

Note – This test is an open book test and you are allowed to use Internet/Google and class PDF files.

Question 1- Deploy java web application in container (Docker) in the aws cloud.

- Create a JSP page with below message **<0Marks>**
“ You passed today 's lab exam Cheers !”
- Create a war file of java web application. **<3Marks>**
- Create an EC2 in aws cloud with below configuration: **<5Marks>**
 - Instance size – t2.medium
 - Operating System – AWSLinux
- Upload WAR file of your java web application in ec-2 which you have created .(use your favorite option to upload the file in EC-2) **<2Marks>**
- **Install the Docker Engine in EC2 <5Marks>**
- Deploy your java web application (war file) in using docker/container. **<15Marks>**
 - Create a Dockerfile with tomcat server
 - Build Docker image with war file
 - Create and run container

Create JSP

Select a wizard

Select a wizard

Create a Maven project



Wizards:

- > Java EE
- > Java Emitter Templates
- > JavaScript
- > JAXB
- > JPA
- ▼ Maven
 - Check out Maven Projects from SCM
 - Maven Module
 - Maven Project**
- > Modeling Workflow Engine
- > Model to Model Transformation
- > Oomph



< Back

Next >

Finish

Cancel

New Maven Project

New Maven project

Select project name and location



☒ Create a simple project (skip archetype selection)

☒ Use default Workspace location

Location: D:\MODULE7-ADVANCE JAVA\Eclipse

Browse...

☐ Add project(s) to working set

Working set:

More...

► Advanced



< Back

Next >

Finish

Cancel

New Maven Project

Configure project

Artifact

Group Id:

Artifact Id:

Version:

Packaging:

Name:

Description:

Parent Project

Group Id:

Artifact Id:

Version:

Advanced

Write click jsp page

Package Explorer: DAY1-PROJECT, HelloWorldLab, src/main/java, src/main/resources, src/test/java, src/test/resources, JRE System Library [J2SE-1.5], src, target, pom.xml, HibernateApp, HibernateApp2, MALNUTRITION-PREVENTION, ProjectClassDiag, Servers, SpringIntro, SpringJPAPractice, SpringMVCIntro

module-info....

Select a wizard

Create a new JSP file

Wizards:

- js
 - Web
 - JSP File
 - JSP Tag

New JSP File

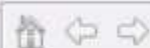
JSP

Create a new JSP file.



Enter or select the parent folder:

HelloWorldLab/src/main/webapp



- java
- resources
- webapp

- > test

- > target

- > HibernateApp

- > HibernateApp2

- > MALNUTRITION-PREVENTION

- > ProjectClassDiag

- > Servers

- > SpringIntro

- > SpringJPAPractice

- > SpringMVCIntro

File name: Message.jsp

Advanced >>



< Back

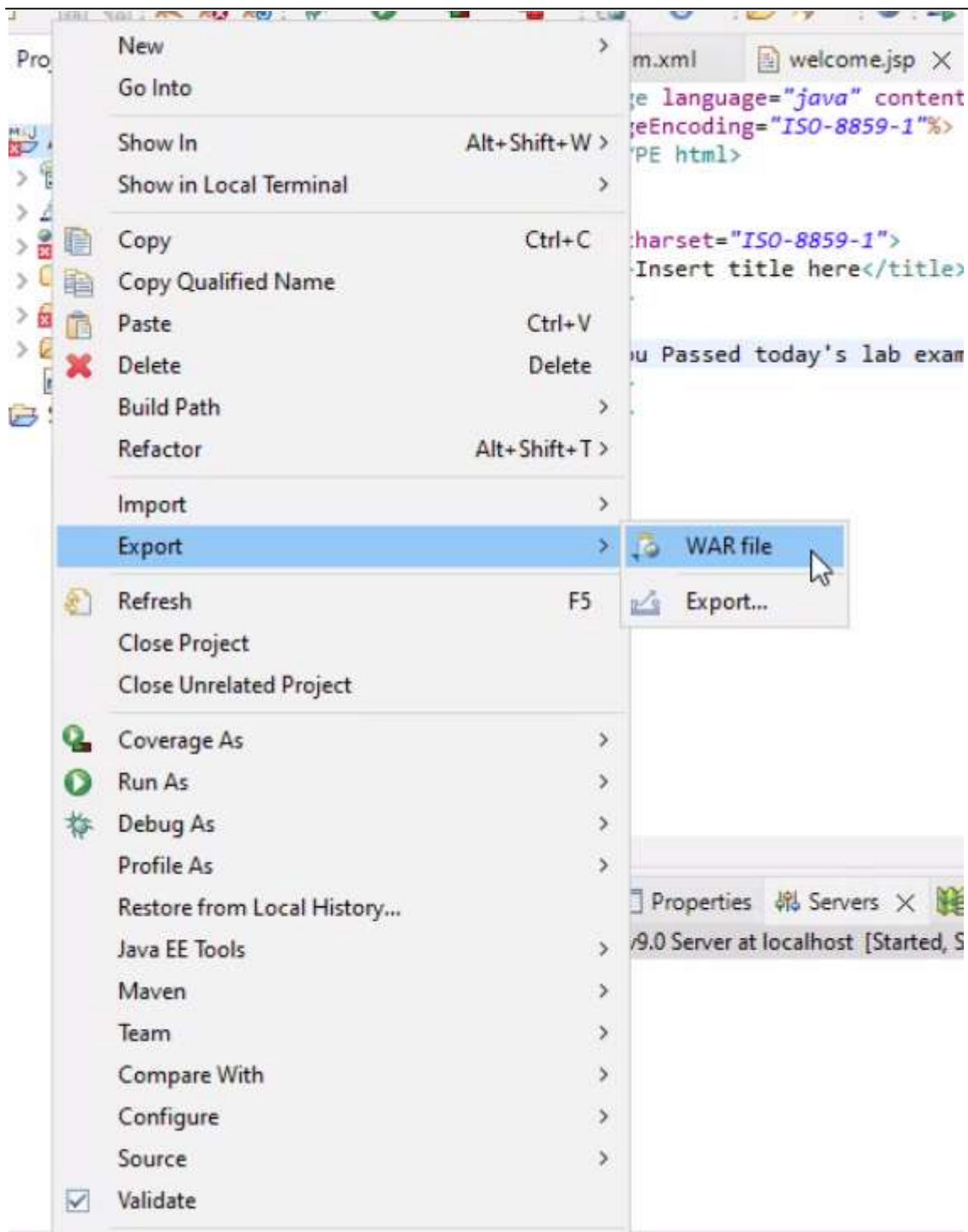
Next >

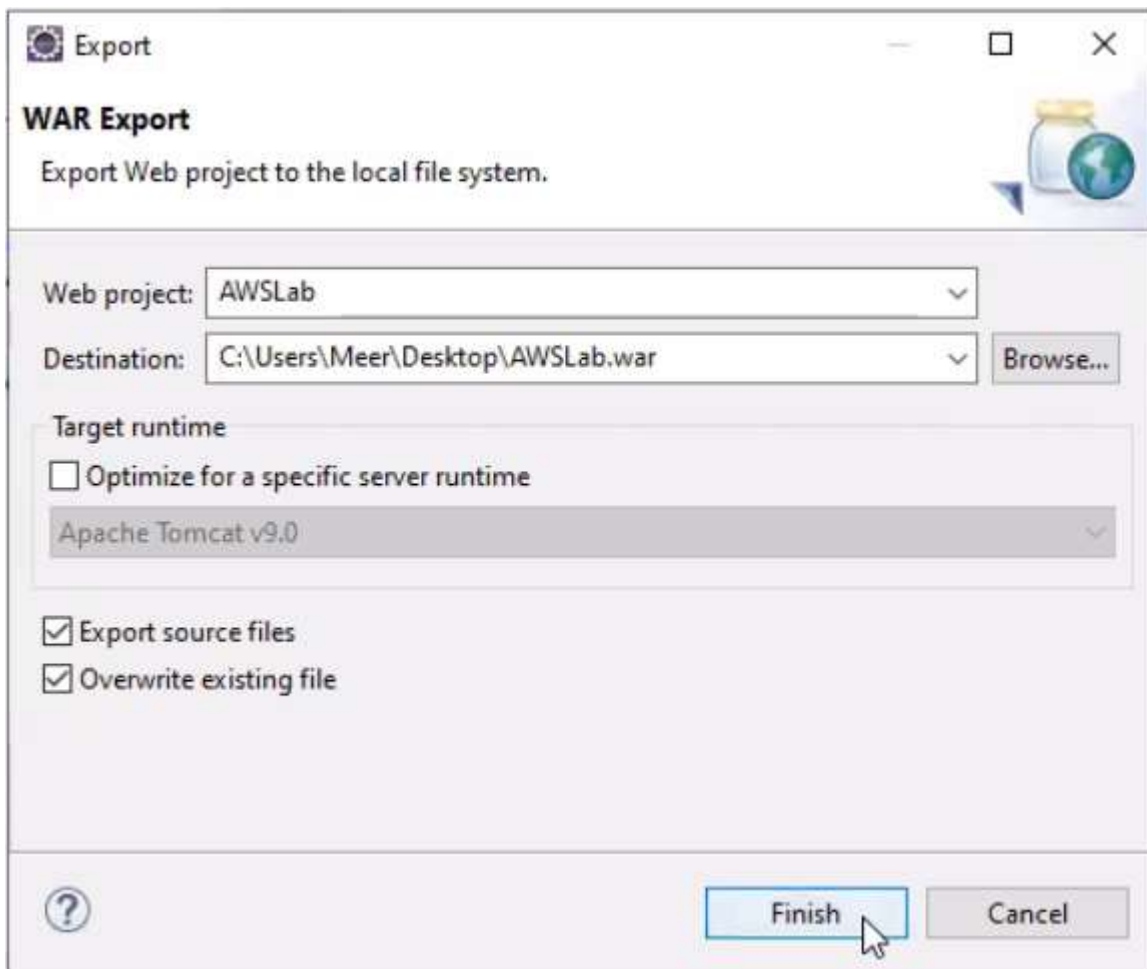
Finish

Cancel

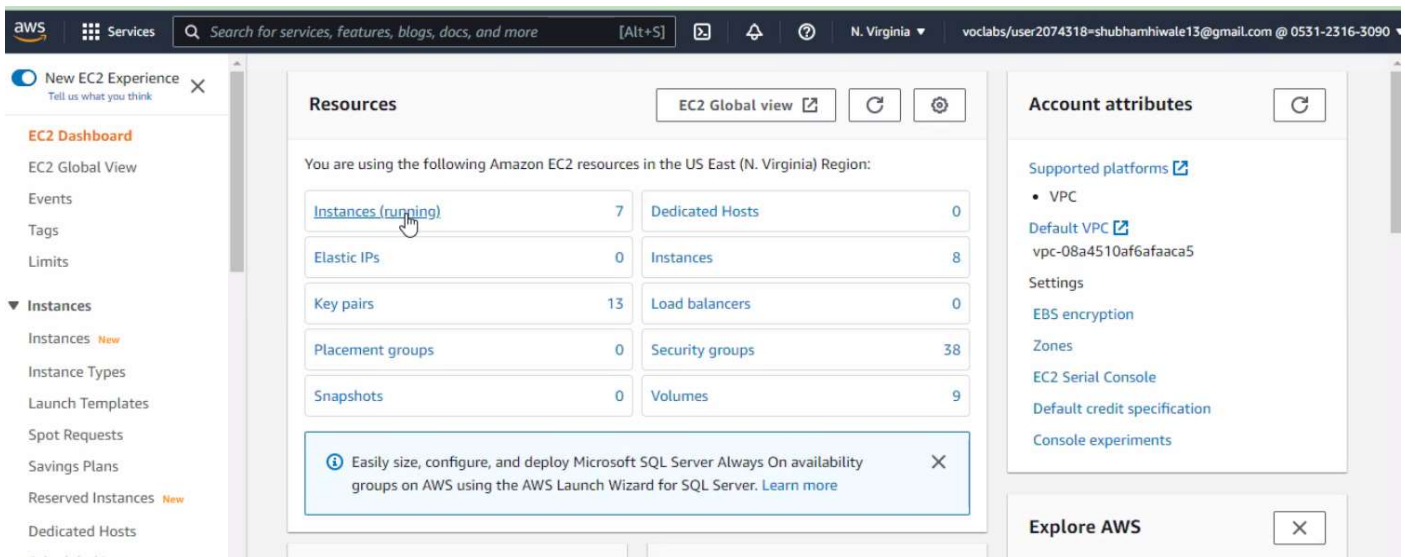
module-info.... ProjectClas... ProjectClas... ProjectClas... Proj

```
1 <%@ page language="java" contentType="text/html; charse
2     pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="ISO-8859-1">
7 <title>Insert title here</title>
8 </head>
9 <body>
10 <h1>You passed today 's lab exam Cheers !</h1>
11
12 </body>
13 </html>
```





Open aws



Select an instance

Amazon Machine Image (AMI)

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20220719.0 x86_64 HVM gp2

Q |

Family: t2 2 vCPU 4 GiB Memory
On-Demand Linux pricing: 0.023 USD per Hour
On-Demand Windows pricing: 0.032 USD per Hour

t2.medium
Family: t2 2 vCPU 4 GiB Memory
On-Demand Linux pricing: 0.0464 USD per Hour
On-Demand Windows pricing: 0.0644 USD per Hour

t2.large
Family: t2 2 vCPU 8 GiB Memory
On-Demand Linux pricing: 0.0928 USD per Hour
On-Demand Windows pricing: 0.1208 USD per Hour

t2.xlarge
Family: t2 4 vCPU 16 GiB Memory

t2.micro
Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour

Free tier eligible

Compare instance types

▼ Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-090fa75af13c156b4

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Cancel Launch instance

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Select

Q |

Proceed without a key pair (Not recommended) Default value

kh_dac_meer
Type: rsa

Create new key pair

Edit

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)
Enable

Firewall (security groups) [Info](#)
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-37' with the following rules:

☒ Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0

☐ Allow HTTPs traffic from the internet
To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

⚠ 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.

▼ Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-090fa75af13c156b4

Virtual server type (instance type)
t2.medium

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Cancel Launch instance

Configure storage

Info

Advanced

1x 40 GiB gp2 Root volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

0 x File systems

Edit

Advanced details

Info

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-090fa75af13c156b4

Virtual server type (instance type)

t2.medium

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

Services

Q s3

N. Virginia

voclabs/user2074318=shubhamhiwale13@gmail.com @ 0531-2316-3090

EC2 Experience

what you think

Dashboard

Global View

es

es New

Types

Templates

Requests

Plans

Instances

Hosts

Instances

Reservations

Services (7)

Features (11)

Blogs (1,110)

Documentation (111,655)

Knowledge Articles (30)

Tutorials (7)

Events (14)

Marketplace (811)

Search results for 's3'

Services

See all 7 results

Scalable Storage in the Cloud

Top features

Buckets Access points Batch Operations

S3 Glacier

Archive Storage in the Cloud

Athena

Query Data in S3 using SQL

AWS Snow Family

Large Scale Data Transport

Launch instances

Alarm status

Availability Zone

No alarms + us-east-1d

No alarms + us-east-1d

No alarms + us-east-1d

No alarms + us-east-1d

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

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.

Get hands-on guidance on how to get started with S3 Intelligent-Tiering and experience automatic storage cost savings. View tutorial

Amazon S3 > Buckets

Account snapshot

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

View Storage Lens dashboard

Buckets (4) Info

Buckets are containers for data stored in S3. Learn more

Find buckets by name

Copy ARN

Empty

Delete

Create bucket

Name	AWS Region	Access	Creation date
databucket0001	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 22:37:17 (UTC+05:30)
matrix00001	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 00:12:34 (UTC+05:30)
shivsbucket091	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 00:00:15 (UTC+05:30)

General configuration

Bucket name

Bucket name must be globally 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.

☐ ACLs disabled (recommended)

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☒ ACLs enabled

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.



Object Ownership

☒ Bucket owner preferred

If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

☐ Object writer


The object writer remains the object owner.

 If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#) 

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

Block Public Access settings for this bucket

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

☐ Block all public access

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

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

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

☐ Block public access to buckets and objects granted through *any* access control lists (ACLs)

S3 will ignore all ACLs that grant public access to buckets and objects.

☐ Block public access to buckets and objects granted through *new* public bucket or access point policies

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☐ Block public and cross-account access to buckets and objects through *any* public bucket or access point policies

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

☐ Block public access to buckets and objects granted through *new* public bucket or access point policies

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☐ Block public and cross-account access to buckets and objects through *any* public bucket or access point policies

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.



Turning off block all public access might result in this bucket and the objects within becoming public

AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.



I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Add tag

Default encryption

Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption

- ☒ Disable
☐ Enable

► Advanced settings

i After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel

Create bucket

Amazon S3 > Buckets

► Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

Buckets (5) [Info](#)

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



Copy ARN

Empty

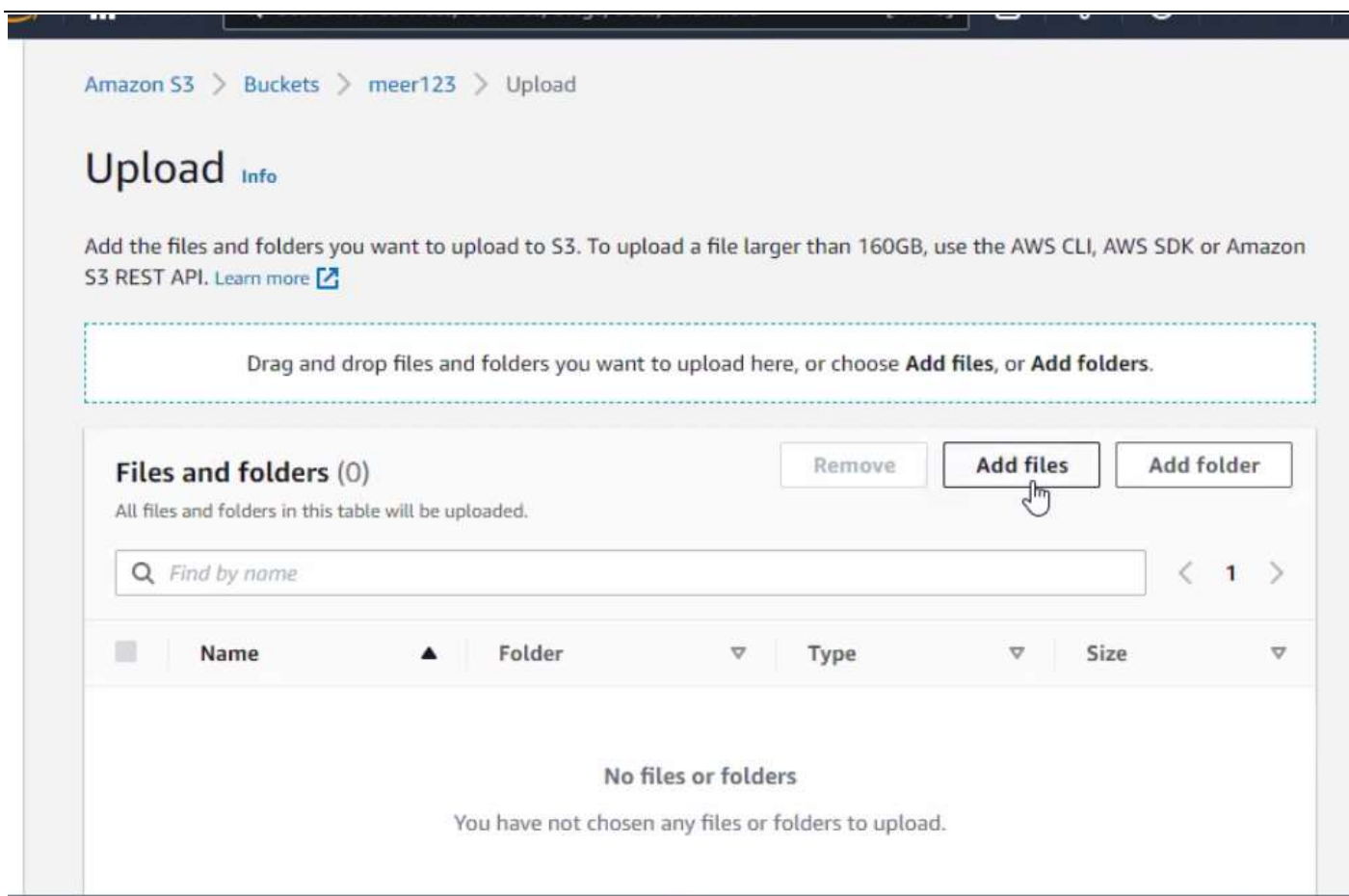
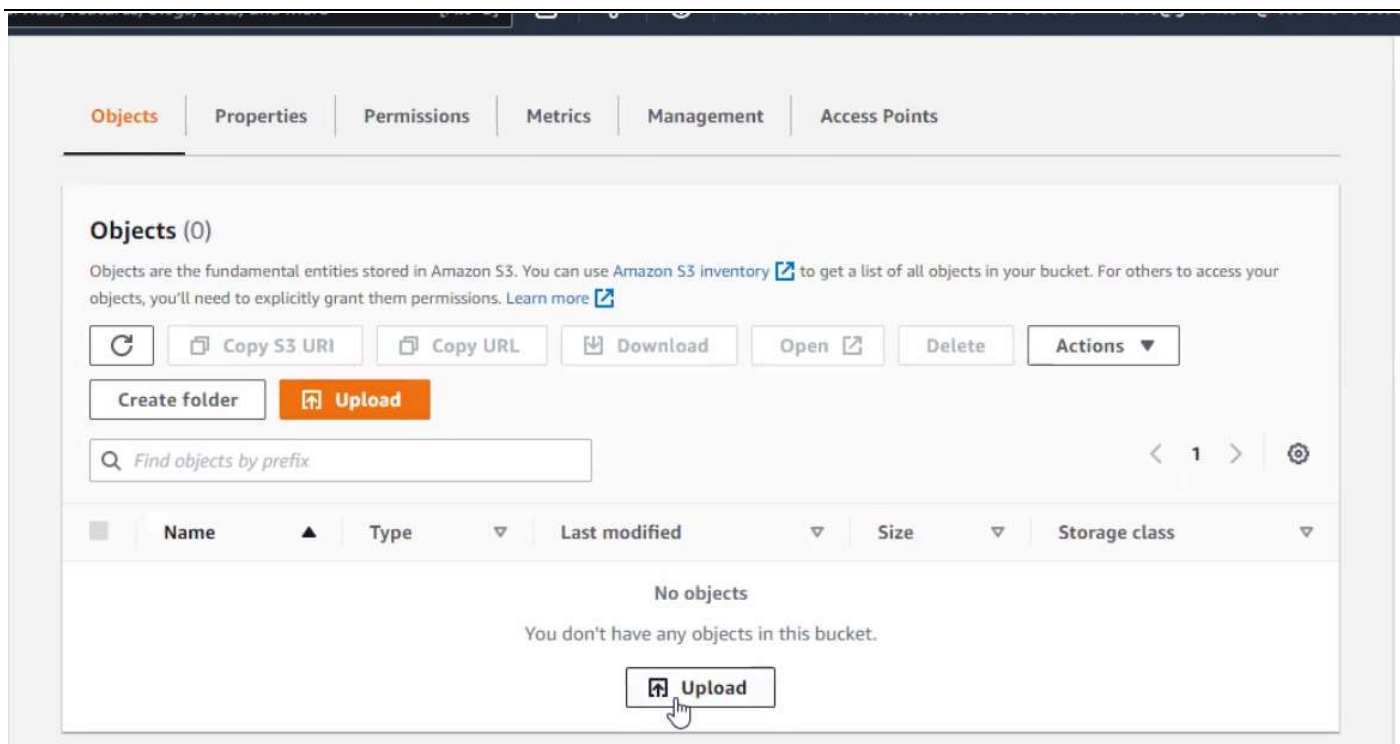
Delete

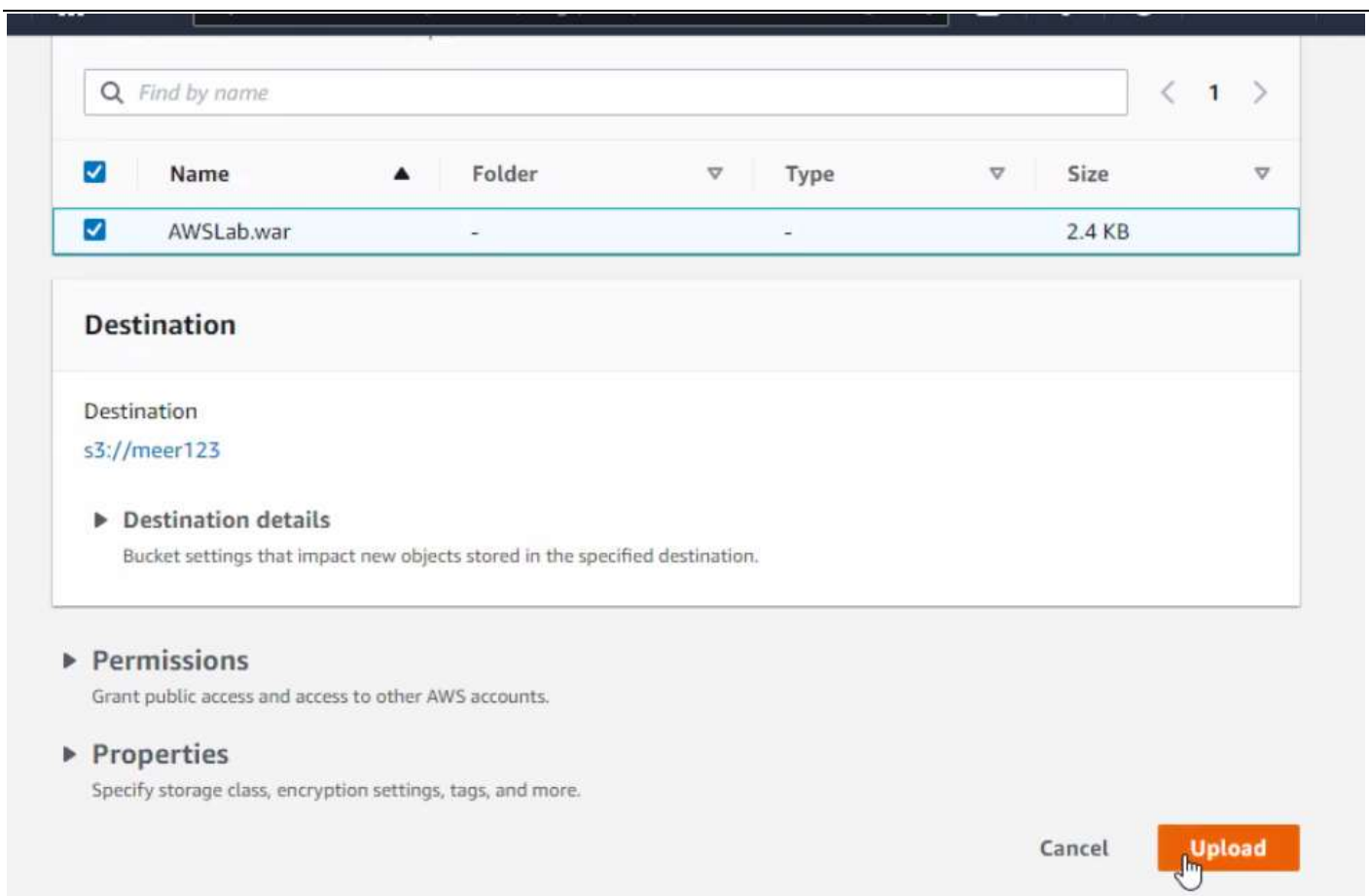
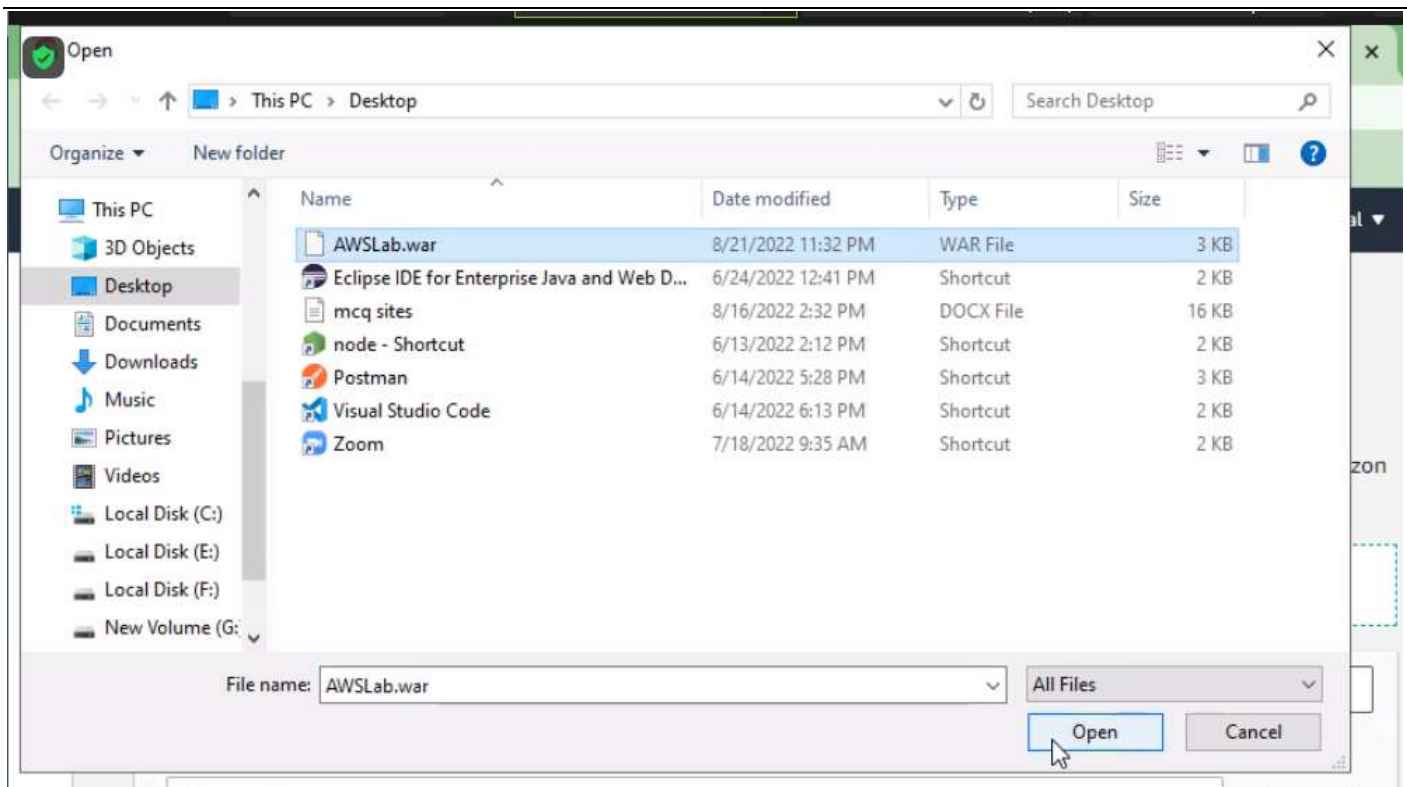
Create bucket

Find buckets by name

< 1 > ⚙

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	databucket0001	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 22:37:17 (UTC+05:30)
<input type="radio"/>	matrix00001	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 00:12:34 (UTC+05:30)
<input checked="" type="radio"/>	meer123	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 23:43:06 (UTC+05:30)
<input type="radio"/>	shivsBucket091	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 00:00:15 (UTC+05:30)
<input type="radio"/>	steel-buckets	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 15:33:56 (UTC+05:30)





Amazon S3 > Buckets > meer123

meer123 [Info](#)

[Objects](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

Objects (1)
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. [Learn more](#)

Copy S3 URI

Copy URL

Download

Open

Delete

< 1 >

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	AWSLab.war	war	August 21, 2022, 23:45:28 (UTC+05:30)	2.4 KB	Standard

Move

Initiate restore

Query with S3 Select

Edit actions

Rename object

Edit storage class

Edit server-side encryption

Edit metadata

Edit tags

Make public using ACL

Actions ▲

Create folder

Upload

Amazon S3 > Buckets > meer123 > Make public

Make public [Info](#)

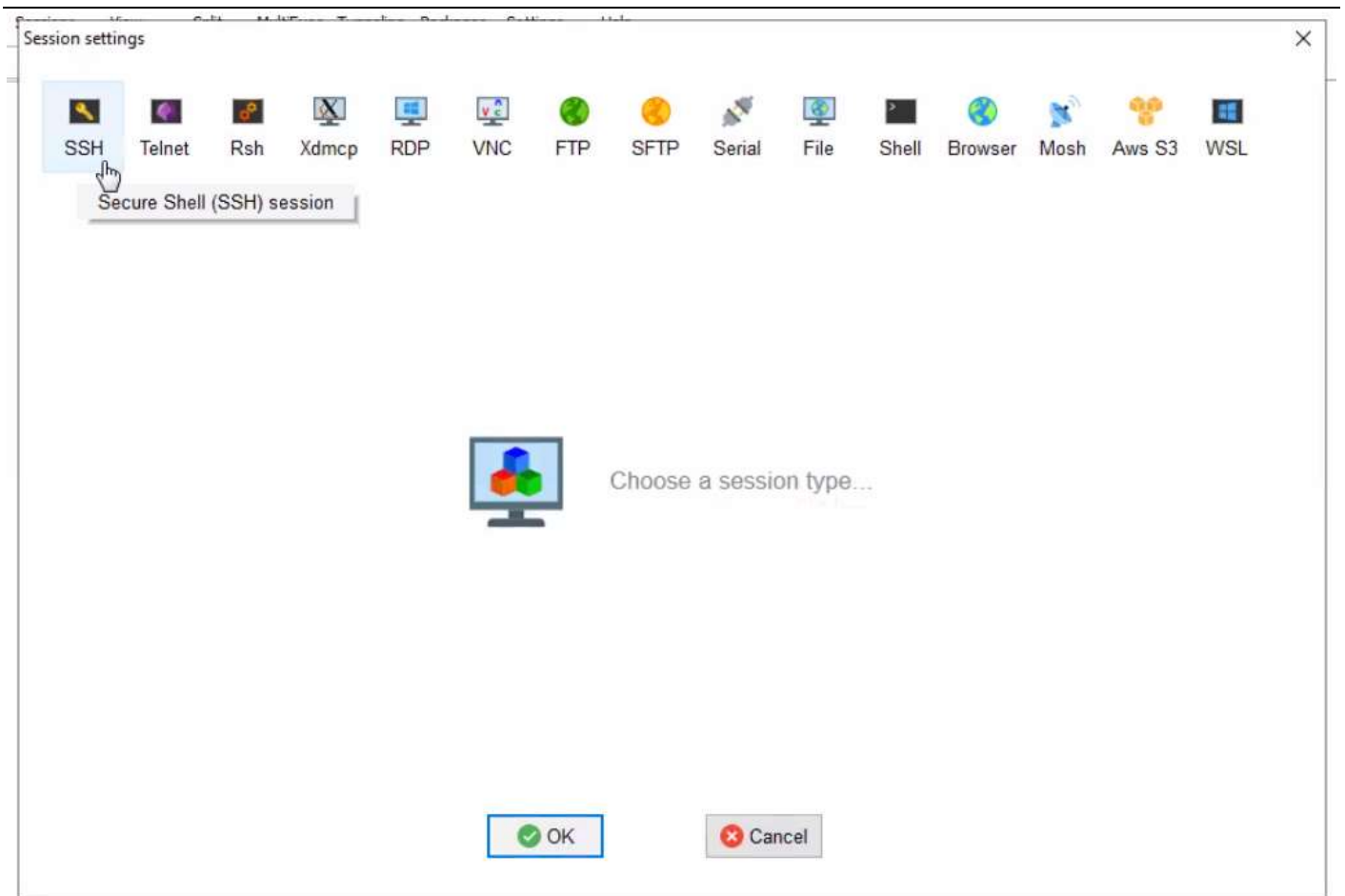
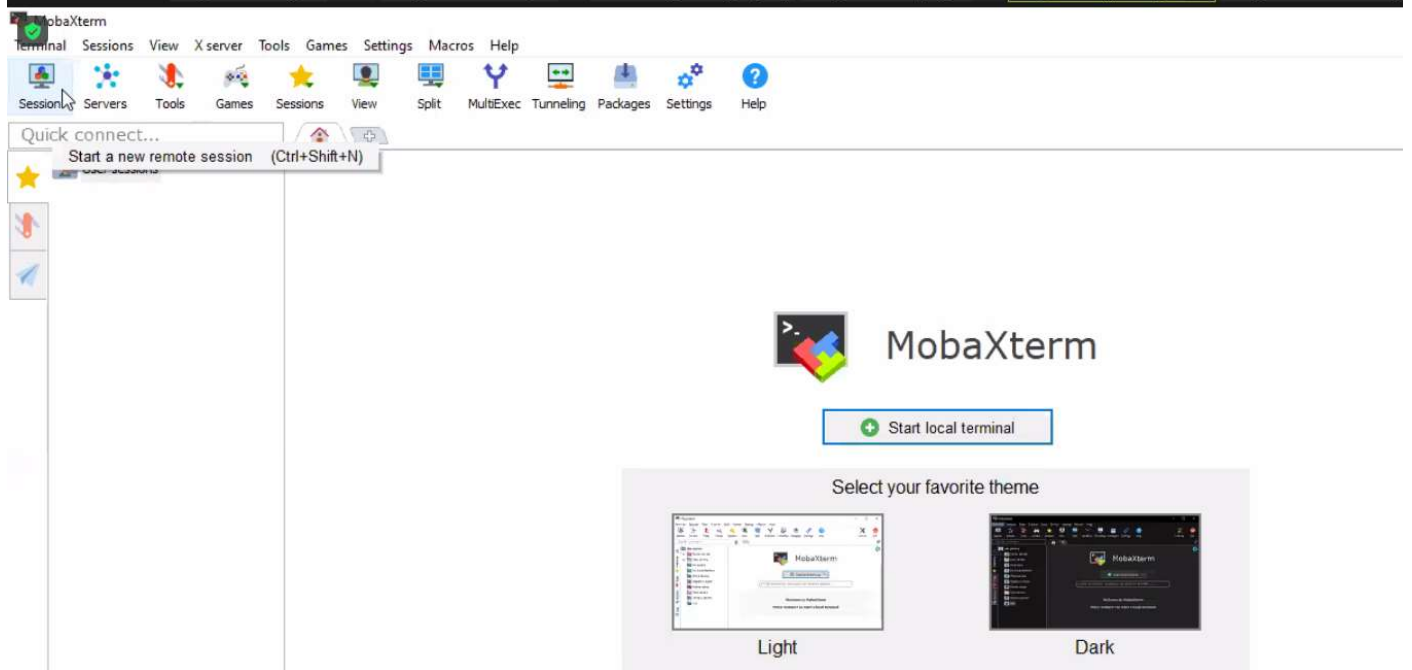
The make public action enables public read access in the object access control list (ACL) settings. [Learn more](#)

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
 < 1 >

Name	Type	Last modified	Size
AWSLab.war	war	August 21, 2022, 23:45:28 (UTC+05:30)	2.4 KB

Cancel **Make public**



Instances (1/9) Info

Refresh

Connect

Instance state

Actions

Launch instances

Search

Instance state = running

Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input type="checkbox"/>	linux-px	i-01c75732ddab02bd9	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-54-87-
<input checked="" type="checkbox"/>	Meer	i-00d001618aff44b76	Running	t2.medium	2/2 checks passed	No alarms	us-east-1a	ec2-34-226-

Instance: i-00d001618aff44b76 (Meer)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Instance summary Info

Instance ID

i-00d001618aff44b76 (Meer)

Public IPv4 address

34.226.195.60 | open address

Private IPv4 addresses

172.31.21.223

IPv6 address

-

Instance state

Running

Public IPv4 DNS

ec2-34-226-195-60.compute-1.amazonaws.com | open address

Hostname type

IP name: ip-172-31-21-223.ec2.internal

Private IP DNS name (IPv4 only)

ip-172-31-21-223.ec2.internal

Answer private resource DNS name

Instance type

t2.medium

Elastic IP addresses

Session settings

SSH

Telnet

Rsh

Xdmcp

RDP

VNC

FTP

SFTP

Serial

File

Shell

Browser

Mosh

Aws S3

WSL

Basic SSH settings

Remote host * 34.226.195.60

Specify username

ec2-user

Port 22

Leave default value if you want to use your Windows


Advanced SSH settings

Terminal settings

Network settings

Bookmark settings

Secure Shell (SSH) session



OK

Cancel

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

Basic SSH settings

Remote host * 34.226.195.60 Specify username ec2-user Port 22

Advanced SSH settings

Terminal settings Network settings Bookmark settings

☒ X11-Forwarding

☒ Compression

Remote environment: Interactive shell

Execute command:

☐ Do not exit after command ends

SSH-browser type: SFTP protocol

☐ Follow SSH path (experimental)

☒ Use private key

☐ Adapt locales on remote server

Execute macro at session start: <none>

OK

Cancel

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

Basic SSH settings

Remote host * 34.226.195.60 Specify username ec2-user Port 22

Advanced SSH settings

Terminal settings Network settings Bookmark settings

Secure Shell (SSH) session


OK

Cancel

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

Basic SSH settings


Remote host * 34.226.195.60 ☒ Specify username ec2-user  Port 22

Advanced SSH settings Terminal settings Network settings Bookmark settings

☒ X11-Forwarding ☒ Compression Remote environment: Interactive shell

Execute command: ☐ Do not exit after command ends

SSH-browser type: SFTP protocol ☐ Follow SSH path (experimental)

☒ Use private key  ☐ Adapt locales on remote server

Execute macro at session start: <none> Specify a private key for passwordless login.

A new key can be generated using the following command:
ssh-keygen -t rsa
or
ssh-keygen -t dsa

OK

Open

Look in: 9_DevOps_AWS

Name	Date modified	Type
MobaXterm	8/10/2022 3:27 PM	File folder
Notes	8/10/2022 3:27 PM	File folder
SC	8/21/2022 1:51 PM	File folder
aws password	8/10/2022 3:11 PM	Text document
kh_dac_meer.pem	8/10/2022 2:40 PM	PEM
KH_Meer	8/10/2022 2:46 PM	RemoteApp

File name: kh_dac_meer


Files of type: All files (*.*)

Open Cancel

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

Basic SSH settings

Remote host * 34.226.195.60 ☒ Specify username ec2-user  Port 22

Advanced SSH settings

Terminal settings Network settings Bookmark settings

☒ X11-Forwarding ☒ Compression Remote environment: Interactive shell

Execute command: ☐ Do not exit after command ends

SSH-browser type: SFTP protocol ☐ Follow SSH path (experimental)

☒ Use private key H:\CDAC March 2022\9_DevOps_ ☐ Adapt locales on remote server

Execute macro at session start: <none>

OK Cancel

```

• MobaXterm Personal Edition v22.1 •
(SSh client, X server and network tools)

► SSH session to ec2-user@34.226.195.60
• Direct SSH : ✓
• SSH compression : ✓
• SSH-browser : ✓
• X11-forwarding : ✗ (disabled or not supported by server)

► For more info, ctrl+click on help or visit our website.

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

https://aws.amazon.com/amazon-linux-2/
5 package(s) needed for security, out of 17 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-21-223 ~]$ sudo su

```


• MobaXterm Personal Edition v22.1 •
(SSH client, X server and network tools)

- ▶ SSH session to **ec2-user@34.226.195.60**
 - Direct SSH : ✓
 - SSH compression : ✓
 - SSH-browser : ✓
 - X11-forwarding : ✗ (disabled or not supported by server)
- ▶ For more info, ctrl+click on [help](#) or visit our [website](#).



Amazon Linux 2 AMI

<https://aws.amazon.com/amazon-linux-2/>

5 package(s) needed for security, out of 17 available
Run "sudo yum update" to apply all updates.

[ec2-user@ip-172-31-21-223 ~]\$ sudo su

[root@ip-172-31-21-223 ec2-user]# yum install docker

[ec2-user@ip-172-31-21-223 ~]\$ sudo su

[root@ip-172-31-21-223 ec2-user]# yum install docker

Loaded plugins: extras_suggestions, langpacks, priorities, update-motd

amzn2-core

Resolving Dependencies

→ Running transaction check

→ Package docker.x86_64 0:20.10.17-1.amzn2 will be installed

→ Processing Dependency: runc ≥ 1.0.0 for package: docker-20.10.17-1.amzn2.x86_64

→ Processing Dependency: libcgrouper ≥ 0.40.rc1-5.15 for package: docker-20.10.17-1.amzn2.x86_64

→ Processing Dependency: containerd ≥ 1.3.2 for package: docker-20.10.17-1.amzn2.x86_64

→ Processing Dependency: pigz for package: docker-20.10.17-1.amzn2.x86_64

→ Running transaction check

→ Package containerd.x86_64 0:1.6.6-1.amzn2 will be installed

→ Package libcgrouper.x86_64 0:0.41-21.amzn2 will be installed

→ Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed

→ Package runc.x86_64 0:1.1.3-1.amzn2 will be installed

→ Finished Dependency Resolution

Dependencies Resolved

Package	Arch	Version	Repository
Installing:			
docker	x86_64	20.10.17-1.amzn2	amzn2extra-docker
Installing for dependencies:			
containerd	x86_64	1.6.6-1.amzn2	amzn2extra-docker
libcgrouper	x86_64	0.41-21.amzn2	amzn2-core
pigz	x86_64	2.3.4-1.amzn2.0.1	amzn2-core
runc	x86_64	1.1.3-1.amzn2	amzn2extra-docker

Transaction Summary

Install 1 Package (+4 Dependent packages)

Total download size: 69 M

Installed size: 260 M

Is this ok [y/d/N]: y

Transaction Summary

Install 1 Package (+4 Dependent packages)

Total download size: 69 M

Installed size: 260 M

Is this ok [y/d/N]: y

Downloading packages:

(1/5): libcgrou-0.41-21.amzn2.x86_64.rpm

(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm

(3/5): containerd-1.6.6-1.amzn2.x86_64.rpm

(4/5): runc-1.1.3-1.amzn2.x86_64.rpm

(5/5): docker-20.10.17-1.amzn2.x86_64.rpm

Total

105 MB/

Running transaction check

Running transaction test

Transaction test **succeeded**

Running transaction

Installing : runc-1.1.3-1.amzn2.x86_64

Installing : containerd-1.6.6-1.amzn2.x86_64

Installing : libcgrou-0.41-21.amzn2.x86_64

Installing : pigz-2.3.4-1.amzn2.0.1.x86_64

Installing : docker-20.10.17-1.amzn2.x86_64

Verifying : docker-20.10.17-1.amzn2.x86_64

Verifying : runc-1.1.3-1.amzn2.x86_64

Verifying : pigz-2.3.4-1.amzn2.0.1.x86_64

Verifying : containerd-1.6.6-1.amzn2.x86_64

Verifying : libcgrou-0.41-21.amzn2.x86_64

Installed:

docker.x86_64 0:20.10.17-1.amzn2

Dependency Installed:

containerd.x86_64 0:1.6.6-1.amzn2 libcgrou.x86_64 0:0.41-21.amzn2 pigz.x86_64 0:2.3.4-1.amzn2.0.1 runc.

Complete!

[root@ip-172-31-21-223 ec2-user]# service docker start

Install 1 Package (+4 Dependent packages)

Total download size: 69 M

Installed size: 260 M

Is this ok [y/d/N]: y

Downloading packages:

(1/5): libcgrou-0.41-21.amzn2.x86_64.rpm

66 kB 00

(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm

81 kB 00

(3/5): containerd-1.6.6-1.amzn2.x86_64.rpm

27 MB 00

(4/5): runc-1.1.3-1.amzn2.x86_64.rpm

2.9 MB 00

(5/5): docker-20.10.17-1.amzn2.x86_64.rpm

39 MB 00

Total

105 MB/s | 69 MB 00

Running transaction check

Running transaction test

Transaction test **succeeded**

Running transaction

Installing : runc-1.1.3-1.amzn2.x86_64

Installing : containerd-1.6.6-1.amzn2.x86_64

Installing : libcgrou-0.41-21.amzn2.x86_64

Installing : pigz-2.3.4-1.amzn2.0.1.x86_64

Installing : docker-20.10.17-1.amzn2.x86_64

Verifying : docker-20.10.17-1.amzn2.x86_64

Verifying : runc-1.1.3-1.amzn2.x86_64

Verifying : pigz-2.3.4-1.amzn2.0.1.x86_64

Verifying : containerd-1.6.6-1.amzn2.x86_64

Verifying : libcgrou-0.41-21.amzn2.x86_64

Installed:

docker.x86_64 0:20.10.17-1.amzn2

Dependency Installed:

containerd.x86_64 0:1.6.6-1.amzn2 libcgrou.x86_64 0:0.41-21.amzn2 pigz.x86_64 0:2.3.4-1.amzn2.0.1 runc.x86_64 0:1.1.3

Complete!

[root@ip-172-31-21-223 ec2-user]# service docker start

Redirecting to /bin/systemctl start docker.service

[root@ip-172-31-21-223 ec2-user]# mkdir demodocker

```
Installed:
  docker.x86_64 0:20.10.17-1.amzn2

Dependency Installed:
  containerd.x86_64 0:1.6.6-1.amzn2   libcgroux.x86_64 0:0.41-21.

Complete!
[root@ip-172-31-21-223 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-21-223 ec2-user]# mkdir demodocker
[root@ip-172-31-21-223 ec2-user]# cd demodocker
```

```
Dependency Installed:
  containerd.x86_64 0:1.6.6-1.amzn2   libcgroux.x86_64 0:0.41-21.amzn2   pigz.x86_64 0:2.3

Complete!
[root@ip-172-31-21-223 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-21-223 ec2-user]# mkdir demodocker
[root@ip-172-31-21-223 ec2-user]# cd demodocker
[root@ip-172-31-21-223 demodocker]# vi Dockerfile
```

```
from tomcat
```

Esc :wq

```
Dependency Installed:
  containerd.x86_64 0:1.6.6-1.amzn2   libcgroux.x86_64 0:0.41-21.amzn2   pigz.x86_64 0:2.3

Complete!
[root@ip-172-31-21-223 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-21-223 ec2-user]# mkdir demodocker
[root@ip-172-31-21-223 ec2-user]# cd demodocker
[root@ip-172-31-21-223 demodocker]# vi Dockerfile
[root@ip-172-31-21-223 demodocker]# ls
Dockerfile
[root@ip-172-31-21-223 demodocker]# docker build -t tomcat_1.0 .
```

```
[root@ip-172-31-21-223 demodocker]# docker image ls
```

```
[root@ip-172-31-21-223 demodocker]# docker run -d -p 8080:8080 tomcat_1.0
```

```
[root@ip-172-31-21-223 demodocker]# docker ps
```


Instances (1/9) Info

Search

Instance state = running X Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	linux-px	i-01c75732ddab02bd9	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input checked="" type="checkbox"/>	Meer	i-00d001618aff44b76	Running	t2.medium	2/2 checks passed	No alarms	us-east-1a

Instance: i-00d001618aff44b76 (Meer)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Instance summary Info

Instance ID

Public IPv4 address

Private IPv4 addresses

Instances (1/9) Info

Search

Instance state = running X Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	prachi_07	i-09533301b31a30b1b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	prachi_07linux	i-06f786a2eec0c2e6d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d
<input type="checkbox"/>	alpha_001	i-030c4a98dd1b9b7da	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d

Instance: i-00d001618aff44b76 (Meer)

Security groups

sg-03efdbdf92ccf5e2b (launch-wizard-37)

▼ Inbound rules

Filter rules

Security group rule ID	Source	Security groups
sgr-08bb8923e5808651e	0.0.0.0/0	launch-wizard-37

Open link in new tab

Open link in new window

Open link in incognito window

Save link as...

Copy link address

Inspect

launch-wizard-37

sg-03efdbdf92ccf5e2b

launch-wizard-37 created
2022-08-21T18:04:21.221Z

vpc-08a4510af6afaaca5

Owner
053123163090

Inbound rules count
1 Permission entry

Outbound rules count
1 Permission entry

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

X

Inbound rules (1/1)

Manage tags

Edit inbound rules

Filter security group rules

< 1 >

<input checked="" type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol
<input checked="" type="checkbox"/>	-	sgr-08bb8923e58086...	IPv4	SSH	TCP

Edit inbound rules

Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Info

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sgr-08bb8923e5808651e	SSH	TCP	22	Custom		Delete

Add rule

0.0.0.0/0

Cancel

Preview changes

Save rules

EC2

Security Groups

sg-03efdbdf92ccf5e2b - launch-wizard-37

Edit inbound rules

Edit inbound rules

Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Info

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sgr-08bb8923e5808651e	SSH	TCP	22	Custom		Delete
-	Custom TCP	TCP	8080	Anywh...		Delete

Add rule

0.0.0.0/0

0.0.0.0/0

Cancel

Preview changes

Save rules

(63) WhatsApp x Settings - Cookie x Learner Lab x Instances | EC2 I x EC2 Managemen x Insert title here x HTTP Status 404 x +

← → ↻ ⚠ Not secure | 34.226.195.60:8080

Gmail YouTube Maps

HTTP Status 404 – Not Found

Type Status Report

Description The origin server did not find a current representation for the target resource or is not willing to disclose that one exists.

Apache Tomcat/10.0.23

ERROR page

```
https://aws.amazon.com/amazon-linux-2/
5 package(s) needed for security, out of 17 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-21-223 ~]$ sudo su
[root@ip-172-31-21-223 ec2-user]# ls
demodocker
[root@ip-172-31-21-223 ec2-user]# cd demodocker
[root@ip-172-31-21-223 demodocker]# ls
Dockerfile
[root@ip-172-31-21-223 demodocker]# docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS
70c084042a8b   tomcat_1.0 "catalina.sh run"       12 minutes ago Up 12 minutes
an
[root@ip-172-31-21-223 demodocker]# docker stop 70c084042a8b
70c084042a8b
[root@ip-172-31-21-223 demodocker]#
```

Continue

```
[root@ip-172-31-21-223 demodocker]# docker stop 70c084042a8b
70c084042a8b
[root@ip-172-31-21-223 demodocker]# ls
Dockerfile
[root@ip-172-31-21-223 demodocker]# docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS      NAMES
[root@ip-172-31-21-223 demodocker]#
```

s3

Search results for 's3'

Services (7)

Features (11)

Blogs (1,110)

Documentation (111,655)

Knowledge Articles (30)

Tutorials (7)

Events (14)

Marketplace (811)

Services

See all 7 results ▶

S3 ☆

Scalable Storage in the Cloud

Top features

Buckets Access points Batch Operations

S3 Glacier ☆

Archive Storage in the Cloud

Athena ☆

Query Data in S3 using SQL

AWS Snow Family ☆

Large Scale Data Transport

Launch

Amazon S3 > Buckets

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

Buckets (5) Info

Copy ARN

Empty

Delete

Create bucket

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

Find buckets by name

< 1 >

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	databucket0001	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 22:37:17 (UTC+05:30)
<input type="radio"/>	matrix00001	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 00:12:34 (UTC+05:30)
<input type="radio"/>	meer123	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 23:43:06 (UTC+05:30)
<input type="radio"/>	shivsbucket091	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 00:00:15 (UTC+05:30)
<input type="radio"/>	steel-buckets	US East (N. Virginia) us-east-1	Objects can be public	August 21, 2022, 15:33:56 (UTC+05:30)

meer123 [Info](#)**Objects**

Properties

Permissions

Metrics

Management

Access Points


Objects (1)

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**

< 1 > 

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	 AWSLab.war	war	August 21, 2022, 23:45:28 (UTC+05:30)	2.4 KB	Standard

```
[root@ip-172-31-21-223 demodocker]# aws s3 cp s3://meer123/AWSLab.war .
```

Instances (1/9) [Info](#)

Instance state = running

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Availability Zone
<input type="checkbox"/>	shivlinux091	i-01c90925bb622a2f5	Running	t2.medium	us-east-1a
<input type="checkbox"/>	linux-px	i-01c75732ddab02bd9	Running		us-east-1a
<input checked="" type="checkbox"/>	Meer	i-00d001618aff44b76	Running		us-east-1a

Connect

View details

Manage instance state


Instance settings

Networking

Security

Image and templates

Monitor and troubleshoot

1 > 

Instance: i-00d001618aff44b76 (Meer)

Details

Security

Networking

Storage


Status checks

Monitoring

Tags

▼ Instance summary [Info](#)


Instance ID

 i-00d001618aff44b76 (Meer)


IPv6 address

-


Public IPv4 address

 34.226.195.60 | [open address](#)


Instance state

 Running

Private IPv4 addresses

 172.31.21.223

Public IPv4 DNS

 ec2-34-226-195-60.compute-1.amazonaws.com | [open address](#)

EC2 > Instances > i-00d001618aff44b76 > Modify IAM role

Modify IAM role [Info](#)

Attach an IAM role to your instance.

Instance ID

 i-00d001618aff44b76 (Meer)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

Choose IAM role



[Create new IAM role](#)

Q |

No IAM Role

Choose this option to detach an IAM role

EMR_EC2_DefaultRole

arn:aws:iam::053123163090:instance-profile/EMR_EC2_DefaultRole

DefaultRole

EMR_EC2_DefaultRole

LabInstanceProfile

arn:aws:iam::053123163090:instance-profile/LabInstanceProfile

Cancel

Update IAM role

Modify IAM role [Info](#)

Attach an IAM role to your instance.

Instance ID

 i-00d001618aff44b76 (Meer)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

EMR_EC2_DefaultRole



[Create new IAM role](#)

Cancel

Update IAM role

```
[root@ip-172-31-21-223 demodocker]# aws s3 cp s3://meer123/AWSLab.war .
```

To check

```
[root@ip-172-31-21-223 demodocker]# ls
AWSLab.war  Dockerfile
[root@ip-172-31-21-223 demodocker]#
```

```
[root@ip-172-31-21-223 demodocker]# vi Dockerfile
```

```
from tomcat
copy AWSLab.war /usr/local/tomcat/webapps/
```

```
from tomcat
copy AWSLab.war /usr/local/tomcat/webapps/
```

: wq

```
[root@ip-172-31-21-223 demodocker]# docker build -t awslab_1.0 .
```

Success msg will coe like this.

```
Successfully built e6bf83298de3
Successfully tagged awslab_1.0:latest
[root@ip-172-31-21-223 demodocker]#
```

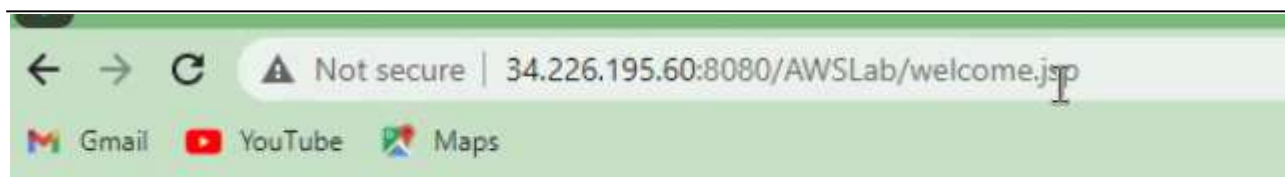
To check

```
[root@ip-172-31-21-223 demodocker]# docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
awslab_1.0    latest   e6bf83298de3   30 seconds ago 475MB
tomcat        latest   bf4d7a00e8fd   8 days ago    475MB
tomcat_1.0    latest   bf4d7a00e8fd   8 days ago    475MB
[root@ip-172-31-21-223 demodocker]#
```

```
[root@ip-172-31-21-223 demodocker]# docker run -d -p 8080:8080 awslab_1.0
```

To check

```
[root@ip-172-31-21-223 demodocker]# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAME
ad2c7276753f   awslab_1.0 "catalina.sh run"       About a minute ago Up About a minute 0.0.0.0:8080->8080/tcp, :::8080->8080/tcp fros
ty_brown
```



You Passed today's lab exam Cheers !