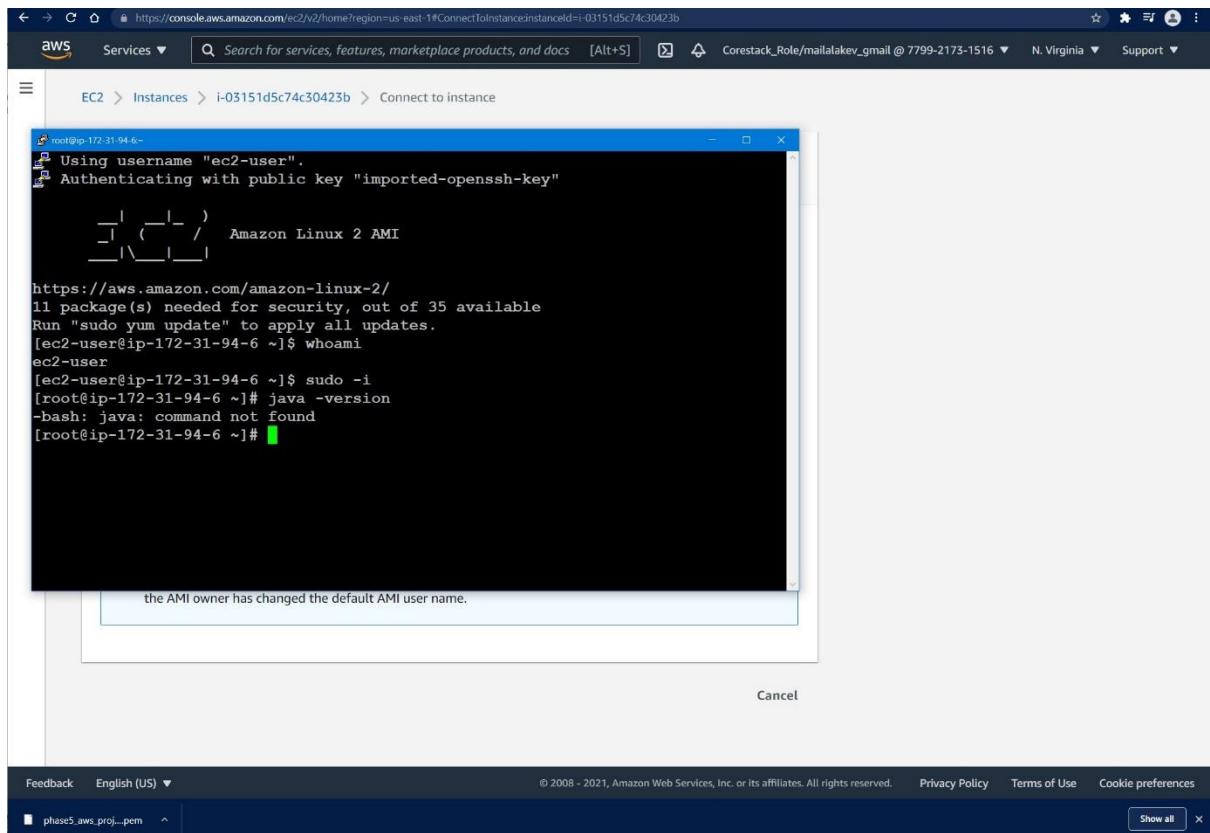
- SSH connection: `ec2-user@ip-172-31-94-6:~\$`
- Login: `login as: ec2-user`
- Authenticating: `Authenticating with public key "imported-openssh-key"`. Last login: Sun Sep 26 22:14:09 2021 from 104-14-74-96.lightspeed.jcsnms.sbcglob.al.net
- File location: `https://aws.amazon.com/amazon-linux-2/`
- Java command: `java -jar my-spring-boot-web-aws-exe.jar`
- Output logs (highlighted in green):


```
2020-06-06 14:14:41.359 INFO 23604 --- [main] c.j.a.a.SpringBootAwsExampleApplication : Starting SpringBootAwsExampleApplication v0.0.1-SNAPSHOT
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 14:14:41.363 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/9.0.44]
2020-06-06 14:14:44.306 INFO 23604 --- [main] o.a.c.c.C.[Tomcat].[localhost].//[] : Initializing Spring embedded WebApplicationContext: initialization completed in 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 context path ''
2020-06-06 14:14:45.665 INFO 23604 --- [main] c.j.a.a.SpringBootAwsExampleApplication : Started SpringBootAwsExampleApplication in 5.119 seconds (JVM running on Java 11.0.10)
```

```
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 named 'aws-ec2-key.ppk' and the public key file is named 'aws-ec2-key.pem'. The public key file is highlighted.

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 named 'aws-ec2-key.ppk' and the public key file is named 'aws-ec2-key.pem'. The public key file is highlighted. A red arrow points from the 'Save private key' button in the Putty dialog to a file named 'aws-ec2-key.pem' in a Windows File Explorer window, indicating where the public key was saved.



```
ec2-user@login: 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 ~]# sudo 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 ~]$ 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

[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          2.9 kB 00:00:00

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%[=====] 85          2.9 kB 00:00:00

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 ~]$ 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

The screenshot shows the AWS S3 console. On the left, there's a sidebar with links like 'Amazon S3', 'Buckets', 'Storage Lens', 'Feature spotlight', and 'AWS Marketplace for S3'. The main area has two notifications at the top: one about improving the S3 console and another about AWS Snow Family. Below that is a section titled 'Amazon S3' with a 'Account snapshot' card. The main feature is a 'Buckets (0)' table with columns for Name, AWS Region, Access, and Creation date. A message says 'No buckets' and 'You don't have any buckets.' with a 'Create bucket' button.

The screenshot shows the bottom navigation bar of the AWS website. It includes links for 'Feedback', 'English (US)', 'Privacy Policy', 'Terms of Use', and 'Cookie preferences'. There's also a 'Show all' link and a small icon for a dropdown menu.

https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1

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

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

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

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](#)

https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1

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

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](#)

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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

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Create bucket

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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](#)

https://s3.console.aws.amazon.com/s3/home?region=us-east-1

Services ▾

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Amazon S3 X

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 3

AWS Marketplace for S3

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

Amazon S3

▶ **Account snapshot**
Storage lens provides visibility into storage usage and activity trends. Learn more ↗ [View Storage Lens dashboard](#)

Buckets (1) Info
Buckets are containers for data stored in S3. [Learn more ↗](#)

[Create bucket](#)

⏪ 1 ⏩ ⏴

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.

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Show all X

phase5_aws_proj...perm

https://s3.console.aws.amazon.com/s3/buckets/myphaselinebucket?region=us-east-1&tab=objects

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Amazon S3 > myphaselinebucket

myphaselinebucket 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](#)

C Copy S3 URI Copy URL Download Open Delete Actions ▾

Create folder Upload

Find objects by prefix

No objects
You don't have any objects in this bucket.

Upload

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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.

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

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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

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☰ **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%)

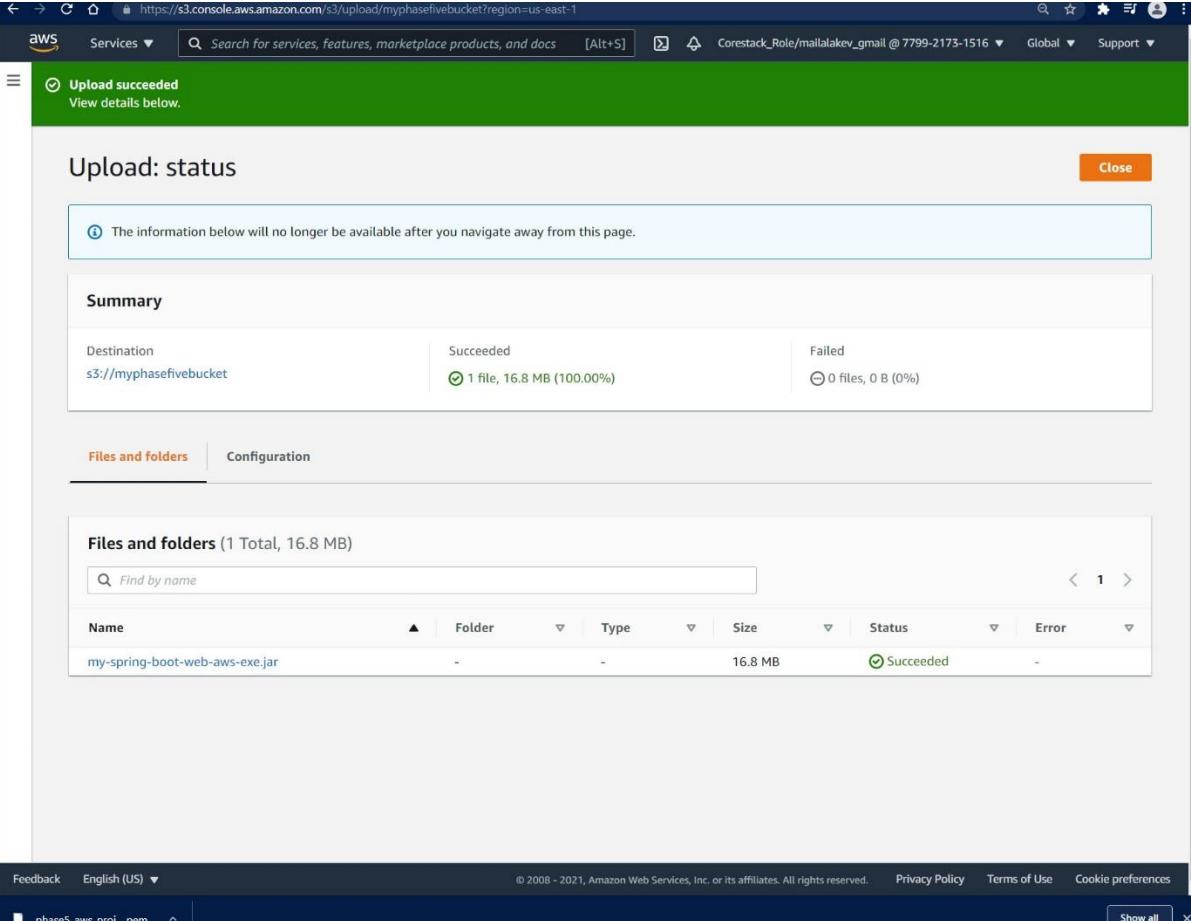
Files and folders Configuration

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

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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](#).

⚠ 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 download process:

```
root@ip-172-31-94-6:~# wget https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar
--2021-09-26 20:15:54-- 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 20:15:54 (41.7 MB/s) - 'my-spring-boot-web-aws-exe.jar' saved [17646207/17646207]
[root@ip-172-31-94-6 ~]#
```

A green arrow points from the terminal output to the text **JAR FILE uploaded to EC2 INSTANCE!**.

Object overview

Properties | Permissions | Versions

Object management over

Bucket properties

Bucket Versioning

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phase5_aws_proj...pem ▾

S3 URI: s3://myphaselinebucket/my-spring-boot-web-aws-exe.jar

Amazon Resource Name (ARN): arn:aws:s3:::myphaselinebucket/my-spring-boot-web-aws-exe.jar

Entity tag (Etag): cf1df45c09ce875e3ebba910bb8b49-2

Object URL: https://myphaselinebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar

```

root@ip-172-31-94-6:~# ... 52.217.93.196
Connecting to myphaselinebucket.s3.amazonaws.com (myphaselinebucket.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!

```

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.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review Cancel and Exit

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

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Free tier eligible

Amazon Linux 2 AMI (HVM, SSD Volume Type) - ami-087c17d1fe0178315 (64-bit x86) / ami-029c64b3c205e6cce (64-bit Arm)

Select 64-bit (x86) 64-bit (Arm)

macOS Big Sur 11.6 - ami-0355f1ed5537c0368

Select 64-bit (Mac)

macOS Catalina 10.15.7 - ami-0ae0b6d49088fc747

Select 64-bit (Mac)

macOS Mojave 10.14.6 - ami-07279d867534aacb6

Select 64-bit (Mac)

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>

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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 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

<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

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

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

Storage

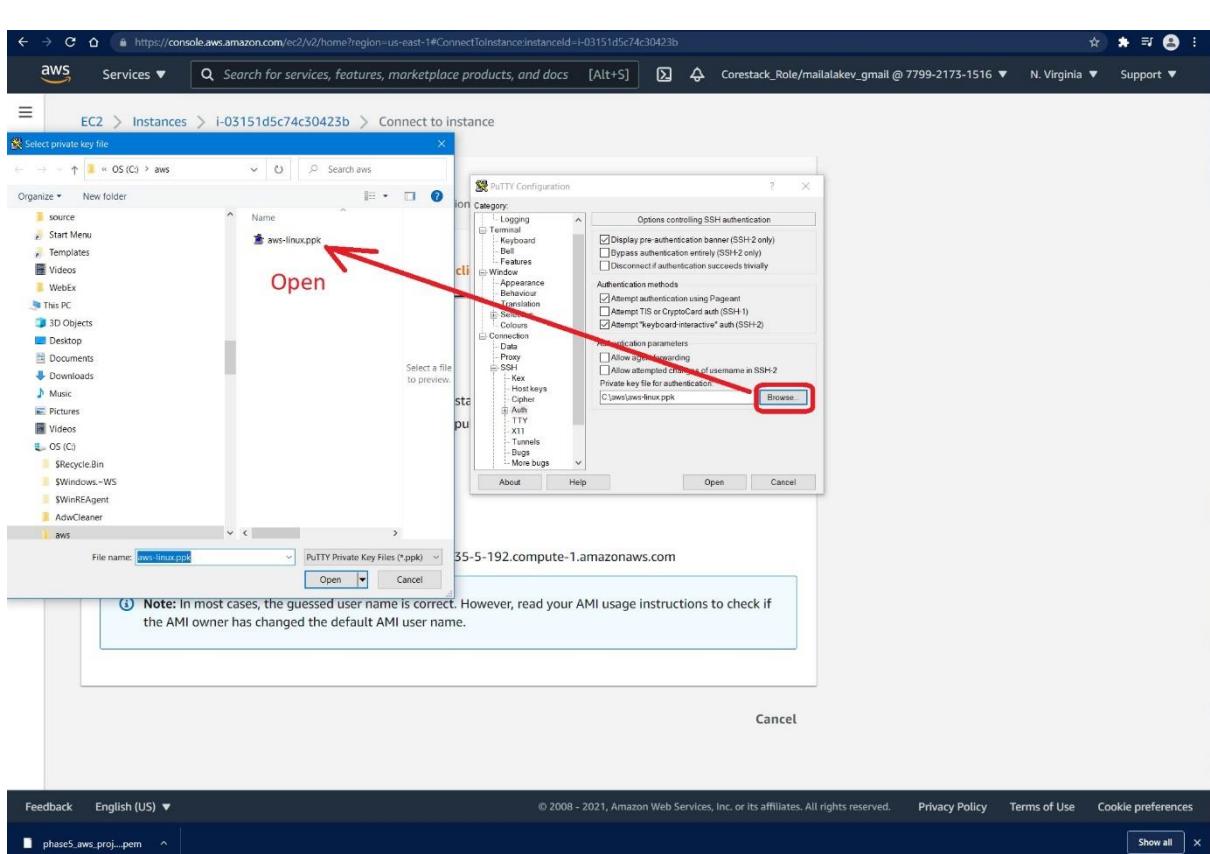
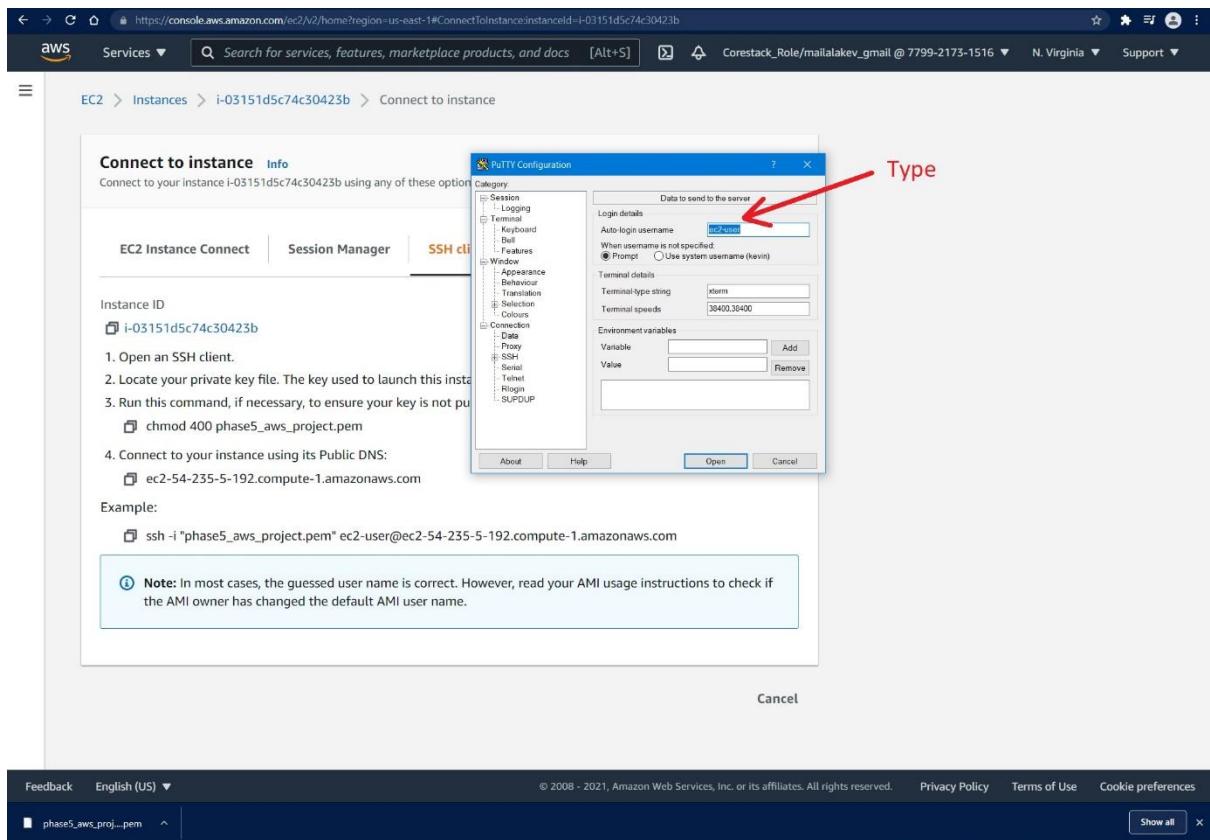
Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-0699a041095ac5492	8	gp2	100 / 3000	N/A	Yes	Not Encrypted

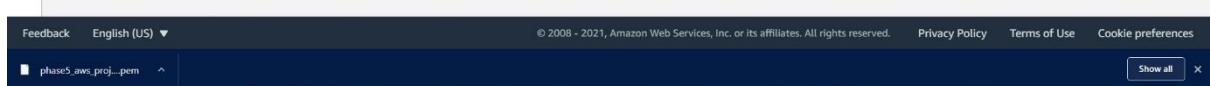
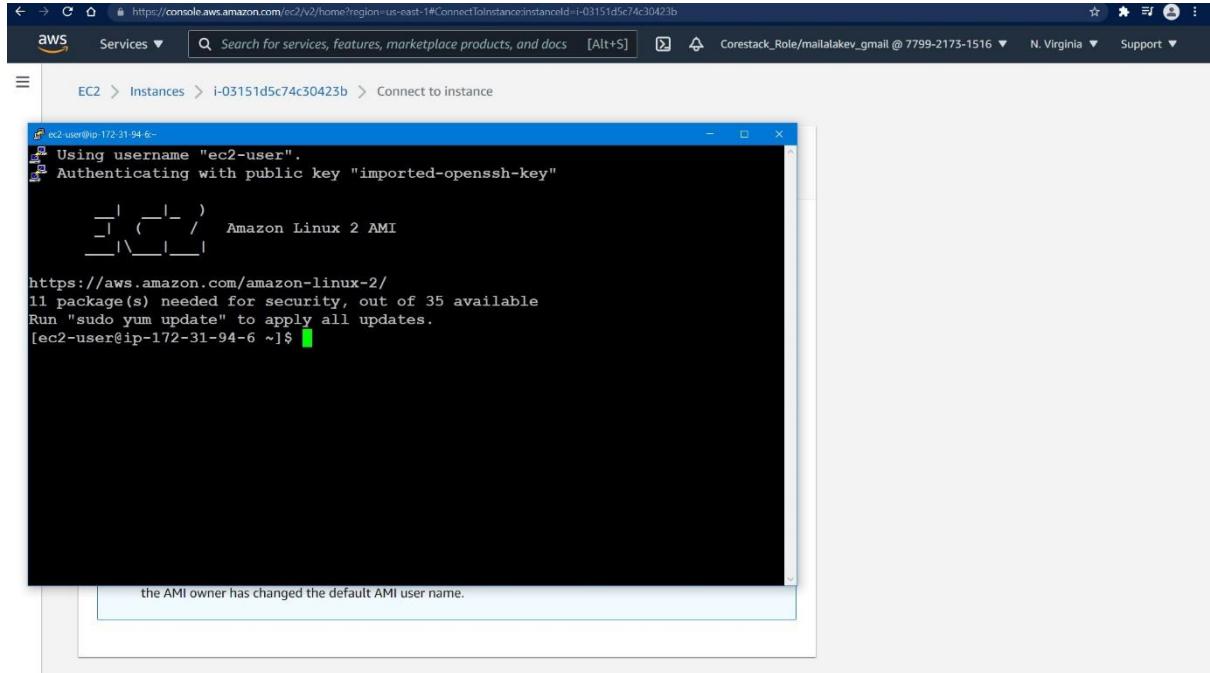
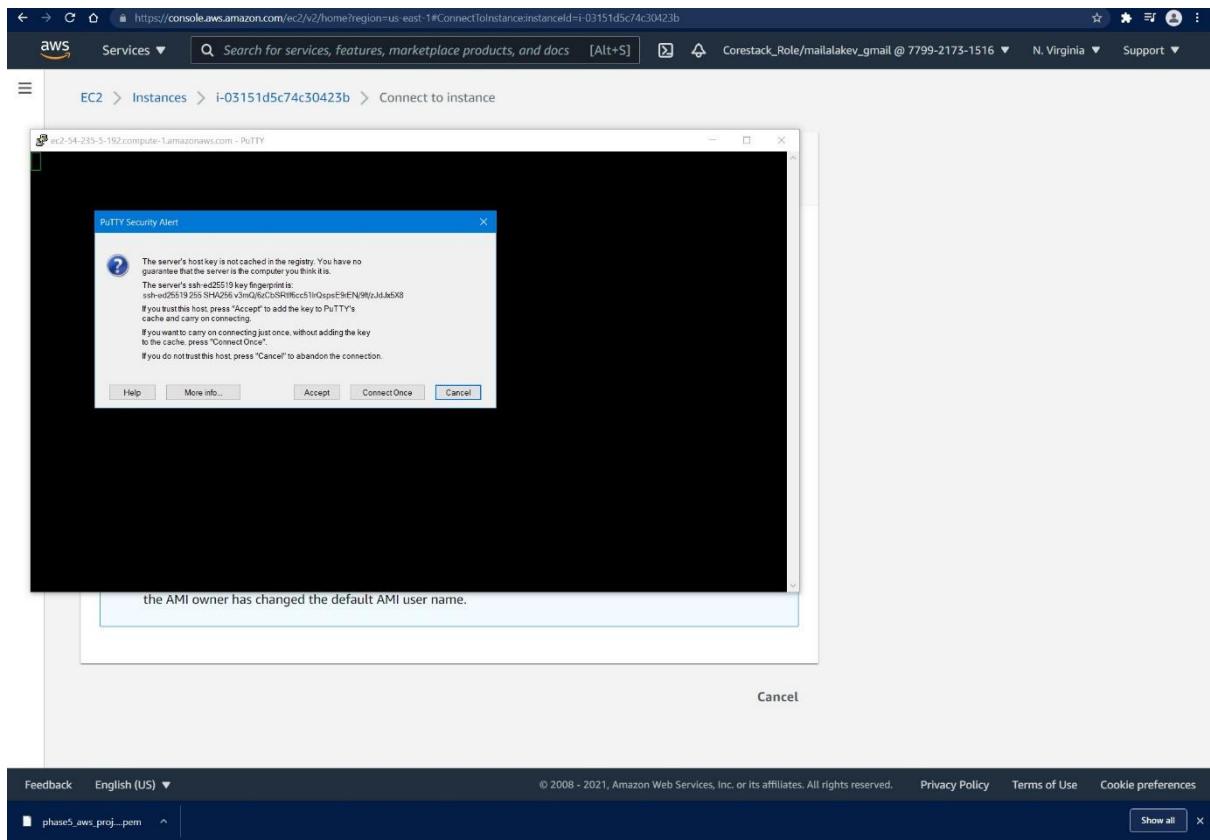
Tags

Cancel Previous Launch

Screenshot of the AWS EC2 Connect to instance page. The SSH client tab is selected. The page shows instructions for connecting via SSH, including the instance ID (i-03151d5c74c30423b), private key file (phase5_aws_project.pem), and public DNS (ec2-54-235-5-192.compute-1.amazonaws.com). A note at the bottom states: "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 to the "ssh -i phase5_aws_project.pem ec2-user@ec2-54-235-5-192.compute-1.amazonaws.com" command.

Screenshot of the AWS EC2 Connect to instance page. The SSH client tab is selected. The page shows instructions for connecting via SSH, including the instance ID (i-03151d5c74c30423b), private key file (phase5_aws_project.pem), and public DNS (ec2-54-235-5-192.compute-1.amazonaws.com). A red arrow points to the "ssh -i phase5_aws_project.pem ec2-user@ec2-54-235-5-192.compute-1.amazonaws.com" command. A PuTTY Configuration window is overlaid on the page, showing the session settings for connecting to the instance. The "Host Name (or IP address)" field is set to "ec2-54-235-5-192.compute-1.amazonaws" and the "Port" field is set to "22". The "Connection type" is set to "SSH". A red arrow labeled "Paste" points to the "Host Name (or IP address)" field.





Launch Status



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Initiating Instance Launches
Please do not close your browser while this is loading

Creating security groups... Successful
Authorizing inbound rules... Successful
Initiating launches...

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Launch Status



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>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](#)

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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 i-03151d5c74c30423b	Public IPv4 address 54.235.5.192 open address	Private IPv4 addresses 172.31.94.6
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-54-235-5-192.compute-1.amazonaws.com open address
Private IPv4 DNS ip-172-31-94-6.ec2.internal	Instance type t2.micro	Elastic IP addresses -
VPC ID vpc-0df264bc3671f6ec2	AWS Compute Optimizer finding User: arn:aws:sts::779921731516:assumed-role/Corestack_Role/malalakev_gmail is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * with an explicit deny	IAM Role -
Subnet ID subnet-09c3d19513c035a75	Retry	

Details Security Networking Storage Status checks Monitoring Tags

Instance details

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

Termination protection
Disabled

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Instance summary for i-03151d5c74c30423b

Public IPv4 address: 54.235.5.192 | open address

COPY

Putty Key Generator

File Key Conversions Help

Key No key.

Actions

Generate a public-private key pair

I have an existing private key file

Save the generated key

Save public key Save private key

Parameters

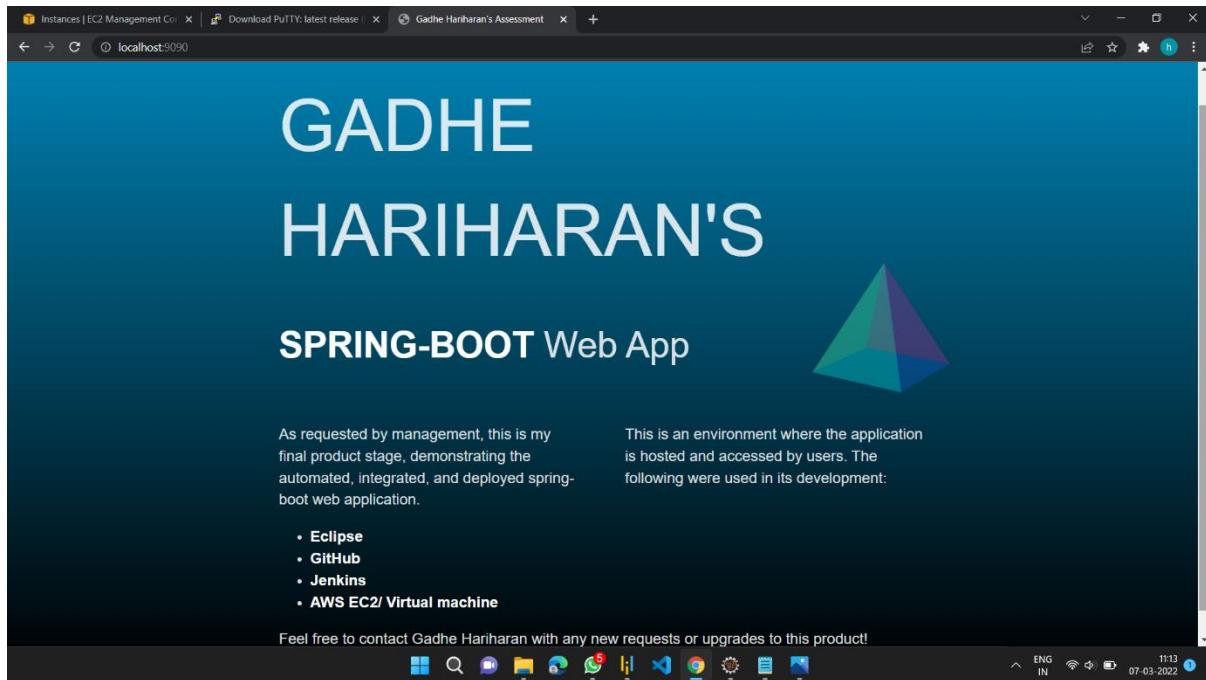
Algorithm:

RSA DSS EdDSA SSH-1 (RSA) 2048

Number of bits in a generated key:

2048

Public IPv4 address: 54.235.5.192



```
Markers Properties Servers Data Source Explorer Snippets Console Call Hierarchy Terminal History
my-spring-boot-web [Maven Build] C:\Program Files\AdoptOpenJDK\jdk-11.0.10+9-hotspot\bin\javaw.exe (Sep 26, 2021, 14:51:19 PM)
[INFO] Building my-spring-boot-web 1.0
[INFO] [jar]
[INFO] >>> spring-boot-maven-plugin:2.5.5:run (default-cli) > test-compile @ my-spring-boot-web >>>
[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: []
[INFO]

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:: Spring Boot :: (v2.5.5)
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2021-09-26 13:45:21.999 INFO 12132 --- [main] com.simplilearn.workshop.MyApplication : Starting MyApplication using Java 11.0.10 on DESKTOP-6RFP1TP 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] o.s.b.w.e.j.JettyServerWebServerFactory : Server initialized with port: 8080
2021-09-26 13:45:22.447 INFO 12132 --- [main] org.eclipse.jetty.server.Server : jetty-9.4.43.v20210629; built: 2021-06-30T11:07:22.254Z; git: 526006ecfa3af7f1a27ef3a288e2bef7ea9dd7e8; jvm: 11.0.10+9-hotspot
2021-09-26 13:45:22.468 INFO 12132 --- [main] o.e.j.s.h.ContextHandler.application : Initializing Spring embedded WebApplicationContext
2021-09-26 13:45:22.469 INFO 12132 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 438 ms
2021-09-26 13:45:22.493 INFO 12132 --- [main] org.eclipse.jetty.server.session : DefaultSessionIdManager workerName=node0
2021-09-26 13:45:22.494 INFO 12132 --- [main] org.eclipse.jetty.server.session : No SessionScavenger set, using defaults
2021-09-26 13:45:22.500 INFO 12132 --- [main] org.eclipse.jetty.server.session : node0 Scavenging every 660000ms
2021-09-26 13:45:22.590 INFO 12132 --- [main] o.e.j.s.handler.ContextHandler : Started @920ms
2021-09-26 13:45:22.598 INFO 12132 --- [main] o.e.j.s.w.s.WebAppContext : Adding welcome page: class path resource [public/index.html]
2021-09-26 13:45:22.621 INFO 12132 --- [main] o.e.j.s.h.ContextHandler.application : 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.jetty.server.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)
```

Screenshot of the AWS CloudFormation Step 7: Review Instance Launch page. A modal window titled "Select an existing key pair or create a new key pair" is open. The modal contains instructions about key pairs, a note about removing existing keys, and fields for creating a new key pair: "Key pair type" (RSA selected), "Key pair name" (phase5_aws_project), and a "Download Key Pair" button. A tooltip message says: "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." Below the modal are "Cancel" and "Launch Instances" buttons.

Screenshot of the AWS CloudFormation Step 7: Review Instance Launch page. A modal window titled "Select an existing key pair or create a new key pair" is open. The modal contains instructions about key pairs, a note about removing existing keys, and fields for creating a new key pair: "Key pair type" (RSA selected), "Key pair name" (phase5_aws_project), and a "Download Key Pair" button. A tooltip message says: "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." Below the modal are "Cancel" and "Launch Instances" buttons. To the right of the modal, a Windows File Explorer window shows a file named "phase5_aws_project.pem" in the "aws" folder on the C:\ drive. A red arrow points from the "Launch Instances" button to the file in the file explorer.