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## **Become a Backend Expert**

FSD: Lab Guide - Phase 2



Get Certified. Get Ahead.

This section will guide you to:

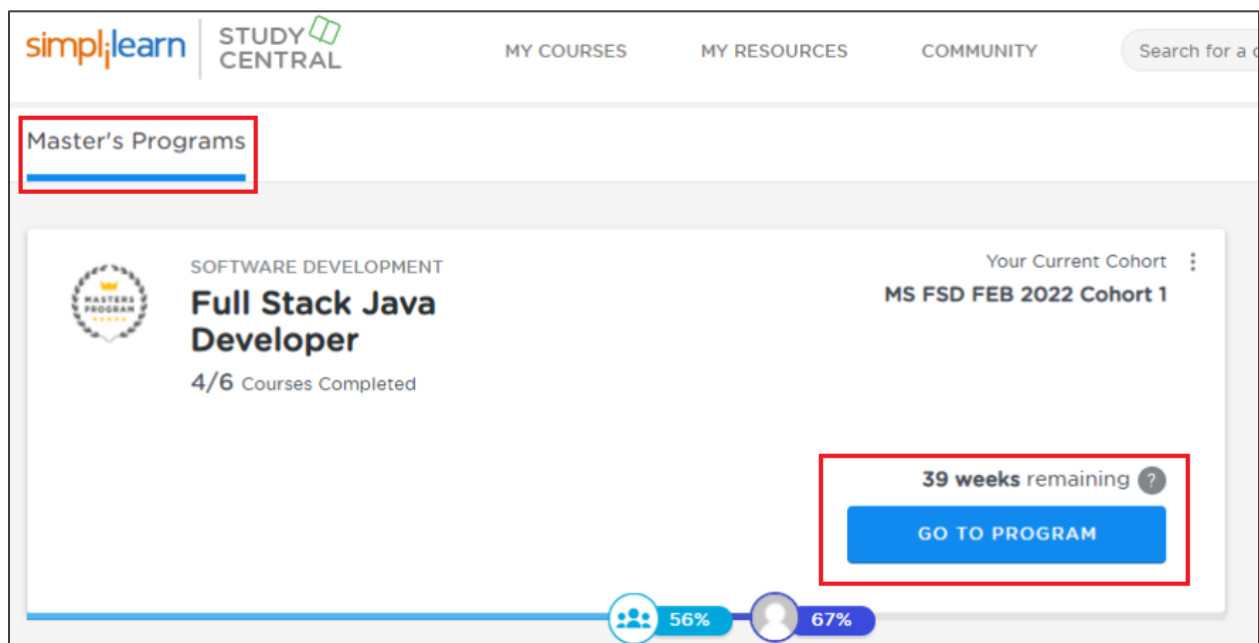
- Use labs to execute all demos included in this course

This lab has two subsections, namely:

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

### 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

1 Class completed | 97% Self-Learning Videos Watched | 1/1 Projects Done

COMMUNITY

HELP

NOTES

SELF LEARNING

LIVE CLASSES

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

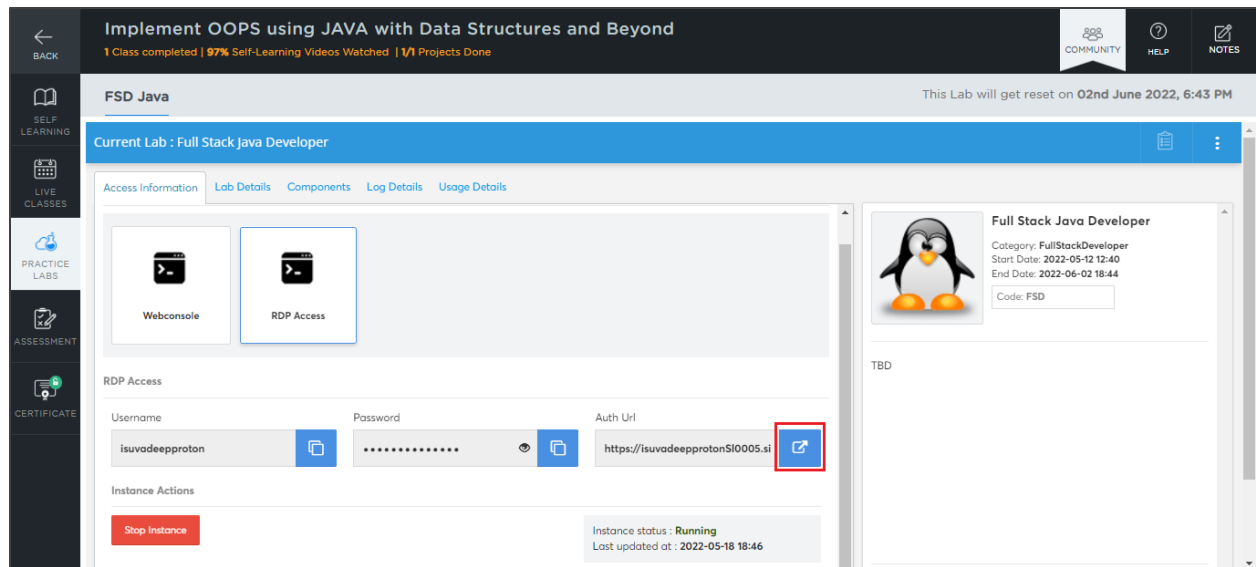


Full Stack Java Developer

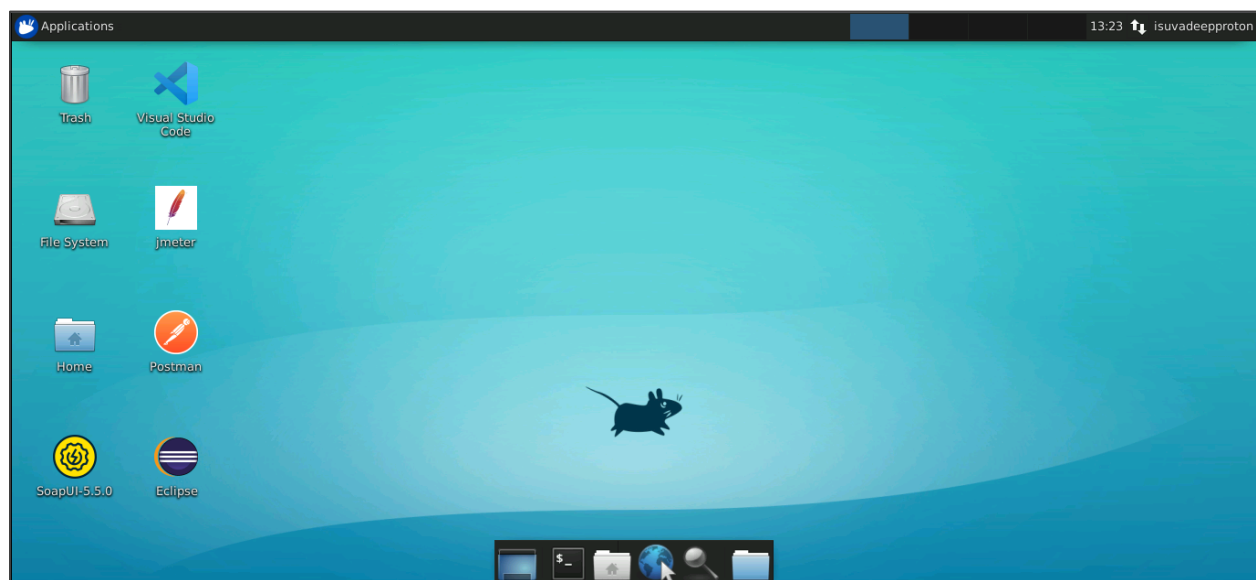
Category: FullStackDeveloper  
Start Date: 2022-05-12 12:40  
End Date: 2022-06-02 17:58  
Code: FSD

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 2

### Apache:

- Apache is already installed in your practice labs

- To verify the installation:
  1. Open the command-line interface
  2. Type the following command:

```
sudo apache2 -version
```

```
nehavaidyasimpl@ip-172-31-81-156:~$ sudo apache2 -version
Server version: Apache/2.4.18 (Ubuntu)
Server built:   2020-08-12T21:35:50
nehavaidyasimpl@ip-172-31-81-156:~$ █
```

The command mentioned above displays the apache version installed in your practice labs

- In case you find that **apache2** is not installed in your practice labs, you can install it using the following commands:

```
sudo apt update
```

```
sudo apt install apache2
```

## MySQL:

- MySQL is already installed in your practice labs
- To verify the installation:
  1. Open the command-line interface
  2. Type the following command:

```
mysql -V
```

```
nehavaidyasimpl@ip-172-31-81-156:~$ mysql -V
mysql Ver 8.0.21 for Linux on x86_64 (MySQL Community Server - GPL)
nehavaidyasimpl@ip-172-31-81-156:~$ █
```

The command mentioned above displays the MySQL version installed in your practice labs

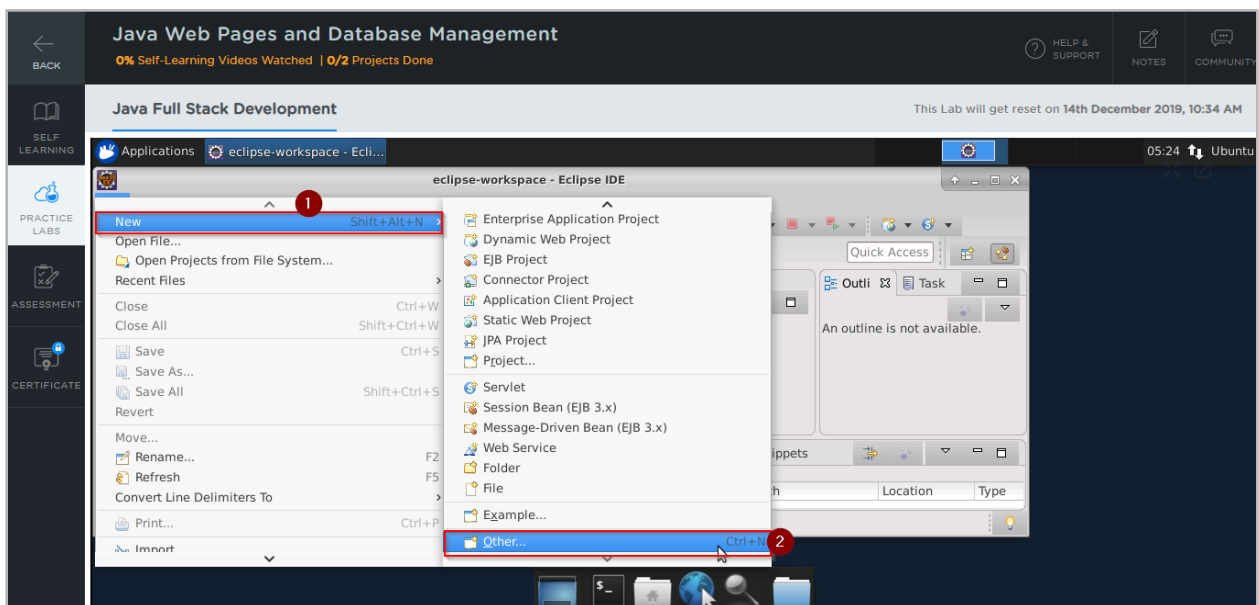
- In case you find that MySQL is not installed in your practice labs, you can install it using the following commands:

```
sudo apt-get update
```

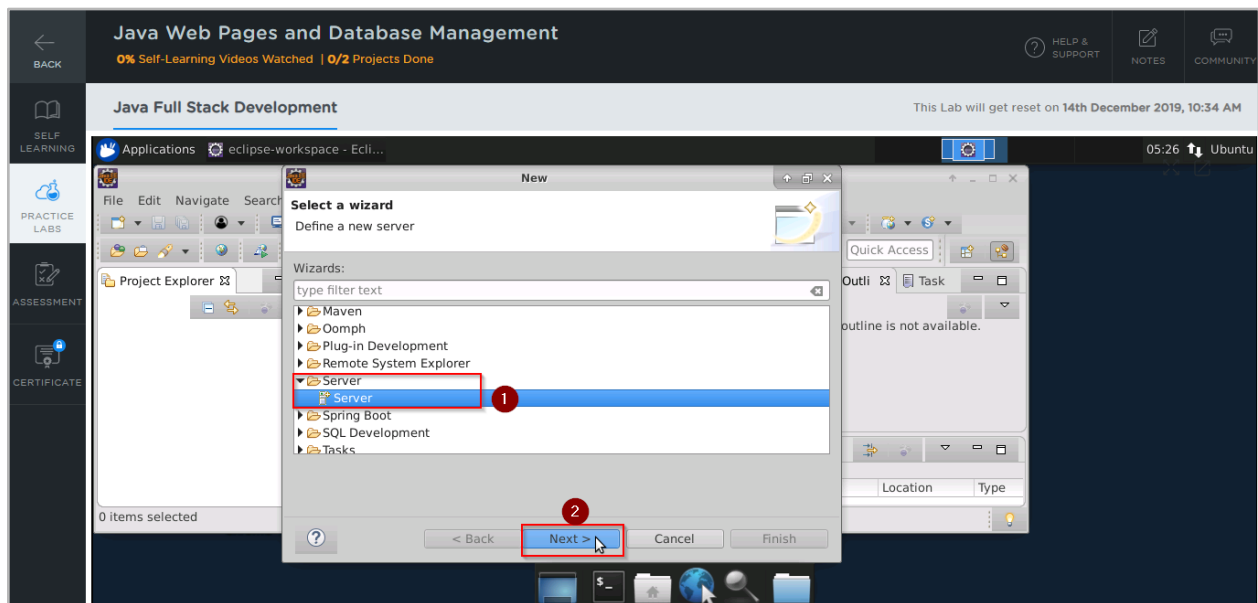
```
sudo apt-get install mysql-server
```

## Tomcat:

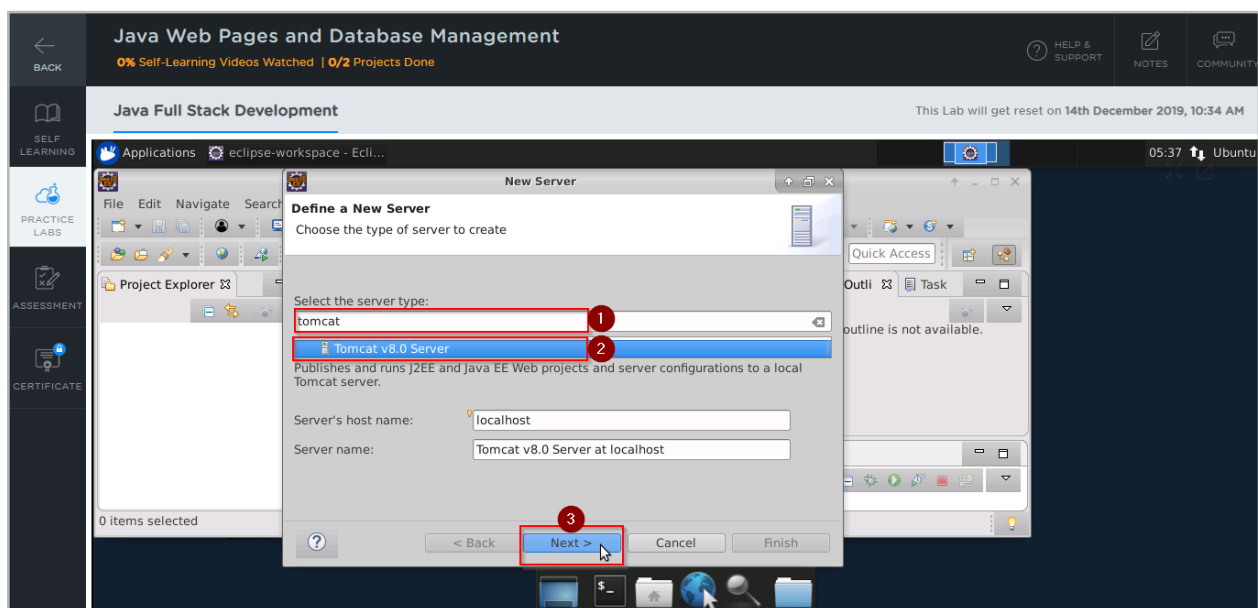
- Tomcat 8 is already installed in your practice labs
- For Eclipse integration, you need to download Tomcat from within Eclipse
- To do that, follow these steps:
  1. Open the Eclipse environment from your desktop
  2. Select the directory where you would like to save your programs
  3. Select the **Use this as default and do not ask again** checkbox and click on **launch**



4. Now, on the next page, select **Server > Server** and click on **Next**

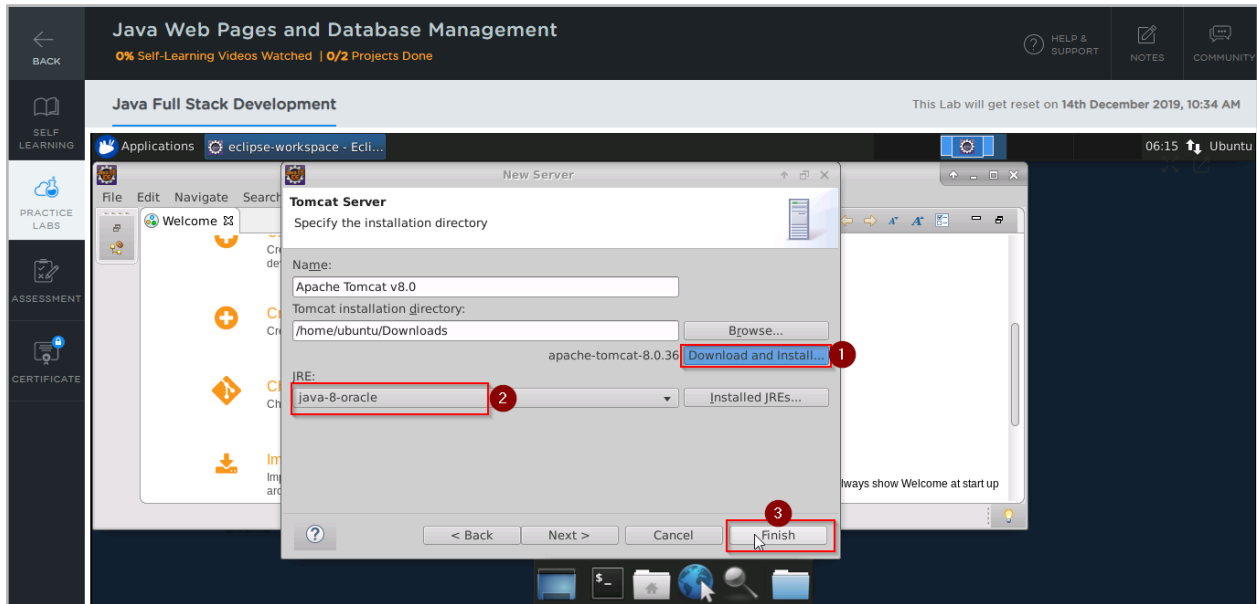


5. Type Tomcat in the **filter text** field, select the Tomcat version that you would like to install, and click on **Next**



6. Click on **Download and Install** and select the directory where you want to download Tomcat

## 7. Select the installed JRE and click on **Finish**



## Servlet and JSP:

- Servlet and JSP are already installed in your practice labs
- You will find their jar files at `usr/share/java`

```
Terminal - nehavaidiasimpl@ip-172-31-9-41: /usr/share/java
File Edit View Terminal Tabs Help
nehavaidiasimpl@ip-172-31-9-41:~$ cd /usr/share/java
nehavaidiasimpl@ip-172-31-9-41:/usr/share/java$ ls
ant-1.9.6.jar
ant-antlr-1.9.6.jar
ant-antlr.jar
ant-apache-bcel-1.9.6.jar
ant-apache-bcel.jar
serializer.jar
servlet-api-2.5.jar
servlet-api-3.1.jar
sisu-inject-0.3.2.jar
sisu-inject.jar
jsp-api-2.1.jar
jsp-api-2.3.jar
jsr305-0.1~+svn49.jar
jsr305.jar
```