Gradle Training

Setup Instructions

Thank you for enrolling in the course! The following instructions will assist you in getting prepared for the training. Please complete these instructions ahead of time, and contact virtual-training-help@gradle.com if you require assistance. Please try to log on 15 minutes before the start time to ensure you do not encounter technical issues.

JDK Install

Gradle requires a Java Development Kit (JDK) to run. Any JDK 1.7 or newer is suitable. Please see the JDK installation instructions from Oracle if you do not have a JDK installed (Windows | Mac | Linux).

After installing the JDK, please ensure you have a *JAVA_HOME* environment variable set with the location of your Java install. If you are unsure how to do this, please search Google for “how to set *JAVA_HOME* on Windows” (or Linux/Mac depending on your operating system).

Gradle Install

- Download the latest version of Gradle from https://gradle.org/gradle-download/
- Unzip the downloaded zip file
- Move the unzipped directory to where you would like to keep the Gradle installation
- This location will be referred to as *GRADLE_HOME*
- Put *GRADLE_HOME*/bin on your operating system *PATH*. For help setting the system *PATH*, please search Google for “how to set path on windows” (or Linux/Mac depending on your operating system).

Gradle Installation Verification

Once you have a JDK and Gradle installed and configured, you should be able to open a new command window and execute the command `gradle -version`. This command should yield output similar to the following (please check that the version number matches):

```
------------------------------------------------------------
Gradle 4.6
------------------------------------------------------------

Build time:   2018-02-28 13:36:36 UTC
Revision:     8fa6ce7945b640e6168488e4417f9bb96e4ab46c

Groovy:       2.4.12
Ant:          Apache Ant(TM) version 1.9.9 compiled on February 2 2017
JVM:          1.8.0_161 (Oracle Corporation 25.161-b12)
OS:           Linux 4.13.0-36-generic amd64
```

If you do not see this output, double-check that you have correctly set the *JAVA_HOME* environment variable, and have added *GRADLE_HOME*/bin to your system path.

Native Compiler Verification (*Optional*)

For Introduction to Gradle, only one lab requires a native tool chain. The other labs do not require a native tool chain, so it's feasible to complete the training without one, but you won't be able to complete the C++ lab.

For Advanced Fundamentals for C/C++ builds, all labs require a supported native compiler to be installed. Linux and GCC is preferred, but Clang and MSVC (2010, 2013) will work.

To test that your native toolchain can be seen by Gradle, go to *GRADLE_HOME*/samples/native-binaries /cpp and execute `gradle installMainExecutable`. This should eventually print **BUILD SUCCESSFUL**. Try to run the built executable (platform specific shell script under build/install/mainExecutable/).

If your build is unsuccessful, you may need to adjust your PATH environment variables. For further information on supported tool chains, please consult the Native Binaries Tool Chain section of the User Guide.

Web Proxy Configuration

As a final test, go to *GRADLE_HOME*/samples/java/quickstart and execute `gradle build`. This should download a few dependencies from the Maven Central repository and eventually print BUILD SUCCESSFUL. If you are behind a web proxy and downloading fails, define a *GRADLE_OPTS* environment variable and set it to the following value:

```
-Dhttp.proxyHost=<host> -Dhttp.proxyPort=<port> -Dhttps.proxyHost=<host> -Dhttps.proxyPort=
```

For further proxy configuration options, please consult the Gradle User Guide.

The End

Thank you for following these instructions. We are looking forward to meeting you in class!

Your Gradle Inc. Instructors