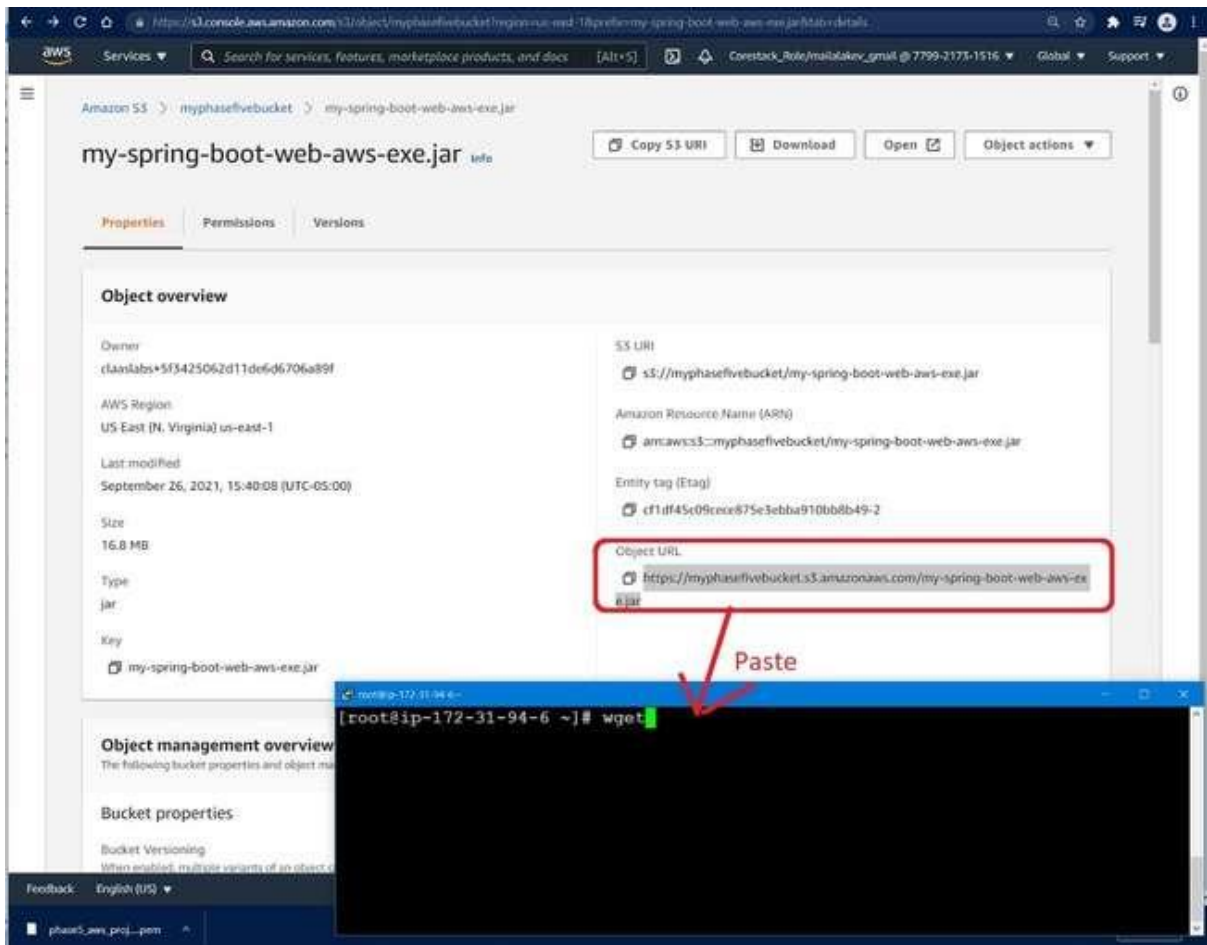


CI/CD DEPLYMENT FOR SPRINGBOOT APPLICATION



Practice Lab

PG FSD Testing in a DevOps Lifecycle

1 Class completed | 83% Self-Learning Videos Watched | 0/2 Projects Done

FSD Java AWS

This Lab will get reset on 10th 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/febs>

Session Expires in: 7h 59m 11s

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

Refresh Link

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AWS Certification - Dedicated Account

Category: Cloud Computing

Start Date: 2021-09-19 19:25

End Date: 2021-09-27 06:09

Class: 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, databases, analytics, application services, deployment, management, mobile, developer tools and tools for the Internet of things.

TERMINATE LAB ACCESS

Practice Lab

AWS Management Console

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

Search for services, features, marketplace products, and docs

Console_Role/Instance_group @ 77W-3175-1516 | H. 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 single-click scripts and automated workflows.

Launch a virtual machine
With EC2
2-3 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
5 minutes

Convert an IoT device
With AWS IoT
5 minutes

Start migrating to AWS
With AWS MGN
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See more

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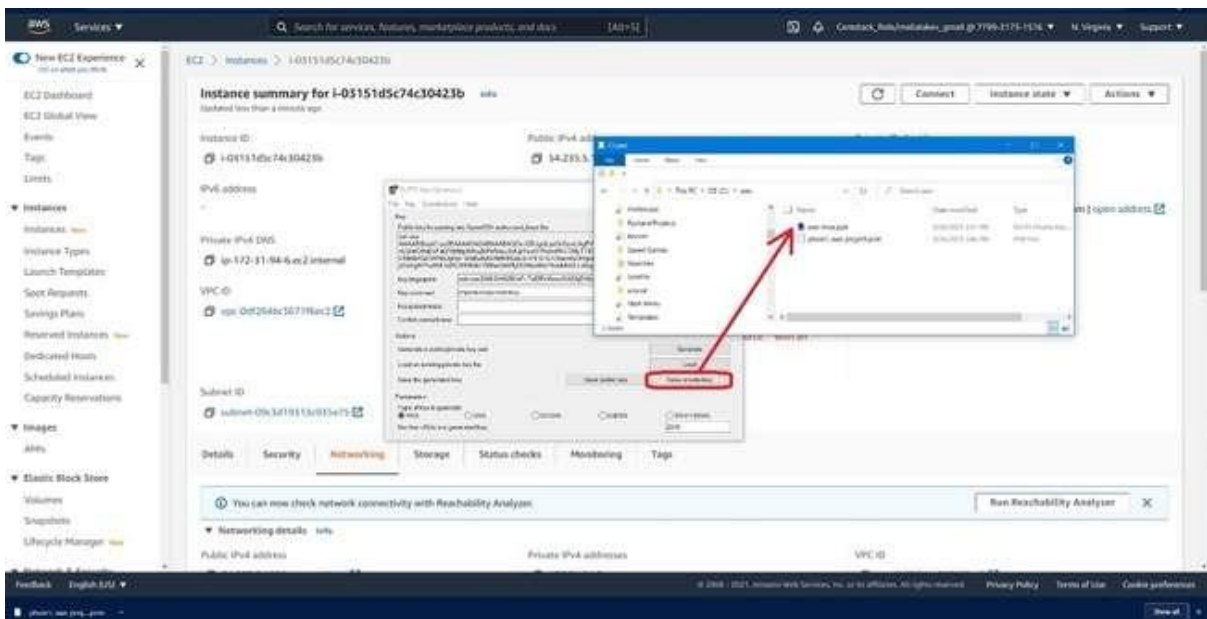
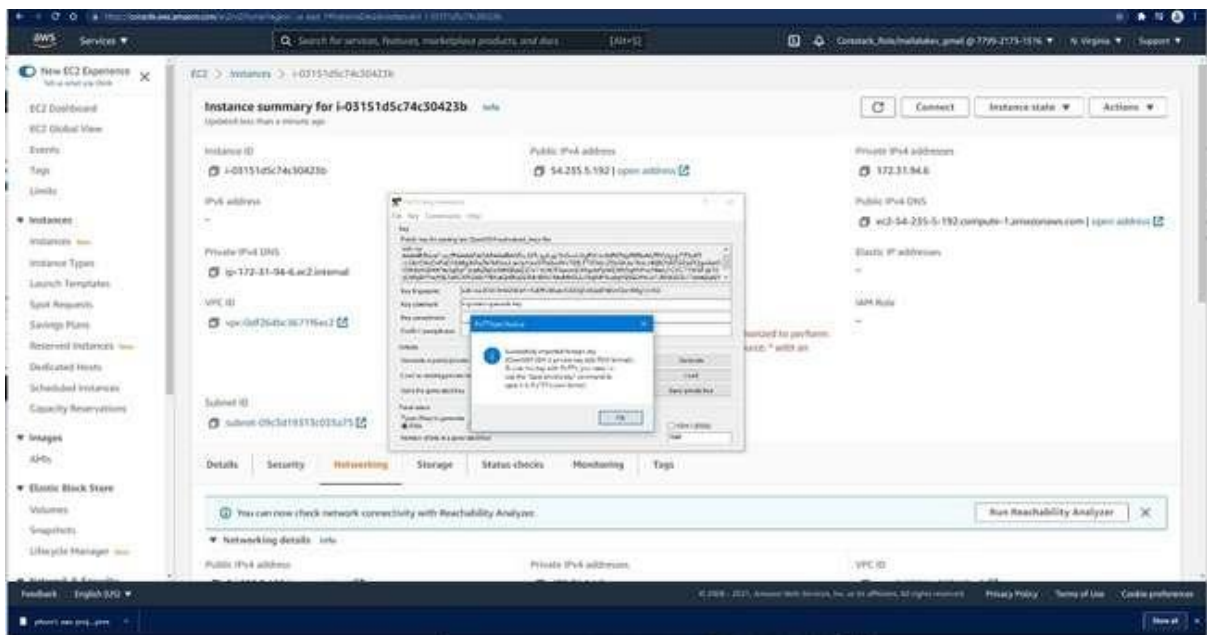
Getting Started with AWS
[View the documentation and learn more about AWS. Get started!](#)

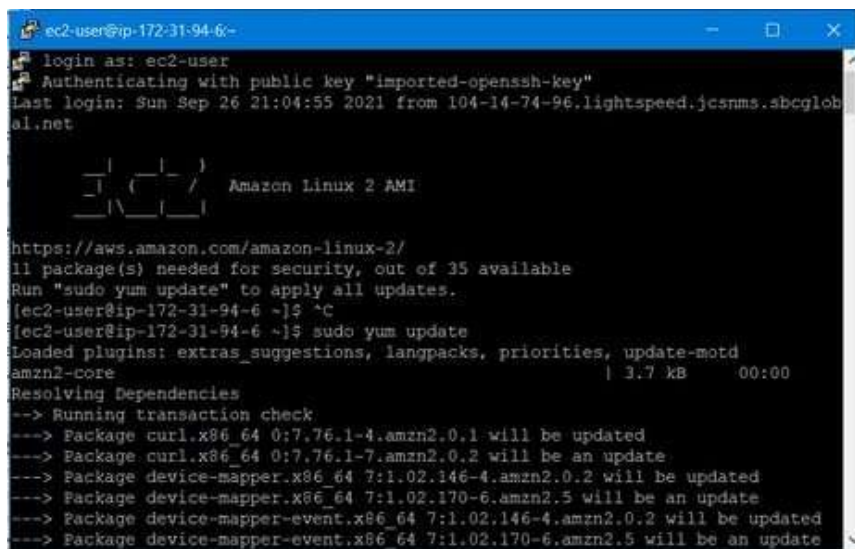
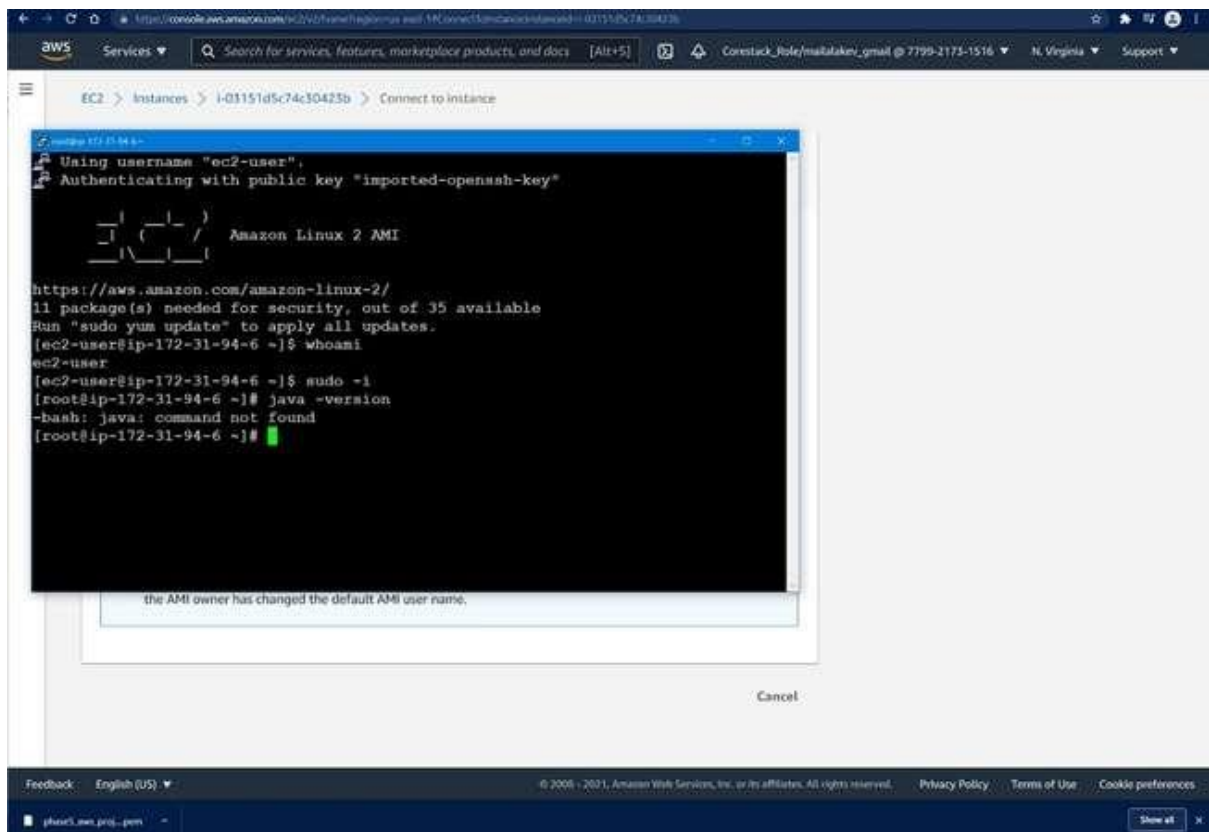
Have feedback?


```

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

```





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

```
ec2-user@ip-172-31-94-6:~$
# Login as: ec2-user.
# Authenticating with public key "imported-openssh-key"
Last login: Sun Sep 26 22:14:09 2021 from 104.14.74.94.lightspeed.fcama.sbcglobal.net
ec2-user@ip-172-31-94-6:~$
https://aws.amazon.com/amazon-linux-2/
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-94-6 ~]$
[ec2-user@ip-172-31-94-6 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amazon2-base
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 \
  & curl -o /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2021-09-26 22:31:39-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.250.132, 2a04:4e42:60::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)[151.101.250.132]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 65
Saving to: "/etc/yum.repos.d/jenkins.repo"
100%[=====] 65 100%
2021-09-26 22:31:30 (6.06 MB/s) - "/etc/yum.repos.d/jenkins.repo" saved [65/65]
[ec2-user@ip-172-31-94-6 ~]$
```

INSTALL (JENKINS) into our EC2 Instance

```
ec2-user@ip-172-31-94-6:~$ ssh
Authenticating with public key "imported-openssh-key"
Last login: Sun Sep 26 22:14:09 2021 from 104-14-74-96.lightspeed.jcsnms.sbcglobe.net

      _ _ _ _ _
     /   /   /   \
    /___/___/___ \
   /___/___/___ \
  /___/___/___ \
 /___/___/___ \
/___/___/___ \

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-94-6 ~]$
[ec2-user@ip-172-31-94-6 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
No Match for argument: -y
No packages marked for update
[ec2-user@ip-172-31-94-6 ~]$ sudo wget -O /etc/yum.repos.d/jenkins.repo \
> https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2021-09-26 22:31:30-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.250.133, 2a04:4e42:60::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.250.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

100%[=====]

2021-09-26 22:31:30 (6.08 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

[ec2-user@ip-172-31-94-6 ~]$ sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
[ec2-user@ip-172-31-94-6 ~]$ sudo yum upgrade
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
jenkins | 2.9 kB 00:00:00
jenkins/primary_db | 38 kB 00:00:00
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 | 2.9 kB 00:00:00
jenkins/primary_db | 38 kB 00:00:00
No packages marked for update
[ec2-user@ip-172-31-94-6 ~]$ sudo yum install jenkins java-1.8.0-openjdk-devel -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package 1:java-1.8.0-openjdk-devel-1.8.0.302.b08-0.amzn2.0.1.x86_64 already installed and latest version
Resolving Dependencies
--> Running transaction check
--> Package jenkins.noarch 0:2.303.1-1.1 will be installed
--> Processing Dependency: daemonize for package: jenkins-2.303.1-1.1.noarch
--> Finished Dependency Resolution
Error: Package: jenkins-2.303.1-1.1.noarch (jenkins)
        Requires: daemonize
You could try using --skip-broken to work around the problem
You could try running: rpm -Va --nofiles --nodigest
[ec2-user@ip-172-31-94-6 ~]$
```

installed Java 1.8 on Jenkins, EC2 session


```
ec2-user@ip-172-31-94-6:~$
Downloading packages:
(1/2): daemonize-1.7.7-1.el7.x86_64.rpm | 21 kB 00:00:00
(2/2): jenkins-2.303.1-1.1.noarch.rpm | 69 MB 00:00:20
-----
Total | 3.4 MB/s | 69 MB 00:00:20
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : daemonize-1.7.7-1.el7.x86_64 1/2
  Installing : jenkins-2.303.1-1.1.noarch 2/2
  Verifying : daemonize-1.7.7-1.el7.x86_64 1/2
  Verifying : jenkins-2.303.1-1.1.noarch 2/2

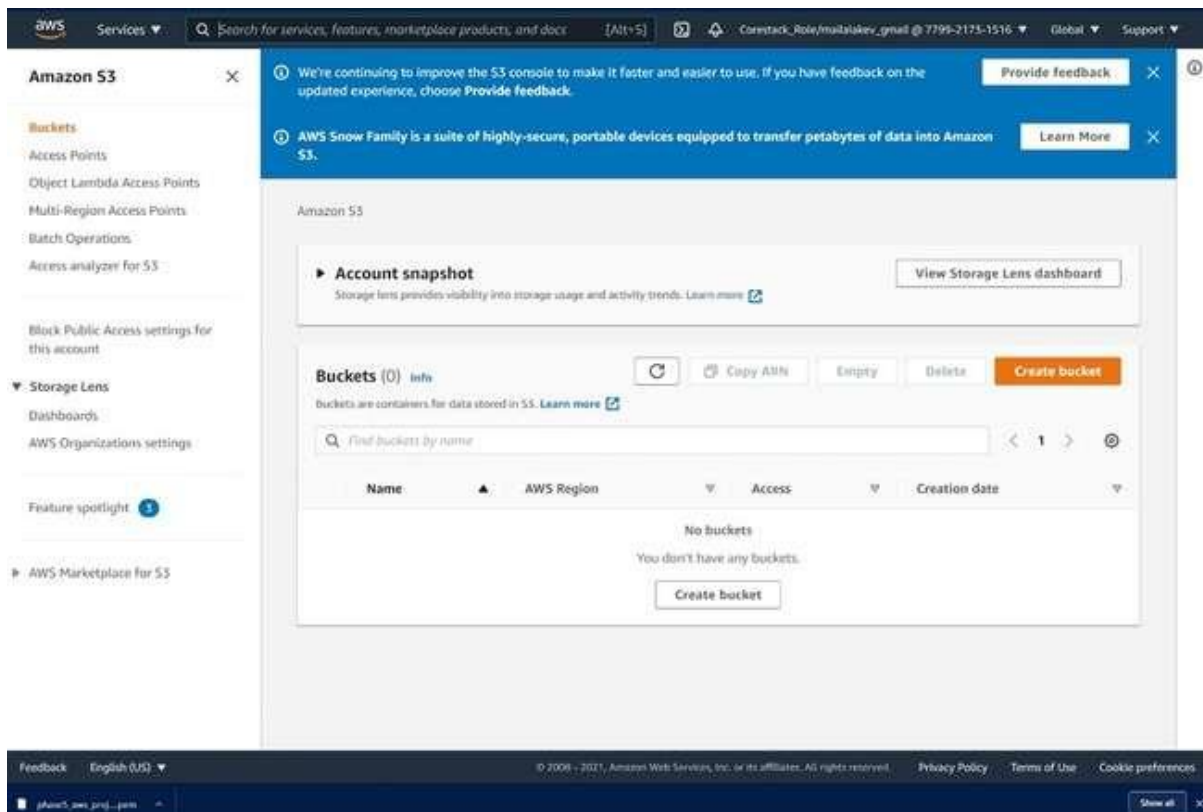
Installed:
jenkins.noarch 0:2.303.1-1.1

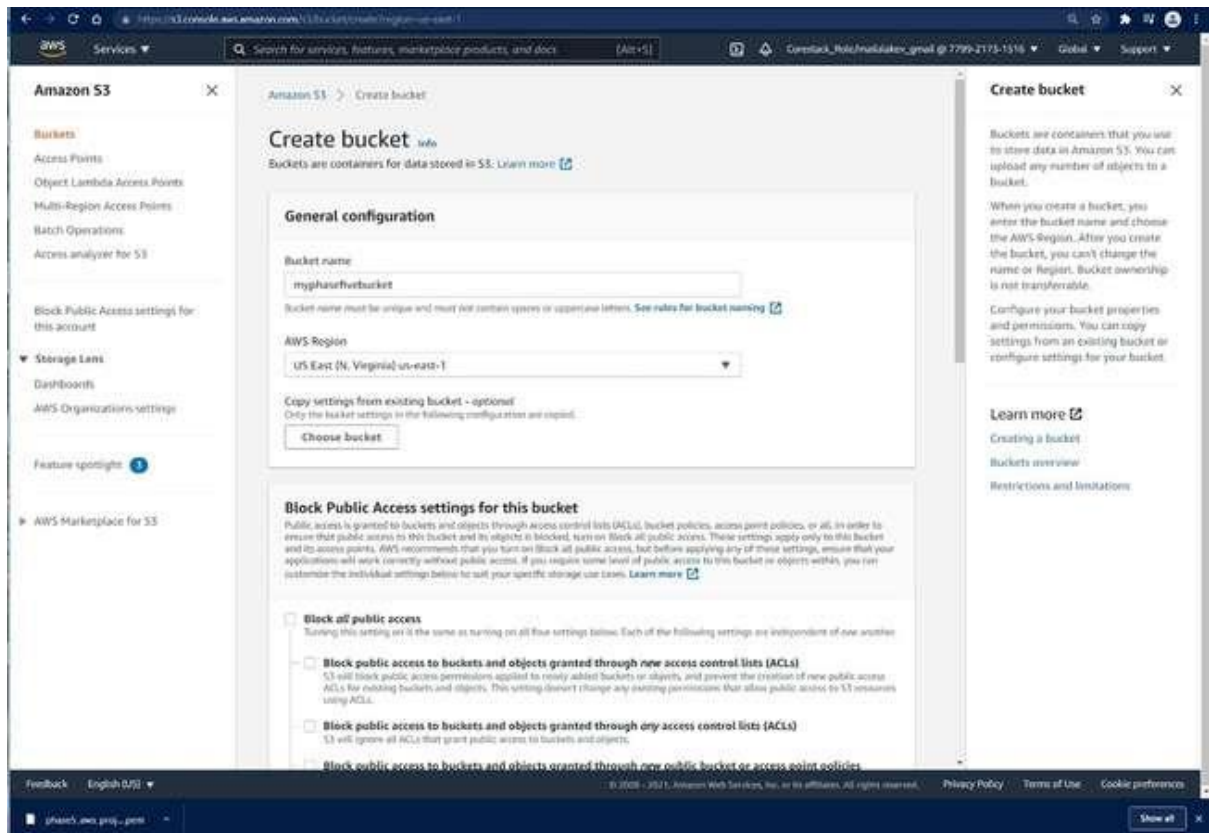
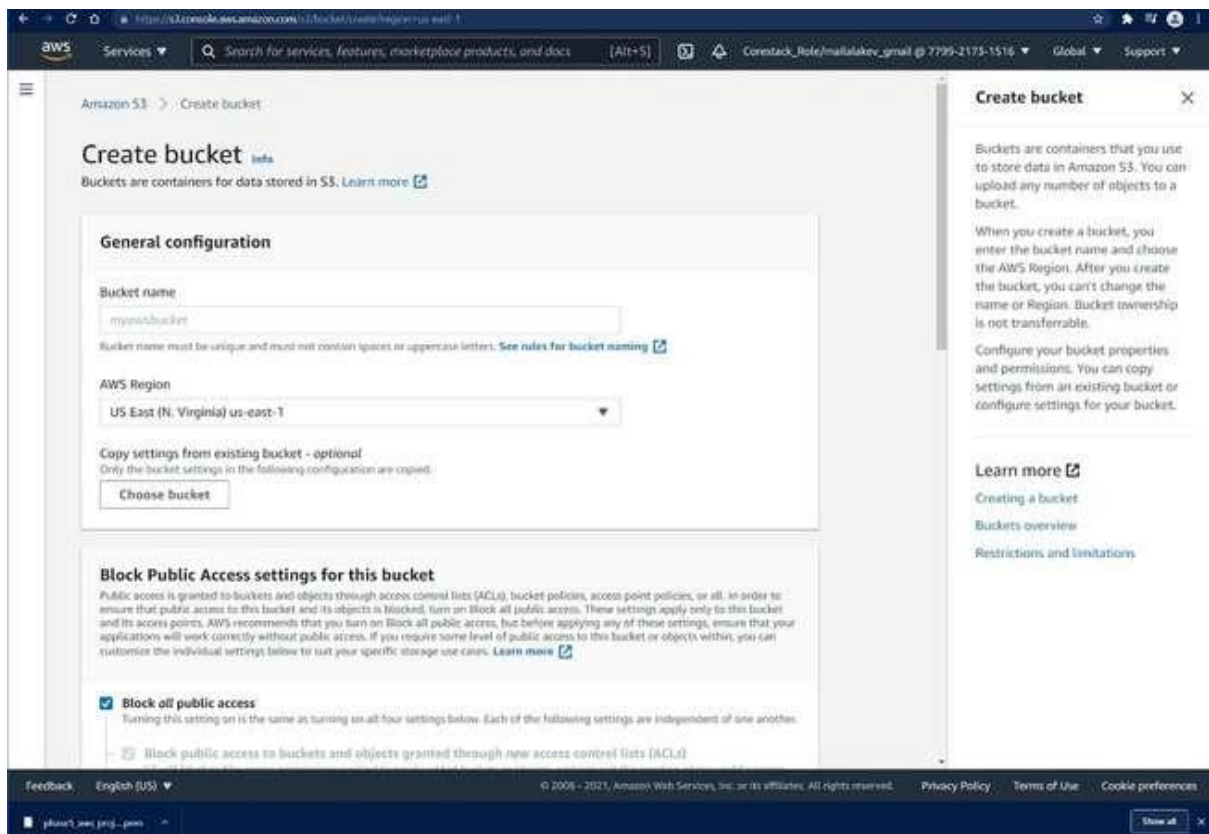
Dependency Installed:
daemonize.x86_64 0:1.7.7-1.el7

Complete!
[ec2-user@ip-172-31-94-6 ~]$ sudo systemctl start jenkins
[ec2-user@ip-172-31-94-6 ~]$ sudo systemctl status jenkins
● jenkins.service - LSB: Jenkins Automation Server
   Loaded: loaded (/etc/rc.d/init.d/jenkins; bad; vendor preset: disabled)
   Active: active (running) since Sun 2021-09-26 22:39:58 UTC; 9s ago
     Docs: man:systemd-sysv-generator(8)
  Process: 5746 ExecStart=/etc/rc.d/init.d/jenkins start (code=exited, status=0/SUCCESS)
    CGroup: /system.slice/jenkins.service
            └─5750 /usr/lib/jvm/java-1.8.0/bin/java -Djava.awt.headless=true -DJENKINS_HOME=/var/lib/jenkins -jar ...

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

Jenkins Now Running on EC2 - as a service





Services

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Global

Support

Amazon S3

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Successfully created bucket "myphasefivebucket"

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

View details

Amazon S3

Account snapshot

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

View Storage Lens dashboard

Buckets (1)

Buckets are containers for data stored in S3. Learn more

Refresh

Copy ARN

Empty

Delete

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)

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.

Feedback

English (US)

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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](#)

Refresh

Copy S3 URL

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

< 1 >

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 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)

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← → ↻ 🔍

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

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

🔔

👤 CoreStack_Role/mallalakev@gmail.com 7799-2173-1516

🌐 Global

🛎️ Support

Amazon S3 > myphasefivebucket > 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)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

🔍 Find by name

< 1 >

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

Destination

Destination
s3://myphasefivebucket

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

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](#)

Feedback English (US)

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aws

Services

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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

s3://myphasefivebucket

Succeeded

1 file, 16.8 MB (100.00%)

Failed

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (1 Total, 16.8 MB)

Find by name

< 1 >

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

Feedback

English (US)

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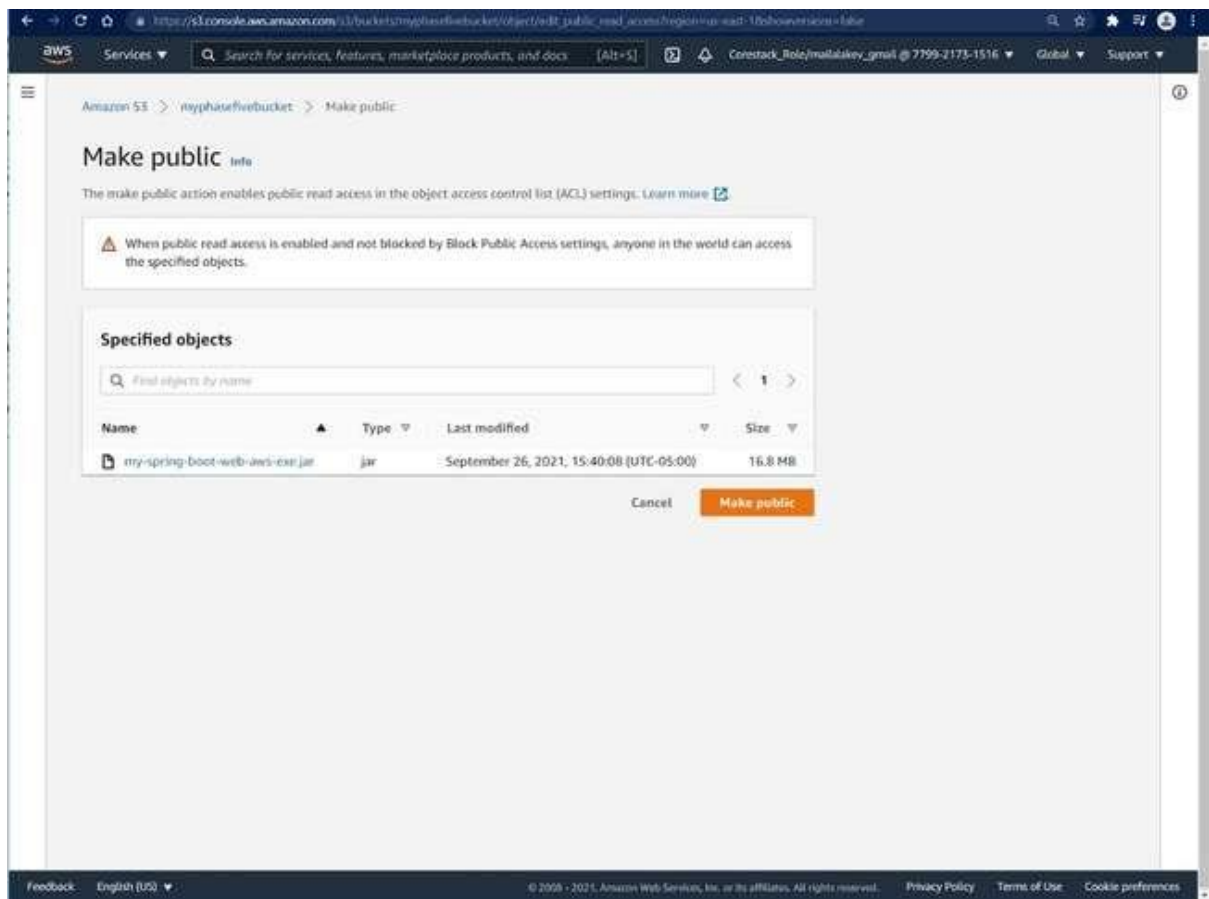
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phase5_aws_proj_pom

Show all



Amazon S3 console showing the details of the object **my-spring-boot-web-aws-exe.jar** in the bucket **myphasefivebucket**.

Object overview

Owner	classlabs+Sf5425062d11de6d6706a89f
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 actions are available:

Bucket properties

Bucket Versioning

When enabled, multiple variants of an object can be stored in a bucket.

Object actions

- Copy S3 URI
- Download
- Open
- Object actions

Terminal Output:

```
root@ip-172-31-94-6:~# curl -X PUT -T my-spring-boot-web-aws-exe.jar https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar
Resolving myphasefivebucket.s3.amazonaws.com (myphasefivebucket.s3.amazonaws.com)... 52.217.93.196
Connecting to myphasefivebucket.s3.amazonaws.com (myphasefivebucket.s3.amazonaws.com)|52.217.93.196|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17646207 (17M) [application/x-www-form-urlencoded]
Saving to: 'my-spring-boot-web-aws-exe.jar'

100%[=====>] 17,646,207 41.7MB/s in 0.4s

2021-09-26 20:45:54 (41.7 MB/s) - 'my-spring-boot-web-aws-exe.jar' saved [17646207/17646207]

[root@ip-172-31-94-6 ~]#
```

JAR FILE UPLOADED to EC2 INSTANCE!

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

my-spring-boot-web-aws-exe.jar [info](#) [Copy S3 URI](#) [Download](#) [Open](#) [Object actions](#)

Properties Permissions Versions

Object overview

Owner daaslabs+5f3425062d11de6d6705a89f	S3 URI s3://myphasedfivebucket/my-spring-boot-web-aws-exe.jar
AWS Region US East (N. Virginia) us-east-1	Amazon Resource Name (ARN) arn:aws:s3::myphasedfivebucket/my-spring-boot-web-aws-exe.jar
Last modified September 26, 2021, 15:40:08 (UTC-05:00)	Entity tag (Etag) cf1df45cd9ccce875e3ebba9106b8b49-2
Size 16.8 MB	Object URL https://myphasedfivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar
Type jar	
Key my-spring-boot-web-aws-exe.jar	

Object management overview
The following bucket properties and object details are shown.

Bucket properties
Bucket Versioning
When enabled, multiple versions of an object can be stored in a bucket.

Feedback English (US) [phase5_aws_proj_perm](#)

```

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

JAR FILE on EC2!

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

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.

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

Search by Systems Manager parameter

1 to 44 of 44 AMIs

Quick Start

- My AMIs
- AWS Marketplace
- Community AMIs
- ☐ Free tier only

Amazon Linux 2 AMI (HVM, SSD Volume Type) - ami-087c17d1e0178315 (64-bit x86) / ami-029c64b3c205e60ce (64-bit ARM)

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.28, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm EBS optimized: Yes

macOS Big Sur 11.6 - ami-0355f1ed5537c0368

The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebs Virtualization type: hvm EBS optimized: Yes

macOS Catalina 10.15.7 - ami-0ae0b6d49088c747

The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebs Virtualization type: hvm EBS optimized: Yes

macOS Mojave 10.14.6 - ami-07279d987534aactb6

The macOS Mojave AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for

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Practice Lab

Launch instance wizard | t2.micro

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

Services

Search for services, features, marketplace products, and docs

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Support

1. Choose AMI

2. Choose Instance Type

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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 (1 ECUs, 1 vCPUs, 2.5 GHz, ~ 1 GiB memory, EBS only)

	Family	Type	vCPUs (1)	Memory (GiB)	Instance Storage (GiB) (1)	EBS-Optimized Available (1)	Network Performance (1)	IPv6 Support (1)
	t2	t2.nano	1	0.5	EBS only	+	Low to Moderate	Yes
	t2	t2.micro	1	1	EBS only	+	Low to Moderate	Yes
	t2	t2.small	1	2	EBS only	+	Low to Moderate	Yes
	t2	t2.medium	2	4	EBS only	+	Low to Moderate	Yes
	t2	t2.large	2	8	EBS only	+	Low to Moderate	Yes
	t2	t2.xlarge	4	16	EBS only	+	Moderate	Yes
	t2	t2.2xlarge	8	32	EBS only	+	Moderate	Yes
	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

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

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Support

1. Choose AMI

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Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances (1)

1

Launch into Auto Scaling Group (1)

Purchasing option (1)

☐ Request Spot instances

Network (1)

vpc-0d264bc3671f6ec2 (default)

Create new VPC

Subnet (1)

No preferences (default subnet in any Availability Zone)

Create new subnet

Auto-assign Public IP (1)

Use subnet setting (Enable)

Placement group (1)

☐ Add instance to placement group

Capacity Reservation (1)

Open

Domain join directory (1)

No directory

Create new directory

IAM role (1)

None

Create new IAM role

Shutdown behavior (1)

Stop

Stop + Hibernate behavior (1)

☐ Enable hibernation as an additional stop behavior

Enable termination protection (1)

☐ Protect against accidental termination

Monitoring (1)

☐ Enable CloudWatch detailed monitoring

Additional charges apply.

Tenancy (1)

Shared - Run on shared hardware instance

Cancel

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Support

1. Choose AMI
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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-0696a041095ac5492	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 GiB of EBS General Purpose (SSD) or Magnetic storage. [Learn more about free usage tier eligibility and usage restrictions.](#)

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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	Value	Instances	Volumes	Network Interfaces
This resource currently has no tags.				

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)

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Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Custom 0.0.0.0	e.g. SSH for Admin Desktop

Add Rule

Warning
Rules with source of 0.0.0.0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous **Review and Launch**

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Step 7: Review Instance Launch

Instance Type

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

Security Groups

Security group name: launch-wizard-1
Description: launch-wizard-1 created 2021-09-26T14:37:03-05:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0	
HTTP	TCP	80	0.0.0.0	
HTTPS	TCP	443	0.0.0.0	

Instance Details

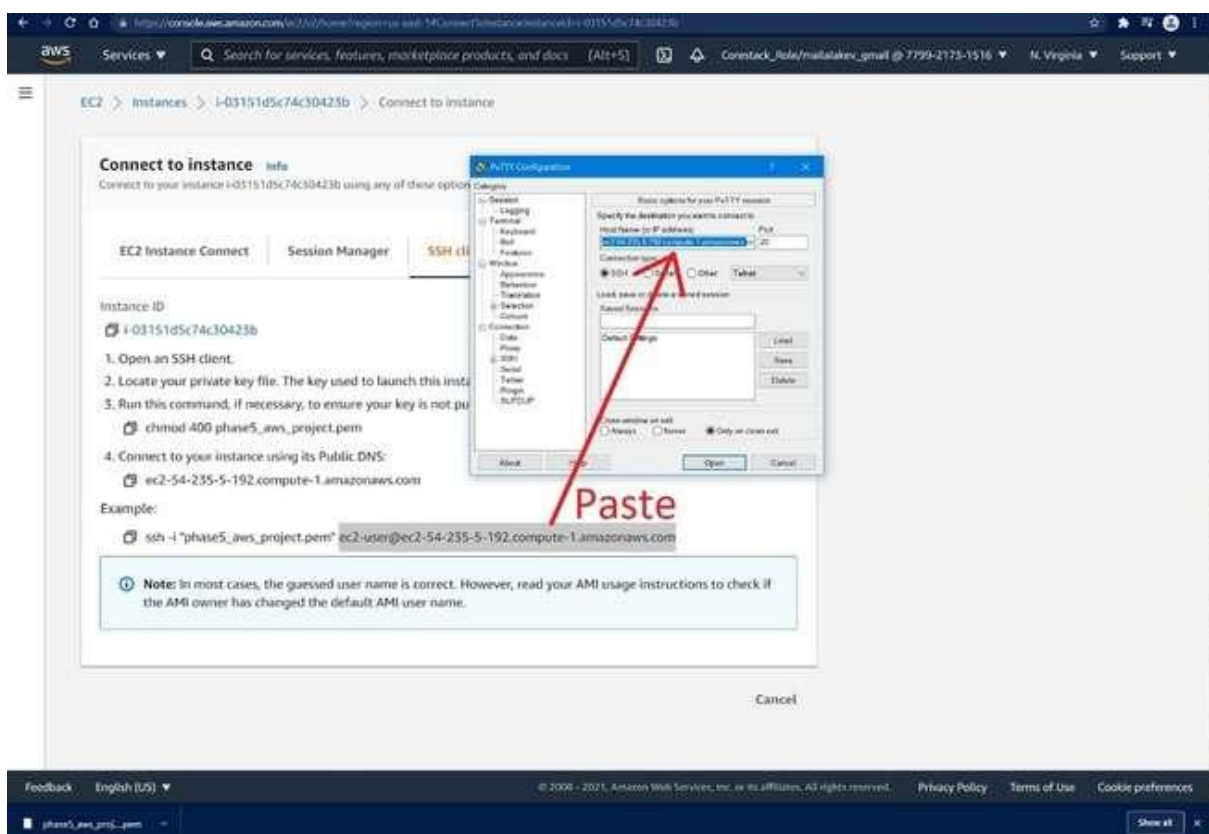
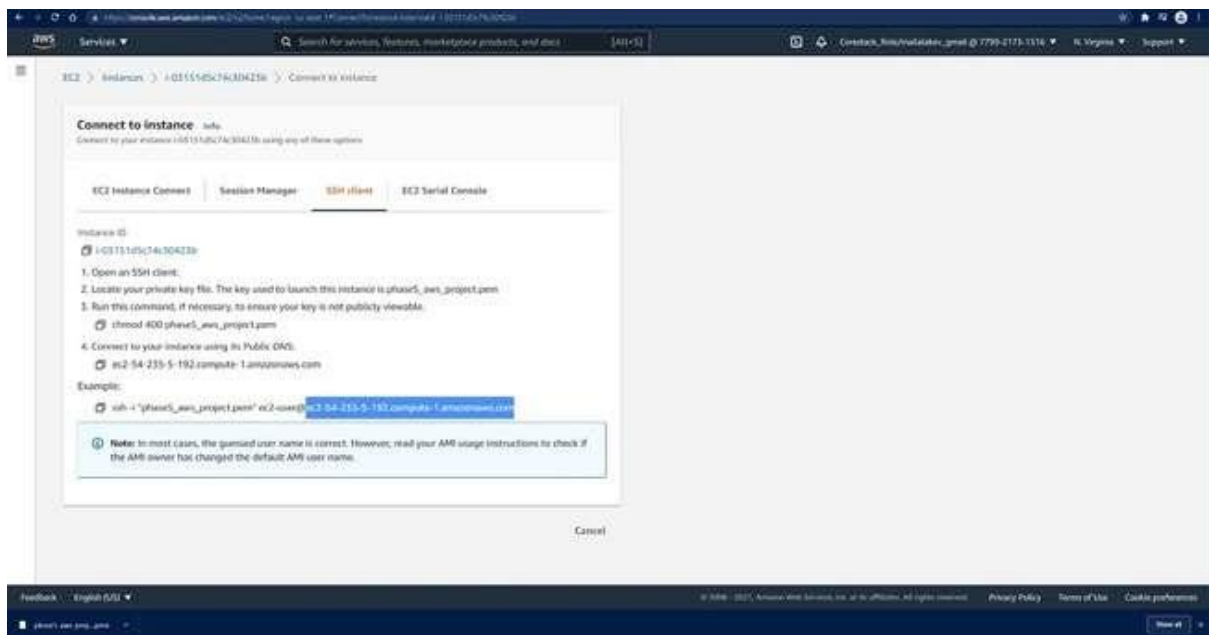
Storage

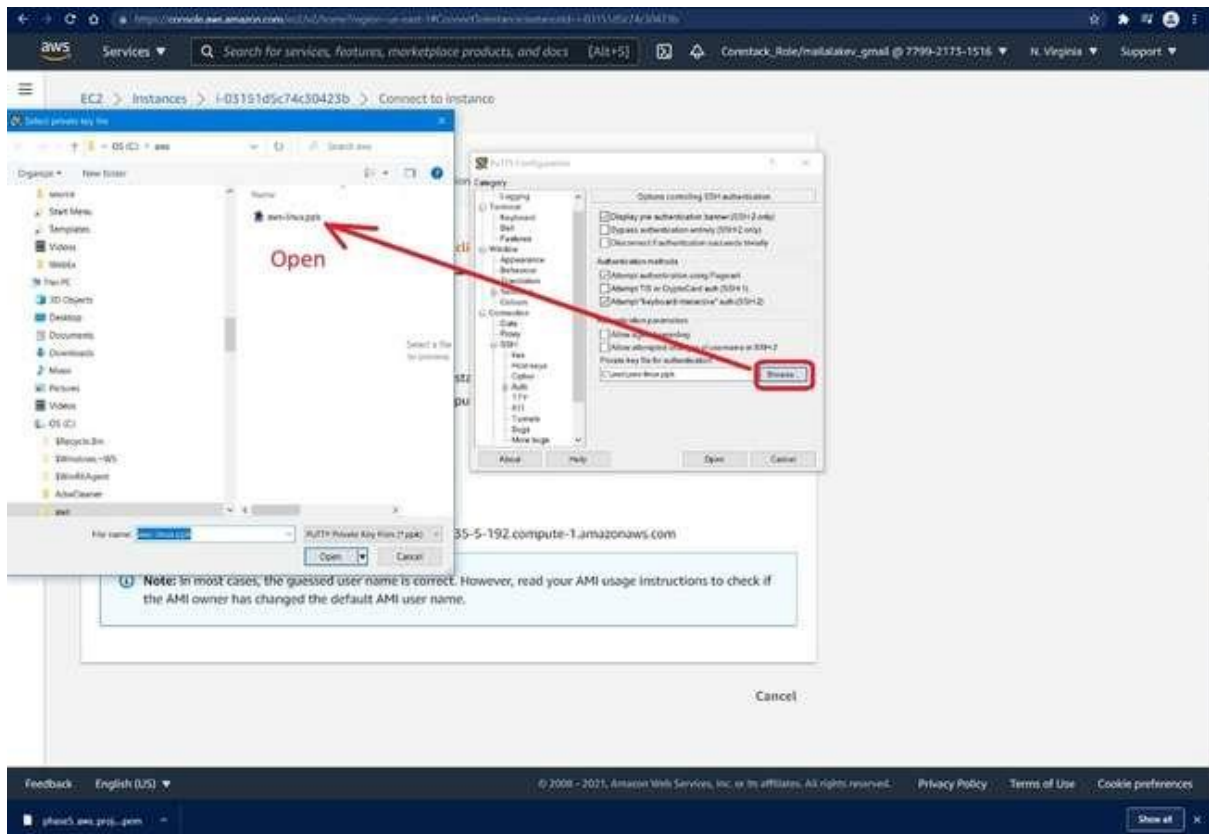
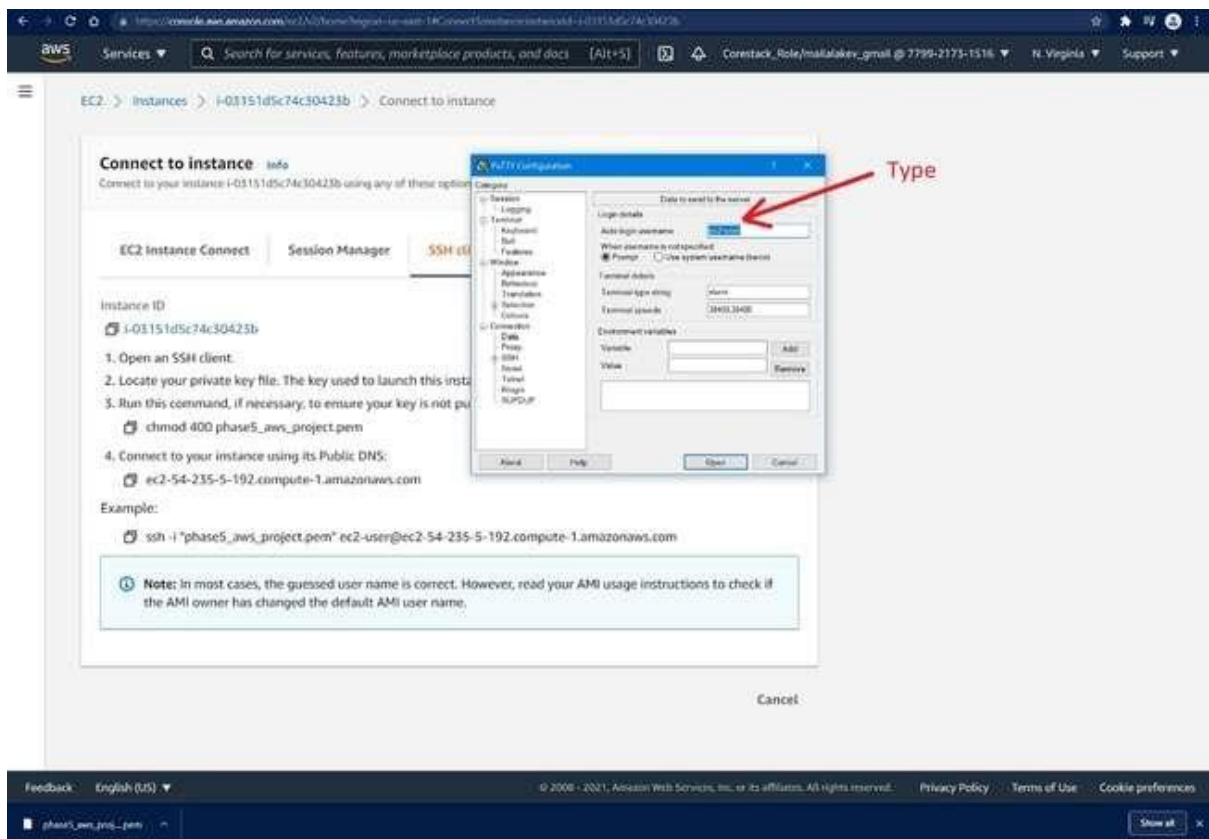
Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-0699a241095ac5492	8	gp2	100 / 3000	N/A	Yes	Not Encrypted

Tags

Cancel Previous **Launch**

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Launch Status



Initiating Instance Launches

Please do not close your browser while this is loading.

Creating security groups... Successful

Authorizing inbound rules... Successful

Initiating launches...

Launch Status



Your instances are now launching

The following instance launches have been initiated: i-03151d5c74c30423b [View launch log](#)



Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. Find out how to connect to your instances.

Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2 User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2 Discussion Forum](#)

While your instances are launching you can also:

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#). (Additional charges may apply)
- [Manage security groups](#)

[View Instances](#)

Instances (1) info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
	i-03151d5c74c30425b	Running	t2.micro	initializing	No alarms	us-east-1a	ec2-54-255-5-192.com...	54.255.5.192

Select an instance above

Instance summary for i-03151d5c74c30425b

Updated less than a minute ago

Instance ID i-03151d5c74c30425b	Public IPv4 address 54.255.5.192 (open address)	Private IPv4 address 172.31.94.6
IPv4 address -	Instance state Running	Public IPv4 DNS ec2-54-255-5-192.compute-1.amazonaws.com (open address)
Private IPv4 DNS ip-172-31-94-6.ec2.internal	Instance type t2.micro	Elastic IP address -
VPC ID vpc-09264bc38718ac12	AWS Compute Optimizer finding User: amazon-ec2:779921731918-assumed-role/Cartrack_Role/maladeke.gmail is not authorized to perform: compute-optimizer:GetOptimizationStatus on resource: i with an explicit deny entry	AMI Role -
Subnet ID subnet-093d19313035475		

Details Security Networking Storage Status checks Monitoring Tags

Instance details info

Platform Amazon Linux (Optimized)	AMI ID ami-083c17d15d0138515	Monitoring disabled
--------------------------------------	---------------------------------	------------------------

EC2 > Instances > i-03151d5c74c30423b

Instance summary for i-03151d5c74c30423b

Updated less than a minute ago

Instance ID
i-03151d5c74c30423b

IPv4 address
-

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

VPC ID
vpc-d02261a1b17f1f6e2

Subnet ID
subnet-0b654193113d35a75

Public IPv4 address
54.235.5.192 | open address

Instance state
Running

Instance type
t2.micro

AWS Compute Optimizer finding
User: aws-ec2-ec2:779021735156:aws-ec2-ec2:779021735156:aws-ec2-ec2:779021735156 is not authorized to perform compute-optimizer:GetEnhancedStatus on resource: * with an explicit deny policy

Private 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
-

COPY

[Run Reachability Analyzer](#)

Networking details

Public IPv4 address: Private IPv4 address: VPC ID:

EC2 > Instances > i-03151d5c74c30423b

Instance summary for i-03151d5c74c30423b

Updated less than a minute ago

Instance ID
i-03151d5c74c30423b

IPv4 address
-

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

VPC ID
vpc-d02261a1b17f1f6e2

Subnet ID
subnet-0b654193113d35a75

Public IPv4 address
54.235.5.192 | open address

Instance state
Running

Instance type
t2.micro

AWS Compute Optimizer finding
User: aws-ec2-ec2:779021735156:aws-ec2-ec2:779021735156:aws-ec2-ec2:779021735156 is not authorized to perform compute-optimizer:GetEnhancedStatus on resource: * with an explicit deny policy

Private 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
-

Run Reachability Analyzer

Networking details

Public IPv4 address: Private IPv4 address: VPC ID:

SPRING-BOOT Web App

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

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

Feel free to contact Gadhe Hariharan with any new requests or upgrades to this product!

```
[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 no existing resourceDirectory C:\Users\Kevin\Desktop\CALTECH_COURSEWARE_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) @ 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-6WP1PYP with PID 12132 (C:\Users\Kevin\Desktop\CALTECH_COURSEWARE_5\CLASS_ASSESSMENT\SOFTWARE\my-spring-boot-web\src\main\java\com\simplilearn\workshop\MyApplication.class)
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.a.e.j.JettyServiceWebServerFactory | Server initialized with port: 8080
2021-09-26 13:45:22.450 [INFO] 12132 ... main| org.eclipse.jetty.server.session | jerry: 9.4.43.v20210629; built: 2021-06-20T18:07:22.754Z; git: 52d00ecfa3ef7f1a27ef1a2852be77eadd078;
2021-09-26 13:45:22.460 [INFO] 12132 ... main| o.s.c.j.h.a.ContextHandler$ApplicationContext | Initializing Spring embedded webapplicationcontext
2021-09-26 13:45:22.460 [INFO] 12132 ... main| w.s.c.ServletMultipartResourceApplicationContext | Root WebApplicationContext: initialization completed in 438 ms
2021-09-26 13:45:22.495 [INFO] 12132 ... main| org.eclipse.jetty.server.session | DefaultSessionIdManager workerName=method
2021-09-26 13:45:22.495 [INFO] 12132 ... main| org.eclipse.jetty.server.session | No SessionScavenger set, using defaults
2021-09-26 13:45:22.496 [INFO] 12132 ... main| org.eclipse.jetty.server.session | node scavenging every 60000ms
2021-09-26 13:45:22.500 [INFO] 12132 ... main| o.s.c.j.h.a.ContextHandler$ApplicationContext | Started @702ms
2021-09-26 13:45:22.500 [INFO] 12132 ... main| org.eclipse.jetty.server.handler | Started @702ms
2021-09-26 13:45:22.590 [INFO] 12132 ... main| o.s.b.a.w.s.WelcomePageHandlerMapping | Adding welcome page: class path resource [public/index.html]
2021-09-26 13:45:22.623 [INFO] 12132 ... main| o.s.c.j.h.a.ContextHandler$ApplicationContext | Initializing Spring DispatcherServlet 'dispatcherServlet'
2021-09-26 13:45:22.623 [INFO] 12132 ... main| o.s.web.servlet.DispatcherServlet | Initializing Servlet 'dispatcherServlet'
2021-09-26 13:45:22.624 [INFO] 12132 ... main| o.s.web.servlet.DispatcherServlet | Completed initialization in 1 ms
2021-09-26 13:45:22.639 [INFO] 12132 ... main| o.s.c.j.h.a.ContextHandler$ApplicationContext | Started ServerConnector@7b0d5881{HTTP/1.1, (http://1.1)(0.0.0.0:8080)}
2021-09-26 13:45:22.639 [INFO] 12132 ... main| o.s.b.a.w.s.WelcomePageHandlerMapping | Setty 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 0.840 seconds (JVM running for 1.064)
```

