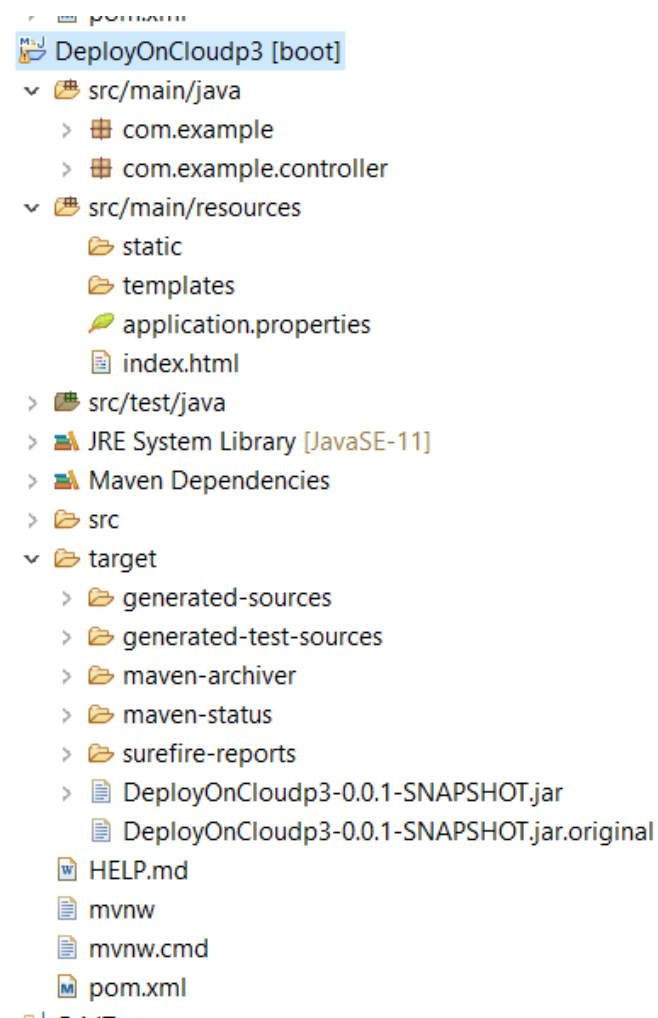


SCREEN SHOTS:

Project: Deploy spring app in Ec2

Project Explorer



Maven install we get jar file and also build success

```

Problems  Javadoc  Declaration  Console  TestNG
C:\Users\user\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.2.v20220201-1208\jre\bin\javaw.exe (24-Mar-2022, 5:11:50 pm)

2022-03-24 17:12:45.521 INFO 6172 --- [main] c.e.DeployOnCloud3ApplicationTests : Starting DeployOnCloud3ApplicationTests using Java 17.0.
2022-03-24 17:12:45.525 INFO 6172 --- [main] c.e.DeployOnCloud3ApplicationTests : No active profile set, falling back to 1 default profile:
2022-03-24 17:12:51.360 INFO 6172 --- [main] c.e.DeployOnCloud3ApplicationTests : Started DeployOnCloud3ApplicationTests in 6.596 seconds
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 15.36 s - in com.example.DeployOnCloud3ApplicationTests
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ DeployOnCloud3 ---
[INFO] Building jar: E:\Practice\DeployOnCloud3\target\DeployOnCloud3-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.6.4:repackage (repackage) @ DeployOnCloud3 ---
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.6.4/spring-boot-buildpack-platform-2.6.4.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.6.4/spring-boot-buildpack-platform-2.6.4.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/2.6.4/spring-boot-loader-tools-2.6.4.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/2.6.4/spring-boot-loader-tools-2.6.4.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.21/commons-compress-1.21.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.21/commons-compress-1.21.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.6.4/spring-boot-buildpack-platform-2.6.4.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platform/2.6.4/spring-boot-buildpack-platform-2.6.4.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/2.6.4/spring-boot-loader-tools-2.6.4.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/2.6.4/spring-boot-loader-tools-2.6.4.jar
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ DeployOnCloud3 ---
[INFO] Installing E:\Practice\DeployOnCloud3\target\DeployOnCloud3-0.0.1-SNAPSHOT.jar to C:\Users\user\m2repository\com\example\DeployOnCloud3\0.0.1-SNAPSHOT.jar
[INFO] Installing E:\Practice\DeployOnCloud3\pom.xml to C:\Users\user\m2repository\com\example\DeployOnCloud3\0.0.1-SNAPSHOT\pom.xml
[INFO] BUILD SUCCESS
[INFO] Total time: 01:28 min
[INFO] Finished at: 2022-03-24T17:13:36+05:30
[INFO]
[WARNING] The requested profile "pom.xml" could not be activated because it does not exist.

```

Once again running spring boot app

```

Problems  Javadoc  Declaration  Console  TestNG
DeployOnCloud3 - DeployOnCloud3Application [Spring Boot App] C:\Users\user\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.2.v20220201-1208\jre\bin\javaw.exe (24-Mar-2022, 5:10:25 pm)

:: Spring Boot ::
(v2.6.4)

2022-03-24 17:11:10.258 INFO 13912 --- [main] com.example.DeployOnCloud3Application : Starting DeployOnCloud3Application using Java 17.0.2 on
2022-03-24 17:11:10.263 INFO 13912 --- [main] com.example.DeployOnCloud3Application : No active profile set, falling back to 1 default profile
2022-03-24 17:11:12.288 INFO 13912 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-03-24 17:11:12.309 INFO 13912 --- [main] o.apache.catalina.core.StandardEngine : Starting service [Tomcat]
2022-03-24 17:11:12.309 INFO 13912 --- [main] o.a.c.c.c.[Tomcat].[localhost].[/] : Starting Servlet engine: [Apache Tomcat/9.0.58]
2022-03-24 17:11:12.428 INFO 13912 --- [main] w.s.c.ServletWebServerApplicationContext : Initializing Spring embedded WebApplicationContext
2022-03-24 17:11:12.428 INFO 13912 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1.422 seconds
2022-03-24 17:11:13.408 INFO 13912 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path
2022-03-24 17:11:13.423 INFO 13912 --- [main] com.example.DeployOnCloud3Application : Started DeployOnCloud3Application in 4.222 seconds (JVM

```

Opened practice lab

FSD Java

AWS

This Lab will get reset on 24th March 2022, 4:56 AM

Current Lab : AWS Certification - Dedicated Account

Access Information

Lab Details

Components

Log Details

Usage Details

Applications

AWS Web Console

AWS API Access

AWS Web Console

Auth Url

https://signin.aws.amazon.com/fed

Refresh Link

AWS Certification - Dedicated Account

Category: Cloud Computing

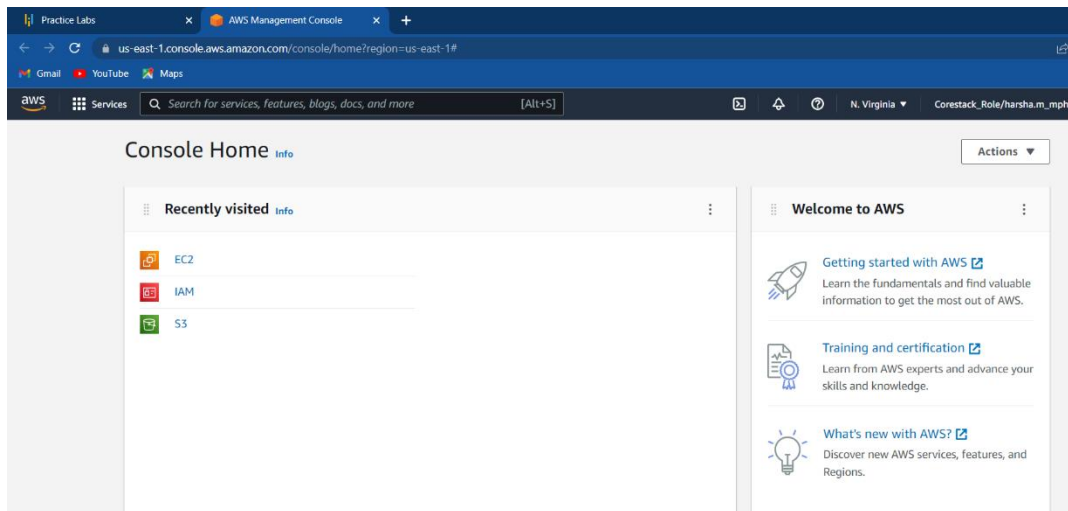
Start Date: 2022-03-22 15:33

End Date: 2022-03-24 05:25

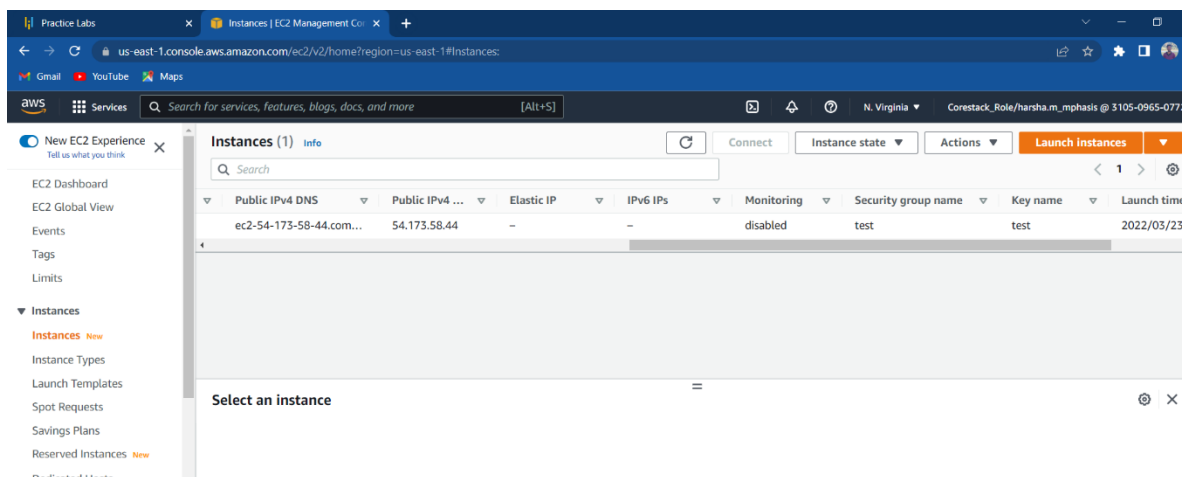
Code: SLAWS

Amazon Web Services (AWS) offers a suite of cloud-computing services that make up an on-demand computing platform. AWS has more than 70 services, spanning a wide range, including compute, storage, networking, database, analytics, application services, deployment, management, mobile, developer tools and tools for the Internet of things.

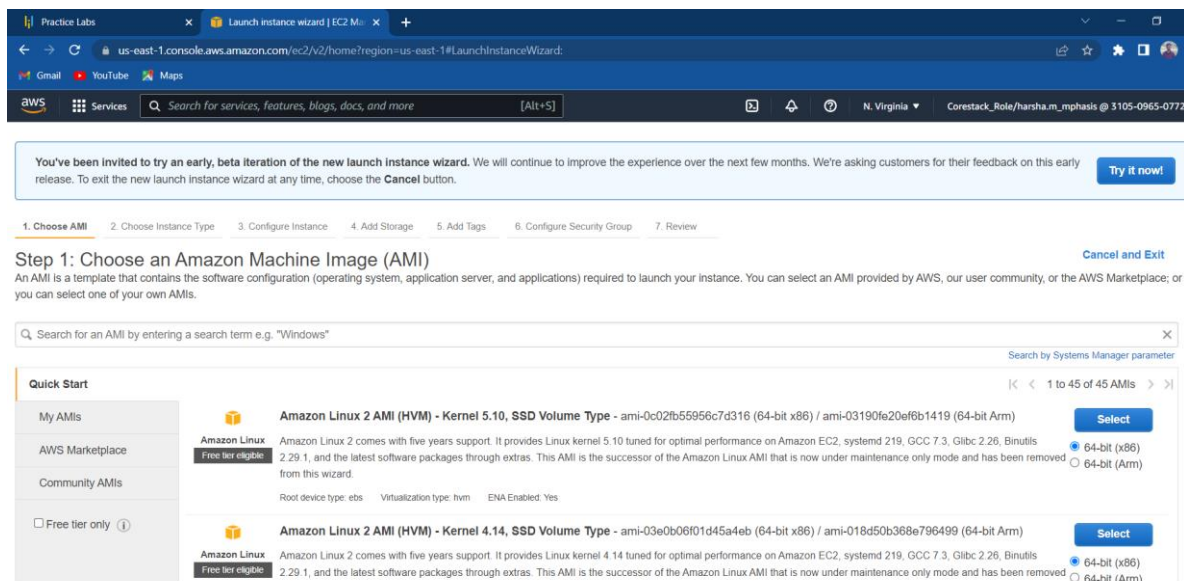
Clicking Ec2 here



Creating New instances



Selecting 1st option AmazonLinux2



Click next

Practice Labs | Launch instance wizard | EC2 M...

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

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
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gbps	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

Click next

Practice Labs | Launch instance wizard | EC2 M...

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

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-0f97ee3ce06a43214 (default) Create new VPC

Subnet: No preference (default subnet in any Availability Zone) Create new subnet

Auto-assign Public IP: Use subnet setting (Enable)

Hostname type: Use subnet setting (IP name)

DNS Hostname: ☒ Enable resource-based IPv4 (A record) DNS requests

Placement group: ☐ Add instance to placement group

Capacity Reservation: Open

Domain join directory: No directory Create new directory

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

Default size 8 we can increase

Practice Labs

Launch instance wizard | EC2 M5

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

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-0c1ac78aec1c4204c	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.

▼ Shared file systems

You currently don't have any file systems on this instance. Select "Add file system" button below to add a file system.

[Add file system](#)

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

Giving key name and value

Practice Labs

Launch instance wizard | EC2 M5

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

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
name	DeployOnCloud	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

Feedback English (US)

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Type here to search

29°C Rain showers 17:19 24-03-2022

Giving security group name and description

Practice Labs

Launch instance wizard | EC2 M...

Viewing Soran (Trainer)'s desktop

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

Services

Search for services, features, blogs, docs, and more

[Alt+S]

N. Virginia

Corestack_Role/harsha.m_mphasis @ 3105-0965-0772

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:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
All TCP	TCP	0 - 65535	Custom CIDR, IP or Security Group	e.g. SSH for Admin Desktop

Add Rule

Warning

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

Cancel

Previous

Review and Launch

Feedback

English (US)

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17:20

24-03-2022

launch

Practice Labs

Launch instance wizard | EC2 M...

Viewing Soran (Trainer)'s desktop

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

Services

Search for services, features, blogs, docs, and more

[Alt+S]

N. Virginia

Corestack_Role/harsha.m_mphasis @ 3105-0965-0772

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

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Improve your instances' security. Your security group, AWS-Phase5-Project, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-0c02fb55956c7d316

Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 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 n...
Root Device Type: ebs Virtualization type: hvm

Edit AMI

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

Edit instance type

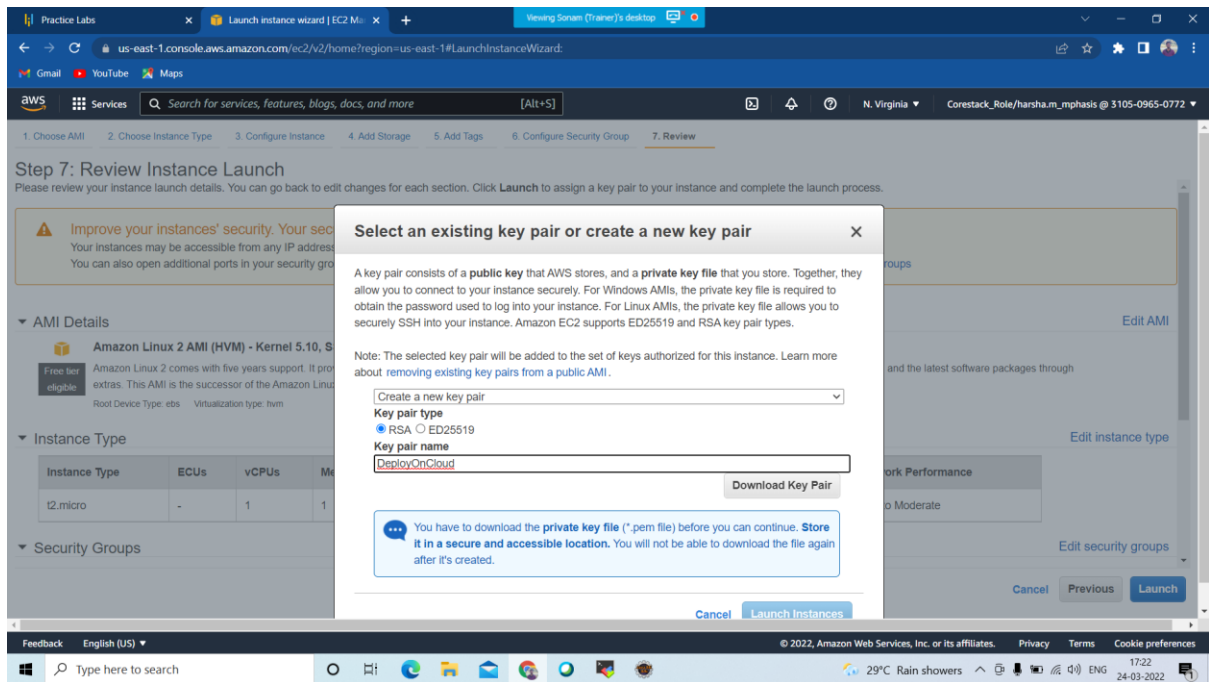
Security Groups

Edit security groups

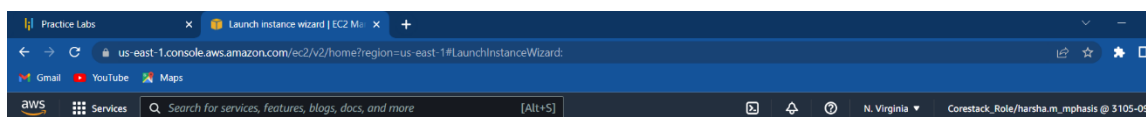
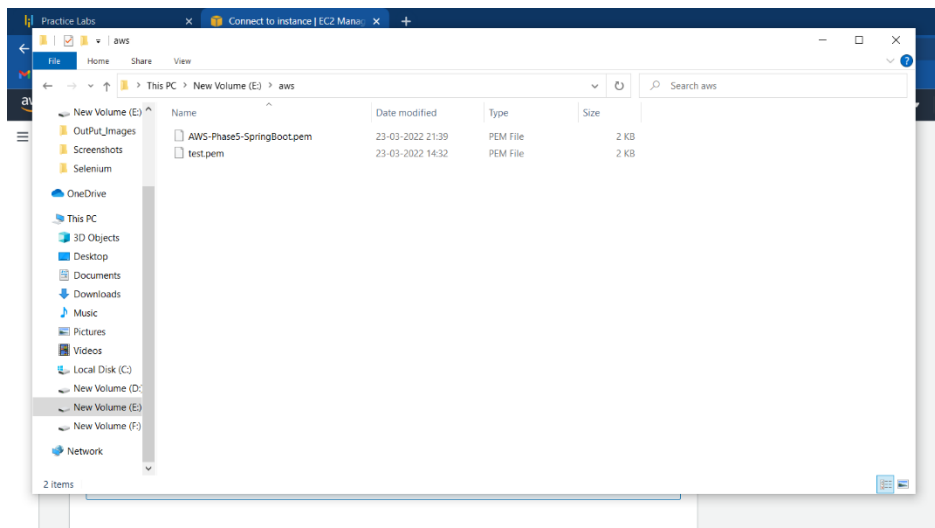
Cancel

Previous

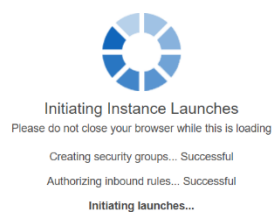
Launch



Downloaded key-value pair .pem file move to aws folder



Launch Status



Practice Labs x Launch instance wizard | EC2 M x +

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

Launch Status

✓ Your instances are now launching
The following instance launches have been initiated: i-0aba9d3b74c07d096 [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)

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Instance is in pending state

Practice Labs x Instances | EC2 Management Co x +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instancessearch=i-0deb366640ea432db

Instances (1) Info

Search Clear filters

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	AWS-Phase5-...	i-0deb366640ea432db	Pending	t2.micro	-	No alarms +	us-east-1c	ec2-3-95-5-211.

Select an instance

Now we can see its in running state

Practice Labs

Instances | EC2 Management Console

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instancesv=3

Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia Corestack_Role/narsha.m_mphasis @ 3105-0965-0772

New EC2 Experience

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

Instances (2) Info

Search

Connect

Instance state

Actions

Launch instances

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	AWS-Phase5-...	i-0deb366640ea432db	Running	t2.micro	Initializing	No alarms	us-east-1c	ec2-3-95-5-211.c

Select an instance

Practice Labs

Connect to instance | EC2 Mana

Viewing Sonam (Trainer)'s desktop

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#ConnectToInstance:instanceId=i-0f160f4d79998bb4a

Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia Corestack_Role/narsha.m_mphasis @ 3105-0965-0772

EC2 > Instances > i-0f160f4d79998bb4a > Connect to instance

Connect to instance Info

Connect to your instance i-0f160f4d79998bb4a using any of these options

EC2 Instance Connect Session Manager SSH client EC2 Serial Console

Instance ID

i-0f160f4d79998bb4a

Public IP address

44.203.38.196

User name

ec2-user

Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.

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.

Feedback English (US)

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DeployOnCloud.com

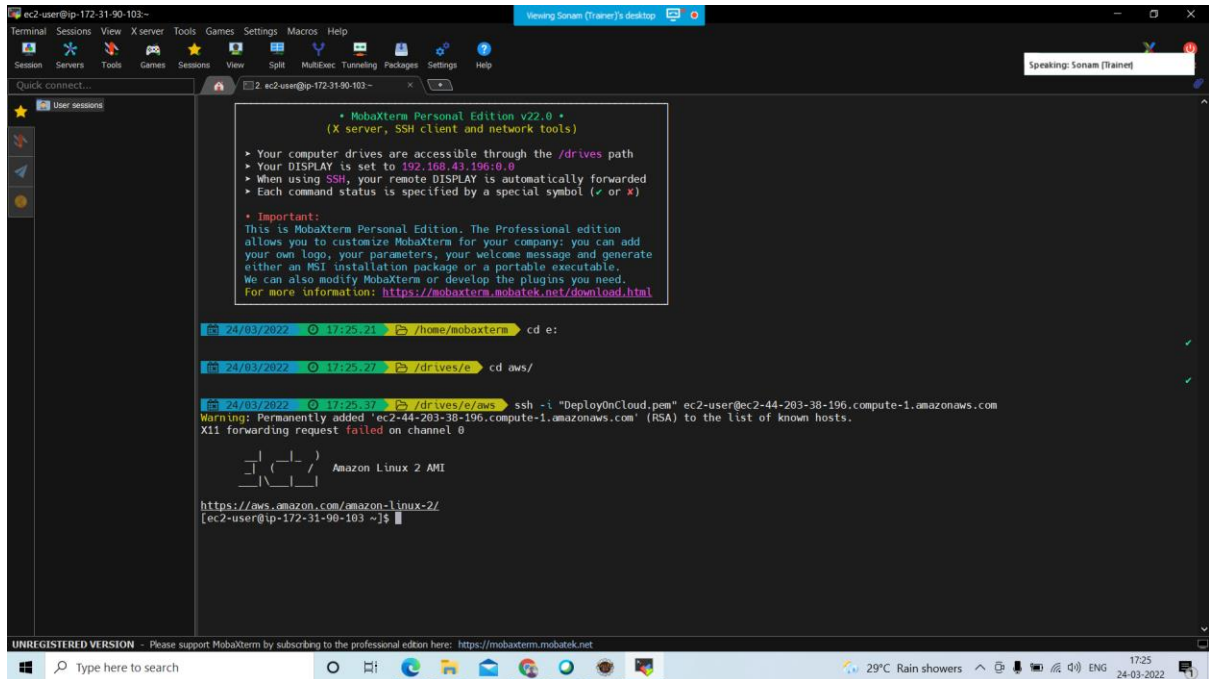
Show all

Type here to search

29°C Rain showers

17:23 24-03-2022

Moving to aws folder and executing ssh

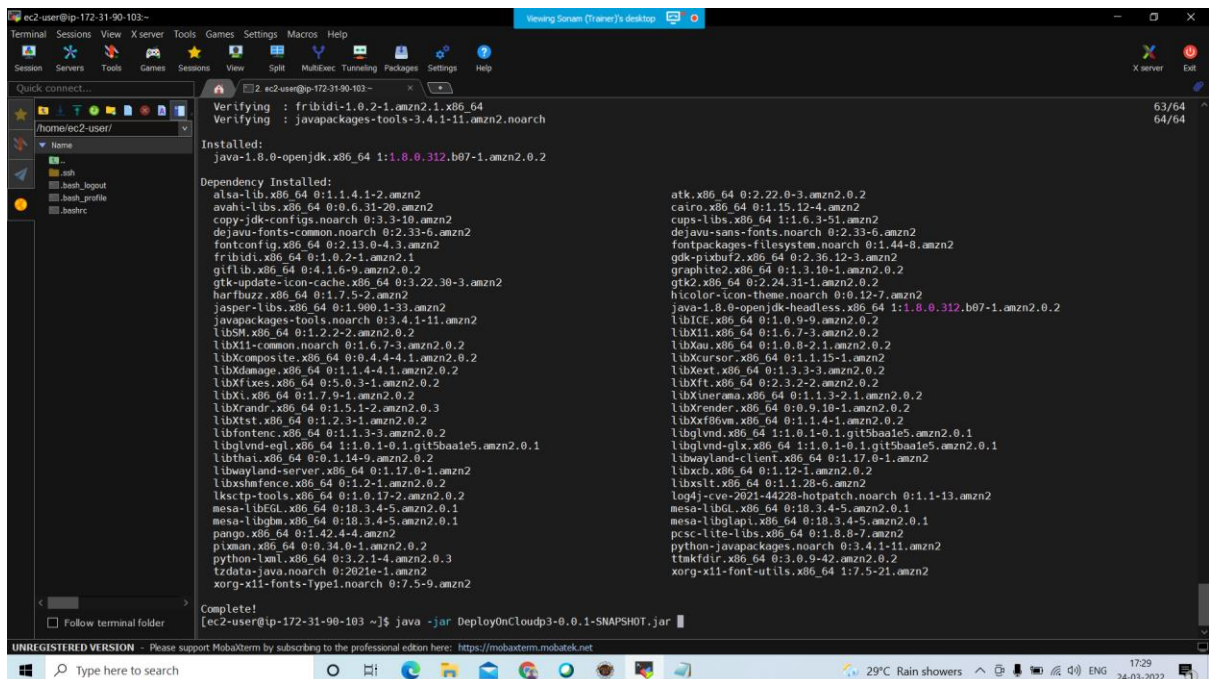


The screenshot shows the MobaXterm interface with a terminal window. The terminal displays the following commands and output:

```
cd e:
cd /drives/e
ssh -i "DeployOnCloud.pem" ec2-user@ec2-44-203-38-196.compute-1.amazonaws.com
```

The output of the SSH command shows the Amazon Linux 2 AMI logo and the URL <https://aws.amazon.com/amazon-linux-2/>. The terminal also shows a warning about permanently adding the host to the list of known hosts.

Installing java to run

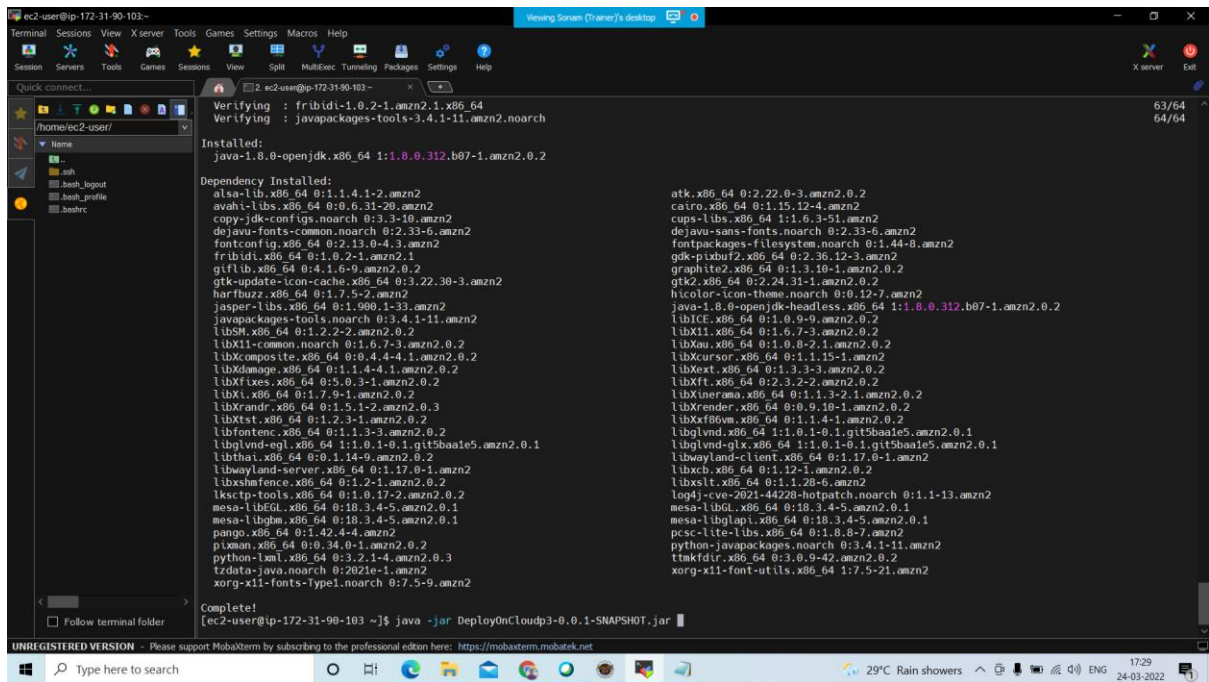


The screenshot shows the MobaXterm interface with a terminal window. The terminal displays the following commands and output:

```
java-1.8.0-openjdk.x86_64 1:1.8.0.312.b07-1.amzn2.0.2
```

The output shows the installation of Java and the execution of the Maven command `mvn -jar DeployOnCloudp3-0.0.1-SNAPSHOT.jar`. The terminal also shows a warning about permanently adding the host to the list of known hosts.

Running spring boot maven jar



```
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.jcsms.sbcglobe.net

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

:: Spring Boot :: (v2.3.0.RELEASE)

2020-06-06 14:14:41.359 INFO 23604 --- [main] c.j.a.a.SpringBootAwsExampleApplication : Starting SpringBootAwsExampleApp
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 b
default
2020-06-06 14:14:44.109 INFO 23604 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s)
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
2020-06-06 14:14:44.306 INFO 23604 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded Web
2020-06-06 14:14:44.311 INFO 23604 --- [main] o.s.web.context.ContextLoader : Root WebApplicationContext: init
2777 ms
2020-06-06 14:14:45.199 INFO 23604 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'ap
2020-06-06 14:14:45.637 INFO 23604 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080
2020-06-06 14:14:45.665 INFO 23604 --- [main] c.j.a.a.SpringBootAwsExampleApplication : Started SpringBootAwsExampleApp
```