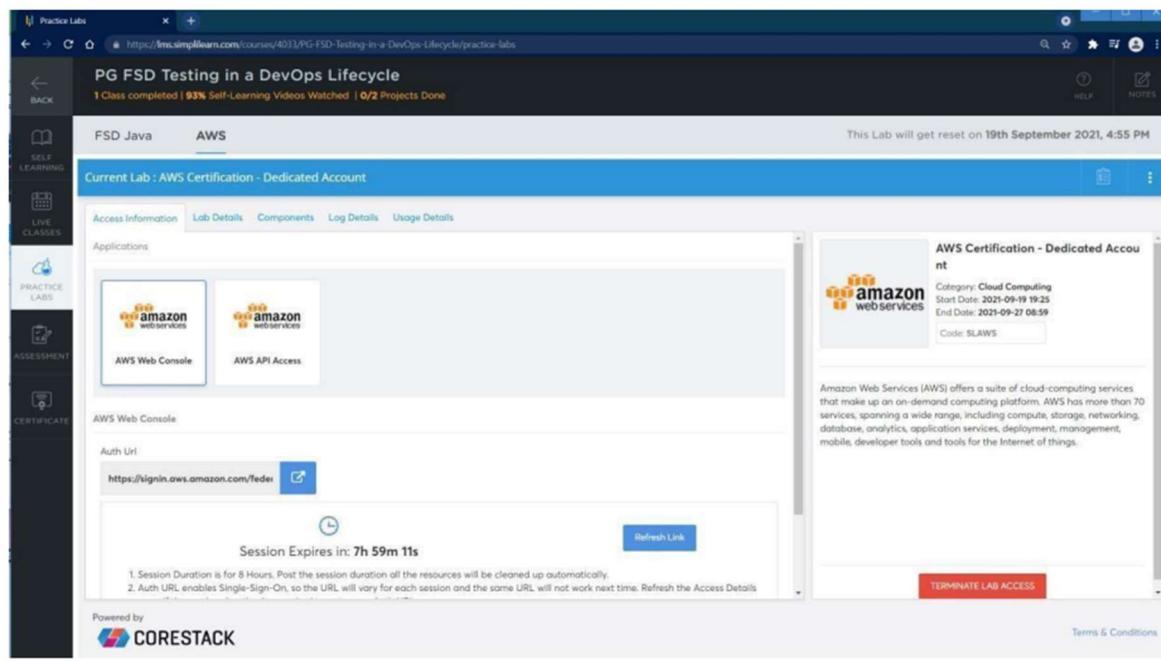


CI/CD Deployment for Springboot Application

Screenshots

GitHub:

https://github.com/Bikki084/Java_FSD_All_Projects/tree/master/Phase_5/main_assessment



AWS Management Console

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- All services

Build a solution

- Launch a virtual machine
- Build a web app
- Build using virtual servers
- Register a domain
- Connect an IoT device
- Start migrating to AWS
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Launch instance wizard | EC2

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

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"

Quick Start

- My AMIs
- Amazon Linux Free tier eligible
- AWS Marketplace
- Community AMIs
- Free tier only

AMI Name	Description	Root device type	Virtualization type	ENAs Enabled	Select
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-087c17d1fe0178315 (64-bit x86) / ami-029c64b3c205e6cce (64-bit Arm)	Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.	ebs	hvm	Yes	<input checked="" type="button" value="Select"/>
macOS Big Sur 11.6 - ami-0355f1ed5537d0368	The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.	ebs	hvm	Yes	<input type="button" value="Select"/>
macOS Catalina 10.15.7 - ami-0ae0b6d49088fc747	The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.	ebs	hvm	Yes	<input type="button" value="Select"/>
macOS Mojave 10.14.6 - ami-07279d867534aacb6	The macOS Mojave AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.	ebs	hvm	Yes	<input type="button" value="Select"/>

Practice Lab | Launch instance wizard | EC2 Micro

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

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

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.

Filter by: All instance families ▾ Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, ~ 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
■	t2	t2.micro Free tier eligible	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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Practice Lab | Launch instance wizard | EC2 Micro

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

Step 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	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	vpc-0df264bc3671f6ec2 (default)	<input type="button"/> Create new VPC
Subnet	No preference (default subnet in any Availability Zone)	<input type="button"/> Create new subnet
Auto-assign Public IP	Use subnet setting (Enable)	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	Open	
Domain join directory	No directory	<input type="button"/> Create new directory
IAM role	None	<input type="button"/> 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

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

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

Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-0699a041095ac5492	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.

Cancel Previous **Review and Launch** Next: Add Tags

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

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

Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces
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)

Cancel Previous **Review and Launch** Next: Configure Security Group

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

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

Step 6: Configure Security Group

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

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

Security group name:

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

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom ::/0	e.g. SSH for Admin Desktop

Add Rule

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous Review and Launch

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

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

Step 7: Review Instance Launch

Root Device Type: ebs Virtualization type: hvm

Instance Type Edit instance type

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

Security Groups Edit security groups

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

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	::/0	

Instance Details Edit instance details

Storage Edit storage

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

Tags Edit tags

Cancel Previous Launch

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Screenshot of the AWS CloudFormation Step 7: Review Instance Launch page. The 'Instance Type' section shows an i2.micro instance with 1 vCPU and 1.75 ECUs. The 'Security Groups' section shows a security group named 'launch-wizard-1' with an inbound rule for SSH (TCP) from 0.0.0.0/0. The 'Storage' section shows a root volume of 8 GiB. A modal dialog titled 'Select an existing key pair or create a new key pair' is open, showing a dropdown menu with 'Create a new key pair' and 'RSA ED25519'. The 'Key pair name' field contains 'phase5_aws_project'. A note at the bottom of the modal says: 'You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.' Below the modal are 'Cancel' and 'Launch Instances' buttons. The background page shows network performance set to 'Low to Moderate' and storage encrypted.

Screenshot of the AWS CloudFormation Step 7: Review Instance Launch page. The 'Instance Type' section shows an i2.micro instance with 1 vCPU and 1.75 ECUs. The 'Security Groups' section shows a security group named 'launch-wizard-1' with an inbound rule for SSH (TCP) from 0.0.0.0/0. The 'Storage' section shows a root volume of 8 GiB. A modal dialog titled 'Select an existing key pair or create a new key pair' is open, showing a dropdown menu with 'Create a new key pair' and 'RSA ED25519'. The 'Key pair name' field contains 'phase5_aws_project'. A note at the bottom of the modal says: 'You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.' Below the modal are 'Cancel' and 'Launch Instances' buttons. A red arrow points from the 'phase5_aws_project.pem' file in the file explorer window to the 'Name' field in the 'Select an existing key pair' dialog.

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

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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](#)

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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...

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The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with links like 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances' (selected), 'Images', 'AMIs', and 'Elastic Block Store'. The main content area displays a table titled 'Instances (1) Info' with one row. The row details are: Name (empty), Instance ID (i-03151d5c74c30423b), Instance state (Running), Instance type (t2.micro), Status check (Initializing), Alarm status (No alarms), Availability Zone (us-east-1d), Public IPv4 DNS (ec2-54-235-5-192.com...), and Public IPv4 IP (54.235.5.192). Below the table, a modal window says 'Select an instance above'.

The screenshot shows the AWS S3 Buckets page. The left sidebar includes 'Amazon S3' (selected), 'Buckets' (selected), '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' (selected), 'Dashboards', 'AWS Organizations settings', and 'Feature spotlight' (3 notifications). The main content area has a blue banner with two informational messages: 'We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.' and 'AWS Snow Family is a suite of highly-secure, portable devices equipped to transfer petabytes of data into Amazon S3.' Below the banner is a section titled 'Amazon S3' with a 'Account snapshot' card (View Storage Lens dashboard) and a 'Buckets (0) Info' card. The 'Buckets (0) Info' card includes a search bar, buttons for 'Copy ARN', 'Empty', 'Delete', and 'Create bucket', and a table header for 'Name', 'AWS Region', 'Access', and 'Creation date'. A message below the table says 'No buckets. You don't have any buckets.' with a 'Create bucket' button. At the bottom, there's a footer with 'Feedback', 'English (US)', and copyright information.

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

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Amazon S3 > Create bucket

Create bucket Info

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

General configuration

Bucket name Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

Copy settings from existing bucket - *optional*
Only the bucket settings in the following configuration are copied.
[Choose bucket](#)

Block Public Access settings for this bucket
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

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

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Create bucket X

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

When you create a bucket, you enter the bucket name and choose the AWS Region. After you create the bucket, you can't change the name or Region. Bucket ownership is not transferrable.

Configure your bucket properties and permissions. You can copy settings from an existing bucket or configure settings for your bucket.

[Learn more](#)

[Creating a bucket](#) [Buckets overview](#) [Restrictions and limitations](#)

The screenshot shows the 'Create bucket' wizard in the AWS S3 console. On the left, the navigation pane includes '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' (with 'Dashboards' and 'AWS Organizations settings'), 'Feature spotlight', and 'AWS Marketplace for S3'. The main area is titled 'Create bucket' with a sub-section 'General configuration'. It shows a 'Bucket name' input field containing 'myphasefivebucket', a 'AWS Region' dropdown set to 'US East (N. Virginia) us-east-1', and a 'Copy settings from existing bucket - optional' section with a 'Choose bucket' button. Below this is a section titled 'Block Public Access settings for this bucket' with four checkboxes: 'Block all public access', 'Block public access to buckets and objects granted through new access control lists (ACLs)', 'Block public access to buckets and objects granted through any access control lists (ACLs)', and 'Block public access to buckets and objects granted through new public bucket or access point policies'. A note states: 'Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases.' A 'Learn more' link is also present.

The screenshot shows the 'Buckets' page in the AWS S3 console. The left sidebar is identical to the previous screenshot. The main area displays a green banner stating 'Successfully created bucket "myphasefivebucket"' with a 'View details' button. Below this is an 'Account snapshot' section with a 'View Storage Lens dashboard' button. The 'Buckets (1) Info' section shows a table with one row for 'myphasefivebucket'. The table columns are 'Name', 'AWS Region', 'Access', and 'Creation date'. The data row shows 'myphasefivebucket', 'US East (N. Virginia) us-east-1', 'Objects can be public', and 'September 26, 2021, 15:28:05 (UTC-05:00)'. To the right of the table, there are sections for 'Buckets', 'Manage access', 'Configure your bucket', 'Understand storage usage and activity', and 'Privacy Policy', 'Terms of Use', and 'Cookie preferences' links at the bottom.

The screenshot shows the AWS S3 console interface for the 'myphasefivebucket'. The top navigation bar includes tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Below the tabs, there's a search bar and a 'Actions' dropdown. A prominent red arrow points to the 'Upload' button in the 'Actions' row. To the right of the main content area, there's a sidebar titled 'Objects' with descriptive text about object storage and management.

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](#)

[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](#)

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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*, *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.

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

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Amazon S3 > myphaselinebucket > Upload

Upload Info

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

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

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

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

Destination

Destination
s3://myphaselinebucket

▶ **Destination details**
Bucket settings that impact new objects stored in the specified destination.

▶ **Permissions**
Grant public access and access to other AWS accounts.

▶ **Properties**
Specify storage class, encryption settings, tags, and more.

Cancel **Upload**

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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

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Upload succeeded View details below.

Upload: status

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%)

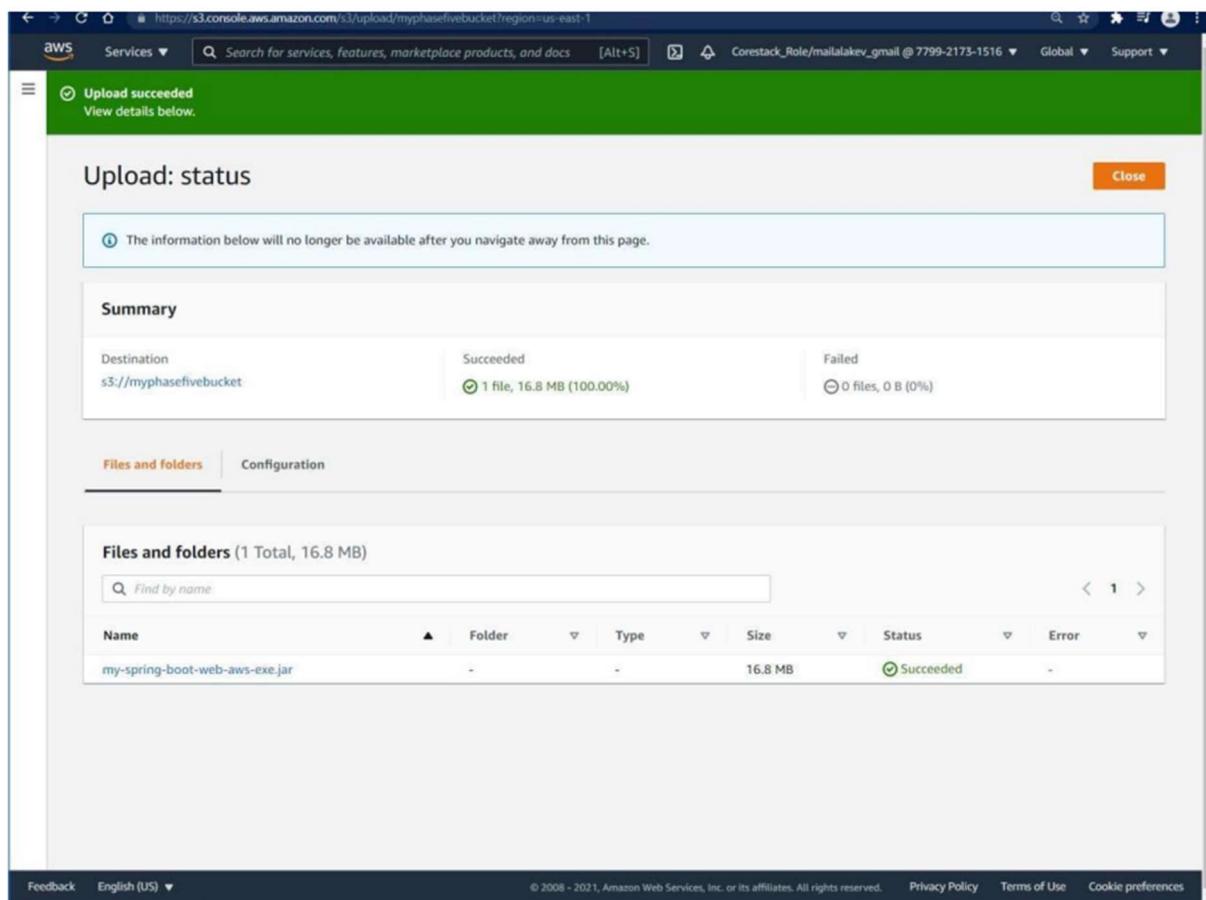
Files and folders Configuration

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	-

Find by name < 1 >

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

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Amazon S3 > myphaselinebucket > Make public

Make public Info

The make public action enables public read access in the object access control list (ACL) settings. Learn more ?

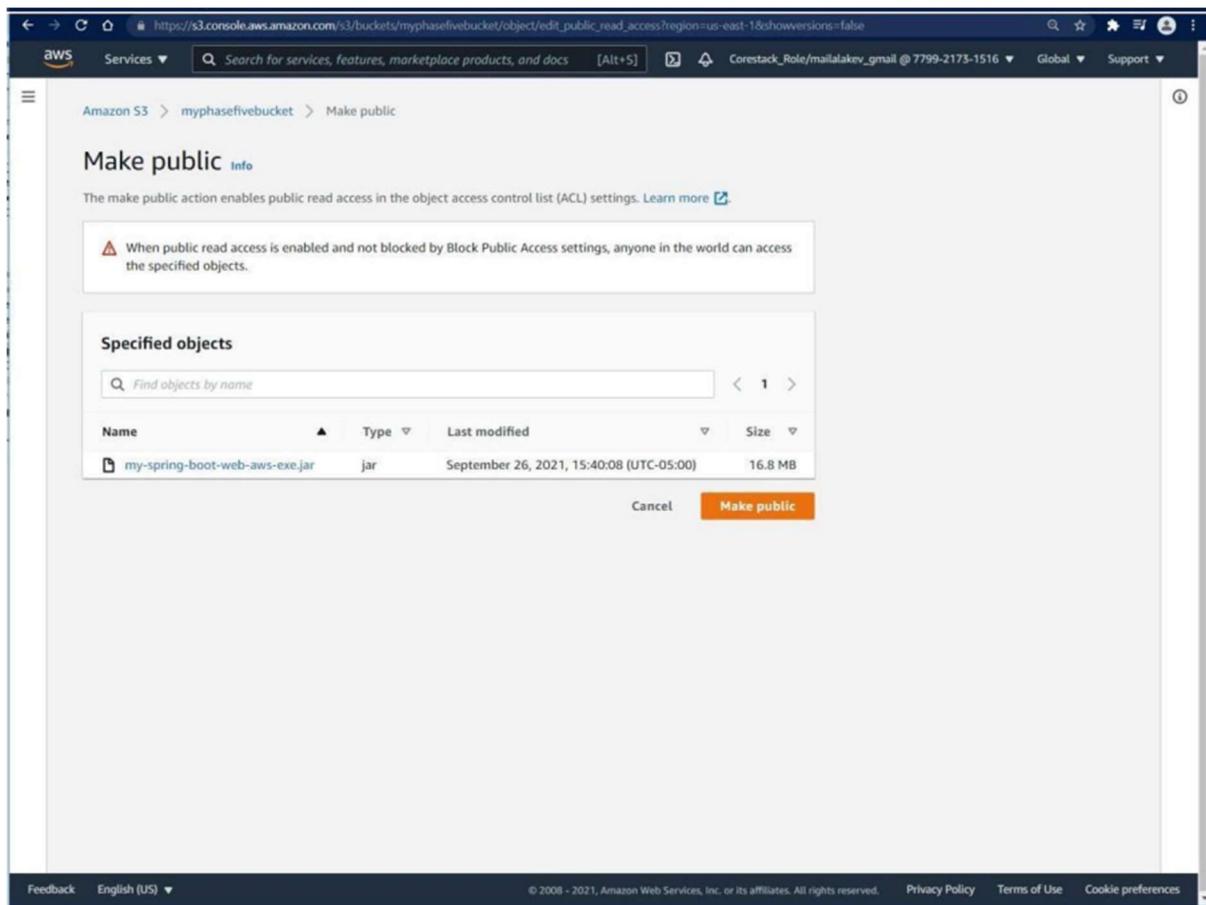
Specified objects

Find objects by name < 1 >

Name	Type	Last modified	Size
my-spring-boot-web-aws-exe.jar	jar	September 26, 2021, 15:40:08 (UTC-05:00)	16.8 MB

Cancel **Make public**

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The screenshot shows the AWS S3 console interface. A red box highlights the 'Object URL' field, which contains the URL `https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar`. A red arrow points from this URL to a terminal window below, with the label 'Paste' above it. The terminal window shows a root shell on an Amazon Linux instance, with the command `wget https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar` being typed.

Amazon S3 > myphasefivebucket > 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	S3 URI
claaslabs+5f3425062d11de6d6706a89f	s3://myphasefivebucket/my-spring-boot-web-aws-exe.jar
AWS Region	Amazon Resource Name (ARN)
US East (N. Virginia) us-east-1	arn:aws:s3:::myphasefivebucket/my-spring-boot-web-aws-exe.jar
Last modified	Entity tag (Etag)
September 26, 2021, 15:40:08 (UTC-05:00)	cf1df45c09cece875e3ebba910bb8b49-2
Size	Object URL
16.8 MB	https://myphasefivebucket.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 management settings are available:

Bucket properties

Bucket Versioning

When enabled, multiple variants of an object can be stored in the same key.

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phase5_aws_proj.pem

Screenshot of the AWS S3 console showing the details of the object `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

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.
- Object details:
 - S3 URI: `s3://myphasefivebucket/my-spring-boot-web-aws-exe.jar`
 - Amazon Resource Name (ARN): `arn:aws:s3:::myphasefivebucket/my-spring-boot-web-aws-exe.jar`
 - Entity tag (Etag): `cf1df45c09ce875e3ebba910bb8b49-2`
 - Object URL: `https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar`

Terminal Session:

```
root@ip-172-31-94-6:~# curl -O https://myphasefivebucket.s3.amazonaws.com/my-spring-boot-web-aws-exe.jar
  % Total    Speed     Time   Current  Total
  [=====>] 17,646,207  41.7MB/s    0.4s
2021-09-26 20:45:54 (41.7 MB/s) - 'my-spring-boot-web-aws-exe.jar' saved [17646207]
[root@ip-172-31-94-6 ~]# JAR FILE uploaded to EC2 INSTANCE!
```

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

Screenshot of the AWS S3 console showing the details of the file `my-spring-boot-web-aws-exe.jar`. The Object URL is highlighted.

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

Object management overview

The following bucket properties and options are set:

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

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JAR FILE on EC2!

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

Screenshot of the AWS EC2 Instances page showing the connection options for instance `i-03151d5c74c30423b`.

Connect to instance

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

- EC2 Instance Connect**
- Session Manager**
- SSH client** (selected)
- EC2 Serial Console**

Instance ID: i-03151d5c74c30423b

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


```
chmod 400 phase5_aws_project.pem
```
- Connect to your instance using its Public DNS:

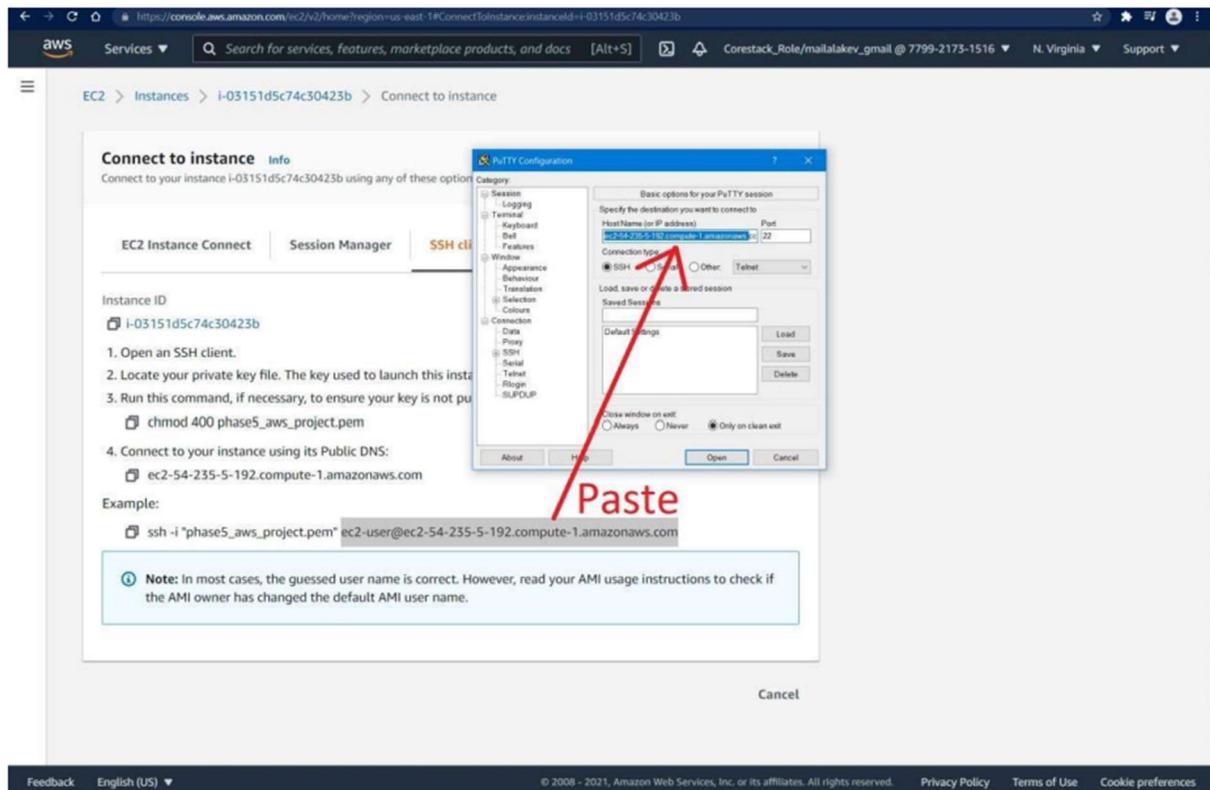

```
ec2-54-235-5-192.compute-1.amazonaws.com
```

Example:

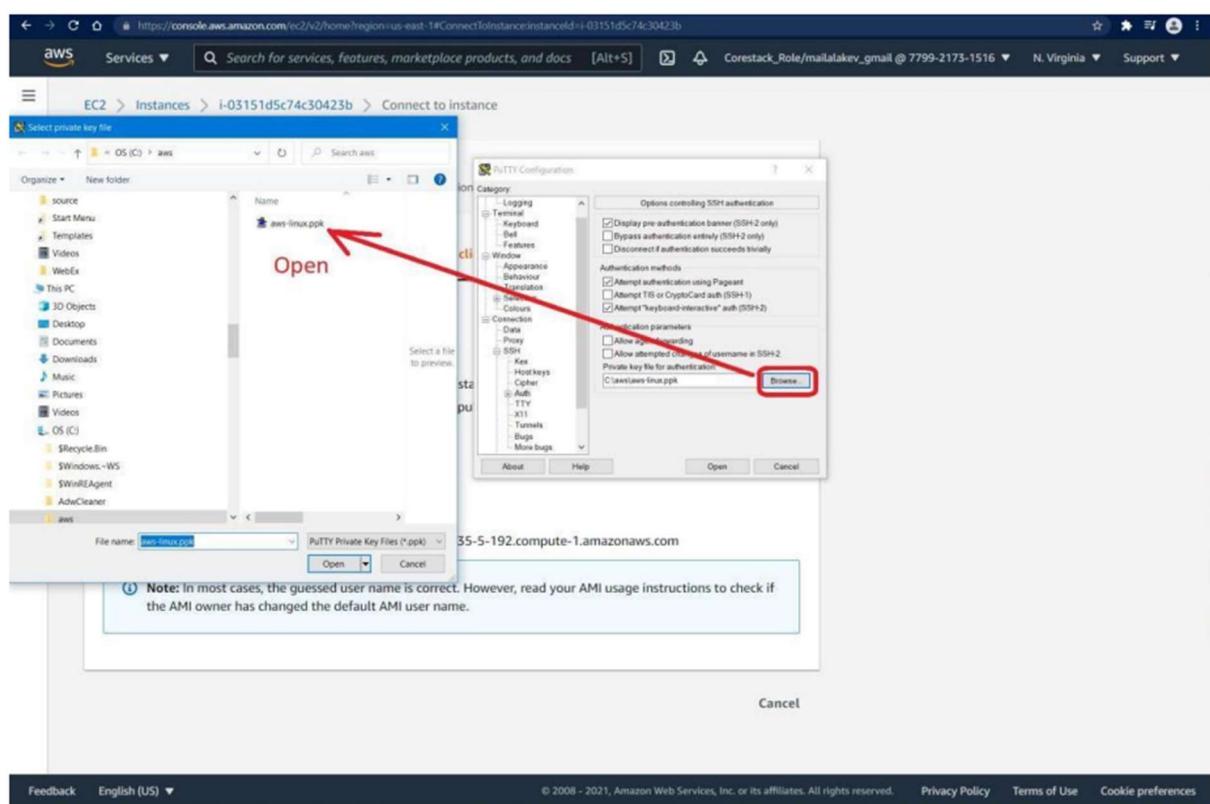
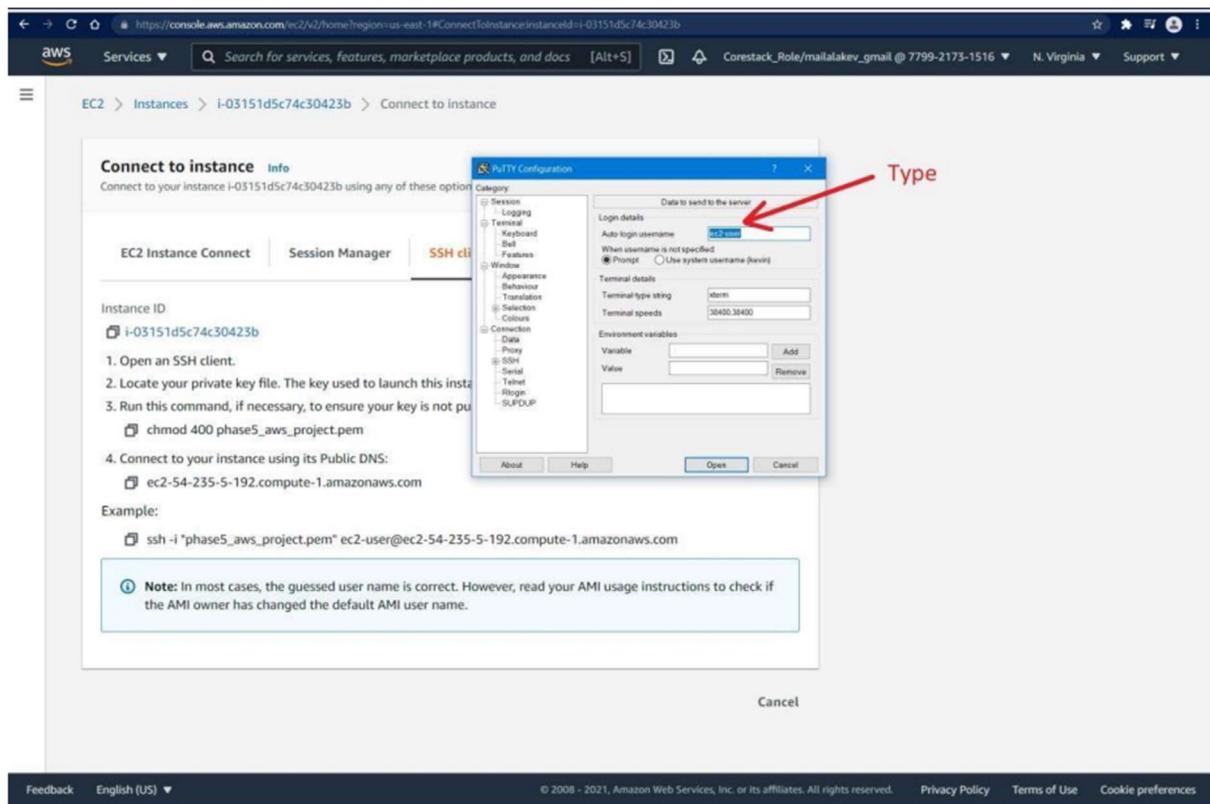
```
ssh -i "phase5_aws_project.pem" ec2-user@ec2-54-235-5-192.compute-1.amazonaws.com
```

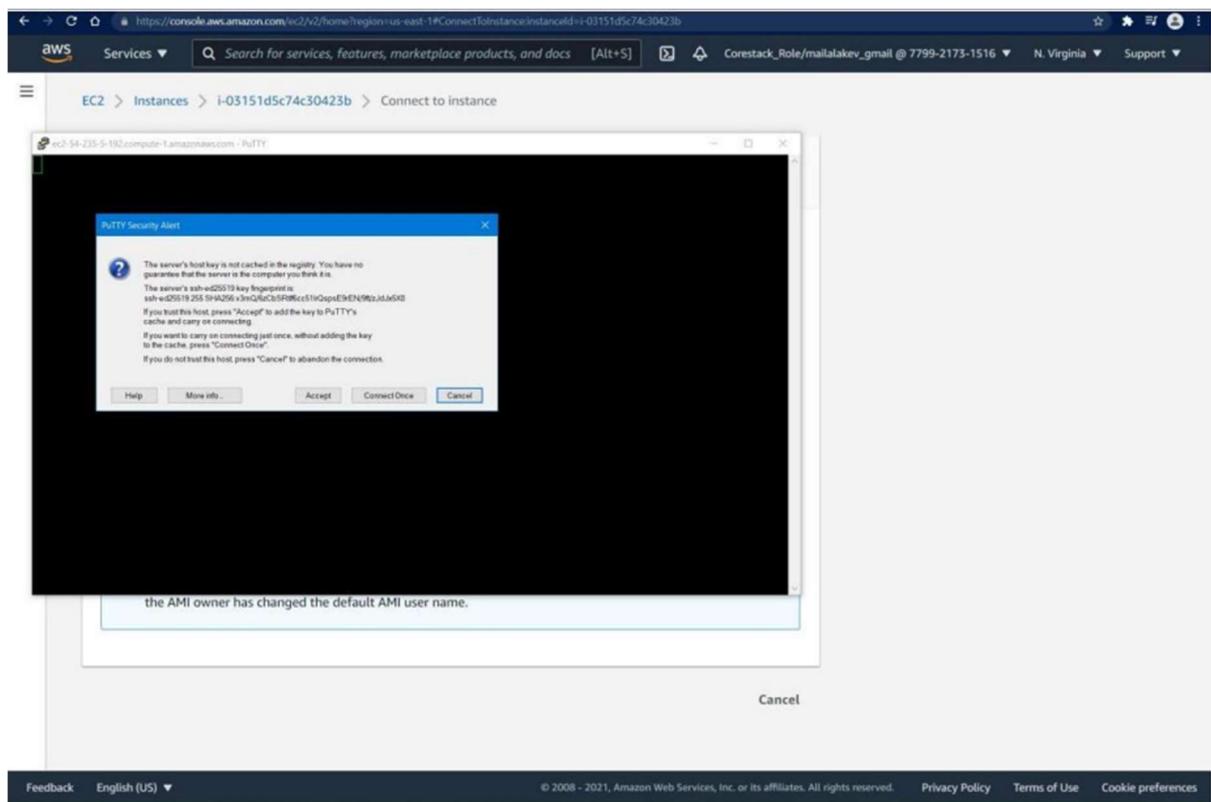
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

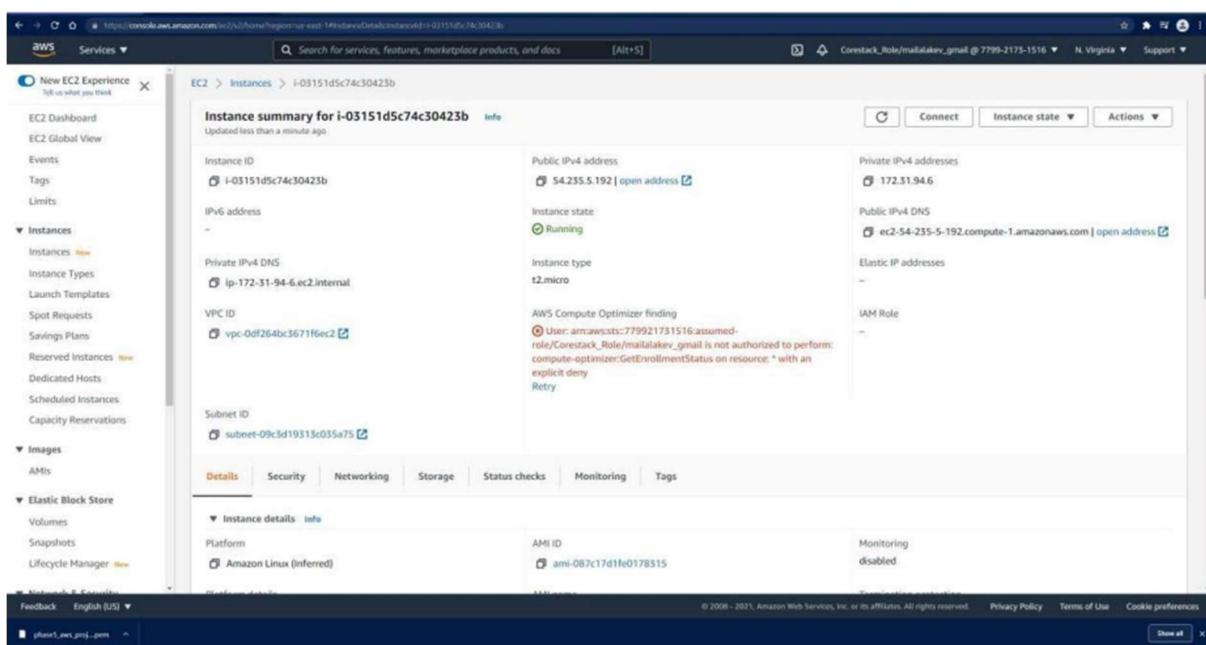
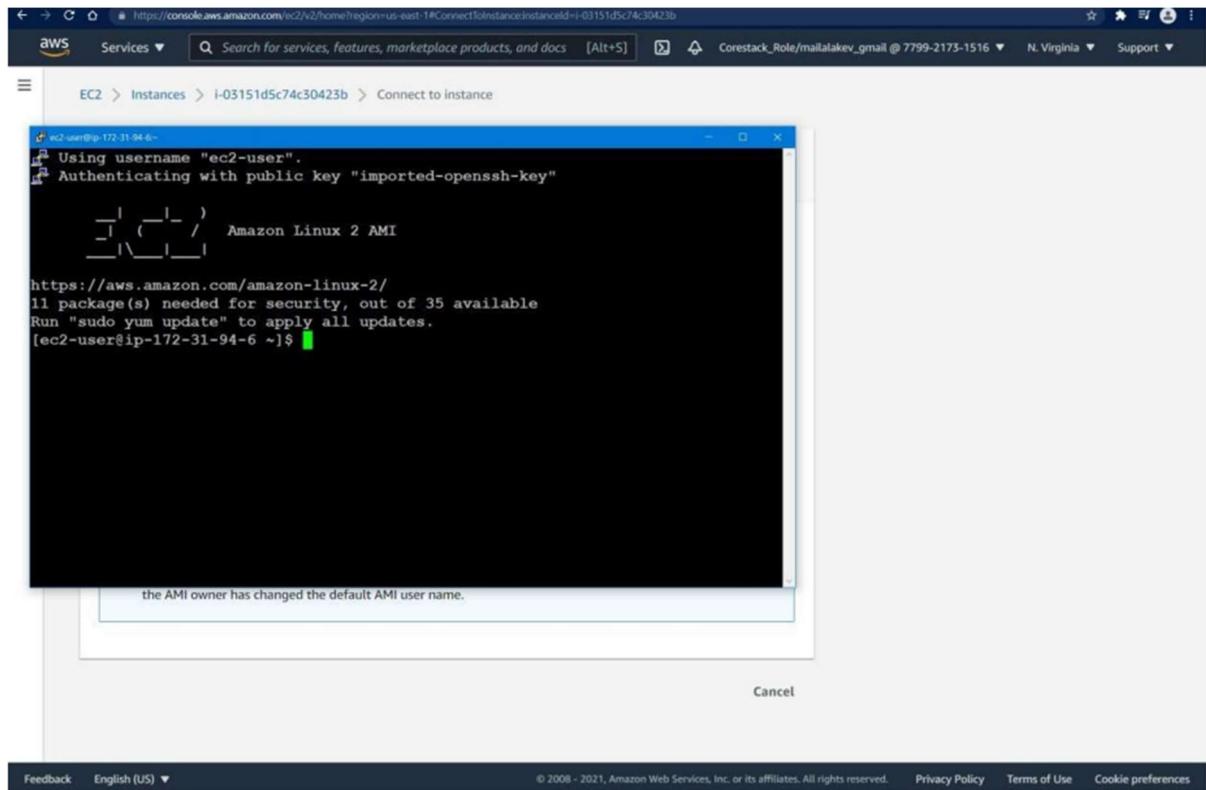
Cancel



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Screenshot of the AWS EC2 Instances page showing the instance summary for i-03151d5c74c30423b. The Public IPv4 address field (54.235.5.192) is highlighted with a red box and an orange arrow pointing to the word "COPY".

Instance summary for i-03151d5c74c30423b

Public IPv4 address: 54.235.5.192 | open address

Instance state: Running

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

VPC ID: vpc-0df264bc3671f6ec2

Subnet ID: subnet-09c3d19313c035a75

Networking

You can now check network connectivity with Reachability Analyzer.

Run Reachability Analyzer

Screenshot of the AWS EC2 Instances page showing the instance summary for i-03151d5c74c30423b. A modal window titled "NTRIP Key Generator" is displayed over the networking details. The "Actions" section contains buttons for "Generate", "Load", "Save public key", and "Save private key". The "Parameters" section includes a dropdown for "Type of key to generate" with options: RSA (selected), DSA, ECDSA, and ECDH. The "Number of bits in a generated key" dropdown is set to 2048.

Instance summary for i-03151d5c74c30423b

Public IPv4 address: 54.235.5.192 | open address

Private IPv4 addresses: 172.51.94.6

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

Elastic IP addresses: -

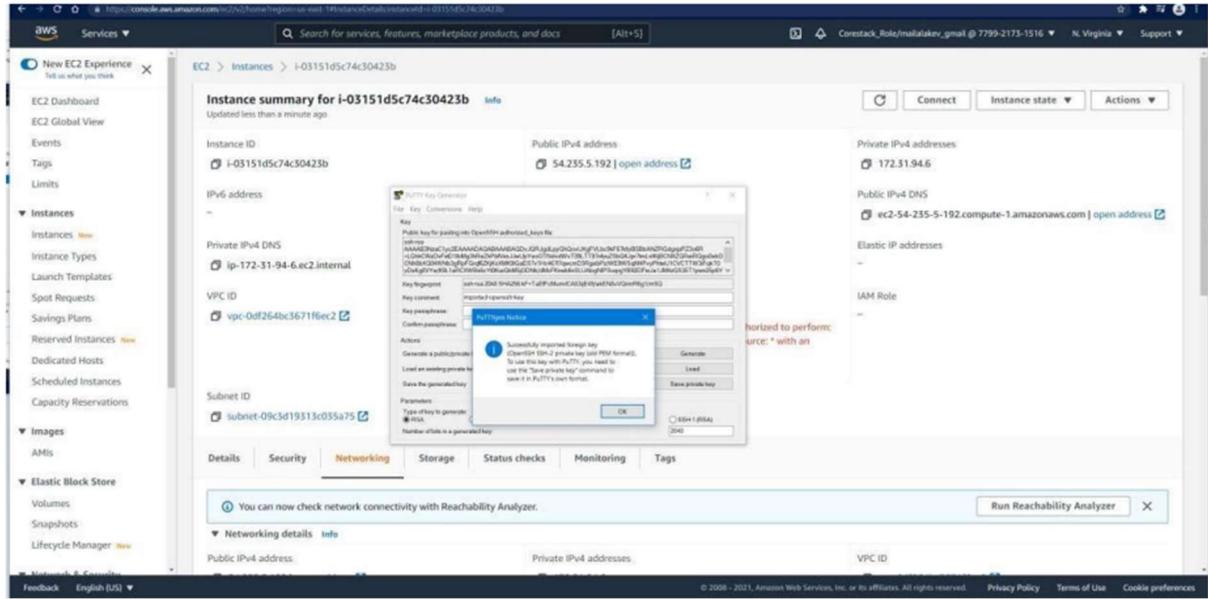
IAM Role: -

Networking

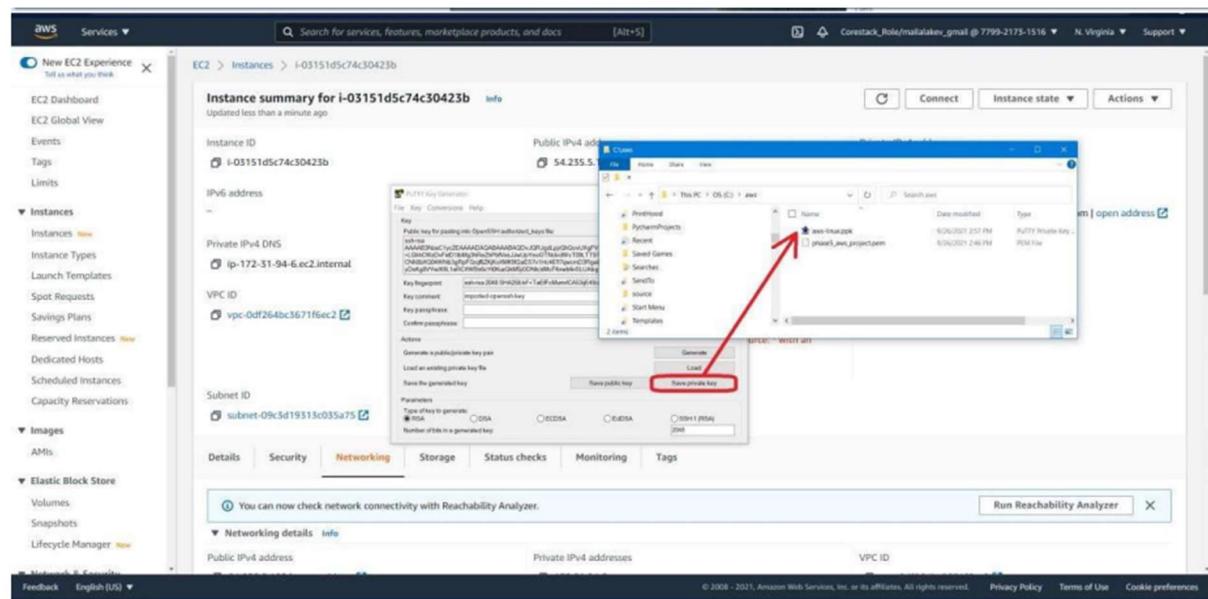
You can now check network connectivity with Reachability Analyzer.

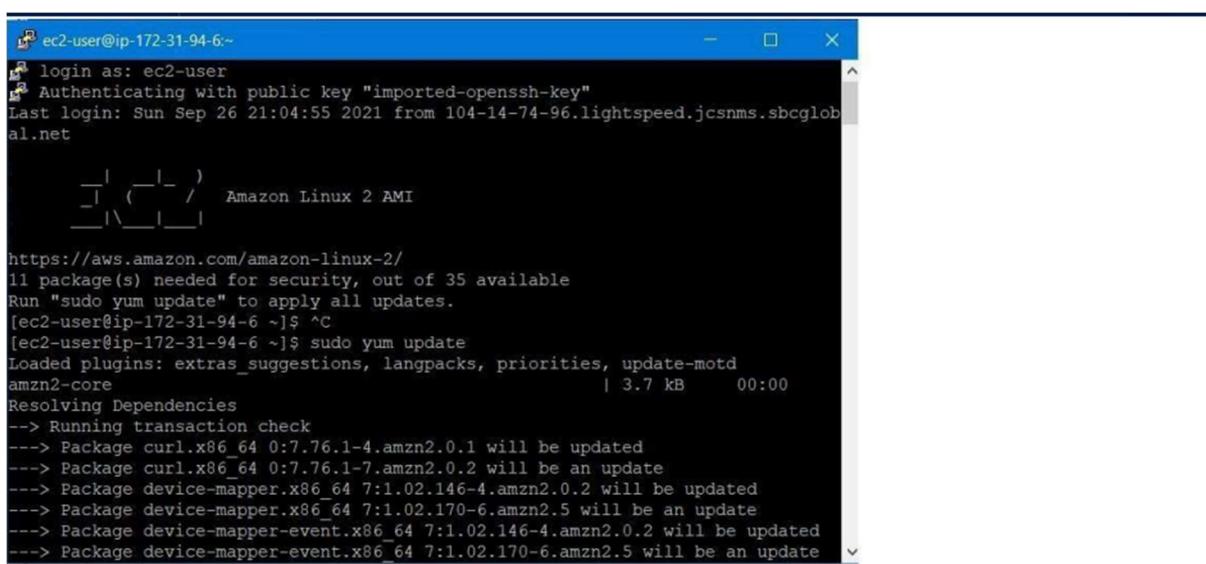
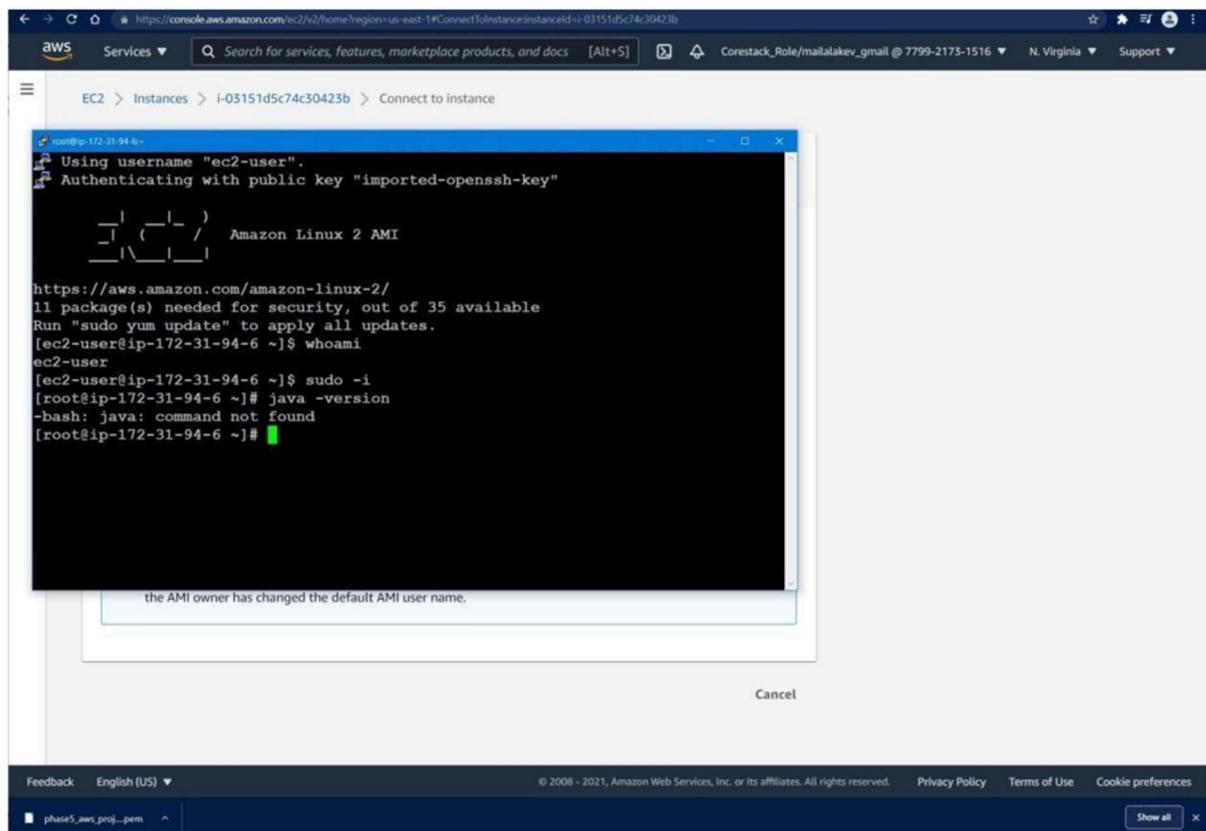
Run Reachability Analyzer

Screenshot of the AWS EC2 Instances page showing the instance summary for i-03151d5c74c30423b. The Networking tab is selected. A modal window titled "PUTTY Key Generator" is open, prompting the user to save a private key. The "Save private key" button is highlighted.



Screenshot of the AWS EC2 Instances page showing the instance summary for i-03151d5c74c30423b. The Networking tab is selected. A modal window titled "PUTTY Key Generator" is open, prompting the user to save a private key. The "Save private key" button is highlighted. A red arrow points from the "Save private key" button to a file named "aws-lintazpp" in a Windows File Explorer window, indicating where the private key was saved.





```
[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
[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: yum: command not found
[ec2-user@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-2.4.48-2.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 ~]
[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 AMI
[ec2-user@ip-172-31-94-6 ~]$ 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%[=====] 85
2021-09-26 22:31:30 (6.08 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]
[ec2-user@ip-172-31-94-6 ~]$
```

INSTALL (JENKINS) into our EC2 Instance

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

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

100%[=====] 85 --:-- --:-- --:-- 6.08 MB/s

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

[ec2-user@ip-172-31-94-6 ~]$ sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
[ec2-user@ip-172-31-94-6 ~]$ sudo yum upgrade
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
jenkins
jenkins/primary_db
No packages marked for update
[ec2-user@ip-172-31-94-6 ~]$
```

Jenkins now installed on EC2 Instance

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

100%[=====] 85 --:-- --:-- --:-- 6.08 MB/s

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

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

installed Java 1.8 on Jenkins, EC2 session

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

Downloading packages:
(1/2): daemonize-1.7.7-1.el7.x86_64.rpm | 21 kB 00:00:00
(2/2): jenkins-2.303.1-1.1.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

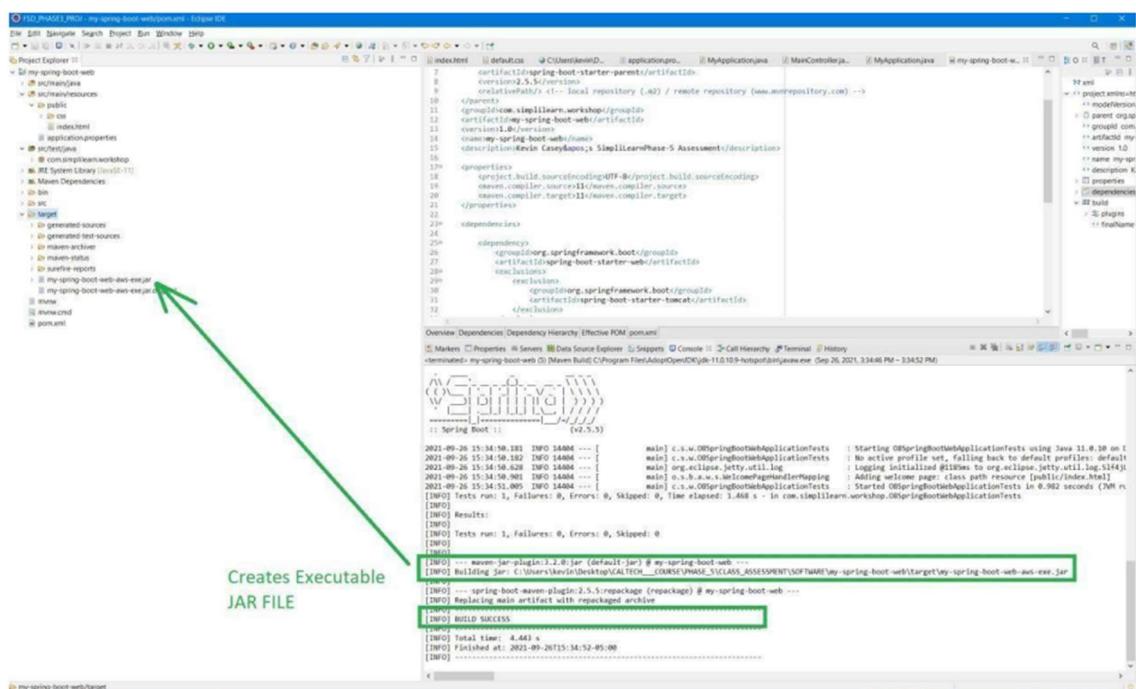
Dependency Installed:
 daemonize.x86_64 0:1.7.7-1.el7

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



```

[ec2-user@ip-172-31-94-6 ~]
$ login as: ec2-user
Authenticating with public key "imported-ssh-key"
Last login: Sun Sep 26 22:14:09 2021 from 104-14-74-96.lightspeed.jcsmms.sbcglob
al.net
[ec2-user@ip-172-31-94-6 ~]$ java -jar my-spring-boot-web-aws-exe.jar
Now running my Spring-Boot App
on EC2 instance
:: Spring Boot :: (v2.3.0.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
l/default
2020-06-06 14:14:44.109 INFO 23604 --- [           main] o.a.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] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.
2020-06-06 14:14:44.306 INFO 23604 --- [           main] o.a.c.c.C.[Tomcat].[localhost].{/} : Initializing Spring embedded WebApplicationCo
2020-06-06 14:14:44.311 INFO 23604 --- [           main] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization c
2777 ms
2020-06-06 14:14:45.199 INFO 23604 --- [           main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTa
2020-06-06 14:14:45.637 INFO 23604 --- [           main] o.a.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 8

```

