
Testing in a DevOps Lifecycle

FSD: Lab Guide - Phase 5



Get Certified. Get Ahead.

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 5

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**

←
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SELF LEARNING

LIVE CLASSES

PRACTICE LABS

ASSESSMENT

CERTIFICATE

Implement OOPS using JAVA with Data Structures and Beyond

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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Implement OOPS using JAVA with Data Structures and Beyond

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

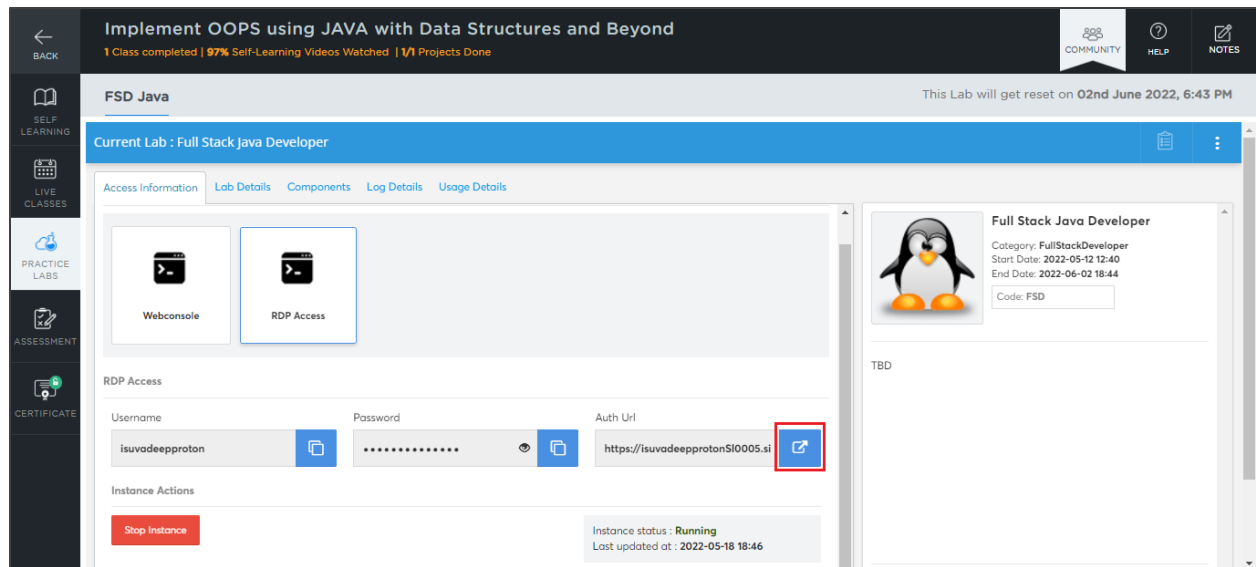
Instance status : Stopped
Last updated at : 2022-05-12 13:37

Full Stack Java Developer

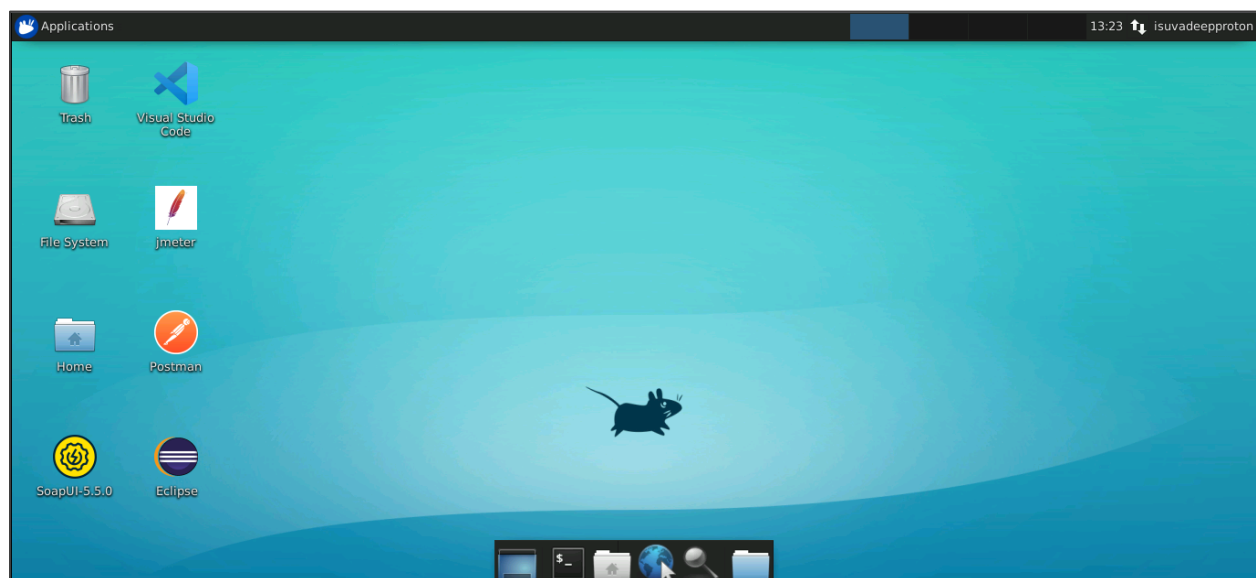
Category: FullStackDeveloper
Start Date: 2022-05-12 12:40
End Date: 2022-06-02 17:58
Code: FSD

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 5

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

Selenium:

- You will find Selenium in the directory `/usr/share` which is shown in the screenshot below:

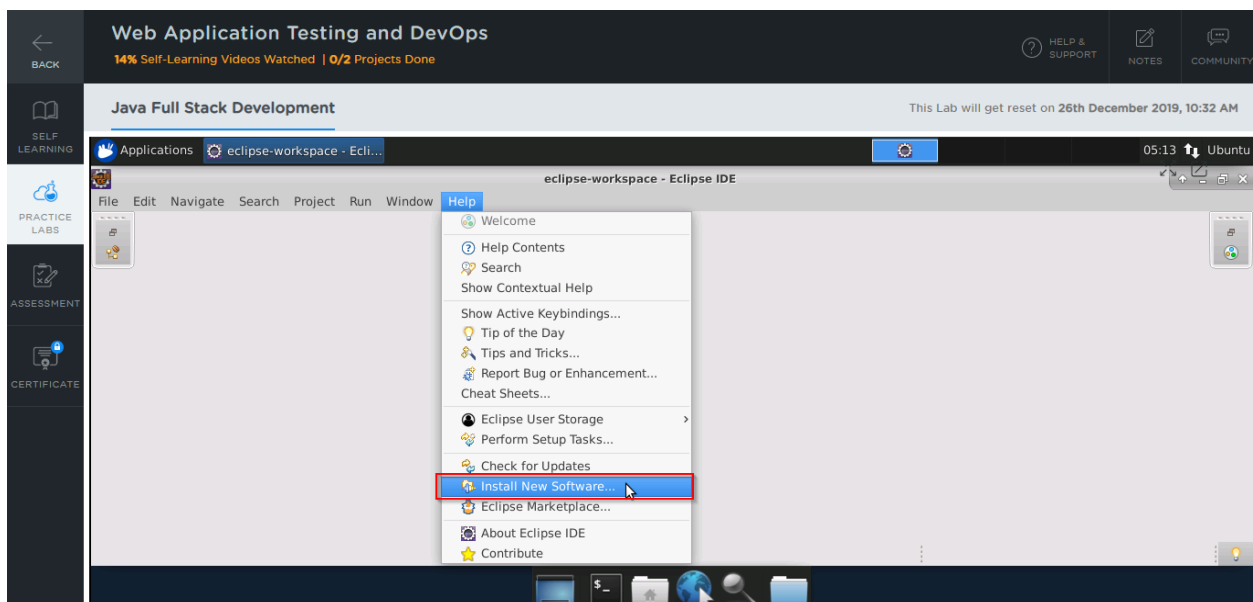
```
nehavaidyasimpl@ip-172-31-81-156:~$ locate selenium
/usr/share/selenium
/usr/share/selenium/selenium-server-standalone.jar
nehavaidyasimpl@ip-172-31-81-156:~$
```

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

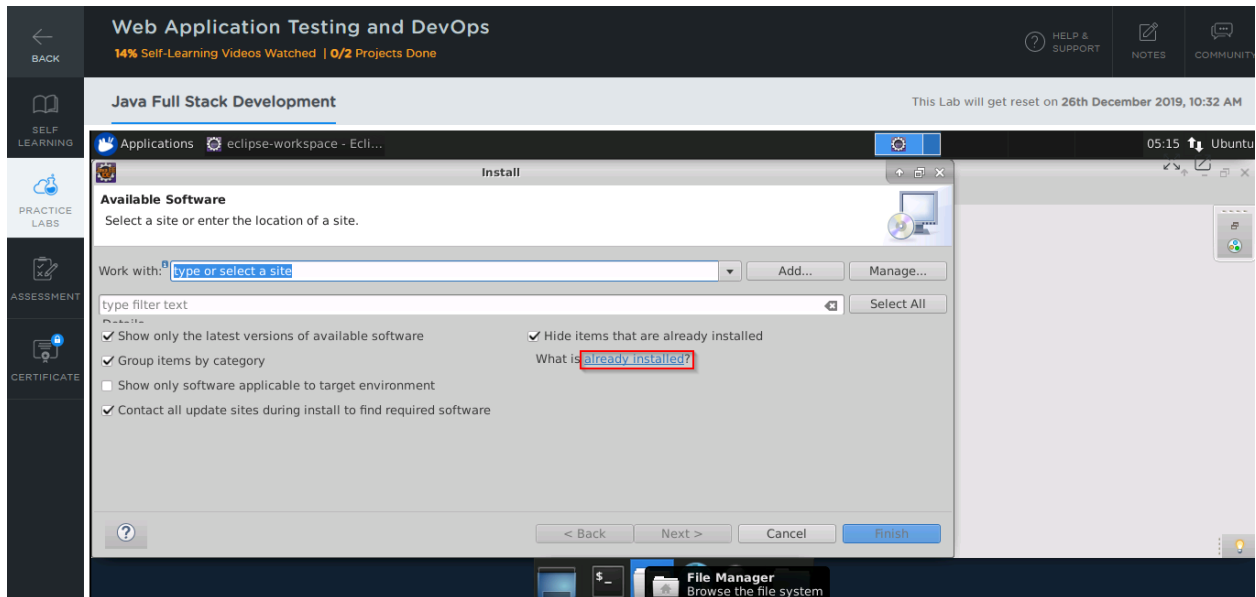
```
sudo npm install selenium-standalone@latest -g
```

TestNG:

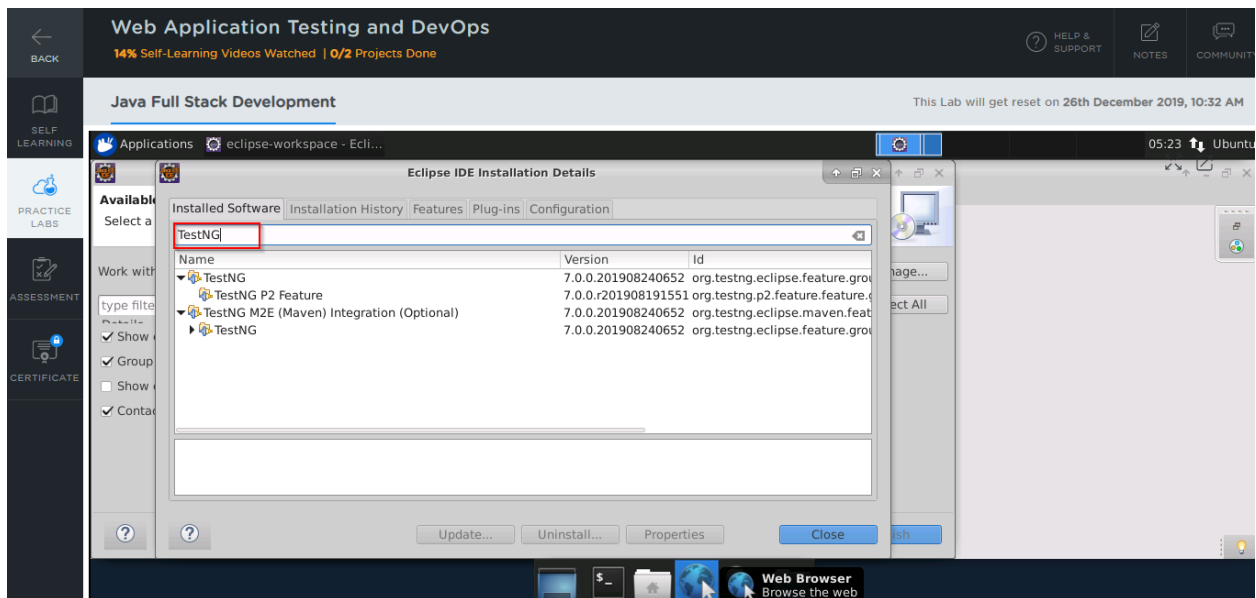
- TestNG is installed as an Eclipse plugin in your practice lab
- To verify the installation:
 - Open the Eclipse environment from your desktop
 - Click the **Help** tab and select **Install New Software**



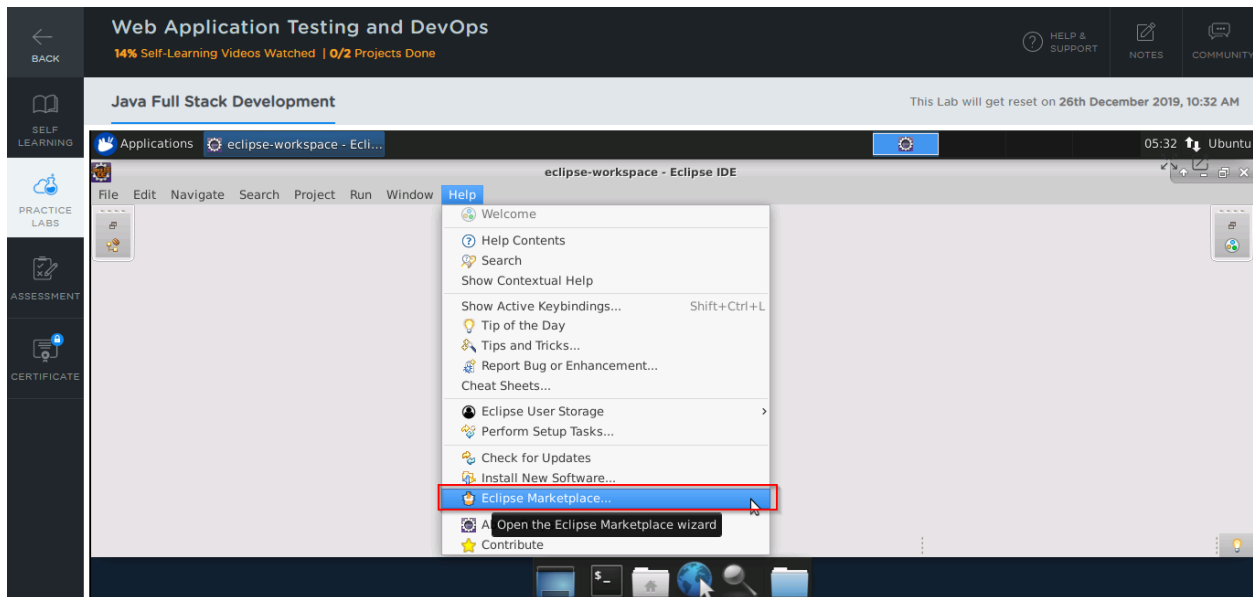
3. In the next window, click on **Already Installed**



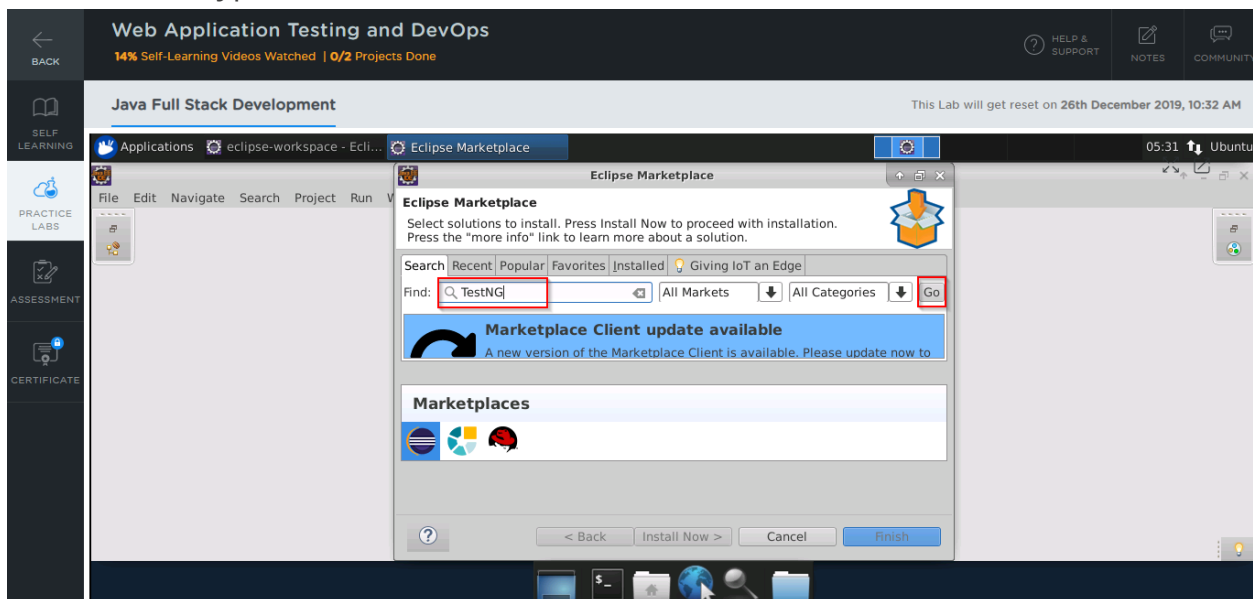
4. In the **filter text** field, type **TestNG**



- In case TestNG is not installed in your practice lab, you can install it following these steps:
 1. Open the Eclipse environment from your desktop, navigate to the **Help** tab, and click on **Eclipse Marketplace**



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



3. In the next window, you will see the TestNG tool

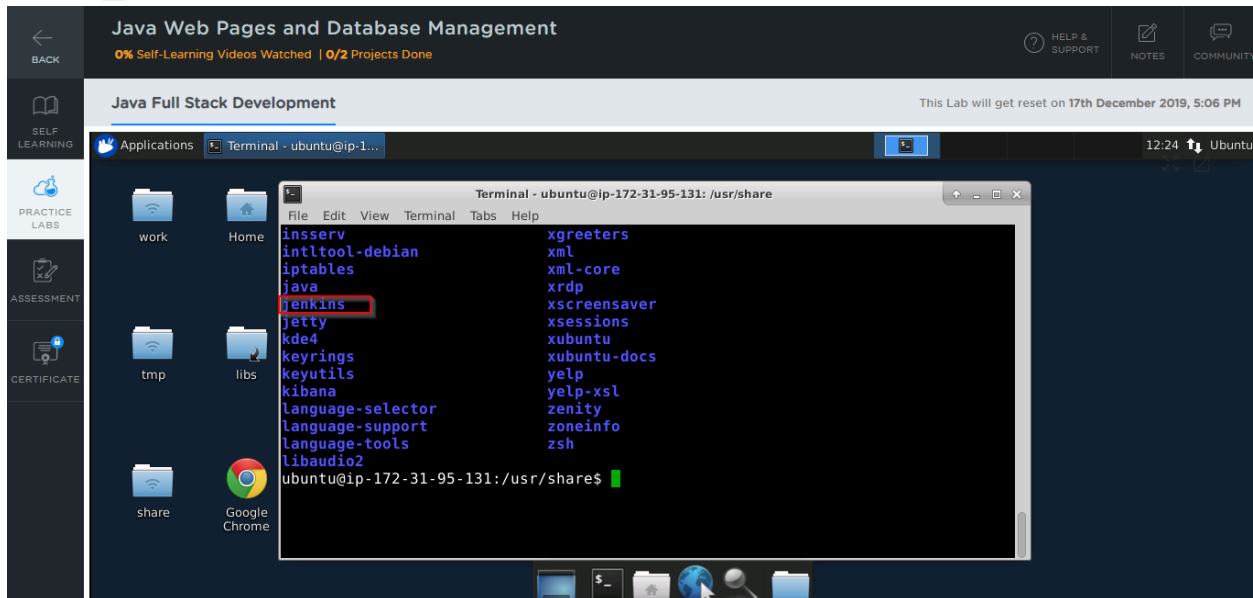
4. Click on the **Install** button to start the installation

Jenkins:

- Jenkins is already installed in your practice lab

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

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

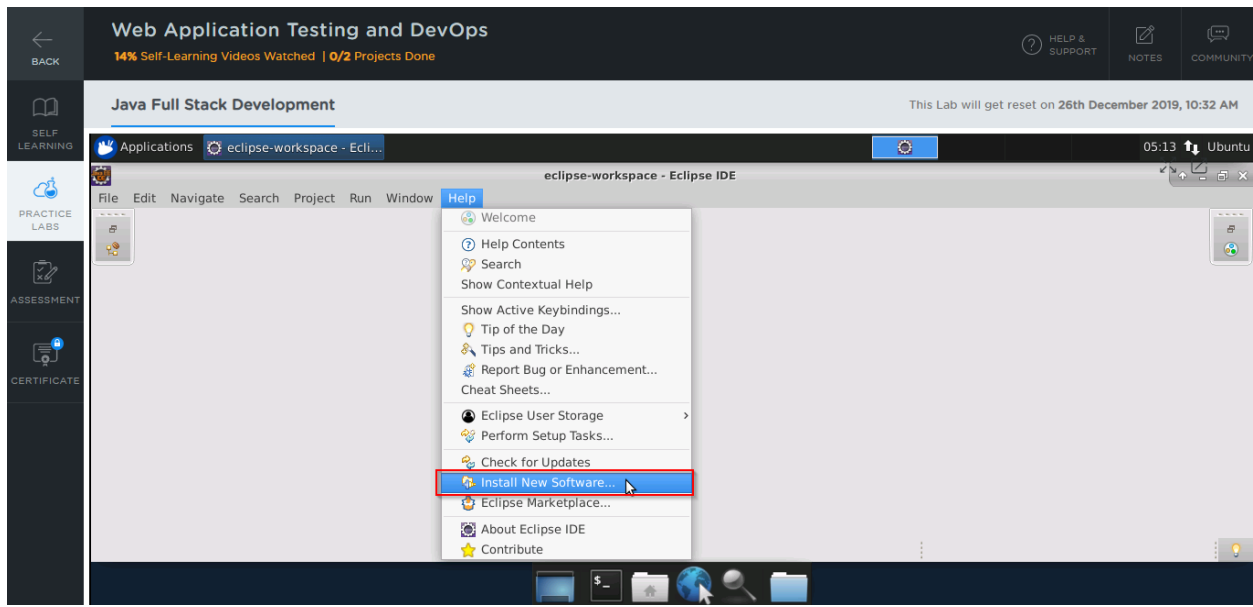


- In case Jenkins is not installed in your practice lab, you can install it using the commands:

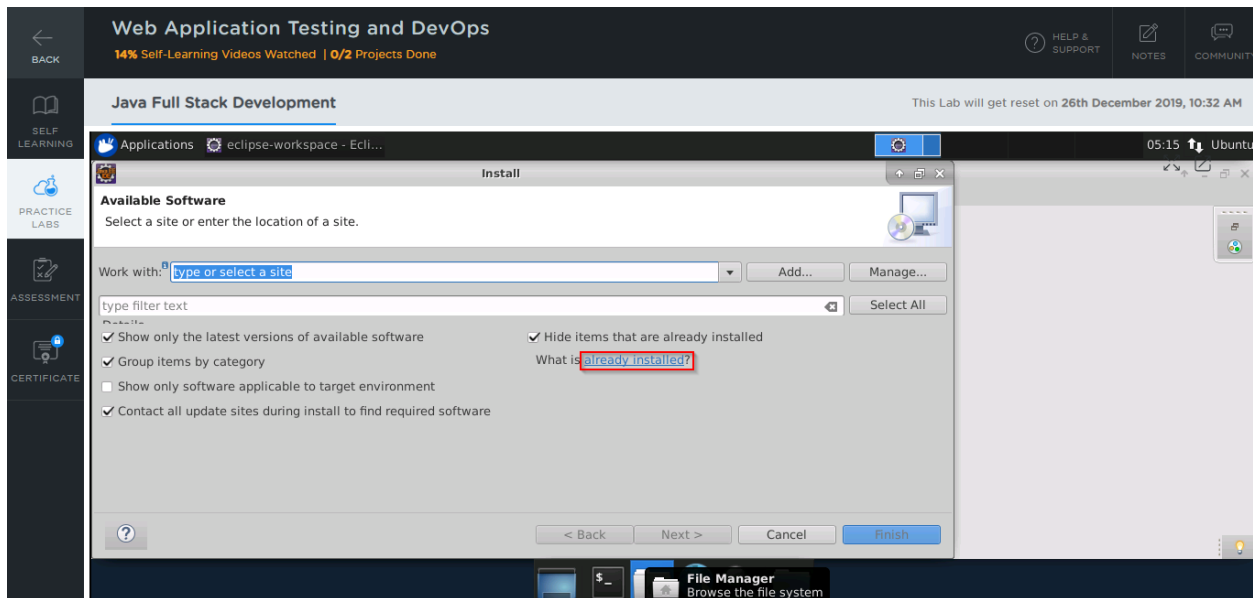
```
sudo apt update  
sudo apt install jenkins
```

Cucumber:

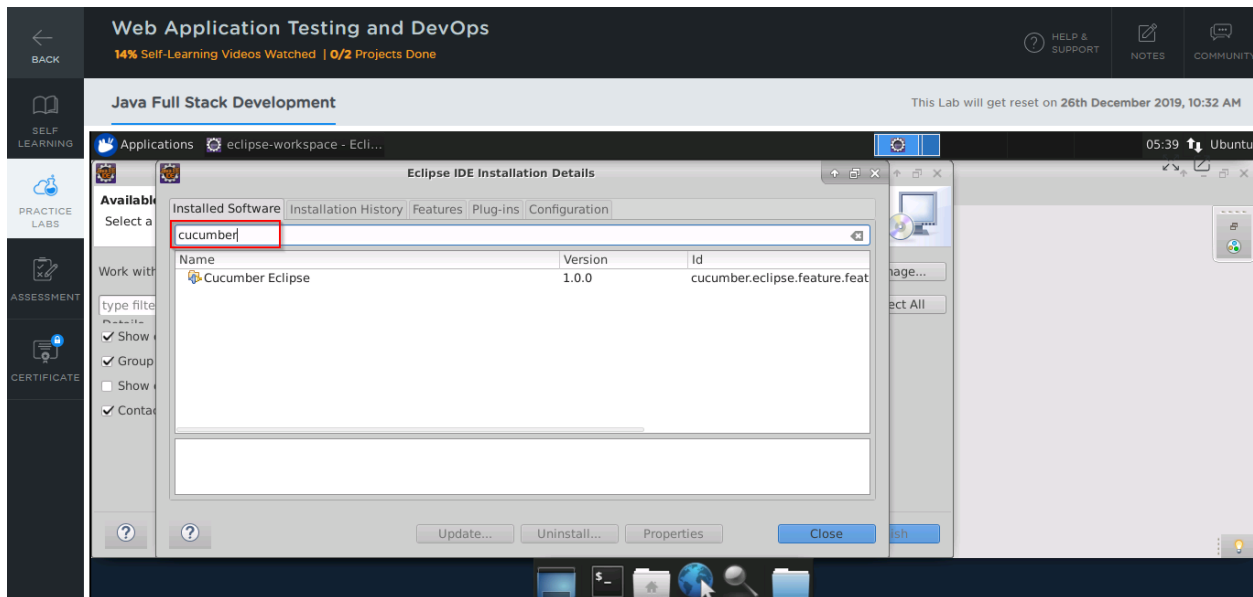
- Cucumber is installed as an Eclipse plugin in your practice lab
- To verify the installation:
 1. Open the Eclipse environment from your desktop
 2. Click the **Help** tab and select **Install New Software**



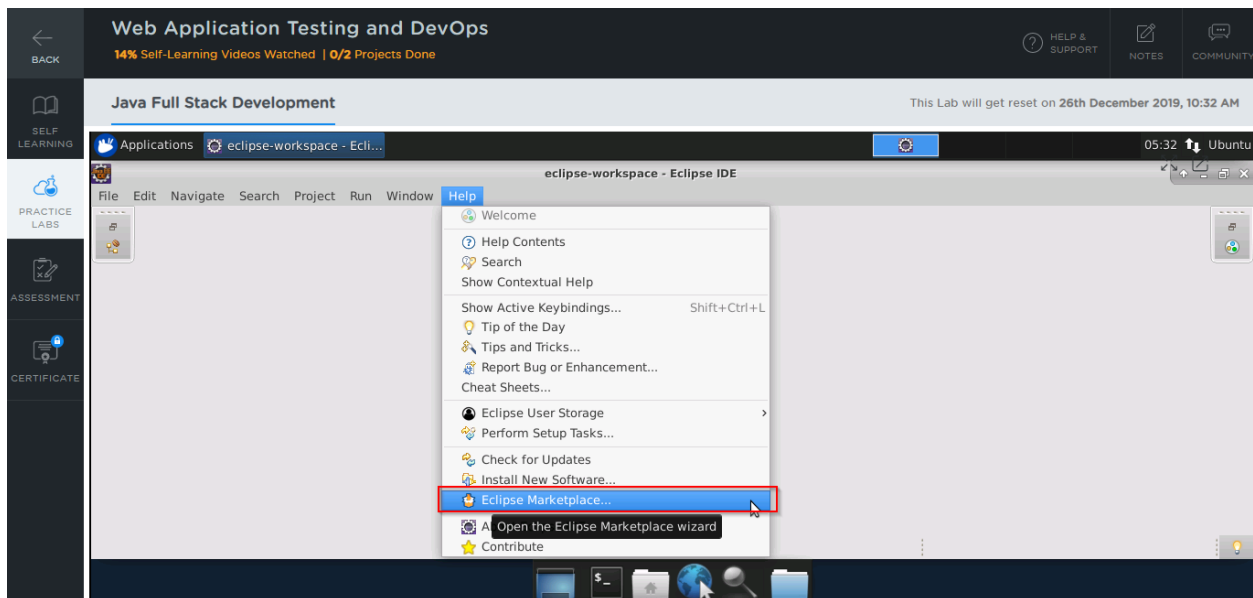
3. In the next window, click on **Already Installed**



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



- In case Cucumber is not installed in your practice lab, you can install it following these steps:
 1. Open the Eclipse environment from your desktop, navigate to the **Help** tab, and click on **Eclipse Marketplace**

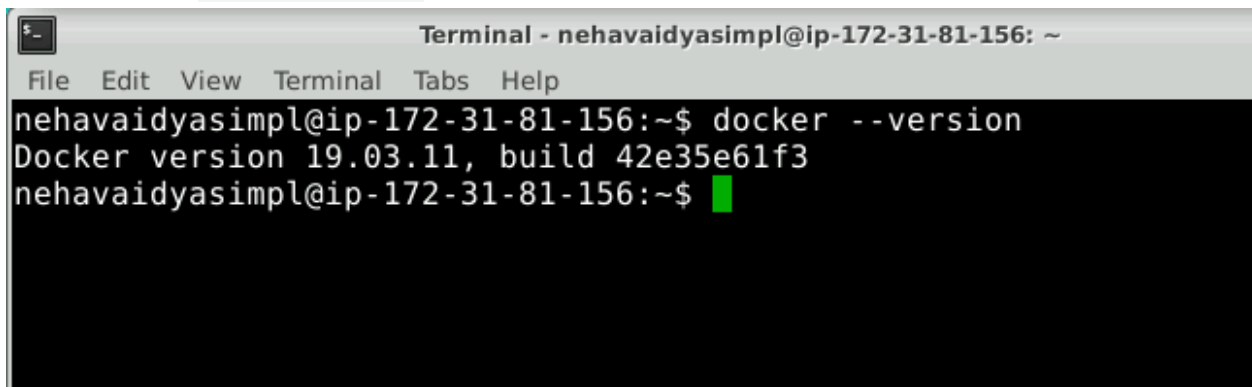


2. Type **Cucumber** in the **Find** field and click on **Go**
3. In the next window, you will see the Cucumber tool
4. Click on the **Install** button it to start the installation

Docker:

- Docker version 19.03.11 is already installed in your practice lab
- To verify the installation:
 1. Open the command-line interface
 2. Type the command:

```
docker --version
```

A terminal window titled "Terminal - nehavaidyasimpl@ip-172-31-81-156: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows the command "docker --version" being executed, resulting in the output "Docker version 19.03.11, build 42e35e61f3". The prompt "nehavaidyasimpl@ip-172-31-81-156:~\$" is visible at the bottom with a green cursor.

```
nehavaidyasimpl@ip-172-31-81-156:~$ docker --version
Docker version 19.03.11, build 42e35e61f3
nehavaidyasimpl@ip-172-31-81-156:~$
```

- In case Docker is not installed in your practice lab, you can install it following these steps:
 1. Set up the Docker repository using the following commands:

```
sudo apt-get update
```

```
sudo apt-get install apt-transport-https ca-certificates curl software-properties-common
```

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

```
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
```

2. Install Docker using the command:

```
sudo apt-get install docker-ce
```

Kubernetes:

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

kubeadm version

```
nehavaidyasimpl@ip-172-31-81-156:~$ docker --version
Docker version 19.03.11, build 42e35e61f3
nehavaidyasimpl@ip-172-31-81-156:~$ kubeadm version
kubeadm version: &version.Info{Major:"1", Minor:"18", GitVersion:"v1.18.3", GitCommit:"2e7996e3e2712684bc73f0dec0200d64eec7fe40", GitTreeState:"clean", BuildDate:"2020-05-20T12:49:29Z", GoVersion:"go1.13.9", Compiler:"gc", Platform:"linux/amd64"}
```

- In case Kubernetes is not installed in your practice lab, you can install it following these steps:
 1. Set up the repository using the following commands:

curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add -

echo 'deb http://apt.kubernetes.io/ kubernetes-xenial main' | sudo tee /etc/apt/sources.list.d/kubernetes.list

2. Install Kubernetes using the command:

sudo apt-get install kubelet kubeadm kubectl -y