

Classroom & Student Machine Setup Guide

Course	TT2100H - Java 11 Programming for Object Oriented (OO) Experienced Developers
Tools	Java 8, Eclipse (2020-03) for Java EE Developers
Issue Date	2020/04/03
Customer	
Class Dates(s)	
Internet Access	<ul style="list-style-type: none">Internet access for the Instructor and Students is recommended and useful to have for this course, but not required. See below for details.

Thank you for choosing our team as your education partner for your upcoming training engagement.

Course Format: Your course is an instructor-led, onsite training event with hands-on programming labs for students to complete throughout the course. Student machines are required. Below, please find the system requirements and software/lab code download links with installation instructions needed for the course.

Setup Requirements: Please ensure all machines have been fully installed by the facility set up team or students, whichever applies, at least three business days prior to the course start date so our team has ample time to provide assistance addressing any issues as needed. Please note that the student labs and course materials have been tested and verified to support the environment and tools listed in this document. We cannot guarantee proper lab function if the student chooses to use tools that differ from the requirements listed in this guide.

General Environment Info for Internet and Student Machine Access: Our set up team will follow up with you to review the items below in order to advise the instructor of additional onsite requirements or process for accessing the internet and distributing course files or other items.

Internet access

Please review the internet access requirements listed below for this course. If internet access is being provided by your facility, we will need to receive in advance of the class start date:

- Guest network access ID or internet access process for the trainer to get online
- Any student internet access information the trainer needs to distribute to the attendees if necessary
- An onsite support contact for trainer to get support for any access issues for the Trainer or Students

Student Machine Installation Rights / Additional Class Files

- We generally require that all software listed in this document is completely installed and verified prior to the course start date, but in some cases the instructor may bring the lab code and solution files to class, or ebook PDFs or other documents to distribute at class time. **Please advise if this is allowed, or not, so we can advise the instructor on your process or student machine capabilities**
- If allowed, trainers generally provide these additional files through web access or USB distribution
- Please advise if students are limited from receiving or installing such files or other items at class time, or if their student machines admin rights are limited in any way.

SUPPORT NOTE: Any links not working? Please note that links to software listed in this guide, as well as installation instructions, are regularly tested for accuracy, but may change or become inactive without notice at the discretion of the vendor. Should you find any broken or inactive links in this document, please contact Support@triveratech.com for prompt assistance.

Any Questions? Please contact our classroom support team at Support@triveratech.com or call 208-589-5659 if you have questions about these requirements or require assistance.

HARDWARE REQUIREMENT SUMMARY

Hardware

Student machines should have at least 10G free disk space

Internet Connectivity

Recommended : Internet connectivity is **recommended but not required** for this course for the Instructor to share demos and information, and for students to review online documentation or other items. However, it is not required to complete the hands-on labs. Please advise if you intend to provide internet access or not so we may advise the

instructor. Our set up team will follow up to collect detail on instructor guest network access.

RAM

- **8 GB RAM or more** for optimum lab performance.
- If your organization intends to create an image from the required items listed below, please note that virtualization software such as VMWare, VirtualPC, or 64-bit, requires at least **8GB RAM** to ensure proper speed and performance.

O/S

Ubuntu, Windows 8.0/8.1 or Windows 10

ADDITIONAL CLASSROOM ITEMS

Projector

Please supply the following items for the classroom for trainer use and presentation. Please advise asap if these are not available for some reason:

- Please have a modern capability **PC-Ready projector** for the trainer to connect to, and wall screen area, onsite for the Instructor Presentation.
- **NOTE:** If you have a VGA cable only projector please advise asap, as our machines typically support HDMI.

Drawing Area

- Please supply a **whiteboard and dry erase markers** (preferred) **or easel pad and markers** for discussions and diagrams

SOFTWARE REQUIREMENT SUMMARY

Please see the overview at the end of this document for download links and detailed installation, verification and removal steps for these software requirements:

- **Foxit Reader**
- **A zip utility such as 7Zip**
- **Web Browsers: Firefox, Google Chrome, Microsoft Internet Explorer or Microsoft Edge**
- **Student Lab Files – will be provided by our technical team**
- **Oracle Java 8 Dev. Kit (JDK) Standard Edition**
- **Eclipse (2020-03) for Java EE Developers**

Foxit Reader

Download Location:

<https://www.foxitsoftware.com/pdf-reader/>

NOTE: The instructor will use PDF files to display the course materials to the class. Also, the students should have the ability to view relevant PDF files, e.g., Java specification documents.

Verification Steps:

- Run the software from the Windows Start Menu and ensure the software starts up
- Shutdown the software once you have checked it

Removal Steps:

- Uninstall this software from the Windows Control Panel using the Add/Remove utility.

7Zip

Download Location:

<https://www.7-zip.org/download.html>

About:

7Zip is a free file compression and decompression software suite.

Other ZIP-compatible utilities can be used instead (including WinZip, 7Zip, WinRAR, etc.)

NOTE: Please do not rely on the zip file facilities that come standard with Windows. We have found them to be

unreliable in terms of interoperability with other systems and in the handling of large files.

Installation Steps:

Run the 7Zip installation utility, accepting defaults.

Verification Steps:

- Run the software from the Windows Start Menu and ensure the software starts up.
- Shutdown the software once you have checked it.

Removal Steps:

- Uninstall this software from the Windows Control Panel using the Add/Remove utility
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Web Browsers

Download Location:

<https://www.mozilla.org/en-US/firefox/>
<https://www.google.com/intl/en/chrome/browser/>
<https://support.microsoft.com/en-us/help/17621/internet-explorer-downloads>
<https://www.microsoft.com/en-us/windows/microsoft-edge>

About:

Recent editions of one of the Web browsers listed below.

- Firefox: <http://www.mozilla.com/firefox/>
- Google Chrome: <https://www.google.com/intl/en/chrome/browser/>
- Microsoft Internet Explorer: <http://windows.microsoft.com/en-us/internet-explorer/download-ie>
- Microsoft Edge (Windows 10): <https://www.microsoft.com/en-us/windows/microsoft-edge>

NOTE: Installation requires Administrator privileges on Windows

Verification Steps:

- Run the software from the Windows Start Menu and ensure the software starts up.
 - Shutdown the software once you have checked it.
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Student Lab Files

About:

We will provide the student lab files via a download link during the week prior to the class start date, or the trainer will bring the labs to class to distribute on the first day.

If you need the lab files earlier, please let us know as soon as possible.

Installation Steps:

- The student lab files will be in a ZIP archive file. The lab files will need to be extracted onto each student machine.

Removal Steps:

- Delete the StudentWork folder as well as any additional folders (such as workspace and database folders) that were created during the course.
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Oracle Java 8 Dev. Kit (JDK) Standard Edition 8.x

Download Instructions:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
<https://www.oracle.com/java/technologies/javase-downloads.html>

Download Instructions:

- Scroll down to **Java SE 8 Update X** (where **X** will be an update value that changes every few weeks/months)
- Click on the link that reads **JDK Download**
- On the next page read the license agreements.
- Accept the license agreement and click on the download link (You will have to sign-in with a valid Oracle account before being able to download the JDK)

Installation Steps:

- Install into the default installation directory
- Include all components in the installation.
- When the installer asks about the location for the JRE
- also select the default location.
- **IMPORTANT:** Modify the system environment variable named **PATH** to include this bin folder of the JDK installation **C:\Program Files\Java\jdk1.8.x\bin**. This variable can be accessed via the **Control Panel - > System and Security - > System - > Advanced System Settings - > Environment Variables**
- Create another Environment variable called **JAVA_HOME** that points to the newly installed jdk (e.g., **C:\Program Files\Java\jdk1.8.x**)

Verification Steps:

- Open a command window and enter "java -version". You should see an indication that Java started and the version matches the one that you installed.
- From the same command window, enter "javac". You should see an indication that the Java compiler started. If "javac" is not recognized, the system **PATH** has not been correctly updated. You will need to open a new command window to have the updated Path work.
- From the same command window, enter "set". Examine the list of variables that are returned, looking for the JAVA_HOME variable. The correct value should be assigned to the variable.

Removal Steps:

- Uninstall this software from the Windows Control Panel using the Add/Remove utility
- Check the system **PATH** variable to ensure that it no longer has the JDK bin folder included.
- Remove the **JAVA_HOME** Environment variable that was created during setup.

Eclipse (2020-03) for Java EE Developers

Download Instructions:

<https://www.eclipse.org/downloads/packages/release/2020-03/r>

About:

Eclipse is a Java-based application and requires a Java runtime environment (JRE) in order to run.

In order to be able to run Eclipse, **Java 8 (or newer)** needs to be installed on the system.

if you are unable to install a compatible version of Java onto your system contact our classroom support team at Support@triveratech.com

Download Instructions:

- On the download page select **Eclipse IDE for Enterprise Java Developers (includes Incubating components)**
- Select the correct version for your platform. At this point, you can select a mirror to download the zip file.
- Save the incoming zip file someplace where you can use it to install Eclipse on the various student PCs to be used for class.

Installation Steps:

Verification Steps:

- Ensure that the contents of the archive were inserted (with folder structure) into the targeted folder for extraction.
- Start Eclipse at least once before doing anything else to let it do a clean initialization. To start Eclipse, navigate to the Eclipse installation folder and double click on **eclipse.exe**
- Shutdown Eclipse when completed

Removal Steps:

- Delete the targeted extraction folder in **C:\tools** as well as any additional folders (such as workspace and database folders) that were created during the course.