
Implement Frameworks the DevOps way

FSD: Lab Guide - Phase 3



This section will guide you to:

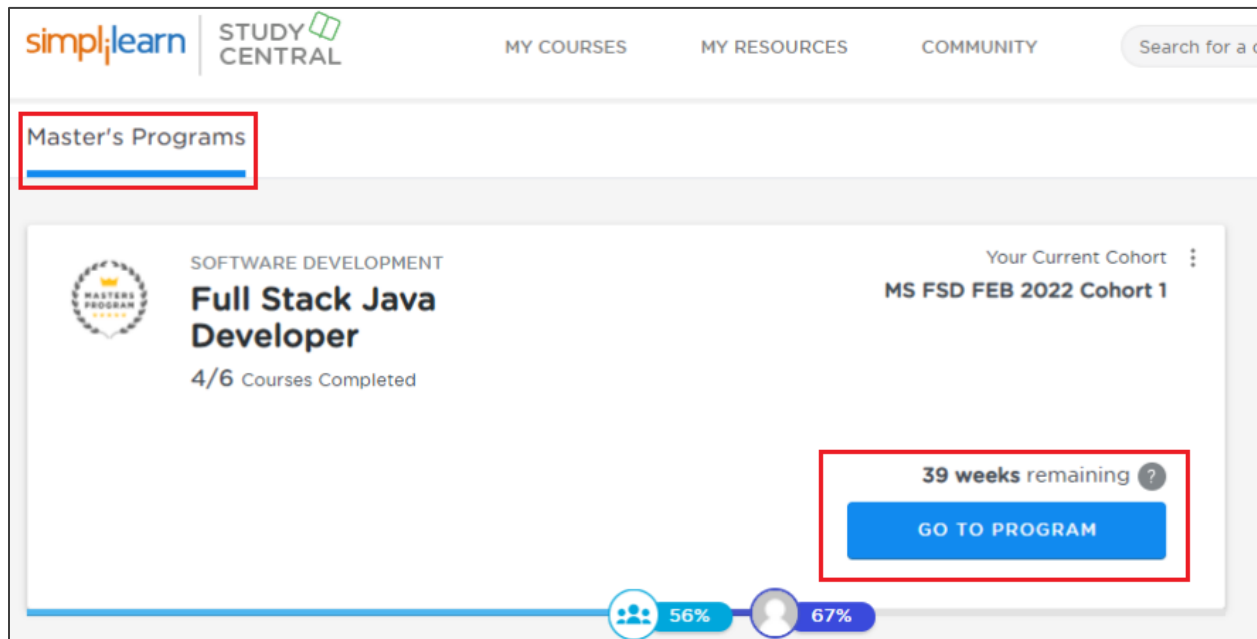
- Use practice labs to execute all demos included in this course

This lab has two subsections, namely:

1. Starting practice labs on LMS
2. Using different IDEs and software required for Phase 3

Step 1: Starting practice labs on LMS

- Login to Simplilearn LMS
- Select Master Program and then Go to Program



- Click on the respective course (However, since all the courses/phases have same lab, so it can be launched from anyone of them.)
- On the left side, click on **PRACTICE LABS** tab
- As a new window opens, read the instructions and click on **LAUNCH LAB**

←

BACK

Implement OOPS using JAVA with Data Structures and Beyond

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PRACTICE LABS

ASSESSMENT

CERTIFICATE

FSD Java

IMP: Dear learner,
Please note: This lab is configured based on the curriculum covered during the live virtual classes.
All details pertaining to the exercises in this lab are provided in the e-books available in your LMS account.

You can download the Lab Guides from here.

Your Labs are ready.

LAUNCH LAB

- Select RDP Access and Start Instance

←

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FSD Java

This Lab will get reset on 23rd January 2022, 5:25 PM

Current Lab : Full Stack Java Developer

Access Information Lab Details Components Log Details Usage Details

Applications


Webconsole

RDP Access

Instance Actions

Start Instance

Instance status : Stopped
Last updated at : 2022-05-12 13:37

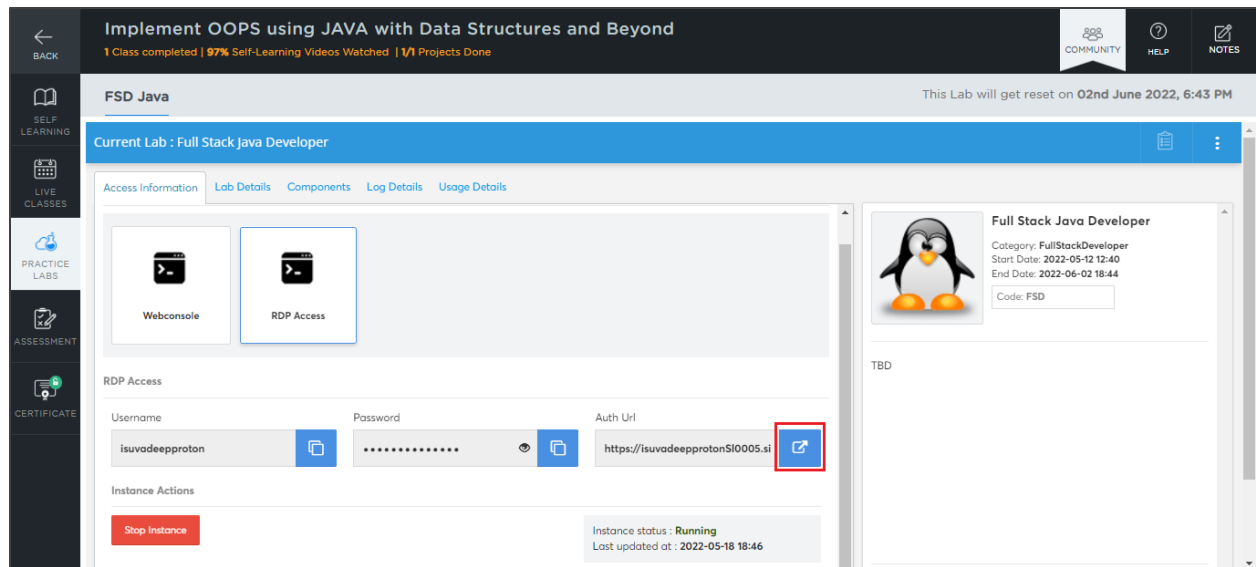


Full Stack Java Developer

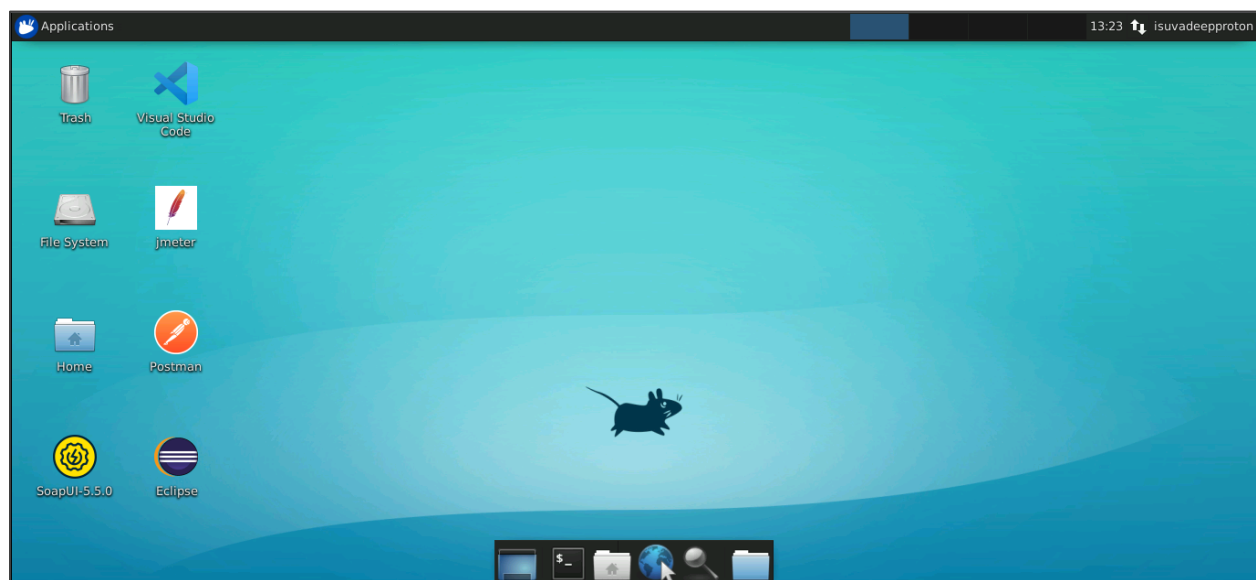
Category: FullStackDeveloper
Start Date: 2022-05-12 12:40
End Date: 2022-06-02 17:58
Code: FSD

TBD

- Click on Auth URL button



- You will be able to access IDEs and software which are present in labs



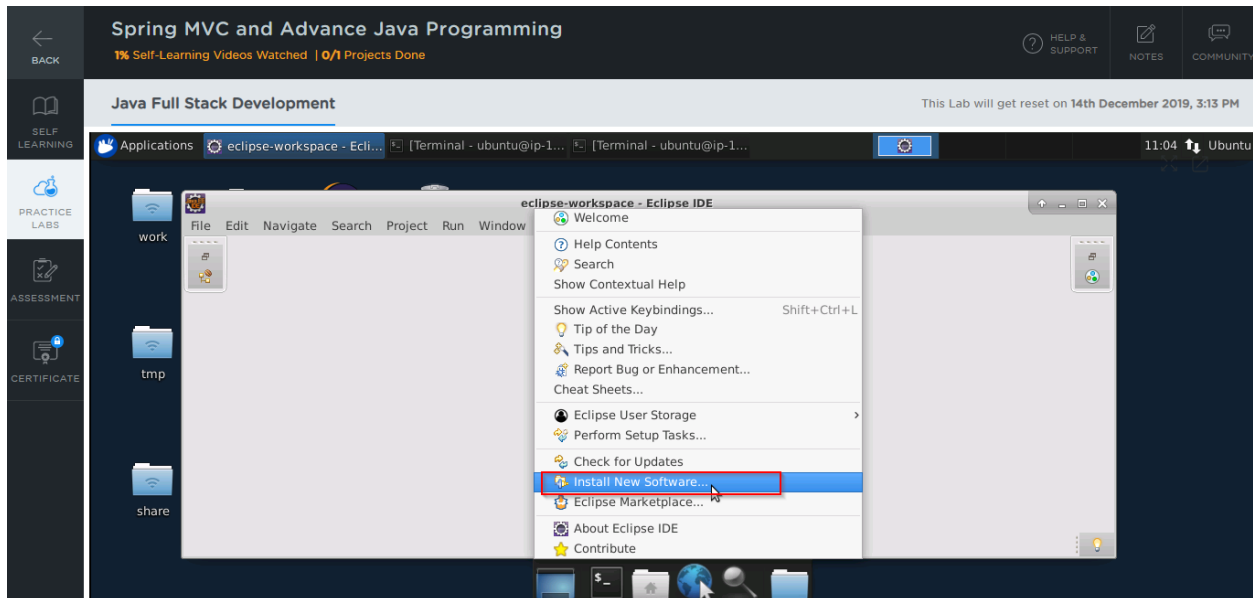
Step 2: Using different IDEs and software required for Phase 3

All the required IDEs and software can be accessed from the labs

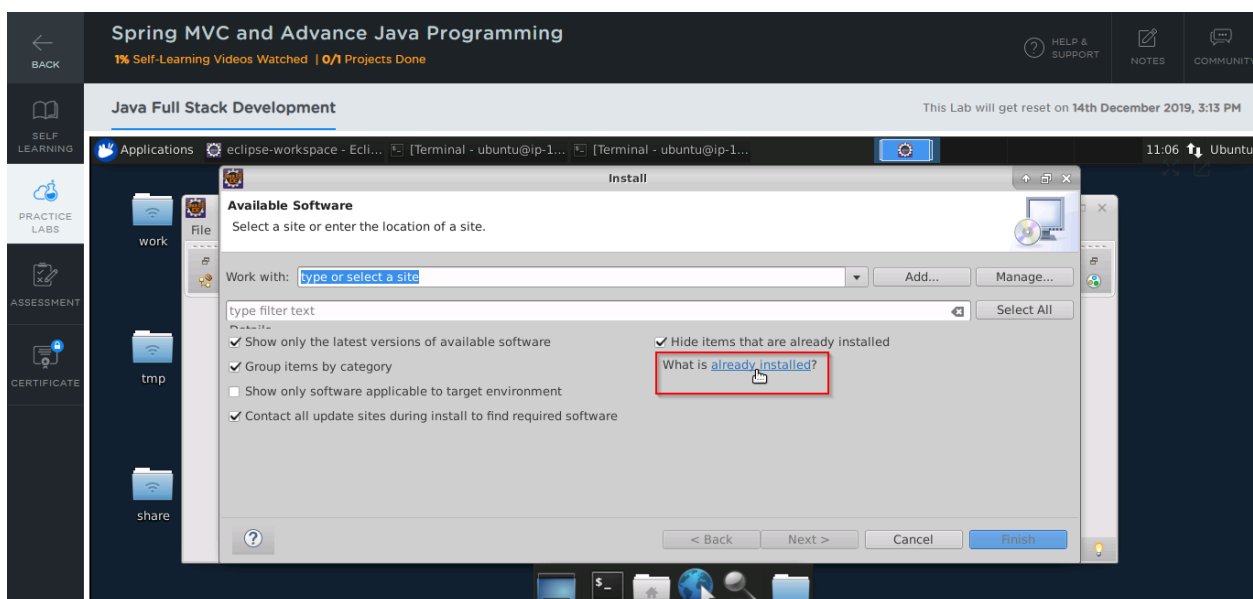
Spring Tool Suite & Spring Boot:

Spring and its packages are already installed in your practice labs

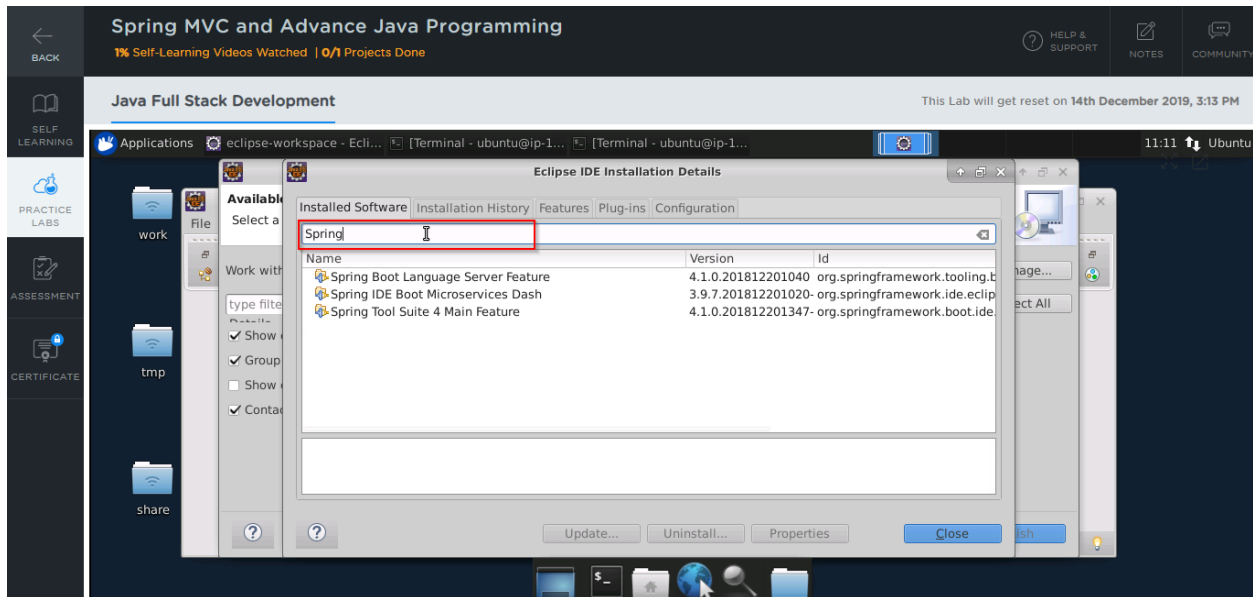
- To verify the installation:
 1. Open the Eclipse environment from your desktop
 2. Go to the **Help** tab and select **Install New Software**



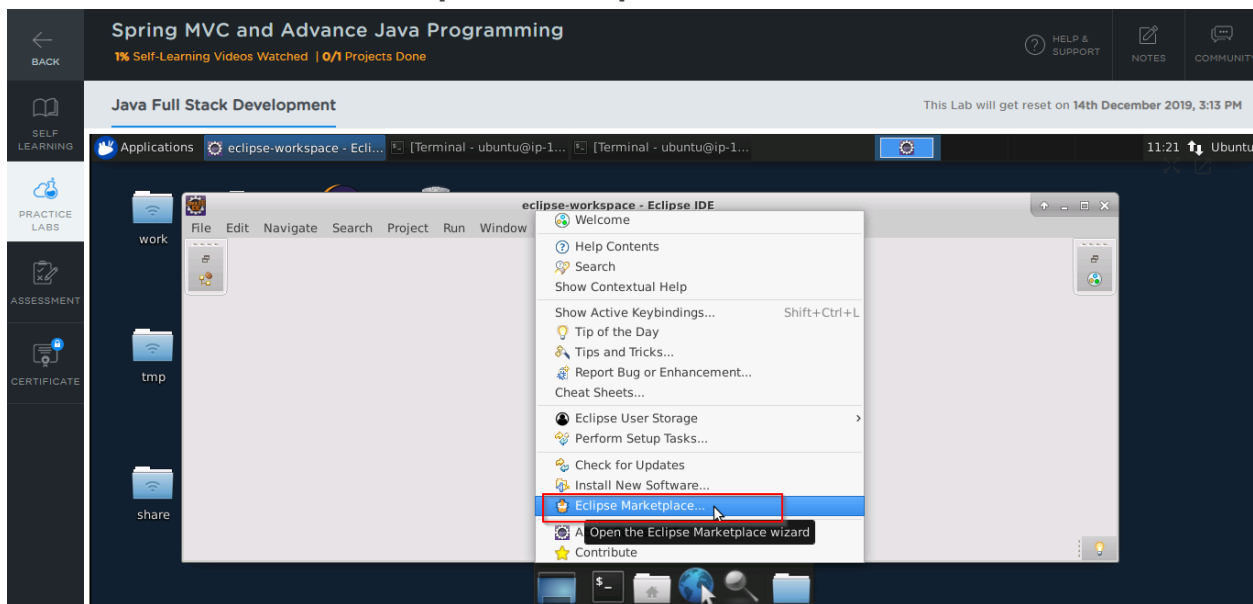
3. In the next window, click on **Already Installed**



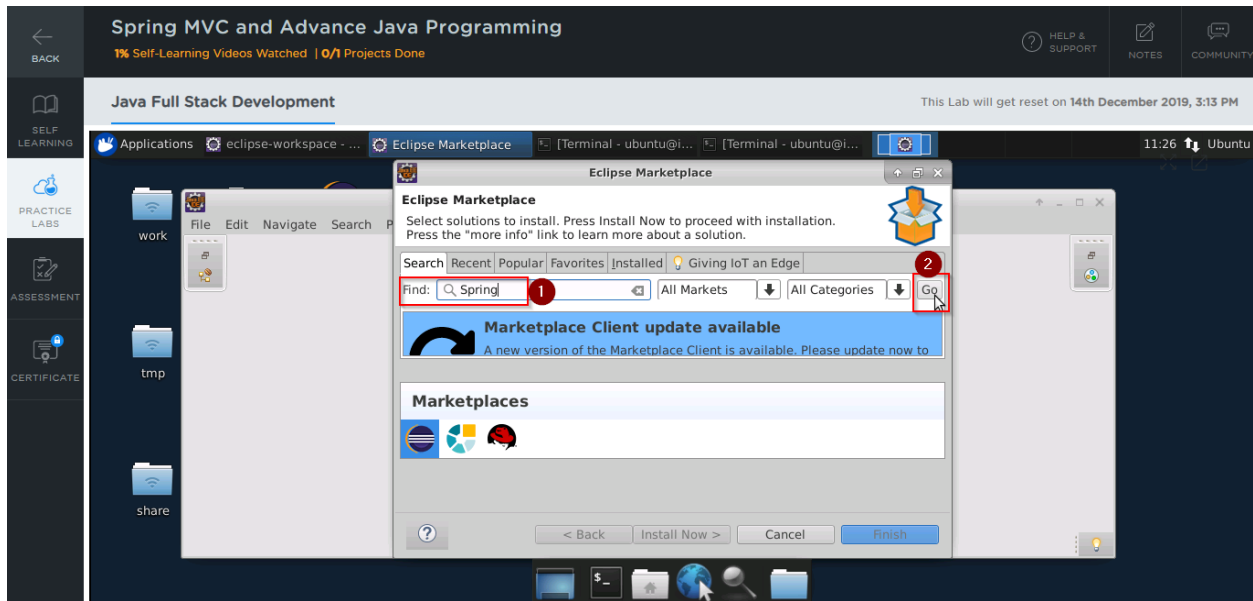
4. In the **filter text** field, type **Spring**



- In case Spring packages are not installed in your practice lab, you can install them following these steps:
 1. Open the Eclipse environment from your desktop, go to the **Help** tab, and click on **Eclipse Marketplace**



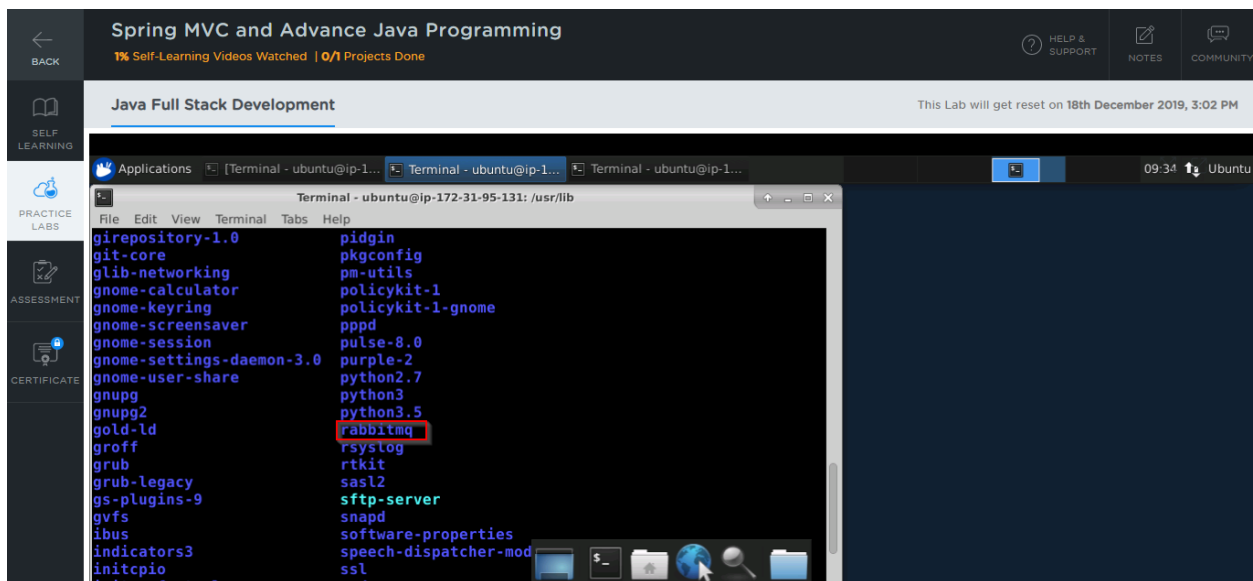
2. Type **Spring** in the **Find** field and click on **Go**



3. You'll find Spring Tool Suite and Spring Boot listed there
4. Click on the **install** button against the package that you want to install

RabbitMQ:

- You can find it in the directory **usr/lib**
- This step is shown below in the screenshot:



- In case RabbitMQ is not installed in your practice lab, you can install it using the commands:

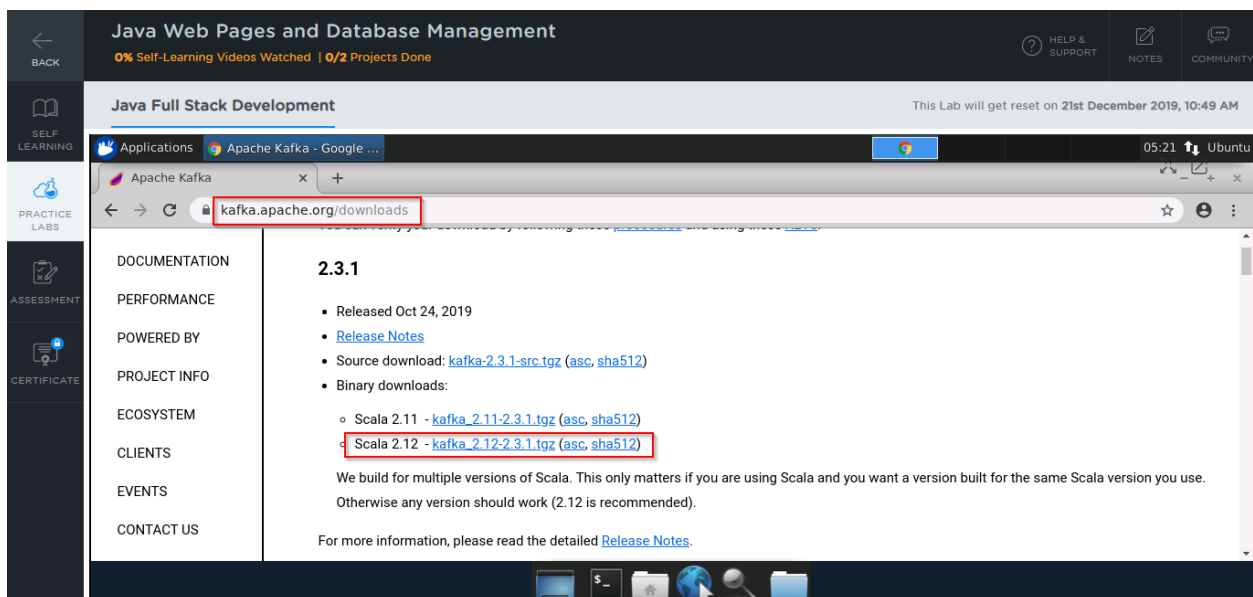
```
sudo apt update
```

```
sudo apt -y install rabbitmq-server
```

Kafka:

You can use the following steps to install Kafka:

- Go to **<https://kafka.apache.org/downloads>** and download the latest binary file



- Open the command line and navigate to the **Downloads** folder:

```
cd Downloads
```
- Use the following commands to extract files from the binary file you have downloaded in the previous step:

```
tar xzf kafka_2.12-2.3.1.tgz
```

```
mv kafka_2.12-2.3.1 /usr/local/kafka
```


- Start a Zookeeper instance first using the commands:

```
cd /usr/local/kafka
```

```
bin/zookeeper-server-start.sh config/zookeeper.properties
```

- Start the Kafka server using the command:

```
bin/kafka-server-start.sh config/server.properties
```

JUnit:

JUnit is already installed in your practice labs, and you can find it in the directory `/usr/share/java`

- Use the following command to navigate to the above-mentioned directory:

```
cd /usr/share/java/
```

```
ls
```

```
nehavaidyasimpl@ip-172-31-9-41:~$ cd /usr/share/java
nehavaidyasimpl@ip-172-31-9-41:/usr/share/java$ ls
ant-1.9.6.jar
```

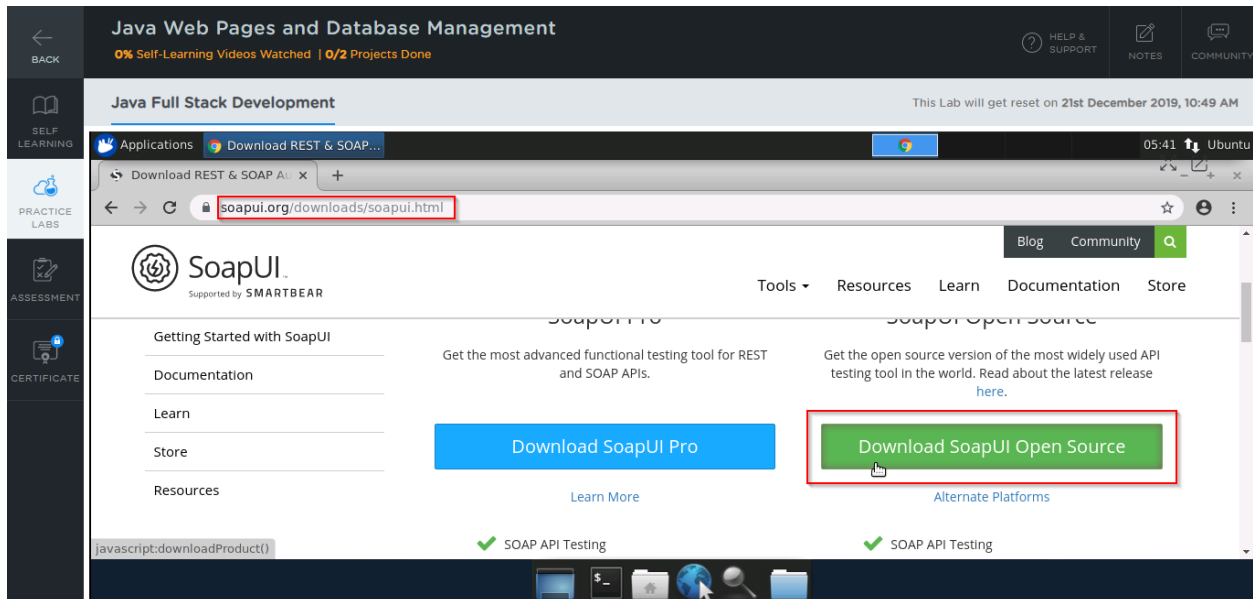
```
junit-3.8.2.jar
junit4-4.12.jar
junit4.jar
junit.jar
```

SoapUI:

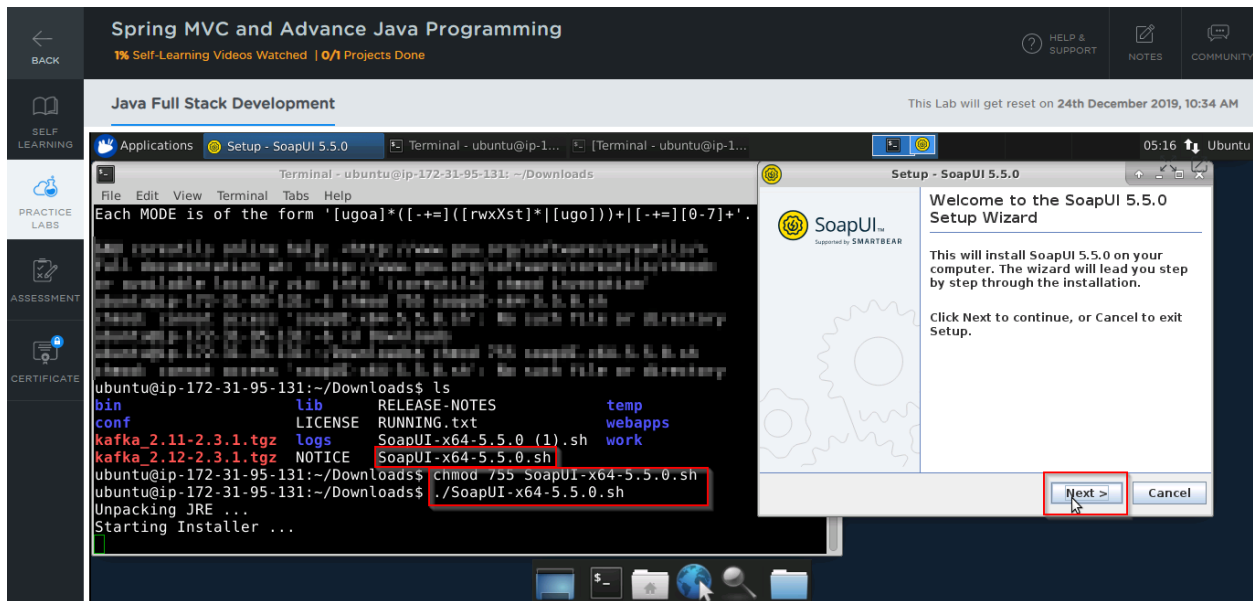
SoapUI is already installed in your lab

- You can use the following steps to install SoapUI:

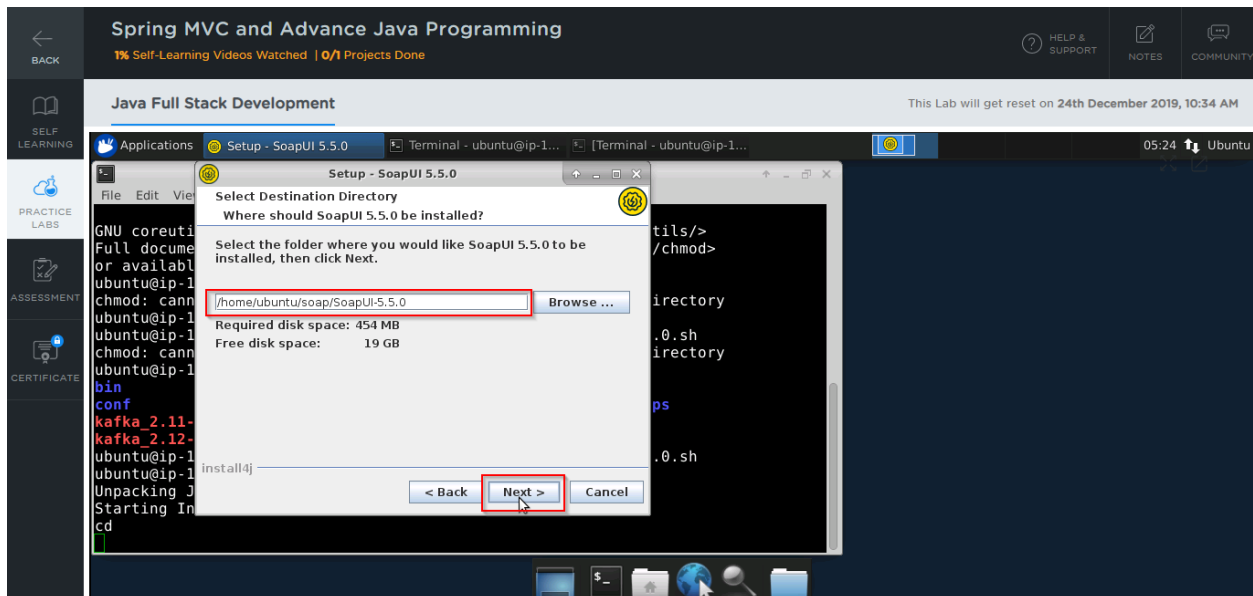
- Go to **<https://www.soapui.org/downloads>** and click on **Download SoapUI open source**



- Open the command line and navigate to the **Downloads** folder:
`cd Downloads`
- Run the following commands to initiate the installer:
`chmod 755 SoapUI-x64-5.5.0.sh`
`./SoapUIx-64-5.2.1.sh`
- Once the installer is initiated, click on **Next**



- Choose the path where you want to install SoapUI and click on **Next**



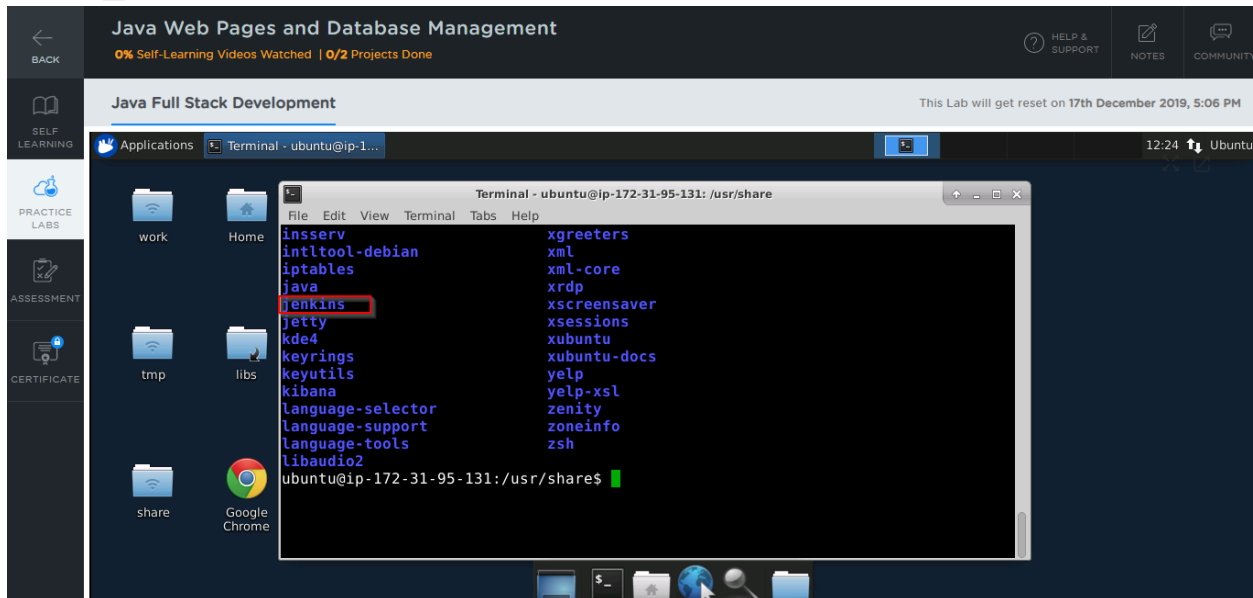
- Accept all the default settings and follow the wizard instructions to finish the installation

Jenkins:

Jenkins is already installed in your practice labs

- You will find it in the directory `/usr/share`
- Use the following commands to navigate to the above-mentioned directory:

```
cd /usr/share  
ls
```



- In case Jenkins is not installed in your practice lab, you can install it using the commands:

```
sudo apt update  
sudo apt install jenkins
```

Maven:

Maven is already installed in your practice labs

- You can use the following command to verify the installation:

```
mvn -v
```

```
nehavaidyasimpl@ip-172-31-81-156:~$ mvn -v
Apache Maven 3.3.9
Maven home: /usr/share/maven
Java version: 1.8.0_275, vendor: Private Build
Java home: /usr/lib/jvm/java-8-openjdk-amd64/jre
Default locale: en_US, platform encoding: UTF-8
OS name: "linux", version: "4.4.0-1121-aws", arch: "amd64", family: "unix"
nehavaidyasimpl@ip-172-31-81-156:~$
```

- In case Maven is not installed in your system, you can install it using the commands:

```
sudo apt-get update
```

```
sudo apt-get install maven
```