

CI/CD DEPLOYMENT FOR SPRINGBOOT APPLICATION

The screenshot shows the AWS S3 console interface. A red box highlights the 'Object URL' field, which contains the HTTPS link: <https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar>. A red arrow points from this URL to a terminal window below, indicating where the URL should be pasted into the wget command.

Object overview

Owner	S3 URI
claaslabs+5f3425062d11de6d6706a89f	s3://myphasefivebucket/my-spring-boot-web-aws-exe.jar

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 management overview

The following bucket properties and object management features are available:

- Bucket properties
- Bucket Versioning
- Feedback
- English (US)

Object actions

Copy S3 URI, Download, Open, Object actions ▾

Properties, Permissions, Versions

Object URL

<https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar>

Paste

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

PG FSD Testing in a DevOps Lifecycle
1 Class completed | 93% Self-Learning Videos Watched | 0/2 Projects Done

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

Powered by CORESTACK Terms & Conditions

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.

TERMINATE LAB ACCESS

Practice Labs AWS Management Console

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

Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

Corestack_Role/mailatakev_gmail @ 7799-2173-1516 N. Virginia Support

AWS Management Console

AWS services

Recently visited services Your recently visited AWS services appear here.

All services

Build a solution Get started with simple wizards and automated workflows.

Launch a virtual machine With EC2 2-5 minutes 

Build a web app With Elastic Beanstalk 6 minutes 

Build using virtual servers With Lightsail 1-2 minutes 

Register a domain With Route 53 3 minutes 

Connect an IoT device With AWS IoT 5 minutes 

Start migrating to AWS With AWS MGN 1-2 minutes 

See more

Stay connected to your AWS resources on-the-go

AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. Learn more

Explore AWS

AWS Certification Propel your career forward with AWS Certification. Learn more

Free AWS Training Advance your career with AWS Cloud Practitioner Essentials—a free, six-hour, foundational course. Learn more

AWS Certification Explore the resources available to help you prepare for your AWS Certification. Learn more

AWS Certification Get a complete overview of all things AWS Certification in this free e-book. Learn more

Have feedback?

Eclipse IDE - my spring boot web/pom.xml

Creates Executable JAR FILE

```

<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.5.5</version>
    <relativePath/> -- local repository (.m2) / remote repository (www.mvnrepository.com) --
</parent>
<dependencies>
    <dependency>
        <groupId>com.simplilearn.workshop</groupId>
        <artifactId>my-spring-boot-web</artifactId>
        <version>1.0</version>
        <description>Kevin Casyaypos; SimplilearnPhase-5-Assessment</description>
    </dependency>
</dependencies>
<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>

```

```

2021-09-26 15:34:50.182 [INFO] 14404 --- [main] c.s.u.08SpringBootWebApplicationTests : Starting 08SpringBootWebApplicationTests using Java 11.0.10 on I
2021-09-26 15:34:50.628 [INFO] 14404 --- [main] c.s.u.08SpringBootWebApplicationTests : No active profile set, falling back to default profiles: default
2021-09-26 15:34:50.628 [INFO] 14404 --- [main] o.s.b.a.e.ServletContextInitializerWapping : Loading initialred @0.0.1-SNAPSHOT to org.eclipse.jetty.j
2021-09-26 15:34:51.005 [INFO] 14404 --- [main] c.s.u.08SpringBootWebApplicationTests : Started 08SpringBootWebApplicationTests in 0.982 seconds (JVM ru
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.468 s - com.simplilearn.workshop.08SpringBootWebApplicationTests
[INFO] 
[INFO] Results:
[INFO] 
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] 
[INFO] [INFO] --- maven-jar-plugin:3.2.0:jar (@default-jar) @ my-spring-boot-web ---
[INFO] --- spring-boot-maven-plugin:2.5.5:repackage (repackage) @ my-spring-boot-web ---
[INFO] Replacing main artifact with repackaged archive
[INFO] 
[INFO] BUILD SUCCESS
[INFO] 
[INFO] Total time: 4.44s
[INFO] Finished at: 2021-09-26T15:34:52.058Z
[INFO]

```

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

Now running my Spring-Boot App on EC2 instance

```

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

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

Amazon Linux 2 AMI

Spring Boot :: (v2.5.0.RELEASE)

2020-06-06 14:14:41.359 [INFO] 23604 --- [main] c.j.a.a.SpringBootAwsExampleApplication : Starting SpringBootAwsExampleApplication v0.
on ip-172-31-43-97 with PID 23604 (/home/ec2-user/spring-boot-aws-exe.jar started by ec2-user in /home/ec2-user)
2020-06-06 14:14:41.363 [INFO] 23604 --- [main] c.j.a.a.SpringBootAwsExampleApplication : No active profile set, falling back to defau
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].l[localhost.1/] : Initializing Spring embedded WebApplicationC
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: 'applicationTa
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
""

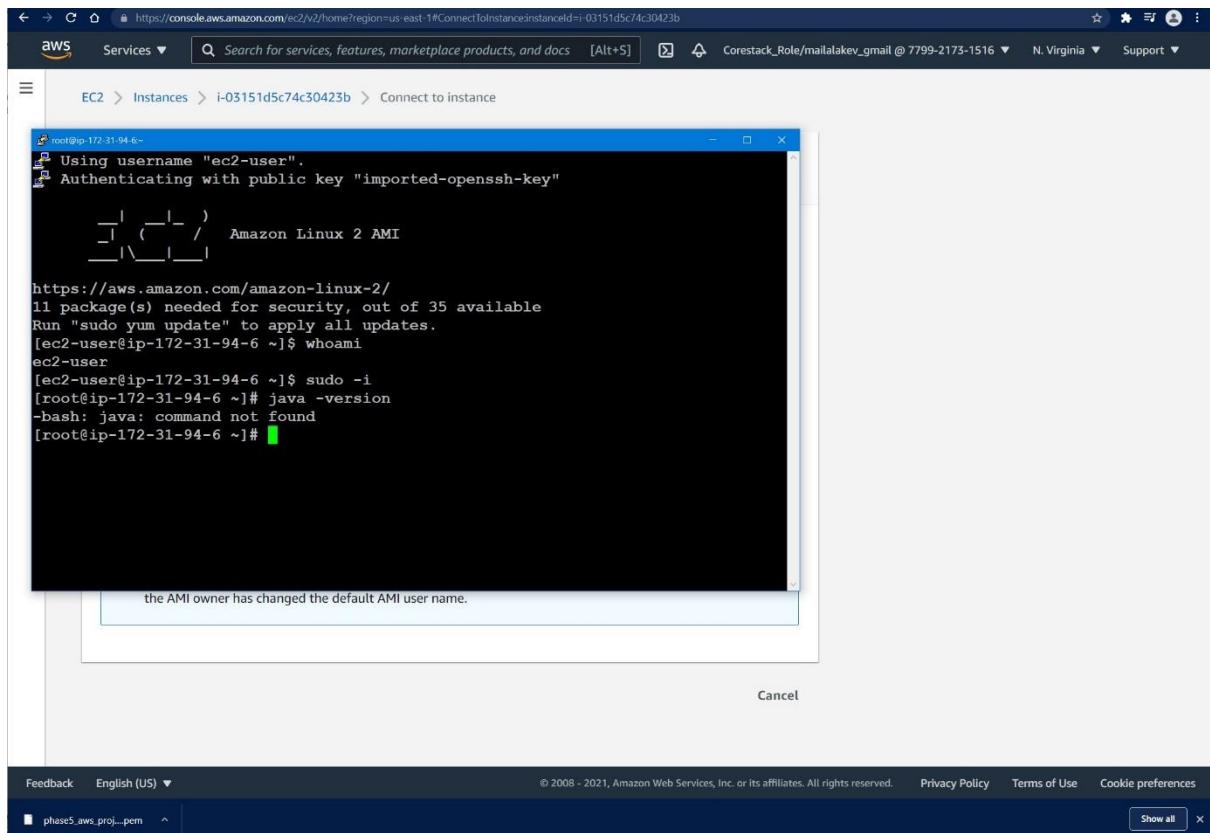
2020-06-06 14:14:45.665 [INFO] 23604 --- [main] c.j.a.a.SpringBootAwsExampleApplication : Started SpringBootAwsExampleApplication in 5

```

```
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) --&gt;
10    &lt;/parent&gt;
11    &lt;groupId&gt;com.simplilearn.workshop&lt;/groupId&gt;
12    &lt;artifactId&gt;my-spring-boot-web&lt;/artifactId&gt;
13    &lt;version&gt;1.0&lt;/version&gt;
14    &lt;name&gt;my-spring-boot-web&lt;/name&gt;
15    &lt;description&gt;Kevin Casey's SimpliLearnPhase-5 Assessment&lt;/description&gt;
16    &lt;properties&gt;
17      &lt;java.version&gt;11&lt;/java.version&gt;
18    &lt;/properties&gt;
19    &lt;dependencies&gt;
20      &lt;dependency&gt;
21        &lt;groupId&gt;org.springframework.boot&lt;/groupId&gt;
22        &lt;artifactId&gt;spring-boot-starter-web&lt;/artifactId&gt;
23        &lt;exclusions&gt;
24          &lt;exclusion&gt;
25            &lt;groupId&gt;org.springframework.boot&lt;/groupId&gt;
26            &lt;artifactId&gt;spring-boot-starter-tomcat&lt;/artifactId&gt;
27          &lt;/exclusion&gt;
28        &lt;/exclusions&gt;
29      &lt;/dependency&gt;
30
31      &lt;dependency&gt;
32        &lt;groupId&gt;org.springframework.boot&lt;/groupId&gt;
33        &lt;artifactId&gt;spring-boot-starter-jetty&lt;/artifactId&gt;
34      &lt;/dependency&gt;
35
36      &lt;dependency&gt;
37        &lt;groupId&gt;org.springframework.boot&lt;/groupId&gt;
38        &lt;artifactId&gt;spring-boot-starter-test&lt;/artifactId&gt;
39        &lt;scope&gt;test&lt;/scope&gt;
40      &lt;/dependency&gt;
41    &lt;/dependencies&gt;
42
43    &lt;build&gt;
44      &lt;plugins&gt;
45        &lt;plugin&gt;
46          &lt;groupId&gt;org.springframework.boot&lt;/groupId&gt;
47          &lt;artifactId&gt;spring-boot-maven-plugin&lt;/artifactId&gt;
48        &lt;/plugin&gt;
49      &lt;/plugins&gt;
50    &lt;/build&gt;
51
52  &lt;/project&gt;
53</pre>
```

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 key pair. The Public IPv4 address is listed as 54.235.5.192.

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 key pair. A file explorer window shows the private key file 'phases1.aws.project.pem' being selected for download. An arrow points from the 'Save private key' button in the Putty dialog to the file in the file explorer.



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

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:/home/ec2-user
[ec2-user@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
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:~$ 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 for Buckets, Storage Lens, and Feature spotlight. The main area has a banner at the top with two items: one about improving the S3 console and another about AWS Snow Family. Below the banner, there's a section titled "Amazon S3" with a "Bucket snapshot" card. The main content area is titled "Buckets (0)" and includes a search bar, a "Create bucket" button, and a message stating "No buckets". A note below says "You don't have any buckets." and there's a "Create bucket" button.

Screenshot of the AWS S3 Create Bucket page. The URL is https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1. The page shows the 'General configuration' section where a bucket name 'myawsbucket' is entered. The 'AWS Region' is set to 'US East (N. Virginia) us-east-1'. A note about 'Copy settings from existing bucket - optional' is present. The 'Block Public Access settings for this bucket' section has a checked checkbox for 'Block all public access'. The right sidebar contains information about buckets and links to 'Learn more', 'Creating a bucket', 'Buckets overview', and 'Restrictions and limitations'.

Screenshot of the AWS S3 Create Bucket page. The URL is https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1. The left sidebar shows the 'Buckets' section with 'Access Points', 'Object Lambda Access Points', 'Multi-Region Access Points', 'Batch Operations', and 'Access analyzer for S3'. It also includes 'Block Public Access settings for this account', 'Storage Lens' (with 'Dashboards' and 'AWS Organizations settings'), 'Feature spotlight', and 'AWS Marketplace for S3'. The main content area is identical to the first screenshot, showing the 'General configuration' and 'Block Public Access settings for this bucket' sections.

Amazon S3

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

Buckets

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](#)

Find buckets by name

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)

Feedback English (US) ▾

© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.

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.

Privacy Policy Terms of Use Cookie preferences

Show all

The screenshot shows the AWS S3 console interface. A green banner at the top indicates that a new bucket named "myphasefivebucket" has been successfully created. Below this, there's a section for an "Account snapshot" which provides visibility into storage usage and activity trends. The main area displays a table of buckets, showing one entry: "myphasefivebucket" located in the US East (N. Virginia) region, created on September 26, 2021, at 15:28:05 UTC-05:00. The bucket is set to be public. On the left sidebar, there are links for "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" (which is expanded to show "Dashboards" and "AWS Organizations settings"), and "Feature spotlight". At the bottom, there are links for "Feedback", "English (US)", "Privacy Policy", "Terms of Use", "Cookie preferences", and a "Show all" button.

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

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

Amazon S3 > myphasefivebucket

myphasefivebucket Info

Objects Properties Permissions Metrics Management Access Points

Objects (0)

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

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

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

Find objects by prefix

Name Type Last modified Size Storage class

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

[Upload](#)

Objects

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

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

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

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

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

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

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

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

Amazon S3 > myphaselinebucket > Upload

Upload Info

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

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

Files and folders (1 Total, 16.8 MB)
All files and folders in this table will be uploaded.

<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**

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

Upload

Upload one or more objects (files and folders) to the destination bucket. Drag and drop files and folders into the box, or choose Add files or Add folders.

To upload objects larger than 160 GB, use the AWS CLI, SDK, or REST API.

Additional upload options

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

Learn more ↗

Uploading objects
Working with objects
Objects overview

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

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%)

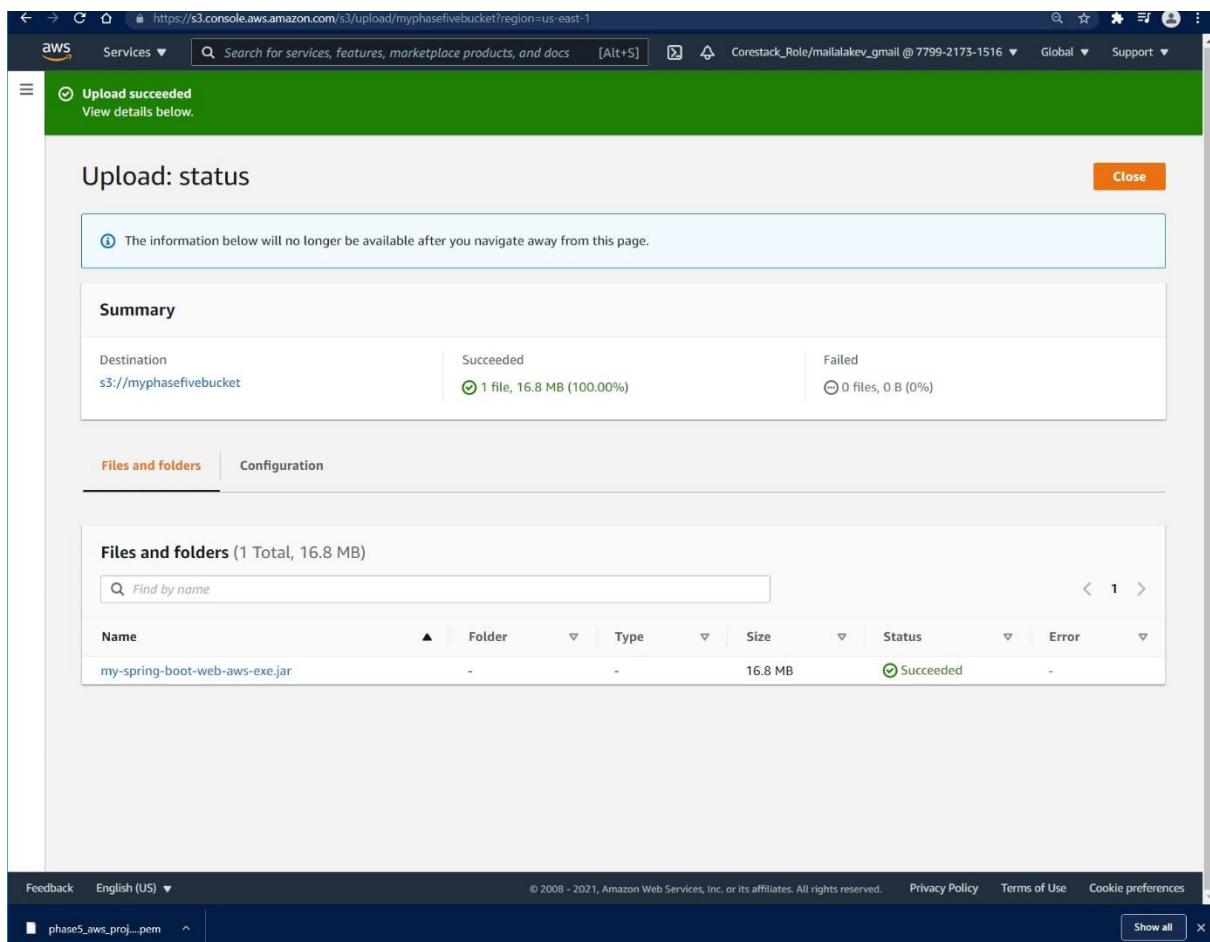
Files and folders Configuration

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	-

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 ×



← → 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.

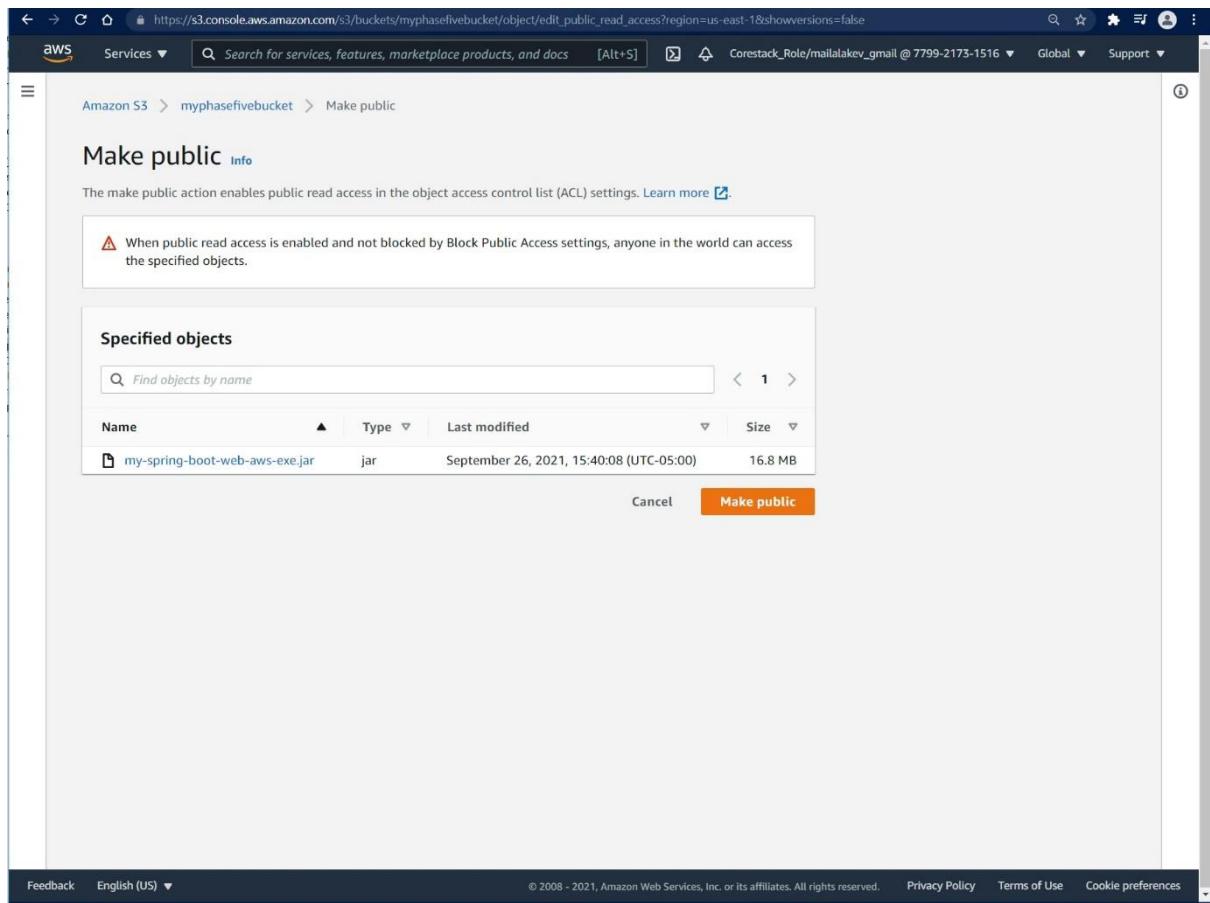
Specified objects

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

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



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

Object overview:

- Owner: claaslabs+5f3425062d11de6d6706a89f
- AWS Region: US East (N. Virginia) us-east-1
- Last modified: September 26, 2021, 15:40:08 (UTC-05:00)
- Size: 16.8 MB
- Type: jar
- Key: my-spring-boot-web-aws-exe.jar

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

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

Entity tag (Etag): cf1df45c09cece875e3ebba910bb8b49-2

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

Object management overview:

The following bucket properties and object details are shown:

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

Feedback: English (US) ▾

Terminal Output:

```
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]
```

JAR FILE uploaded to EC2 instance!

Object overview

Owner	s3://myphasefivebucket/my-spring-boot-web-aws-exe.jar
AWS Region	Amazon Resource Name (ARN)
Last modified	arn:aws:s3:::myphasefivebucket/my-spring-boot-web-aws-exe.jar
Size	Entity tag (Etag)
Type	16.8 MB
jar	Object URL
Key	https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar

```

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!

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	Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-087c17d1fe0178315 (64-bit x86) / ami-029c64b3c205e6cce (64-bit Arm)	Select
AWS Marketplace	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.	<input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm)
Community AMIs	macOS Big Sur 11.6 - ami-0355f1ed5537c0368	Select
Free tier only	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.	64-bit (Mac)
	macOS Catalina 10.15.7 - ami-0ae0b6d49088fc747	Select
	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.	64-bit (Mac)
	macOS Mojave 10.14.6 - ami-07279d867534acb6	Select
	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.	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.

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

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Instance Details](#)

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

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) Create new VPC
Subnet	No preference (default subnet in any Availability Zone) Create new subnet
Auto-assign Public IP	Use subnet setting (Enable)
Placement group	<input type="checkbox"/> Add instance to placement group
Capacity Reservation	Open
Domain join directory	No directory Create new directory
IAM role	None Create new IAM role
Shutdown behavior	Stop
Stop - Hibernate behavior	<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

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

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

<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 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

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

<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 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

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

<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

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

<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 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

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

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

Connect to instance Info

Connect to your instance i-03151d5c74c30423b using any of these options

EC2 Instance Connect | Session Manager | **SSH client** | EC2 Serial Console

Instance ID
i-03151d5c74c30423b

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is phase5_aws_project.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.

4. Connect to your instance using its Public DNS:

Example:

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.

Cancel

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

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

Connect to instance Info

Connect to your instance i-03151d5c74c30423b using any of these options

EC2 Instance Connect | Session Manager | **SSH client**

Instance ID
i-03151d5c74c30423b

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is phase5_aws_project.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.

4. Connect to your instance using its Public DNS:

Example:

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.

Putty Configuration

Category: Session

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address): Port:

Connection type: SSH Serial Other Telnet

Load, save or delete a saved session

Saved Sessions: Default Settings

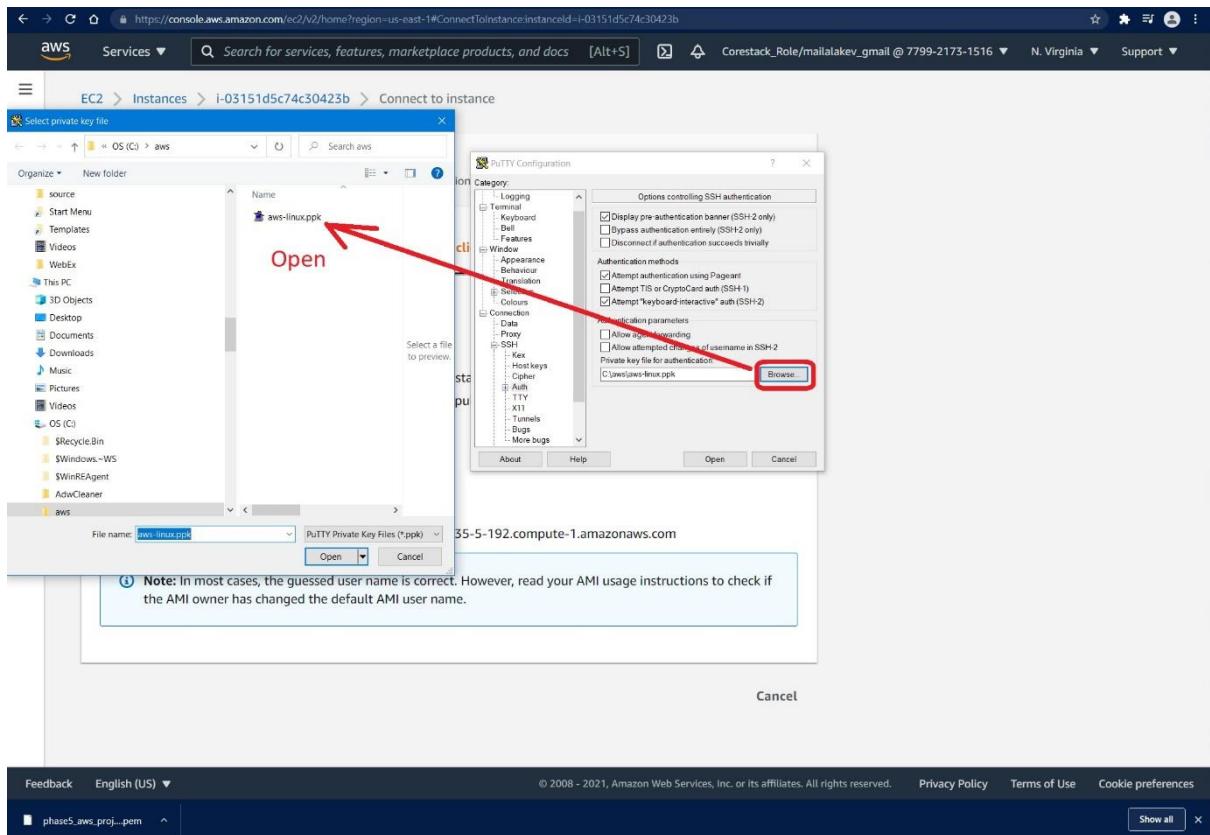
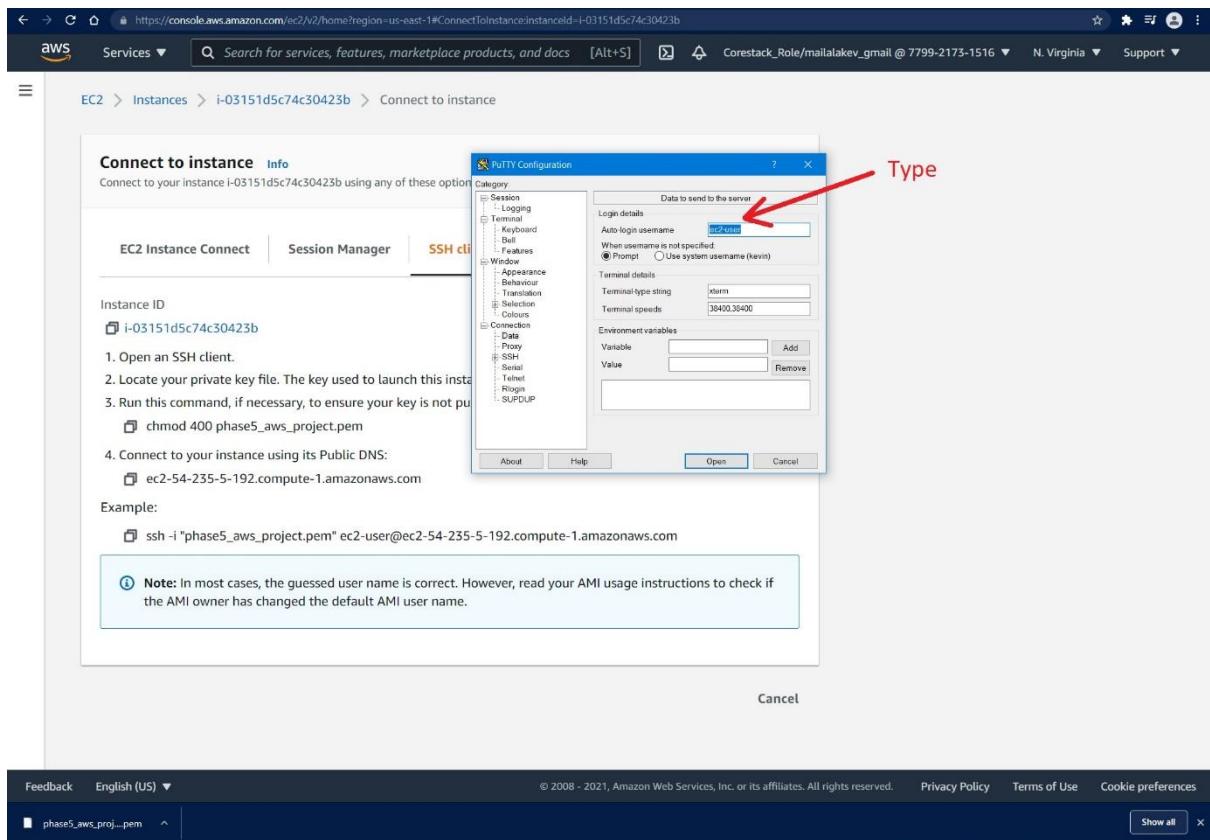
Close window on exit: Always Never Only on clean exit

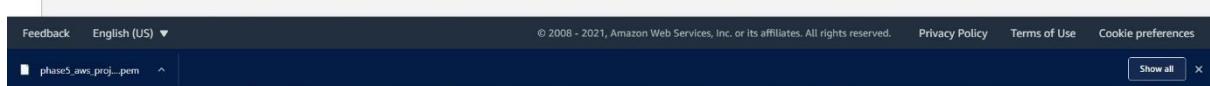
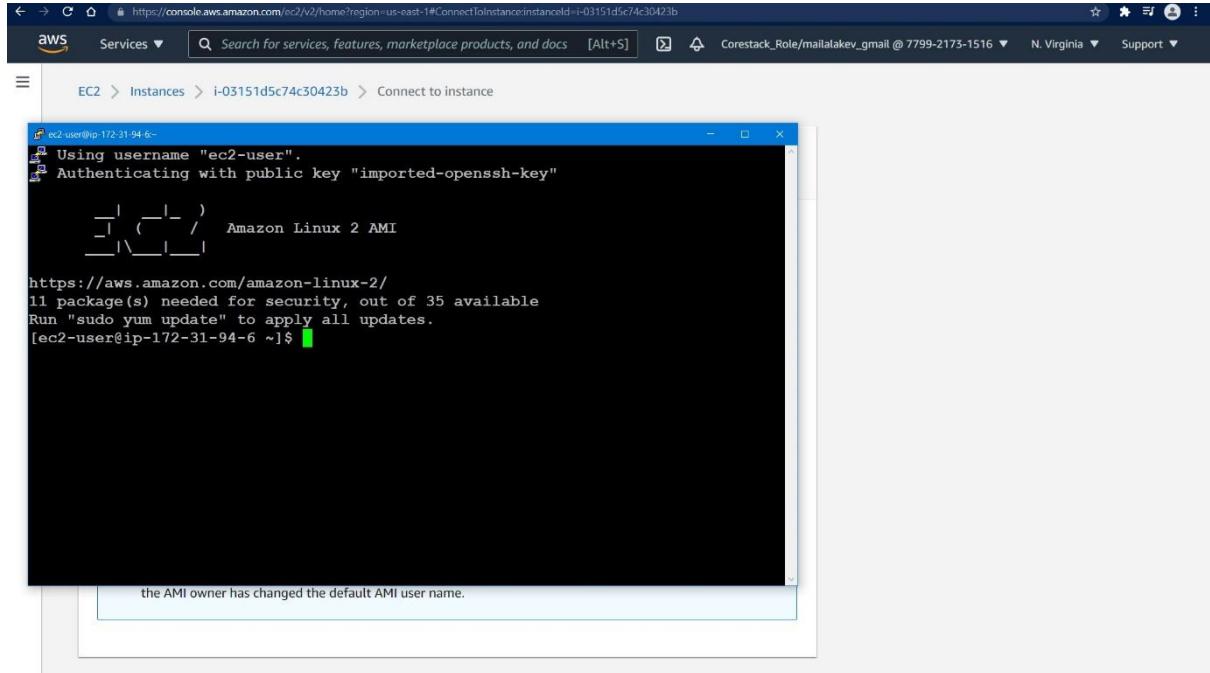
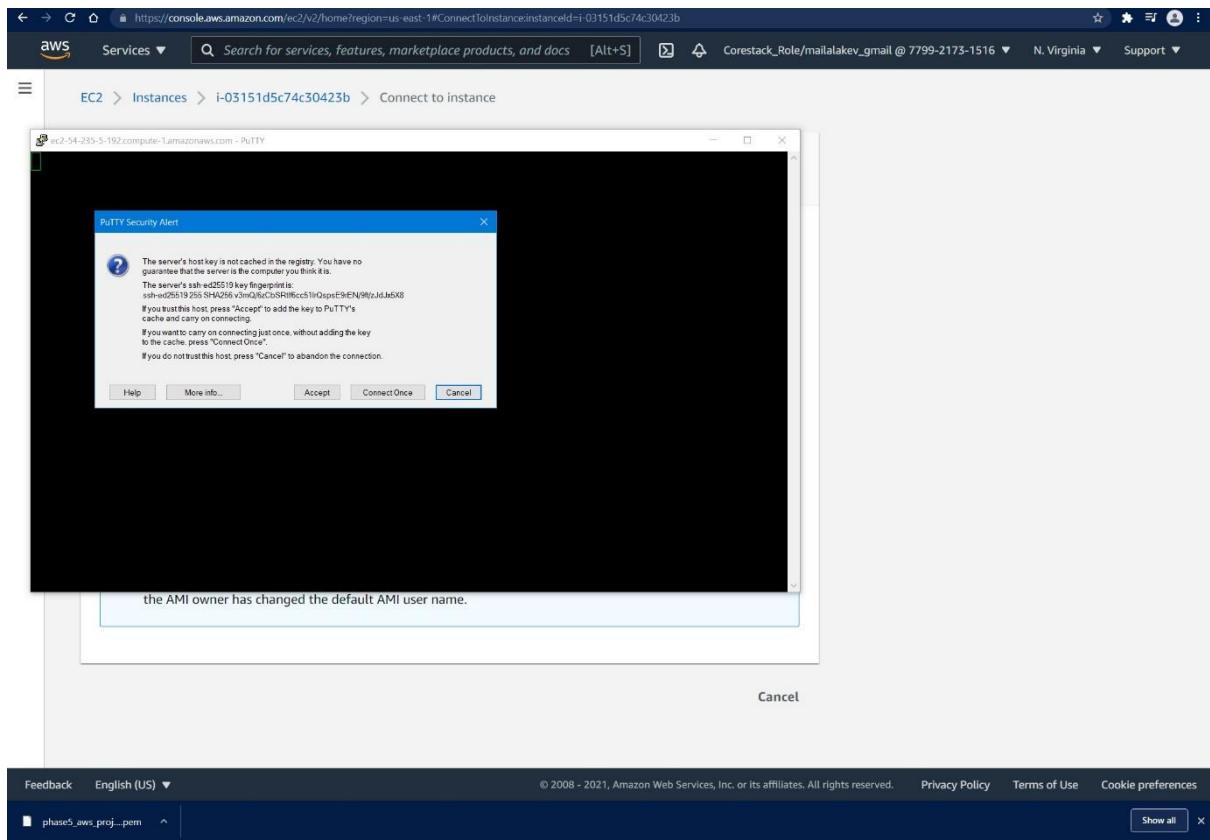
About Help Open Cancel

Paste

Cancel

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





Launch Status



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

Initiating Instance Launches

Please do not close your browser while this is loading

Creating security groups... Successful

Authorizing inbound rules... Successful

Initiating launches...

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

Launch Status



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

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](#)

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

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

Feedback English (US)

phane's aws proj... pem

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-09c3d19313c035a75		

Details Security Networking Storage Status checks Monitoring Tags

Instance details

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

Termination protection
Disabled

Feedback English (US)

phane's aws proj... pem

EC2 > Instances > i-03151d5c74c30423b

Instance summary for i-03151d5c74c30423b

Public IPv4 address: 54.235.5.192 | open address

Instance ID: i-03151d5c74c30423b

IPv6 address: -

Private IPv4 DNS: ip-172-31-94-6.ec2.internal

VPC ID: vpc-0df264bc3671f6ec2

Subnet ID: subnet-09c3d19313c035a75

Instance state: Running

Instance type: t2.micro

AWS Compute Optimizer finding: User: arnawssts:779921751516assumed-role/Corestack_Role/mailalakev_gmail is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * with an explicit deny

Retry

Public IPv4 addresses: 172.31.94.6

Public IPv4 DNS: ec2-54-235-5-192.compute-1.amazonaws.com | open address

Elastic IP addresses: -

IAM Role: -

Networking tab selected.

Run Reachability Analyzer

EC2 > Instances > i-03151d5c74c30423b

Instance summary for i-03151d5c74c30423b

Public IPv4 address: 54.235.5.192 | open address

Instance ID: i-03151d5c74c30423b

IPv6 address: -

Private IPv4 DNS: ip-172-31-94-6.ec2.internal

VPC ID: vpc-0df264bc3671f6ec2

Subnet ID: subnet-09c3d19313c035a75

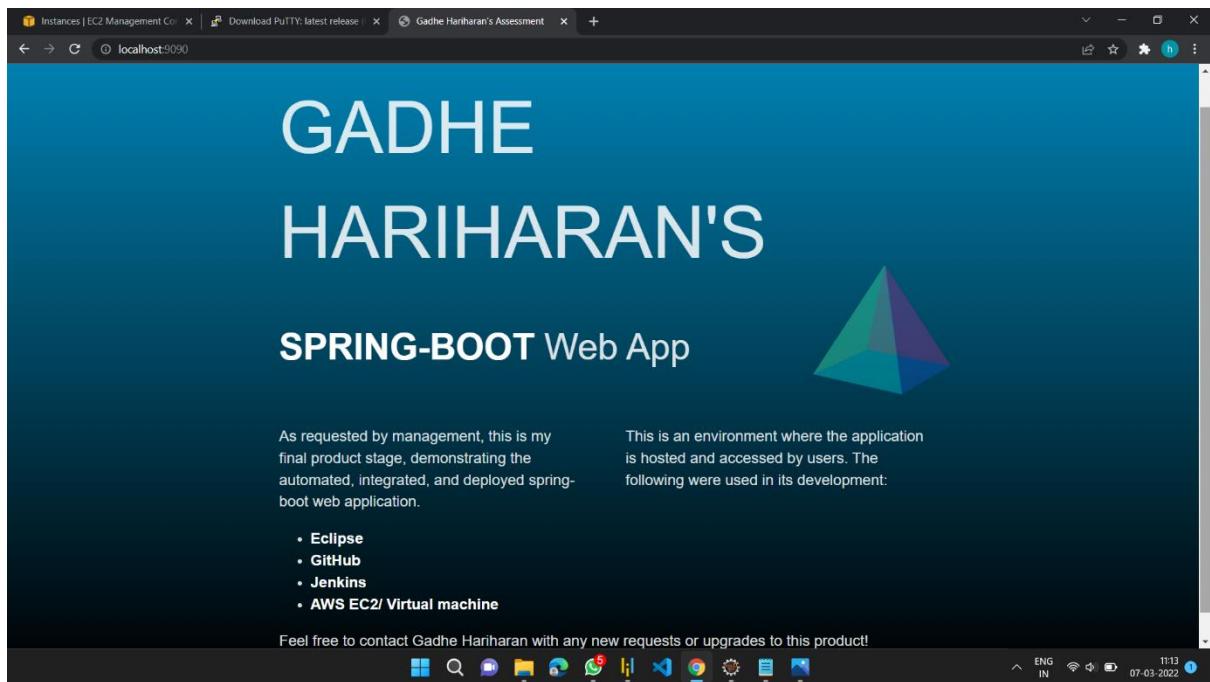
Actions: Generate a public-private key pair, Save an existing private key file, Save the generated key, Generate, Local, Save public key, Save private key.

Parameters: Type of key to generate: RSA, QSSA, EDSSA, EdDSA, SSH1(RSA), 2048.

Details | Security | Networking tab selected. | Storage | Status checks | Monitoring | Tags

You can now check network connectivity with Reachability Analyzer.

Run Reachability Analyzer



```

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

```

Spring Boot :: (v2.5.5)

```

2021-09-26 13:45:21.999 INFO 12132 --- [           main] com.simplilearn.workshop.MyApplication : Starting MyApplication using Java 11.0.10 on DESKTOP-6RFP1TP with PID 12132 (C:\Users\kevin\Desktop\CALTECH__COURSE\PHASE_5\CLASS_ASSESSMENT\SOFTWARE\my-spring-boot-web\target\classes)
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 @754ms 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-b16 LTS
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 13:45:22.499 INFO 12132 --- [           main] org.eclipse.jetty.server.session : DefaultSessionIdManager workerName=node0
2021-09-26 13:45:22.499 INFO 12132 --- [           main] org.eclipse.jetty.server.session : No SessionScavenger set, using defaults
2021-09-26 13:45:22.500 INFO 12132 --- [           main] o.e.j.s.session.SessionContextHandler : Started @920ms
2021-09-26 13:45:22.590 INFO 12132 --- [           main] o.s.b.a.w.s.WebAppHandlerMapping : Adding welcome page: class path resource [public/index.html]
2021-09-26 13:45:22.623 INFO 12132 --- [           main] o.e.j.s.h.ContextHandler.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. The instance type is set to t2.micro. Security groups include launch-wizard-1. The key pair selected is phase5_aws_project. A modal window titled "Select an existing key pair or create a new key pair" is open, showing the configuration for the selected key pair.

Select an existing key pair or create a new key pair

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

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

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

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

Cancel Launch Instances

Screenshot of the AWS CloudFormation Step 7: Review Instance Launch page. The instance type is set to t2.micro. Security groups include launch-wizard-1. The key pair selected is phase5_aws_project. A modal window titled "Select an existing key pair or create a new key pair" is open, showing the configuration for the selected key pair.

Select an existing key pair or create a new key pair

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

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

Create a new key pair
Key pair type
 RSA ○ ED25519
Key pair name
phase5_aws_project

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.

The screenshot also shows a file explorer window titled "Claws" displaying a file named "phase5_aws_project.pem" in the "aws" folder on the "OS (C)" drive. A red arrow points from the "Launch Instances" button in the modal to the file in the file explorer.