BhavyaSree Gangulakunta's

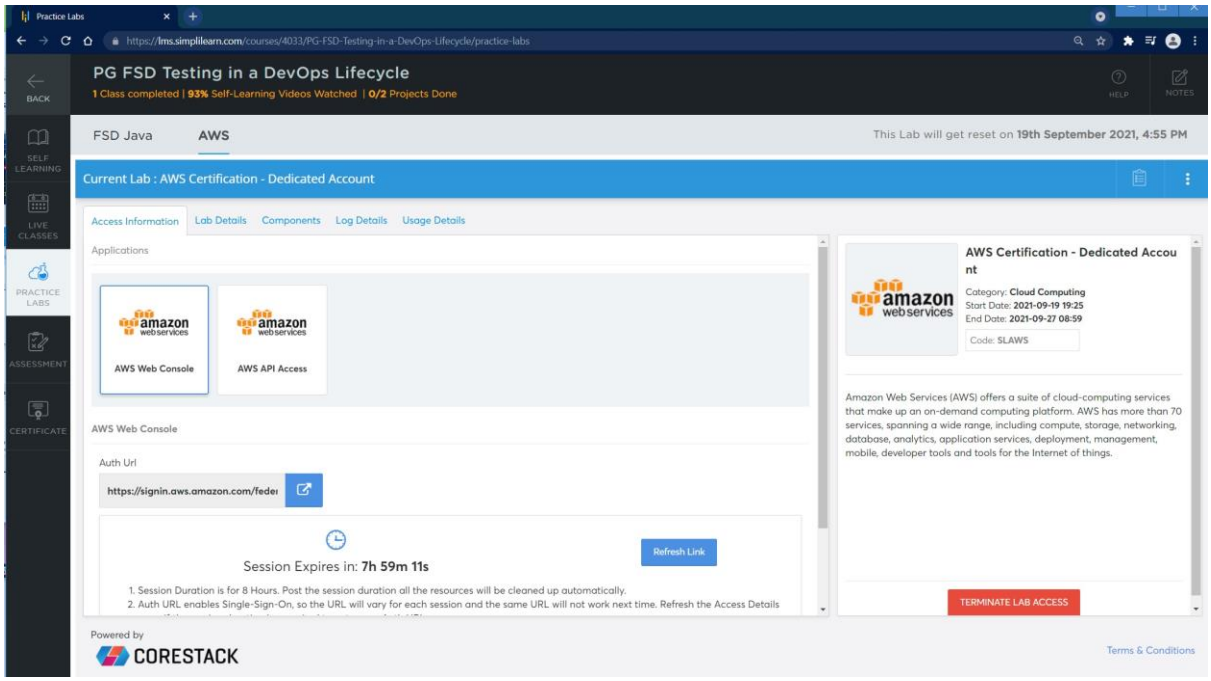
SPRING-BOOT Web App

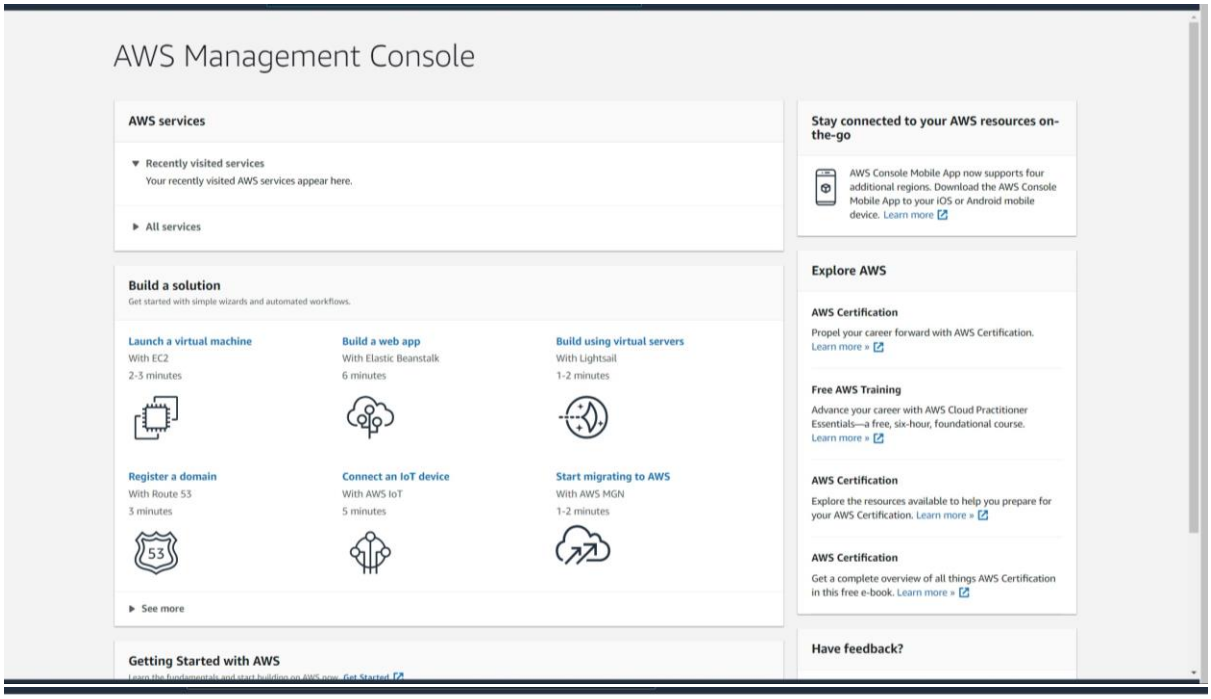
As requested by management, this is my final product stage, demonstrating the automated, integrated, and deployed spring-boot web application.

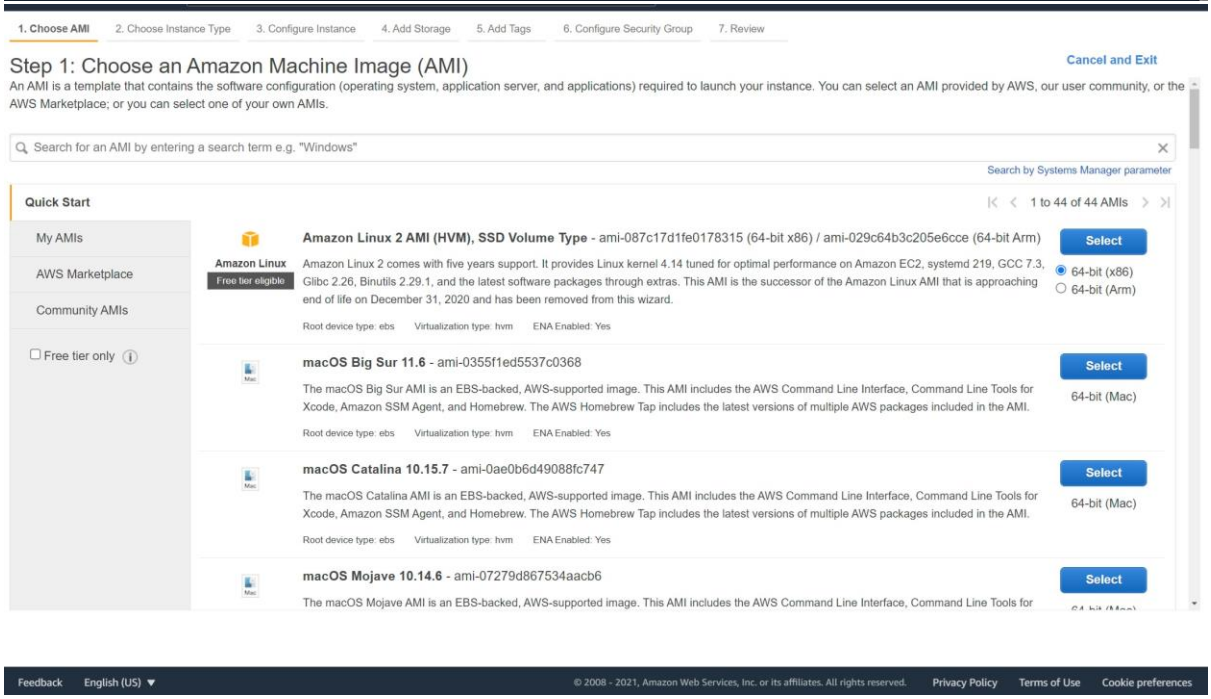
This is an environment where the application is hosted and accessed by users. The following were used in its development:

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

Feel free to contact BhavyaSree Gangulakunta with any new requests or upgrades to this product!







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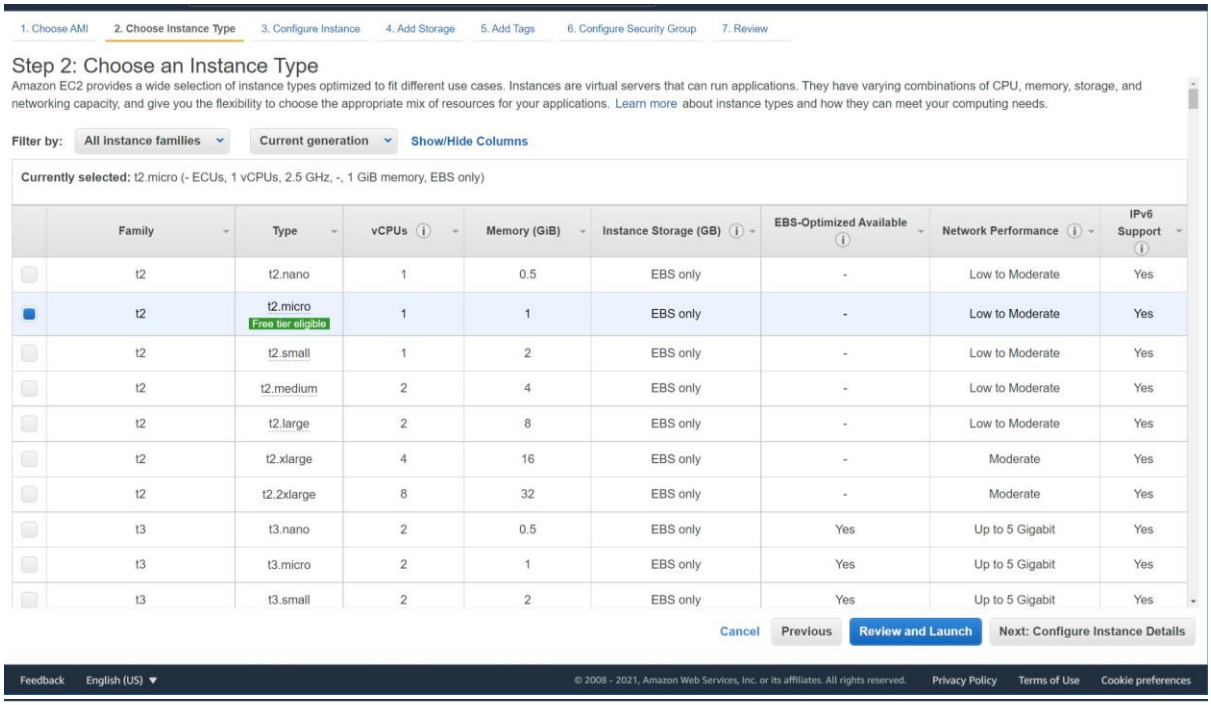
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. 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
Feedback
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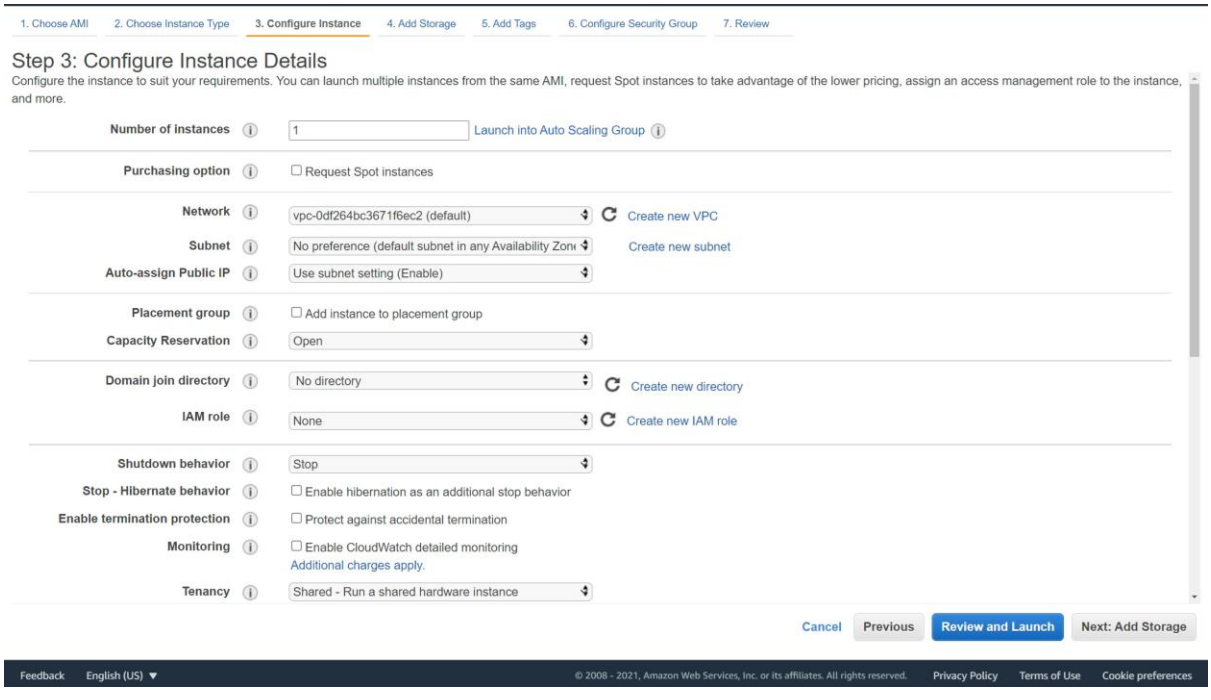
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage 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
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
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
Enable hibernation as an additional stop behavior
Enable termination protection
Protect against accidental termination
Monitoring
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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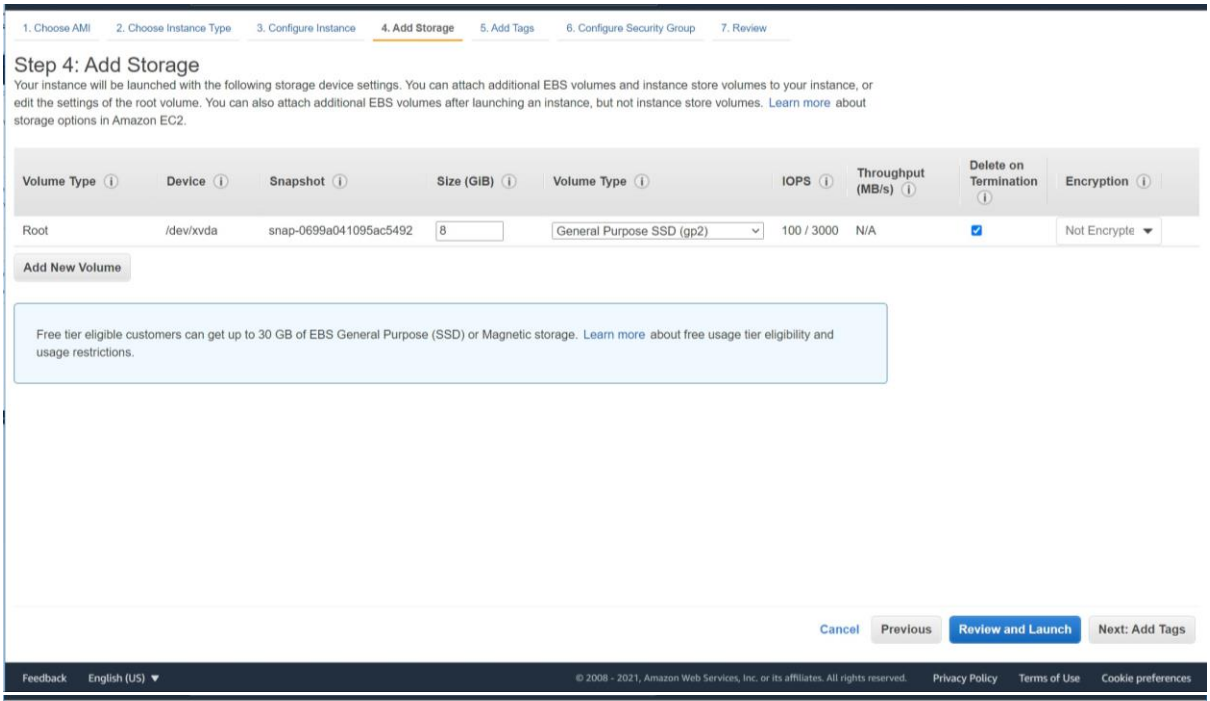
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, 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
Not Encrypte
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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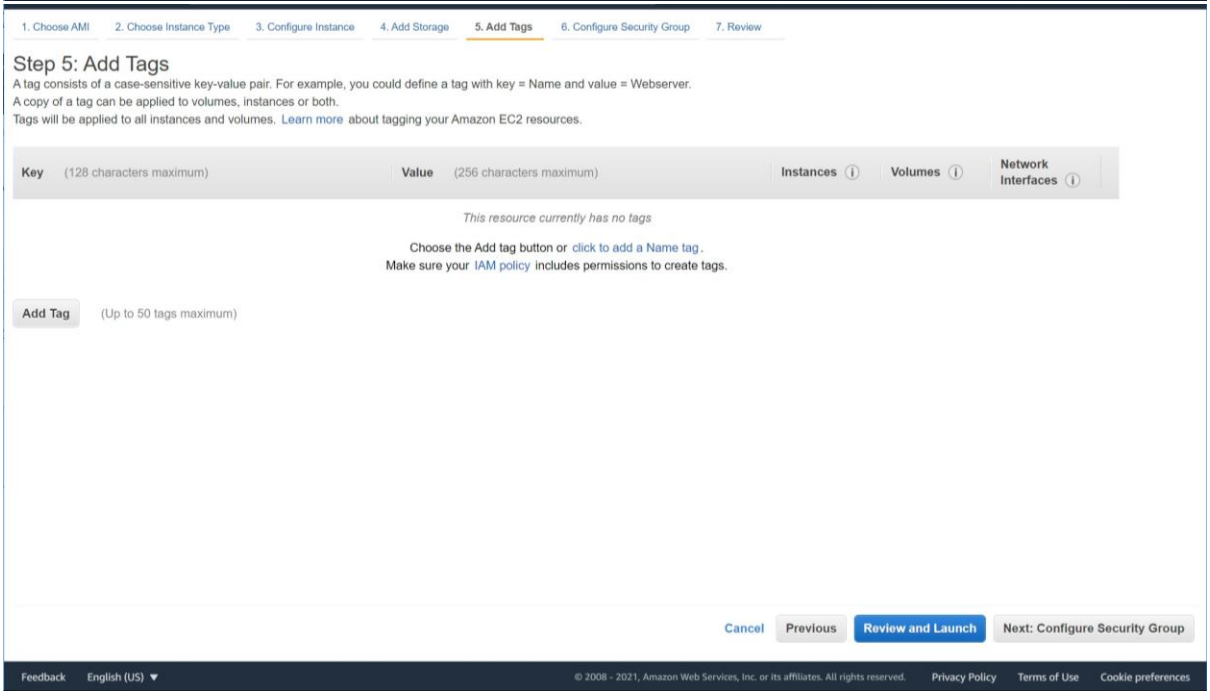
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to 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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1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | **6. Configure Security Group** | 7. Review

Step 6: Configure Security Group

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

Assign a security group: (•) Create a **new** security group
( ) Select an **existing** security group

Security group name: launch-wizard-1

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

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

Add Rule

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

Cancel | Previous | Review and Launch

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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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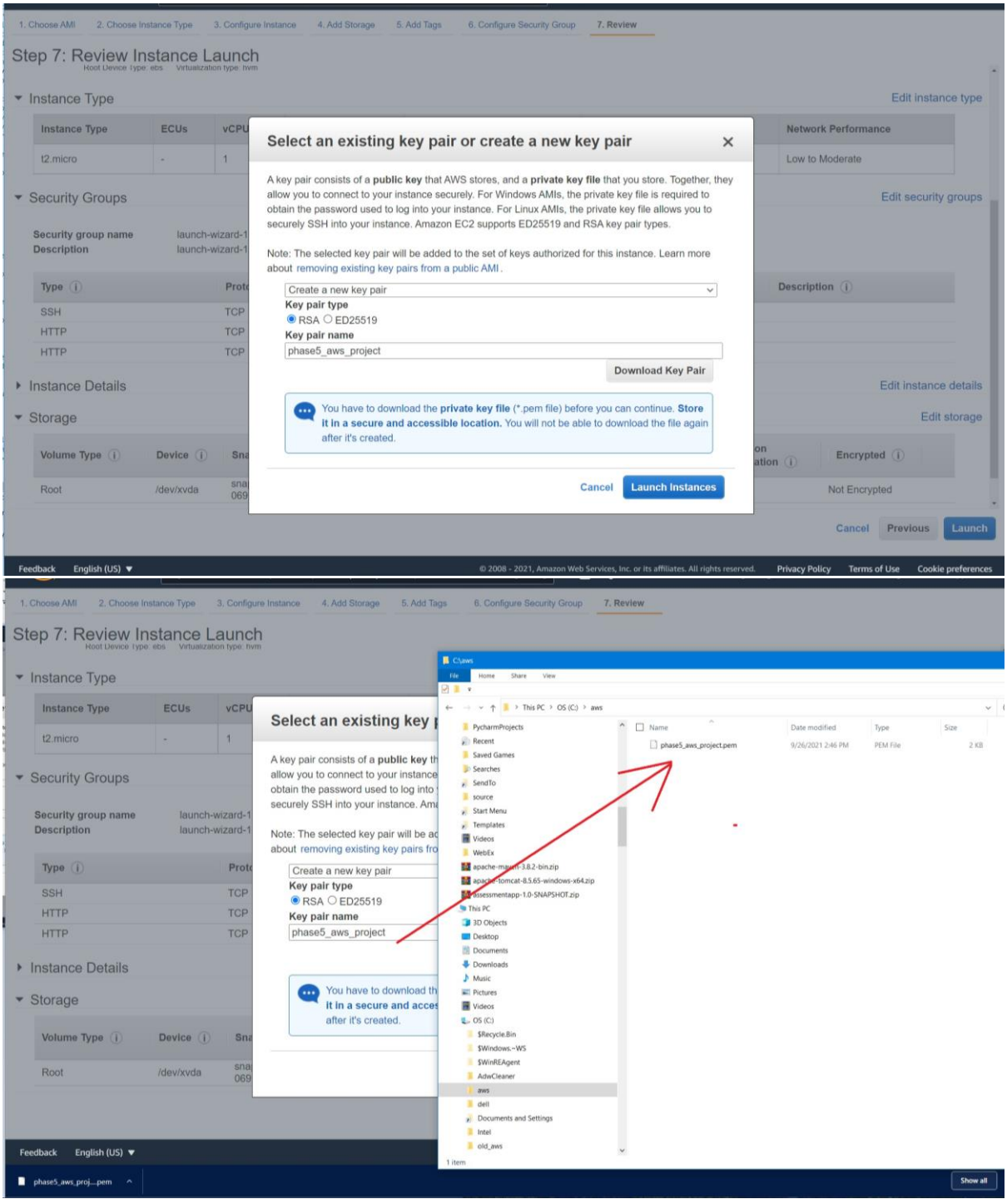
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
Instance Type
Edit instance type
Security Groups
Edit security groups
Instance Details
Edit instance details
Storage
Edit storage
Select an existing 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
Cancel
Previous
Launch
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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
Instance Type
Security Groups
Instance Details
Storage
Select an existing key
Create a new key pair
Key pair type
RSA ED25519
Key pair name
phase5_aws_project
C:\aws
This PC > OS (C:) > aws
phase5_aws_project.pem
9/26/2021 2:46 PM
PEM File
2 KB
Feedback
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phase5_aws_proj....pem
Show all

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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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
- Learn about AWS Free Usage Tier
- Amazon EC2: User Guide
- 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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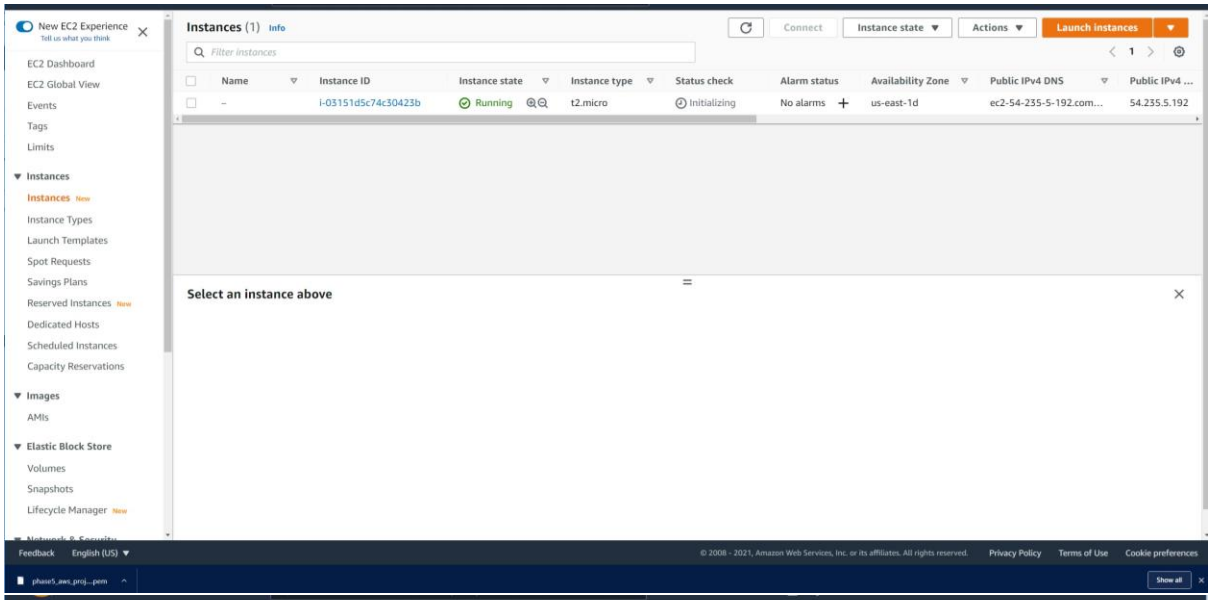
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager New
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Filter instances
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
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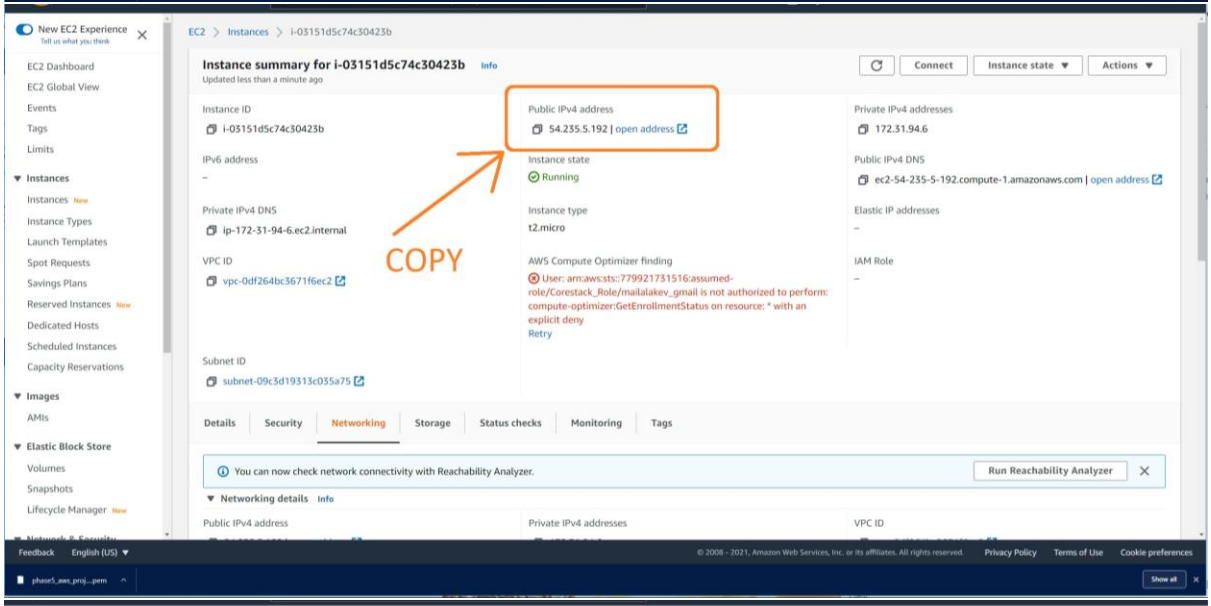
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager New
EC2 > Instances > i-03151d5c74c30423b
Instance summary for i-03151d5c74c30423b Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-03151d5c74c30423b
IPv6 address
–
Private IPv4 DNS
ip-172-31-94-6.ec2.internal
VPC ID
vpc-0df264bc3671f6ec2
Subnet ID
subnet-09c3d19313c035a75
Public IPv4 address
54.235.5.192 | open address
Instance state
Running
Instance type
t2.micro
AWS Compute Optimizer finding
User: arn:aws:sts::779921731516:assumed-role/Corestack_Role/mailalakev_gmail is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * with an explicit deny
Retry
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
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
You can now check network connectivity with Reachability Analyzer.
Run Reachability Analyzer
Networking details Info
Public IPv4 address
Private IPv4 addresses
VPC ID
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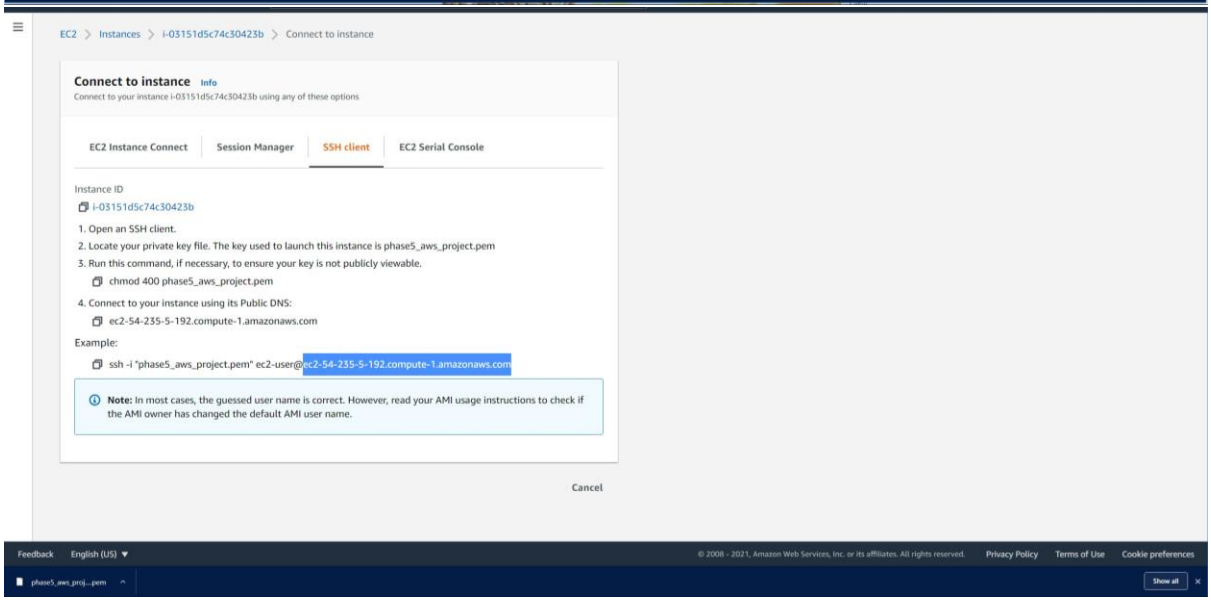
EC2 > Instances > i-03151d5c74c30423b > Connect to instance
Connect to instance Info
Connect to your instance i-03151d5c74c30423b using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 Serial Console
Instance ID
i-03151d5c74c30423b
1. Open an SSH client.
2. Locate your private 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.
chmod 400 phase5_aws_project.pem
4. 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
Feedback
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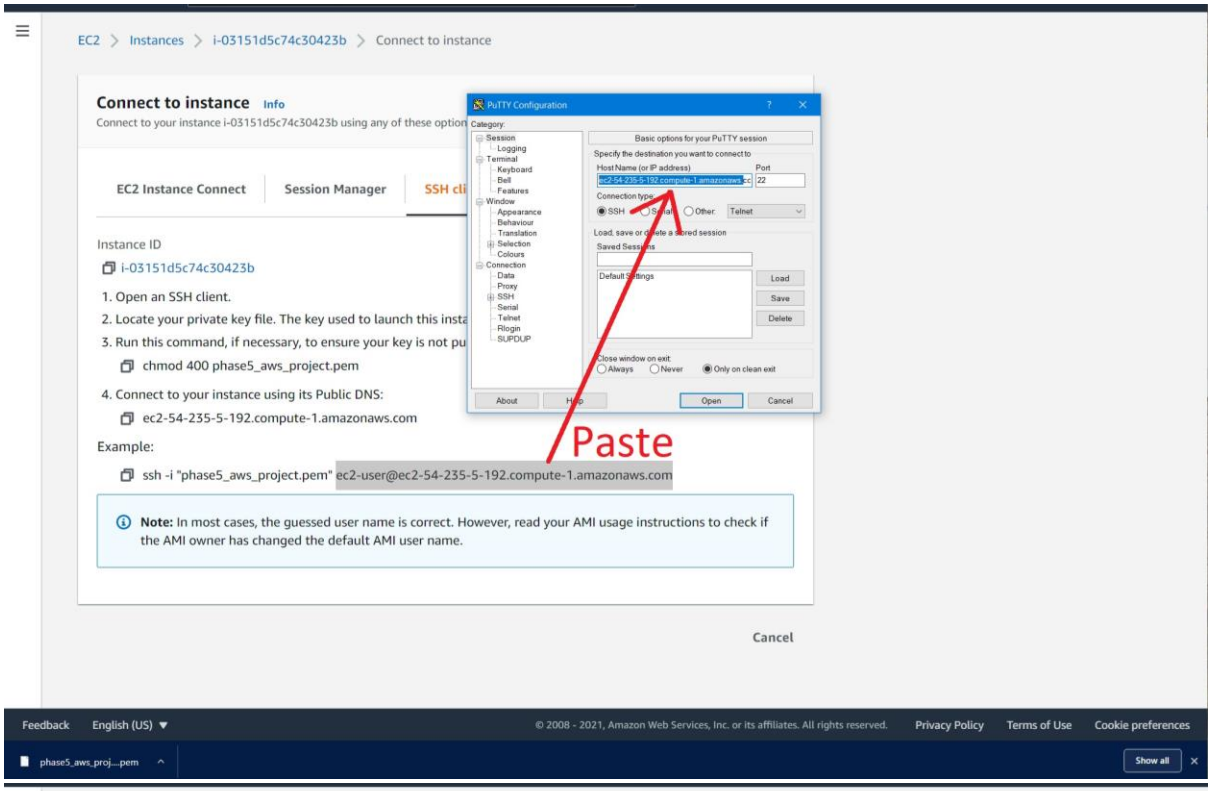
EC2 > Instances > i-03151d5c74c30423b > Connect to instance
Connect to instance Info
Connect to your instance i-03151d5c74c30423b using any of these option
EC2 Instance Connect
Session Manager
SSH cli
Instance ID
i-03151d5c74c30423b
1. Open an SSH client.
2. Locate your private key file. The key used to launch this insta
3. Run this command, if necessary, to ensure your key is not pu
chmod 400 phase5_aws_project.pem
4. 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.
PuTTY Configuration
Paste
Cancel
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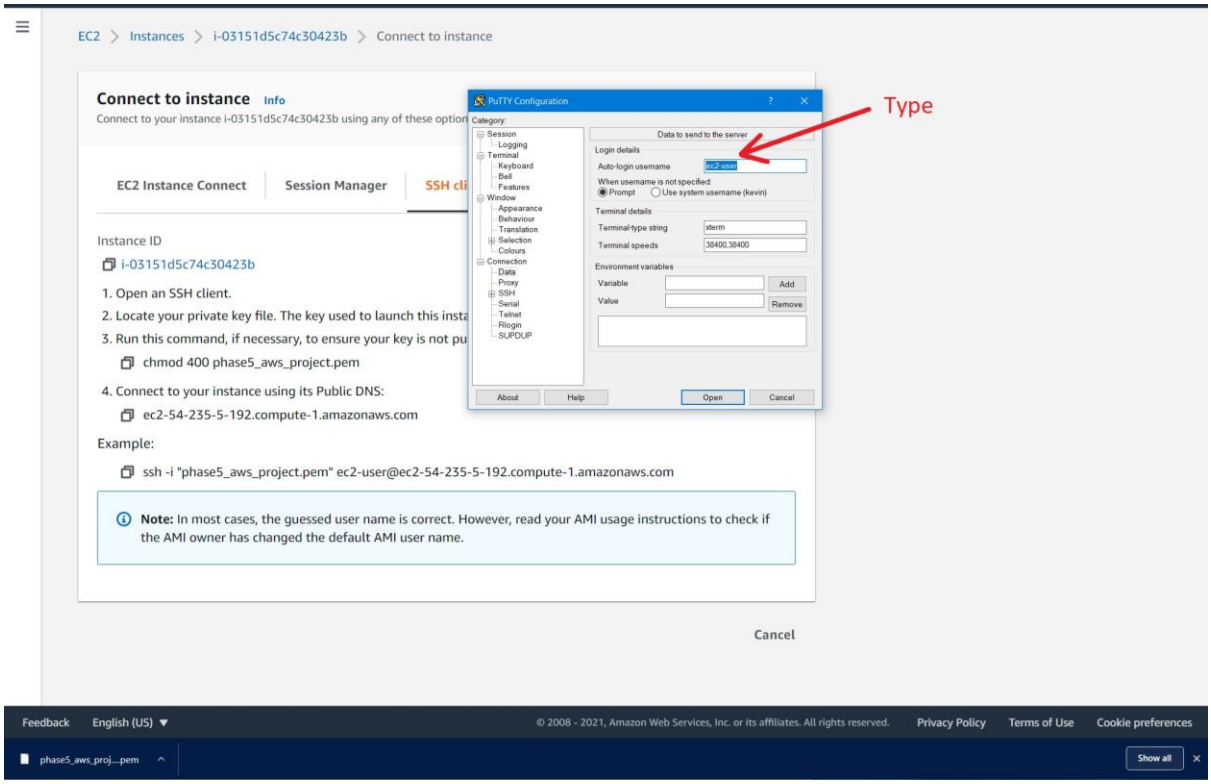
phase5_aws_proj....pem
Show all


EC2 > Instances > i-03151d5c74c30423b > Connect to instance
Connect to instance Info
Connect to your instance i-03151d5c74c30423b using any of these option
EC2 Instance Connect
Session Manager
SSH cli
Instance ID
i-03151d5c74c30423b
1. Open an SSH client.
2. Locate your private key file. The key used to launch this insta
3. Run this command, if necessary, to ensure your key is not pu
chmod 400 phase5_aws_project.pem
4. 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.
PuTTY Configuration
Type
Cancel
Feedback
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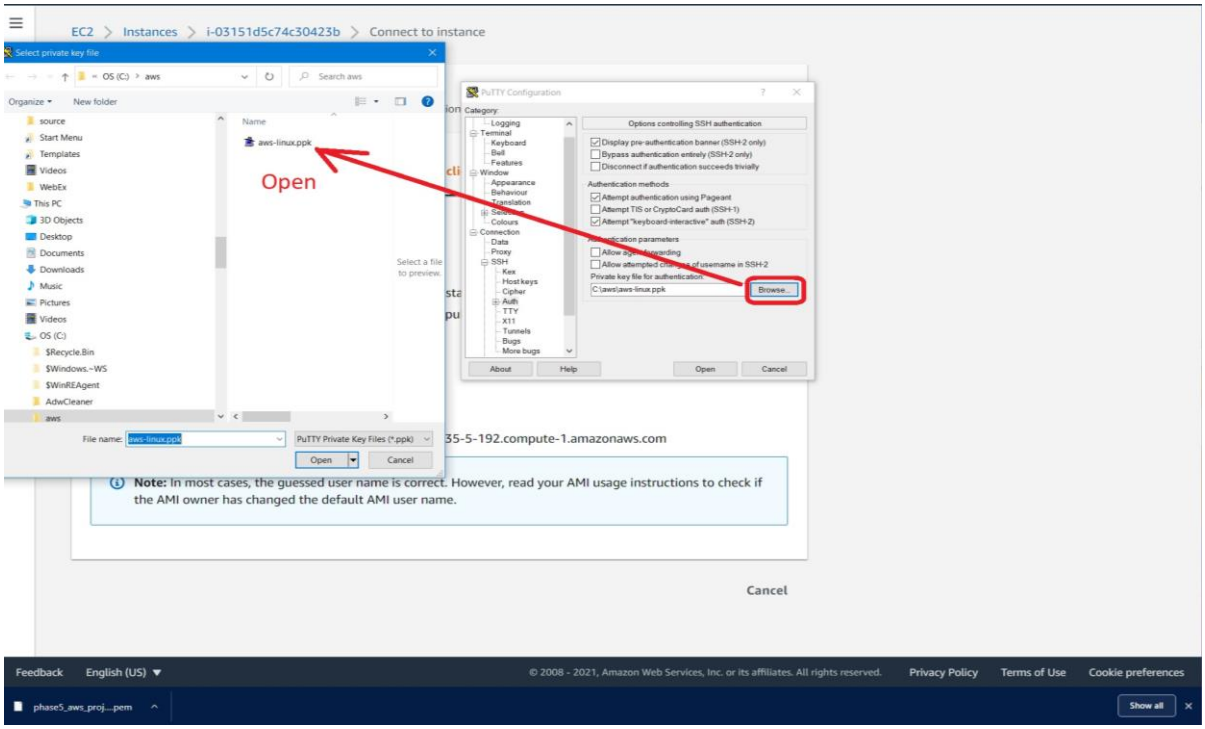
phase5_aws_proj....pem
Show all


EC2 > Instances > i-03151d5c74c30423b > Connect to instance
Select private key file
Open
PuTTY Configuration
aws-linux.ppk
Browse...
Open
Cancel
35-5-192.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
Feedback
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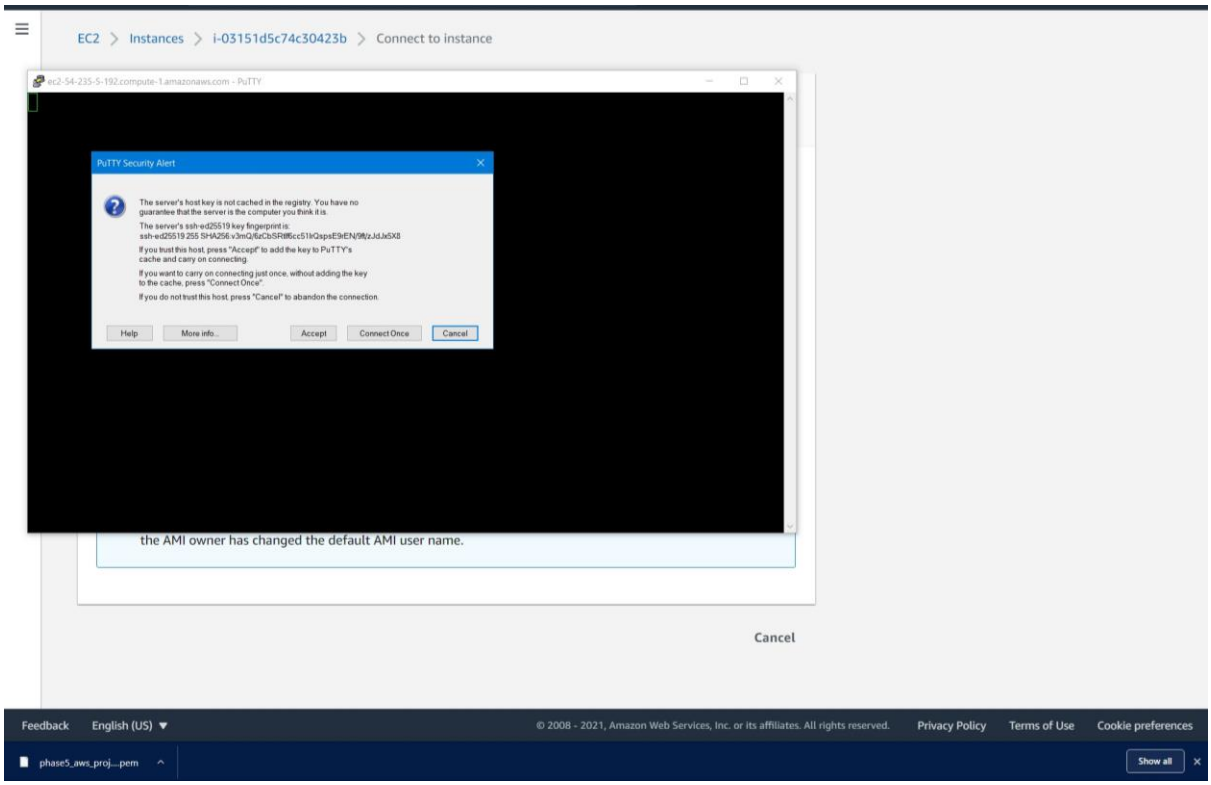
phase5_aws_proj....pem
Show all


EC2 > Instances > i-03151d5c74c30423b > Connect to instance
PuTTY Security Alert
The server's host key is not cached in the registry. You have no guarantee that the server is the computer you think it is.
If you trust this host, press "Accept" to add the key to PuTTY's cache and carry on connecting.
If you want to carry on connecting just once, without adding the key to the cache, press "Connect Once".
If you do not trust this host, press "Cancel" to abandon the connection.
Help
More info...
Accept
Connect Once
Cancel
the AMI owner has changed the default AMI user name.
Cancel
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phase5_aws_proj....pem
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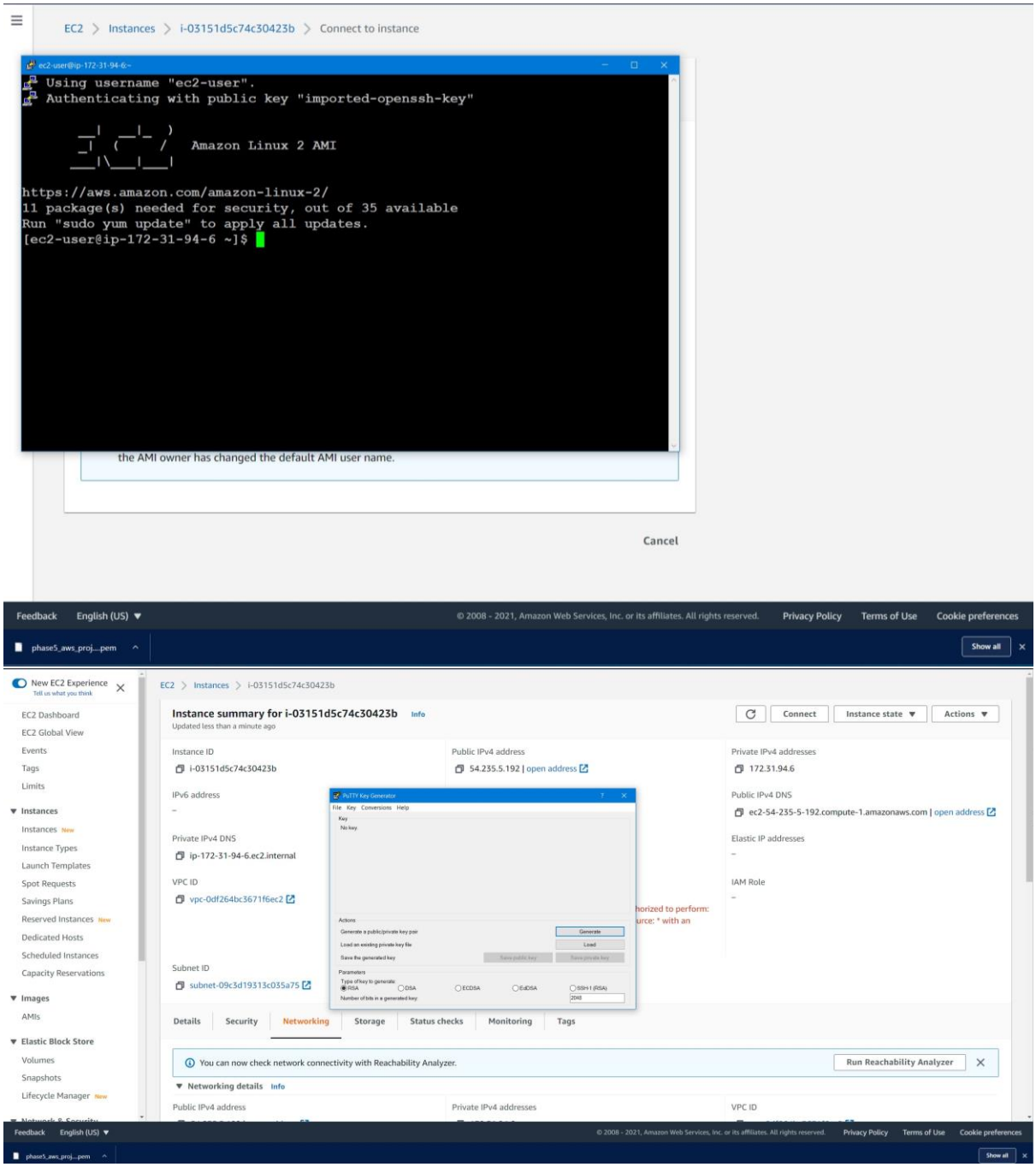
EC2 > Instances > i-03151d5c74c30423b > Connect to instance
ec2-user@ip-172-31-94-6:~
Using username "ec2-user".
Authenticating with public key "imported-openssh-key"
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
11 package(s) needed for security, out of 35 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-94-6 ~]$
the AMI owner has changed the default AMI user name.
Cancel

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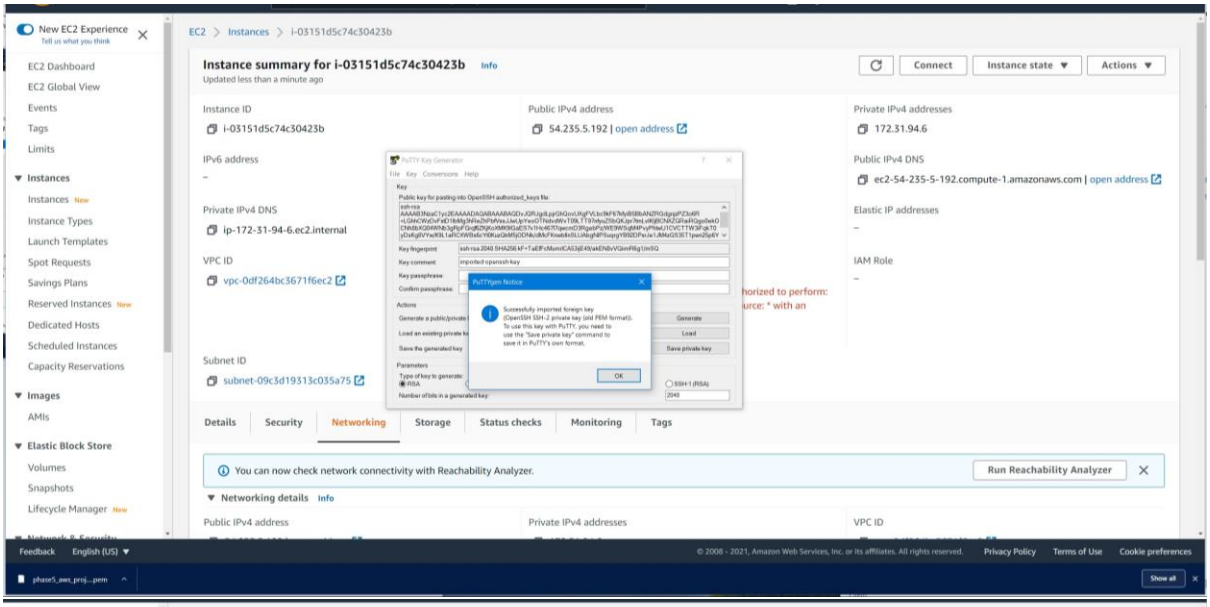
phase5_aws_proj....pem
Show all
New EC2 Experience
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
EC2 > Instances > i-03151d5c74c30423b
Instance summary for i-03151d5c74c30423b
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-03151d5c74c30423b
Public IPv4 address
54.235.5.192 | open address
Private IPv4 addresses
172.31.94.6
IPv6 address
Public IPv4 DNS
ec2-54-235-5-192.compute-1.amazonaws.com | open address
Private IPv4 DNS
ip-172-31-94-6.ec2.internal
Elastic IP addresses
VPC ID
vpc-0df264bc3671f6ec2
IAM Role
Subnet ID
subnet-09c3d19313c035a75
PuTTY Key Generator
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
You can now check network connectivity with Reachability Analyzer.
Run Reachability Analyzer
Networking details
Public IPv4 address
Private IPv4 addresses
VPC ID


New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager New
EC2 > Instances > i-03151d5c74c30423b
Instance summary for i-03151d5c74c30423b Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-03151d5c74c30423b
Public IPv4 address
54.235.5.192 | open address
Private IPv4 addresses
172.31.94.6
IPv6 address
Private IPv4 DNS
ip-172-31-94-6.ec2.internal
Public IPv4 DNS
ec2-54-235-5-192.compute-1.amazonaws.com | open address
VPC ID
vpc-0df264bc3671f6ec2
Elastic IP addresses
IAM Role
Subnet ID
subnet-09c3d19313c035a75
PuTTY Key Generator
PuTTYgen Notice
OK
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
You can now check network connectivity with Reachability Analyzer.
Run Reachability Analyzer
Networking details Info
Public IPv4 address
Private IPv4 addresses
VPC ID
Feedback
English (US)
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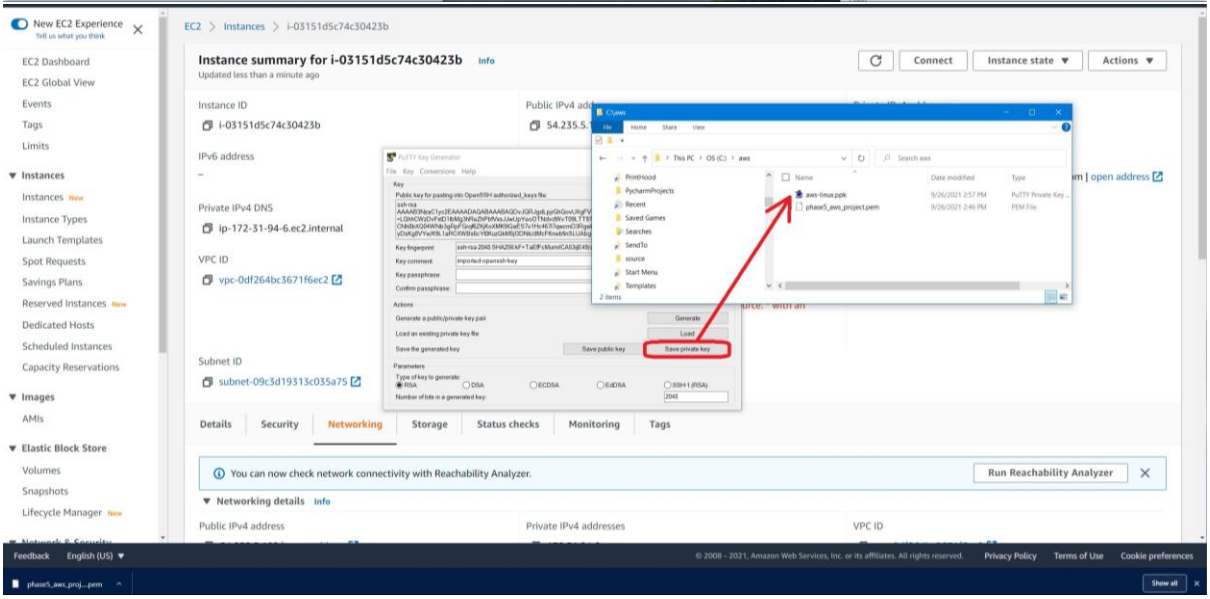
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager New
EC2 > Instances > i-03151d5c74c30423b
Instance summary for i-03151d5c74c30423b Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-03151d5c74c30423b
IPv6 address
Private IPv4 DNS
ip-172-31-94-6.ec2.internal
VPC ID
vpc-0df264bc3671f6ec2
Subnet ID
subnet-09c3d19313c035a75
PuTTY Key Generator
Save public key
Save private key
Generate
Load
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
You can now check network connectivity with Reachability Analyzer.
Run Reachability Analyzer
Networking details Info
Public IPv4 address
Private IPv4 addresses
VPC ID
Feedback
English (US)
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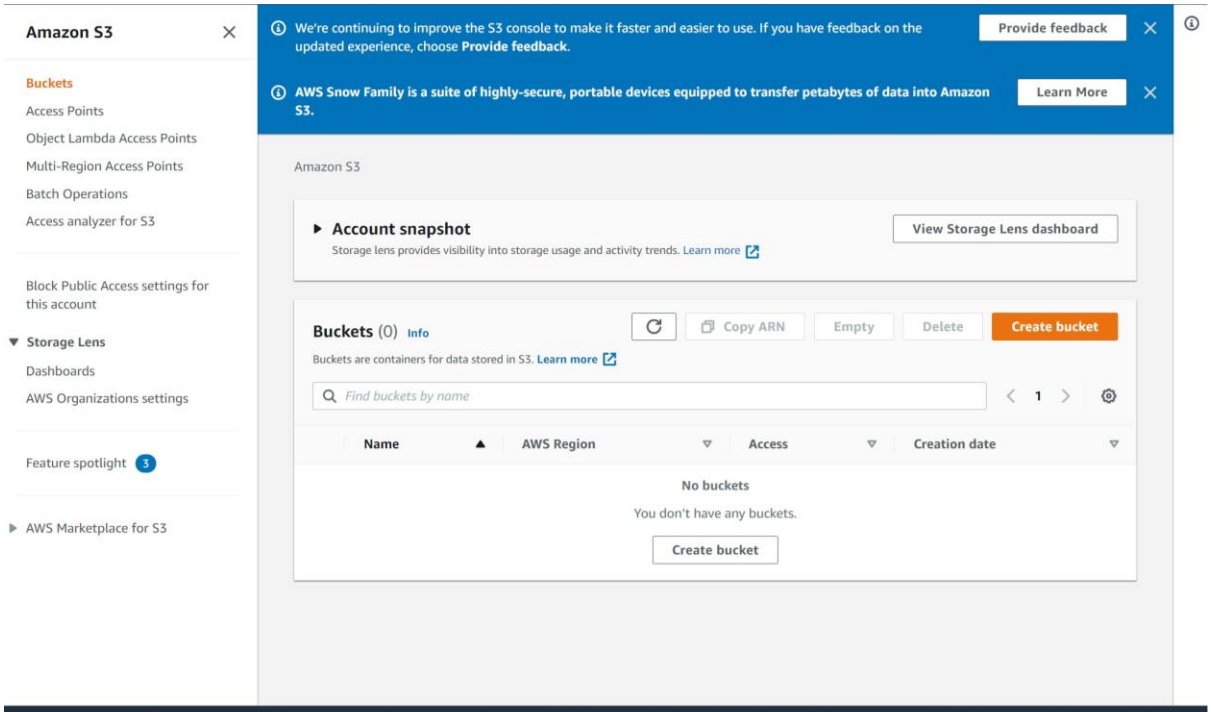
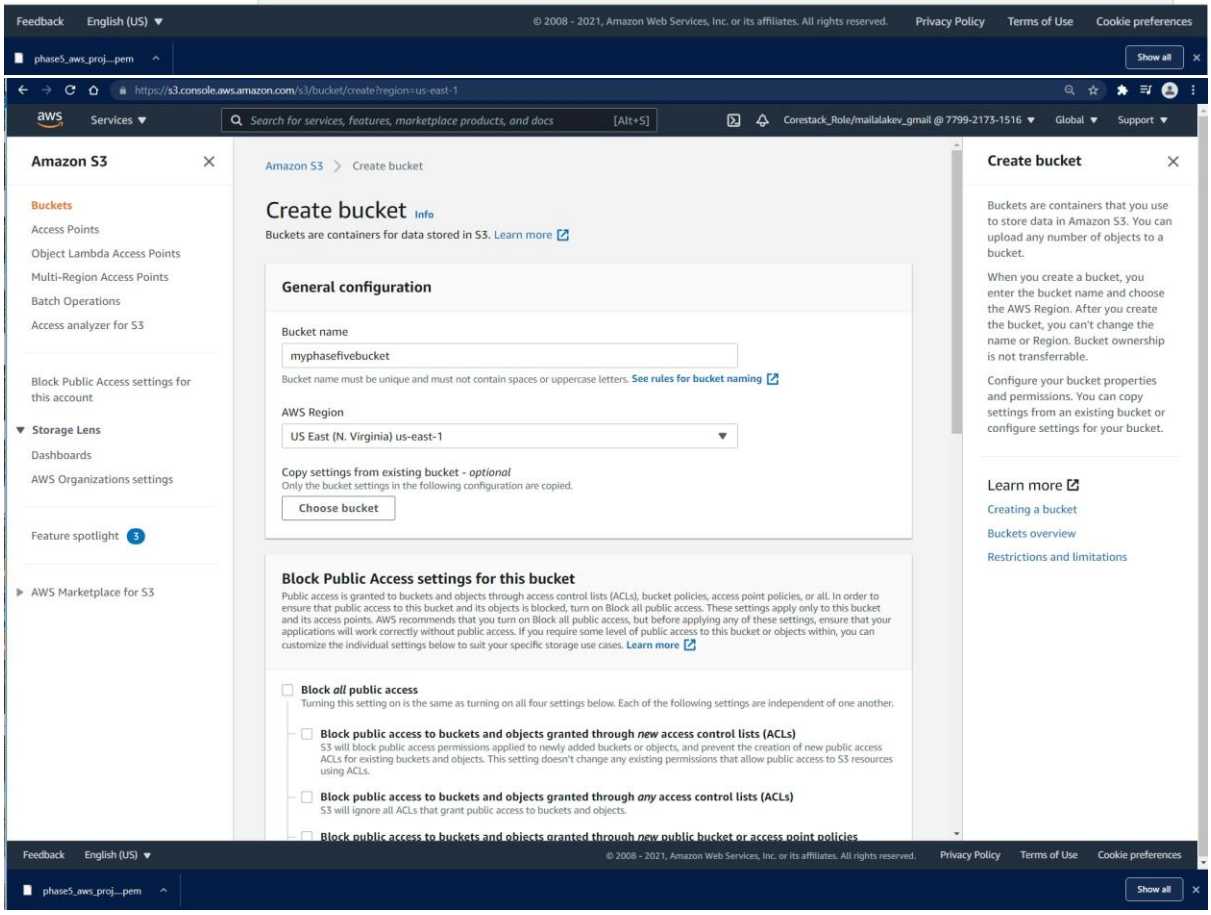

Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 3
AWS Marketplace for S3
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
AWS Snow Family is a suite of highly-secure, portable devices equipped to transfer petabytes of data into Amazon S3.
Learn More
Amazon S3
Account snapshot
Storage lens provides visibility into storage usage and activity trends. Learn more
View Storage Lens dashboard
Buckets (0) Info
Copy ARN
Empty
Delete
Create bucket
Buckets are containers for data stored in S3. Learn more
Find buckets by name
Name
AWS Region
Access
Creation date
No buckets
You don't have any buckets.
Create bucket


Feedback
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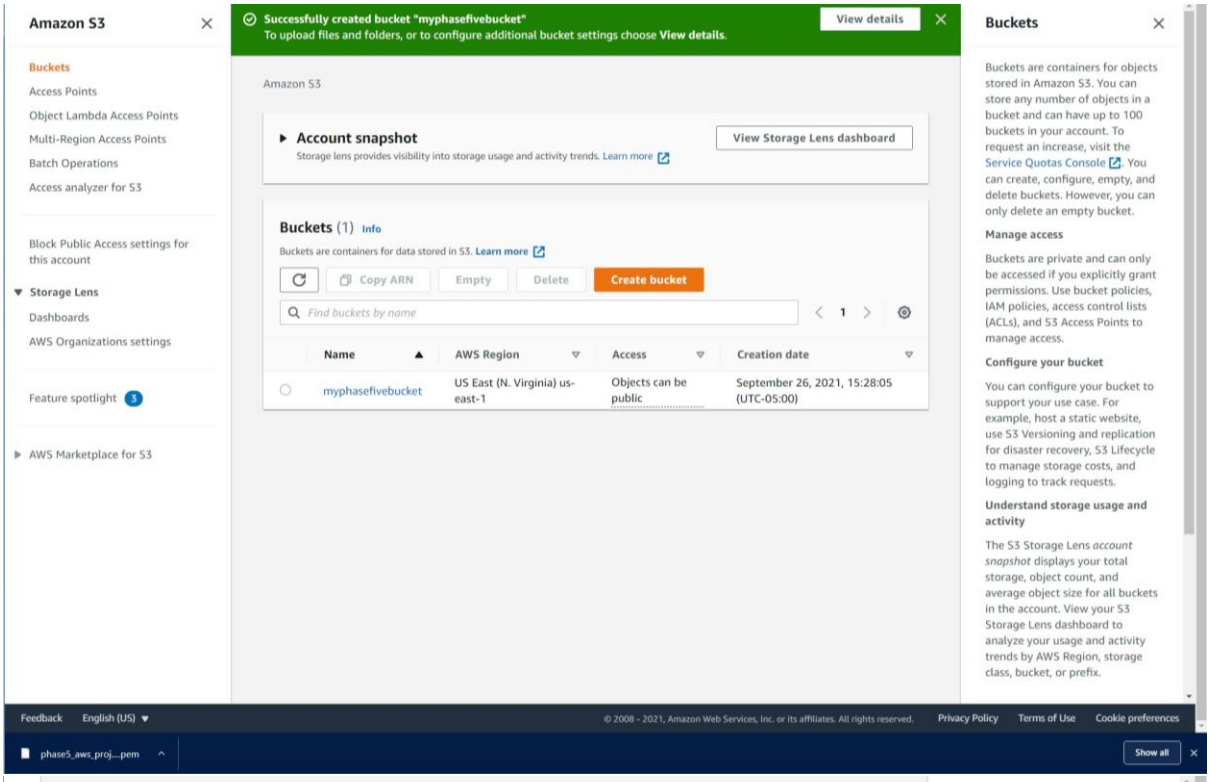
https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1
Services
Search for services, features, marketplace products, and docs [Alt+S]
Corestack_Role/mailalakev_gmail @ 7799-2173-1516
Global
Support
Amazon S3
Create bucket
Create bucket Info
Buckets are containers for data stored in S3. Learn more
General configuration
Bucket name
myphasefivebucket
Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming
AWS Region
US East (N. Virginia) us-east-1
Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket
Block Public Access settings for this bucket
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more
Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
Create bucket
Buckets are containers that you use to store data in Amazon S3. You can upload any number of objects to a bucket.
When you create a bucket, you enter the bucket name and choose the AWS Region. After you create the bucket, you can't change the name or Region. Bucket ownership is not transferrable.
Configure your bucket properties and permissions. You can copy settings from an existing bucket or configure settings for your bucket.
Learn more
Creating a bucket
Buckets overview
Restrictions and limitations
Show all


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 3
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) Info
Buckets are containers for data stored in S3. Learn more
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
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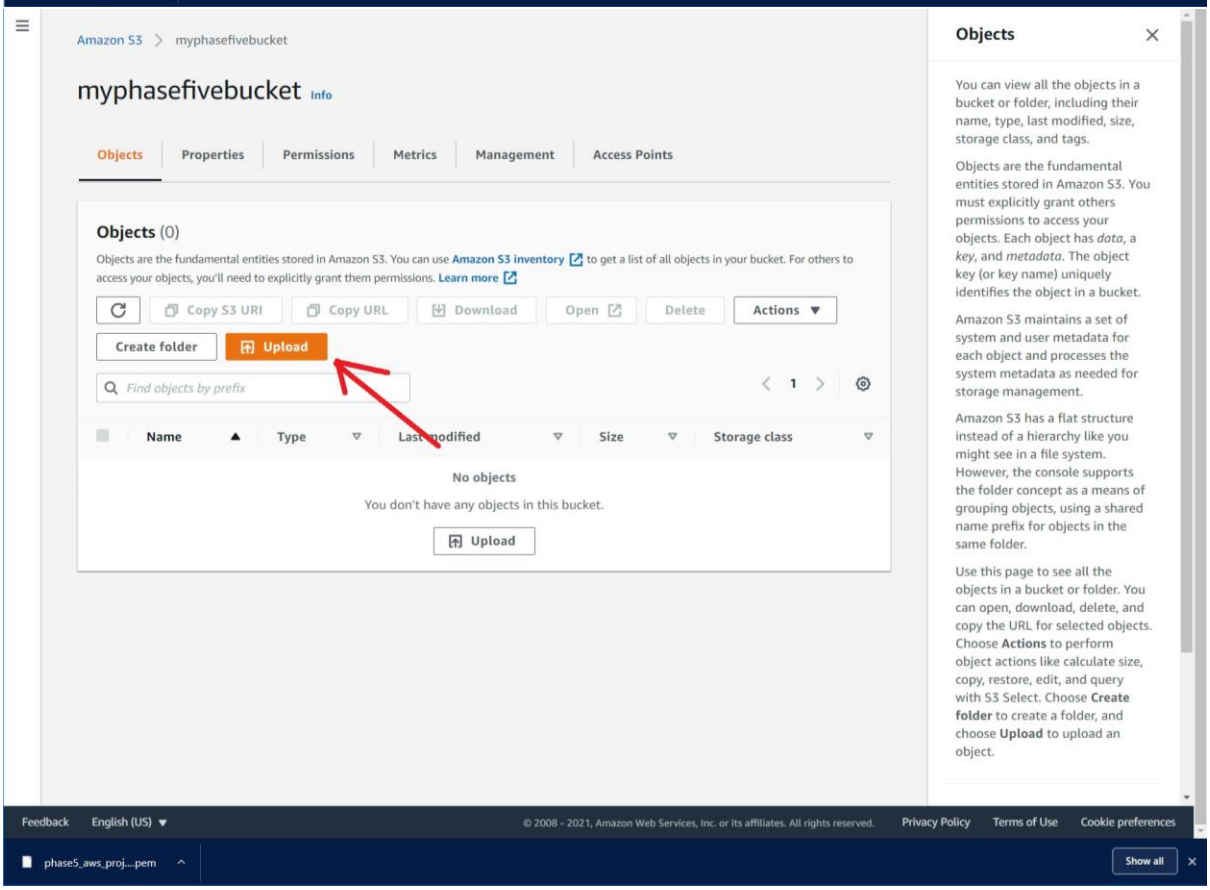
phase5_aws_proj....pem
Show all


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
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.
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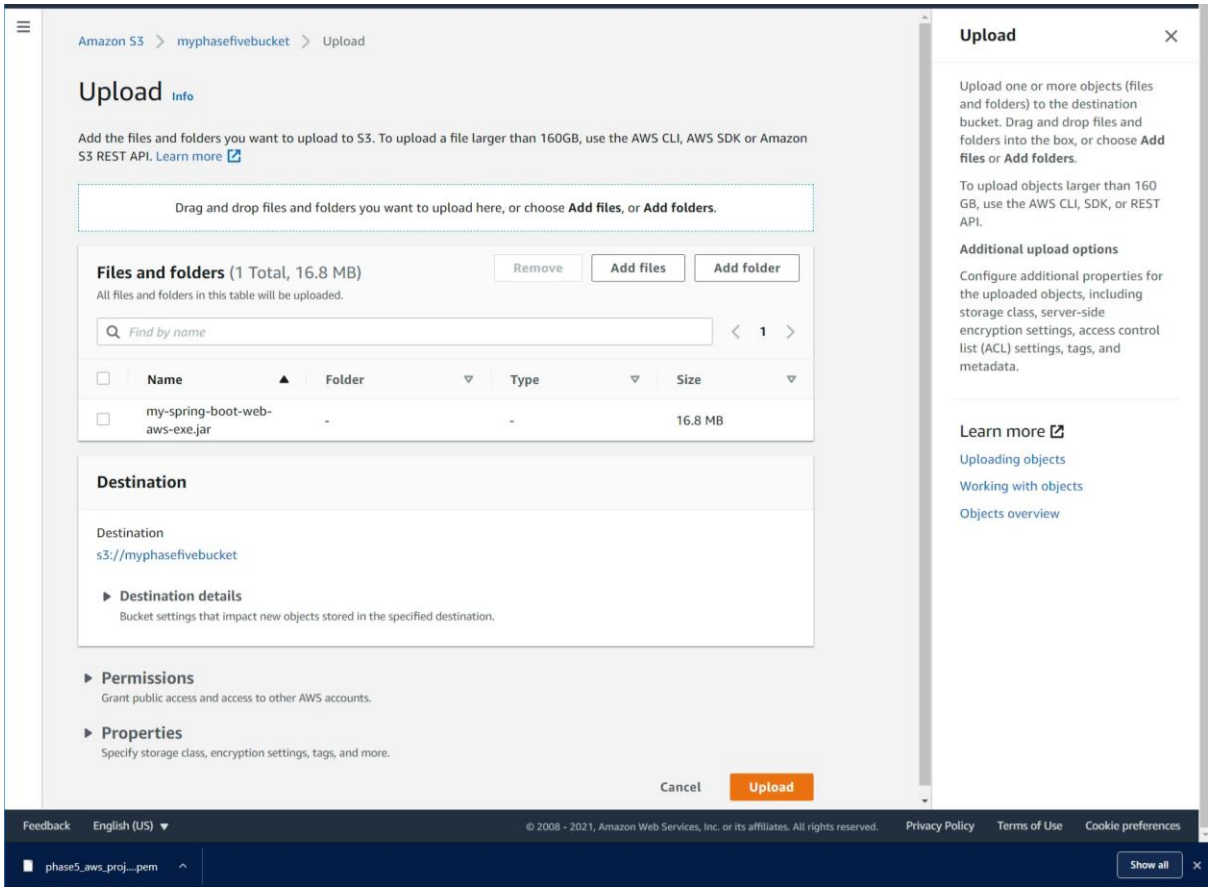
Show all


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)
All files and folders in this table will be uploaded.
Remove
Add files
Add folder
Find by name
1
Name
Folder
Type
Size
my-spring-boot-web-aws-exe.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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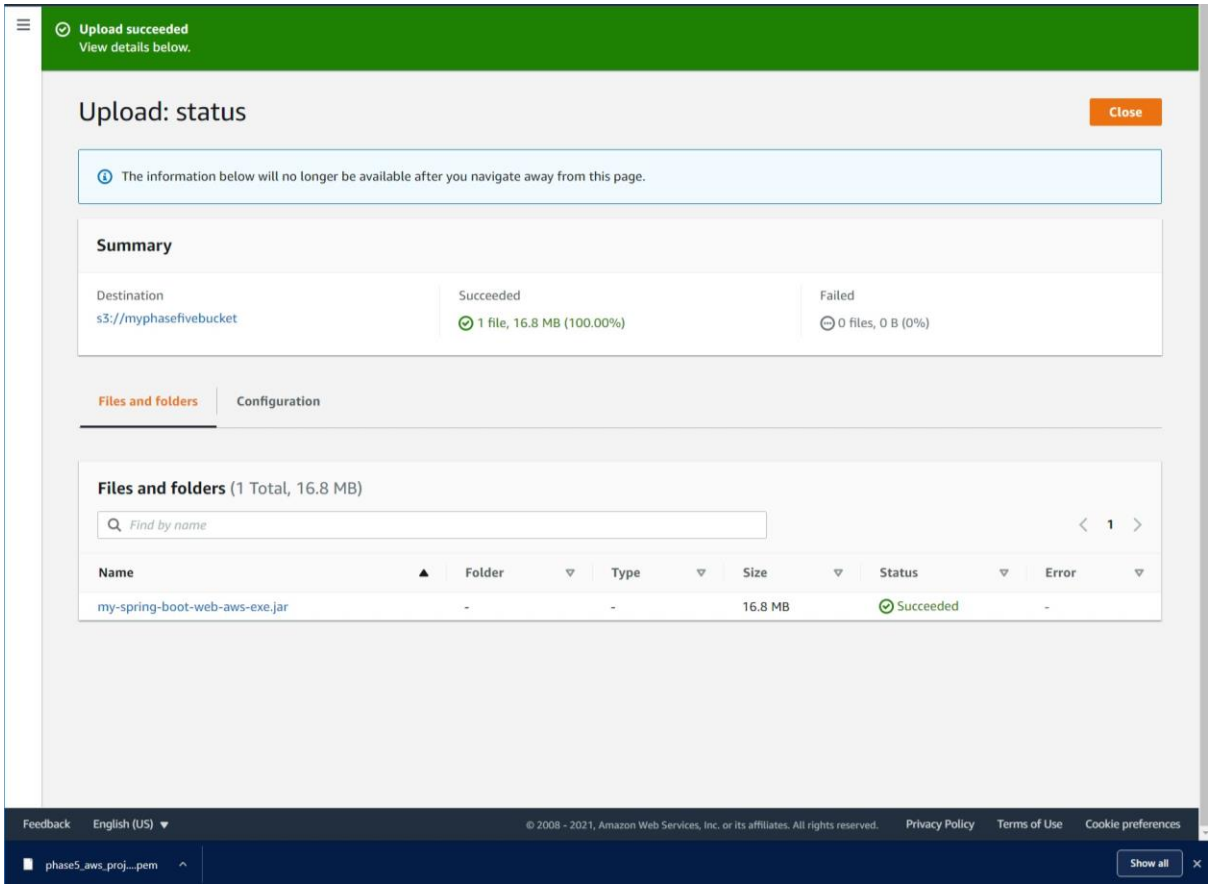
Show all


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-exe.jar
-
-
16.8 MB
Succeeded
-
Feedback
English (US)
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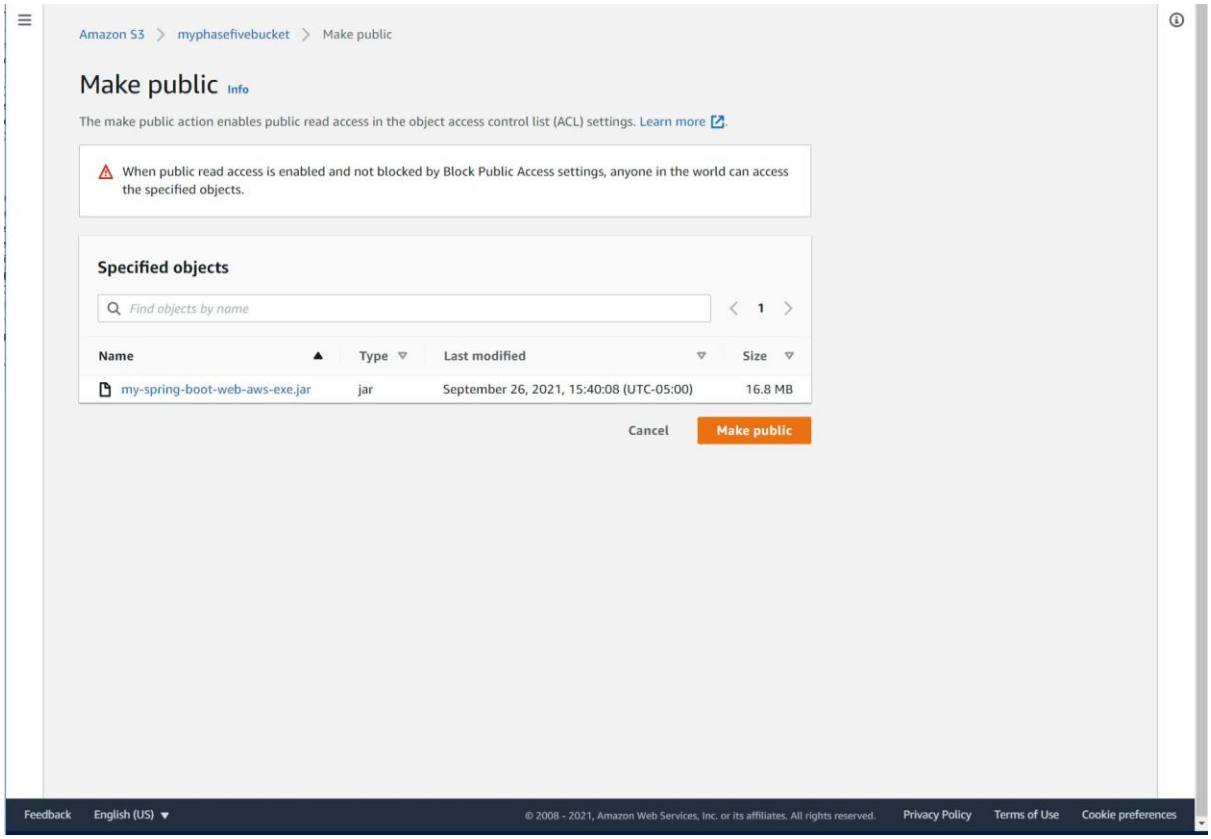
phase5_aws_proj....pem
Show all


Amazon S3 > myphasefivebucket > 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)
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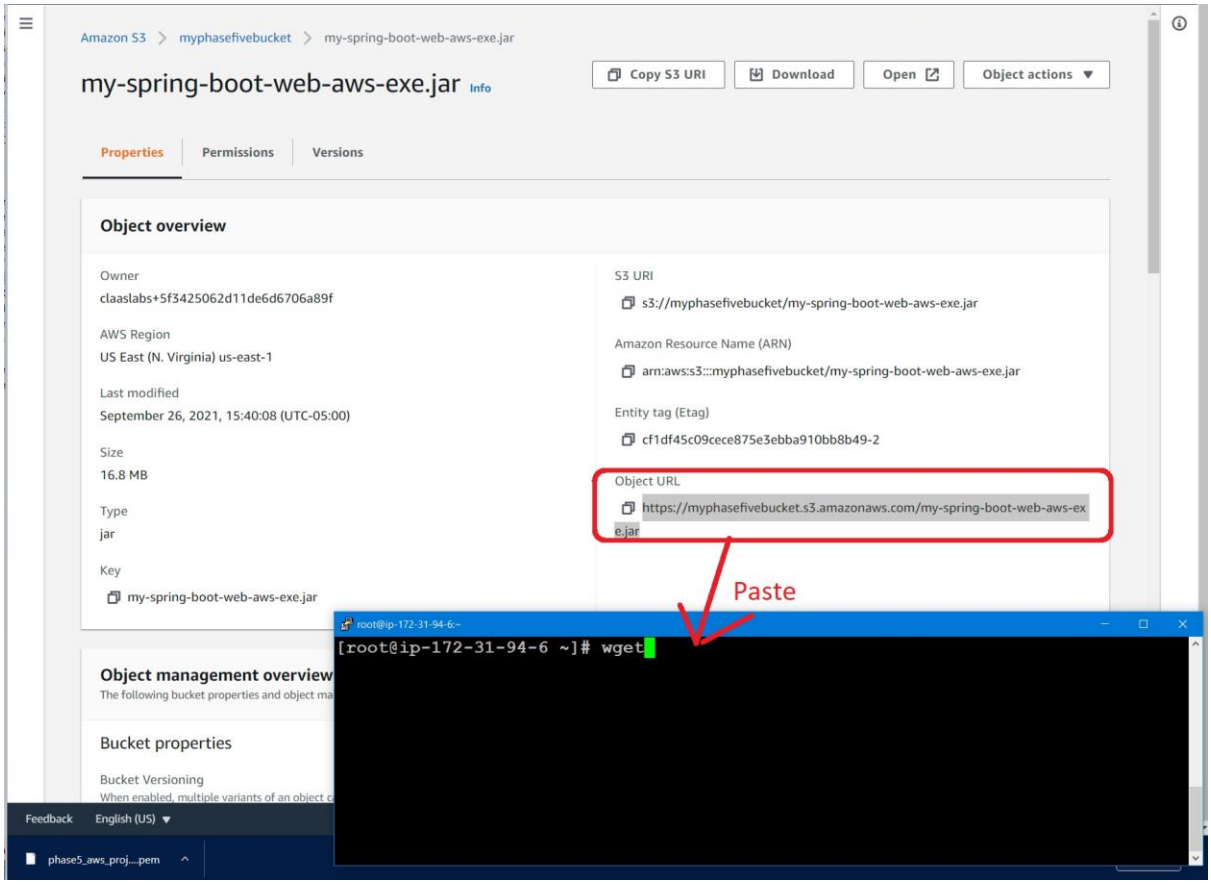
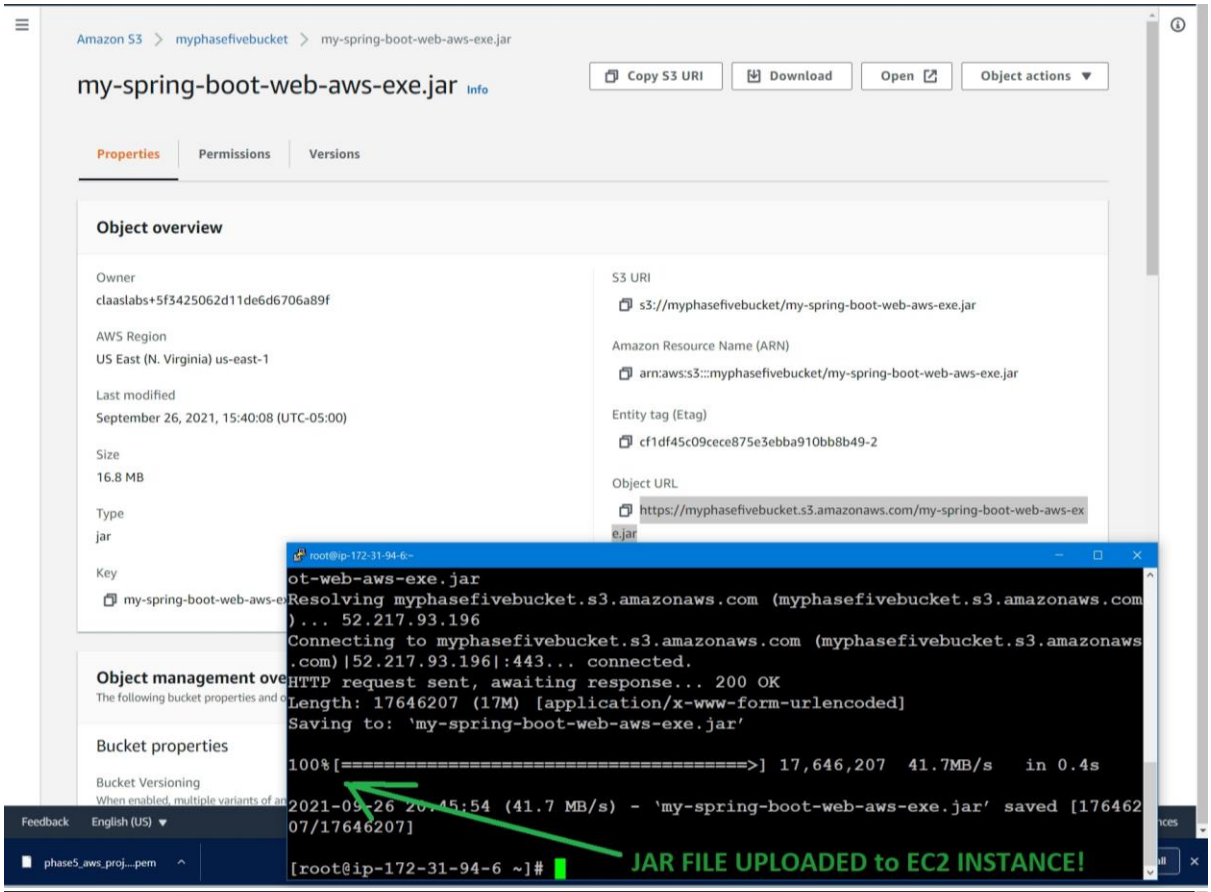
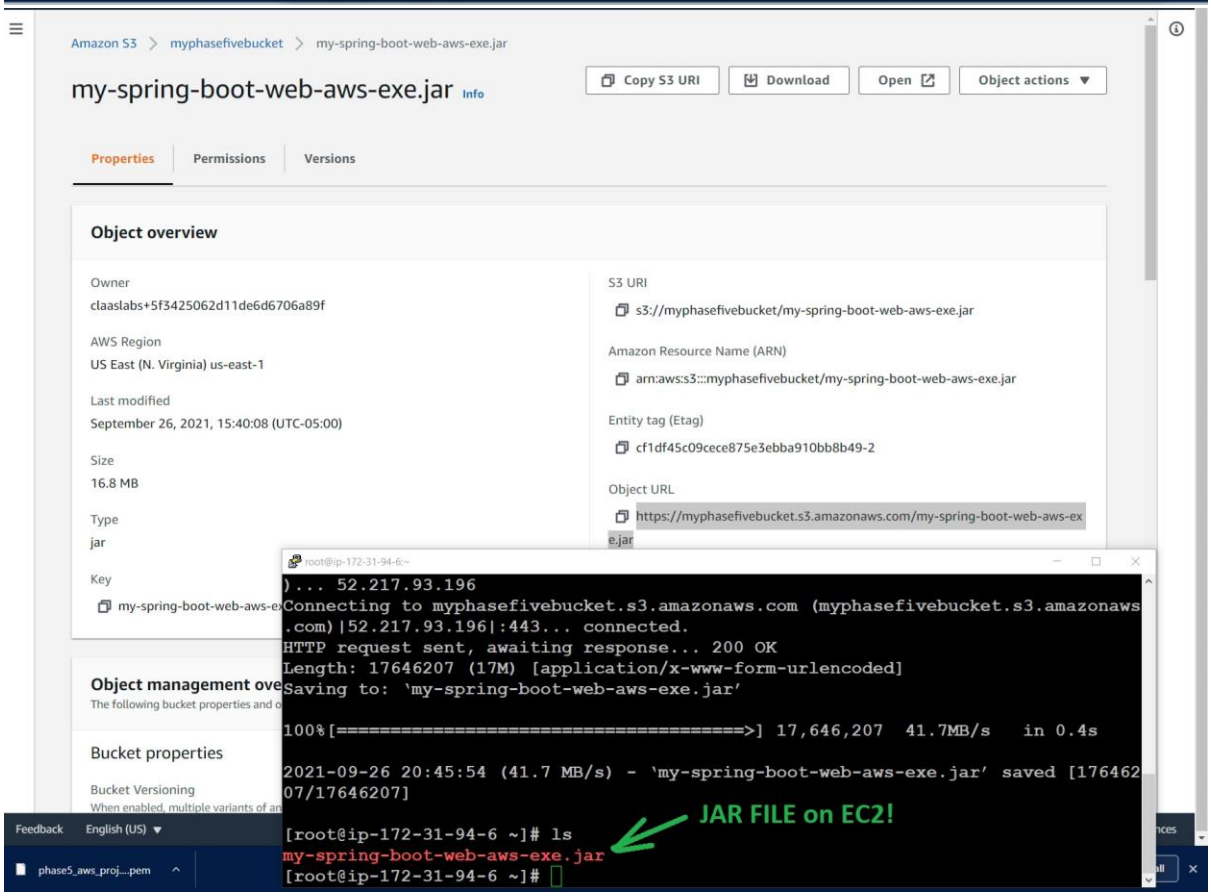
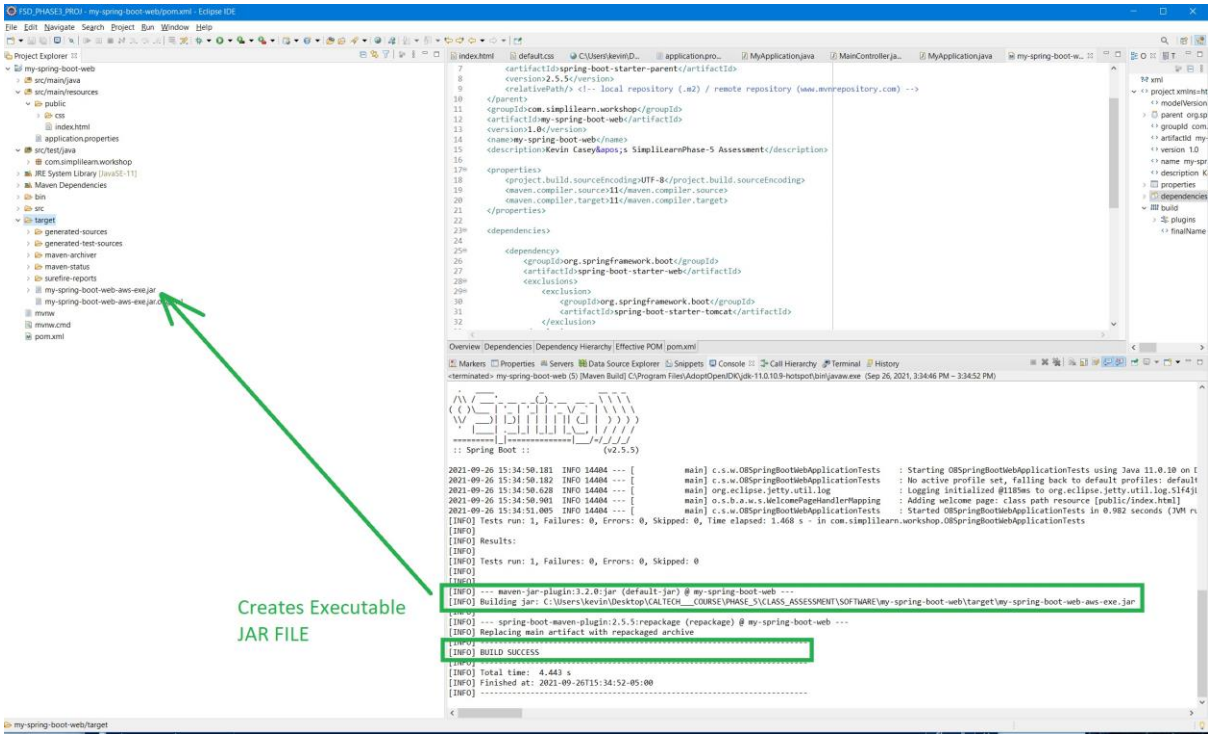

Amazon S3 > myphasefivebucket > my-spring-boot-web-aws-exe.jar
my-spring-boot-web-aws-exe.jar Info
Copy S3 URI
Download
Open
Object actions
Properties
Permissions
Versions
Object overview
Owner
claaslabs+5f3425062d11de6d6706a89f
AWS Region
US East (N. Virginia) us-east-1
Last modified
September 26, 2021, 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
Paste
root@ip-172-31-94-6:~
[root@ip-172-31-94-6 ~]# wget
Object management overview
Bucket properties
Bucket Versioning
Feedback
English (US)
phase5_aws_proj....pem


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
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
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 ove
Bucket properties
Bucket Versioning
Feedback
English (US)
phase5_aws_proj....pem
root@ip-172-31-94-6:~
ot-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 > 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
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
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 ove
Bucket properties
Bucket Versioning
Feedback
English (US)
phase5_aws_proj....pem
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!


Creates Executable
JAR FILE

```xml
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <parent>
        <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>
    <groupId>com.simplilearn.workshop</groupId>
    <artifactId>my-spring-boot-web</artifactId>
    <version>1.0</version>
    <name>my-spring-boot-web</name>
    <description>Kevin Casey&amp;apos;s SimpliLearnPhase-5 Assessment</description>
    <properties>
        <java.version>11</java.version>
    </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>

        <dependency>
                    <groupId>org.springframework.boot</groupId>
                    <artifactId>spring-boot-starter-jetty</artifactId>
        </dependency>

        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>

</project>

```

```
Markers  Properties  Servers  Data Source Explorer  Snippets  Console  Call Hierarchy  Terminal  History
my-spring-boot-web [Maven Build] C:\Program Files\AdoptOpenJDK\jdk-11.0.10.9-hotspot\bin\javaw.exe  (Sep 26, 2021, 1:45:19 PM)
[INFO] ------------< com.simplilearn.workshop:my-spring-boot-web >-------------
[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: []

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 :: 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\CALTE
2021-09-26 13:45:22.001  INFO 12132 --- [           main] com.simplilearn.workshop.MyApplication   : No active profile set, falling back to default profiles: default
2021-09-26 13:45:22.330  INFO 12132 --- [           main] org.eclipse.jetty.util.log               : Logging initialized @750ms to org.eclipse.jetty.util.log.Slf4jLog
2021-09-26 13:45:22.446  INFO 12132 --- [           main] o.s.b.w.e.j.JettyServletWebServerFactory : 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;
2021-09-26 13:45:22.460  INFO 12132 --- [           main] o.e.j.s.h.ContextHandler.application     : Initializing Spring embedded WebApplicationContext
2021-09-26 13:45:22.460  INFO 12132 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 438 ms
2021-09-26 13:45:22.495  INFO 12132 --- [           main] org.eclipse.jetty.server.session         : DefaultSessionIdManager workerName=node0
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         : node0 Scavenging every 660000ms
2021-09-26 13:45:22.500  INFO 12132 --- [           main] o.e.jetty.server.handler.ContextHandler  : Started o.s.b.w.e.j.JettyEmbeddedWebAppContext@1a28b346{application,/,[file:///C:/Users/kevin/AppData/Lo
2021-09-26 13:45:22.500  INFO 12132 --- [           main] org.eclipse.jetty.server.Server          : Started @920ms
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.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)
```

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

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       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

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

Now running my Spring-Boot App
on EC2 instance

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 :: 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
 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] 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 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 'applicationTas
2020-06-06 14:14:45.637  INFO 23604 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 8080 (http) with
 ''
2020-06-06 14:14:45.665  INFO 23604 --- [           main] c.j.a.a.SpringBootAwsExampleApplication  : Started SpringBootAwsExampleApplication in
```

BhavyaSree Gangulakunta's

SPRING-BOOT Web App

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

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 BhavyaSree Gangulakunta with any new requests or upgrades to this product!