What is gradle?

* It is a build automation tool with an elegant and extensible declarative build language
* Gradle is a widely used and mature tool – has a strong developer ecosystem
* It is the most popular build system for the JVM. It has a rich community plugin ecosystem.
* Gradle can automate many build scenarios using custom build logic
* Gradle has a high level build language that makes it easy to write build logic
* Build Scan – provides information about your builds.
* Supported languages – android , java, Kotlin, groovy, scala
* Compatible IDEs – intellij
* Gradle can be invoked via the command line as well.

Gradle installation

If there is an existing gradle project that you want to run, then gradle actually does not need to be installed on the machine, if the build uses the gradle wrapper.

If the project has gradlew or gradlew.bat files, then don’t need to install gradle.

How to check if gradle is installed in the machine

Run gradle -v in your terminal. Currently, this is what is returned.

A screenshot of a computer program

Description automatically generated

Prerequisites for installing gradle:-

Requires java jdk version 8 or higher to run.

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Gradle uses the jdk it finds in your path: in windows this is probably JAVA\_HOME

Lets look at environment variables

Changed to java 1.8.

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Actually, got to change it in the path.

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Now, we try the gradle -v again

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Gradle is installed!

Gradle supports groovy as the main build languages.

Windows installation steps – just in case:

1. Download the gradle distribution – bin file.
2. Unpack the distribution into C:\Gradle. Which means it will look like C:\Gradle\gradle-8.12
3. In system variables and path, add entry C:\Gradle\gradle-8.12\bin

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This is good and all, but now I want to upgrade my gradle installation to 8.12

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This is in the downloads.

Now, create C:\gradle and put the contents of gradle-8.12-bin.zip into the C:\Gradle folder

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Now, need to change the path variable

Changed path to C:\Gradle\gradle-8.12\bin

Now, verifying the installation again.

Open a new command prompt

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Gradle version 8.12 is successfully installed onto this computer!