

Gradle TestNG Project

Project setup for Gradle (Another Build Management tool like Maven)

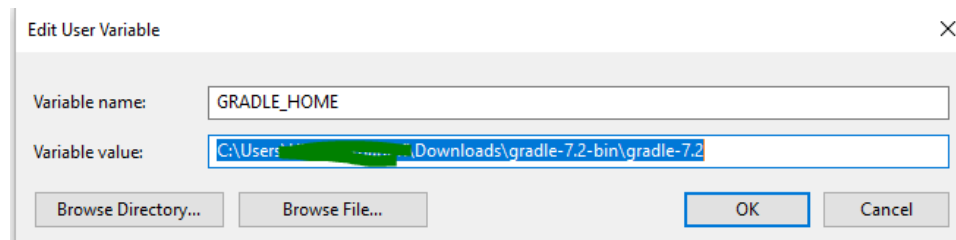
General Setup

1. Download Gradle binary from website

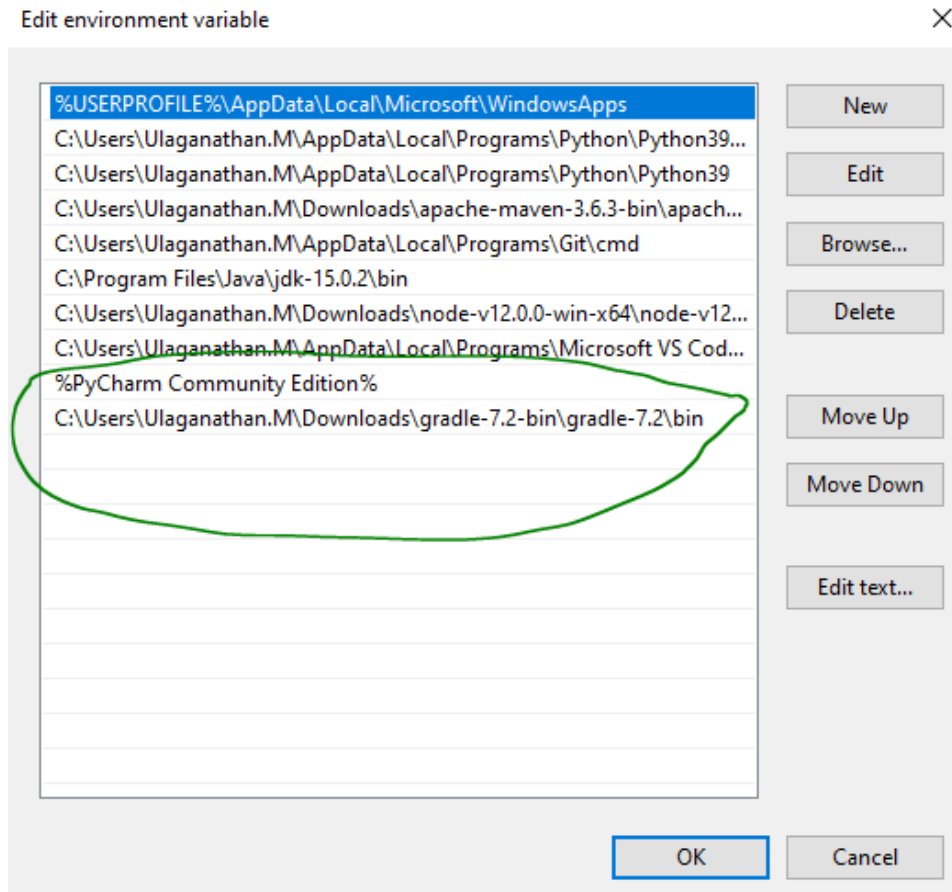
<https://gradle.org/install/>

2. Unzip the downloaded folder
3. Set below environment variables

a. Gradle Home



b. Path



4. Verify Gradle version in command prompt
 - a. Gradle -version

```
C:\Users\Ulaganathan.M>gradle -version

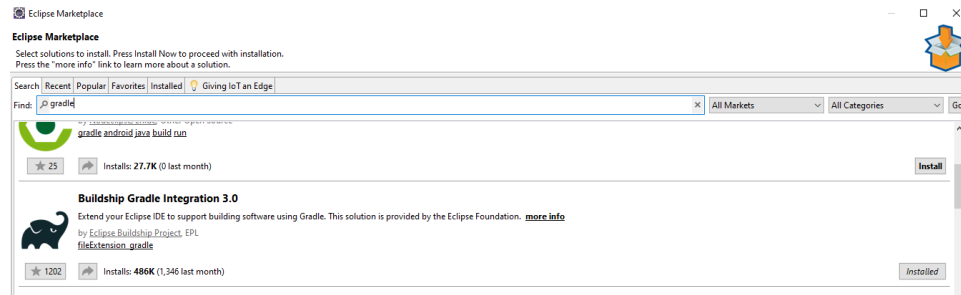
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Gradle 7.2
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Build time:   2021-08-17 09:59:03 UTC
Revision:     a773786b58bb28710e3dc96c4d1a7063628952ad

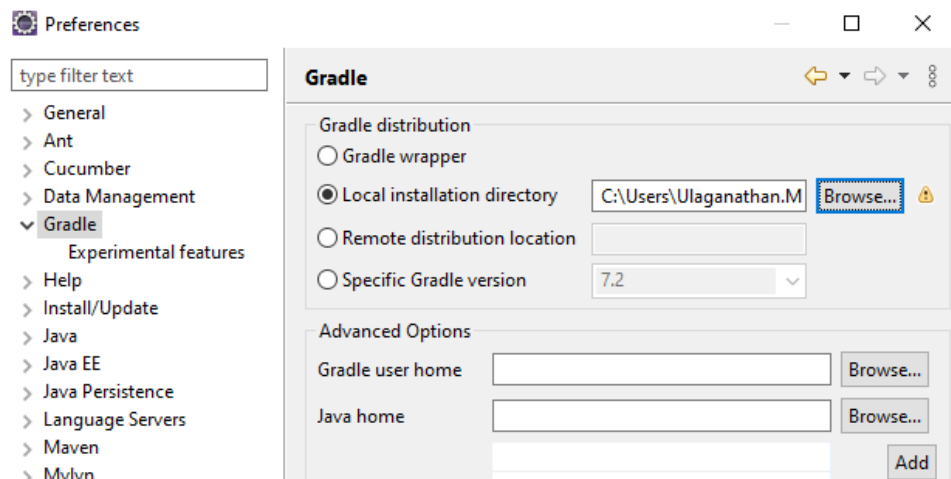
Kotlin:       1.5.21
Groovy:        3.0.8
Ant:           Apache Ant(TM) version 1.10.9 compiled on September 27 2020
JVM:          15.0.2 (Oracle Corporation 15.0.2+7-27)
OS:            Windows 10 10.0 amd64
```

Setup in eclipse

1. Install Gradle eclipse plugin in market place

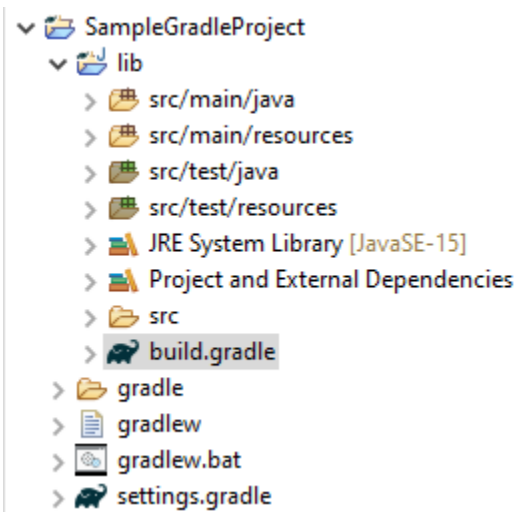
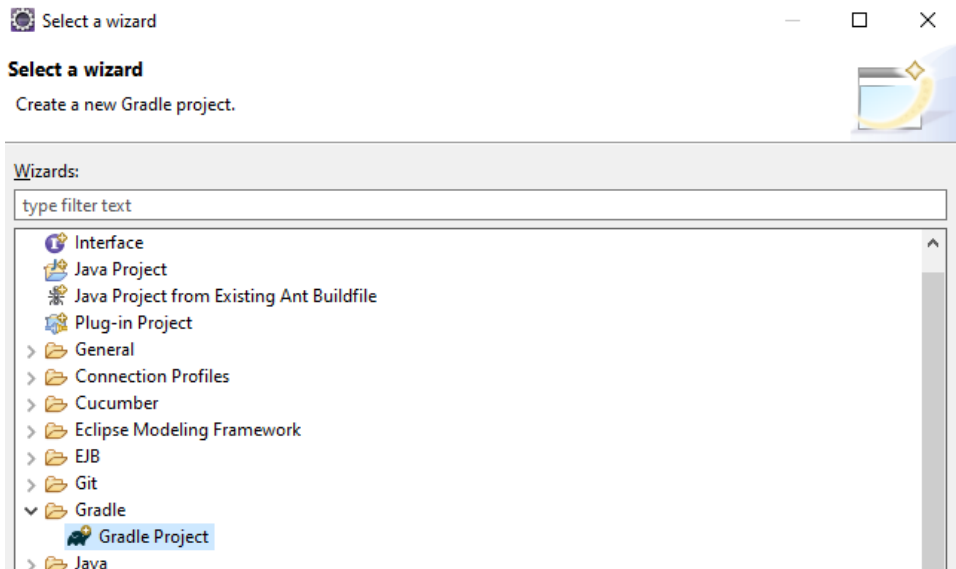


2. Navigate Window -> Preferences -> Gradle -> Select the installed Gradle version or installation path



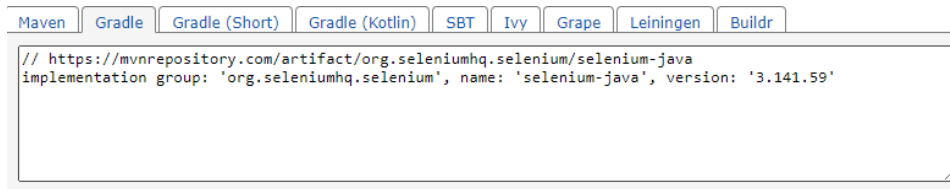
Create New Project

File -> New -> Others -> Select Gradle Project -> Create the new project



Add dependencies for Gradle project

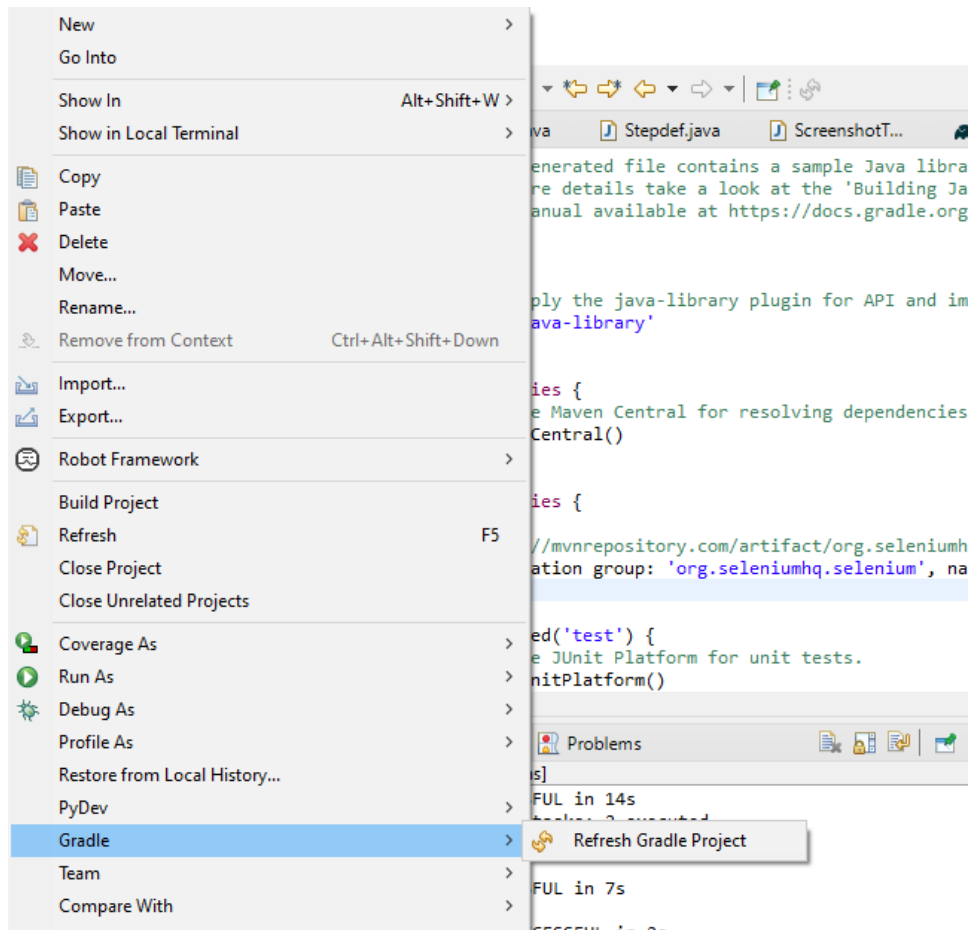
Copy the testNG and Gradle Gradle Dependency from maven repo website (<https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java/3.141.59>)



Open 'Build.gradle' file in your project and paste it under dependencies

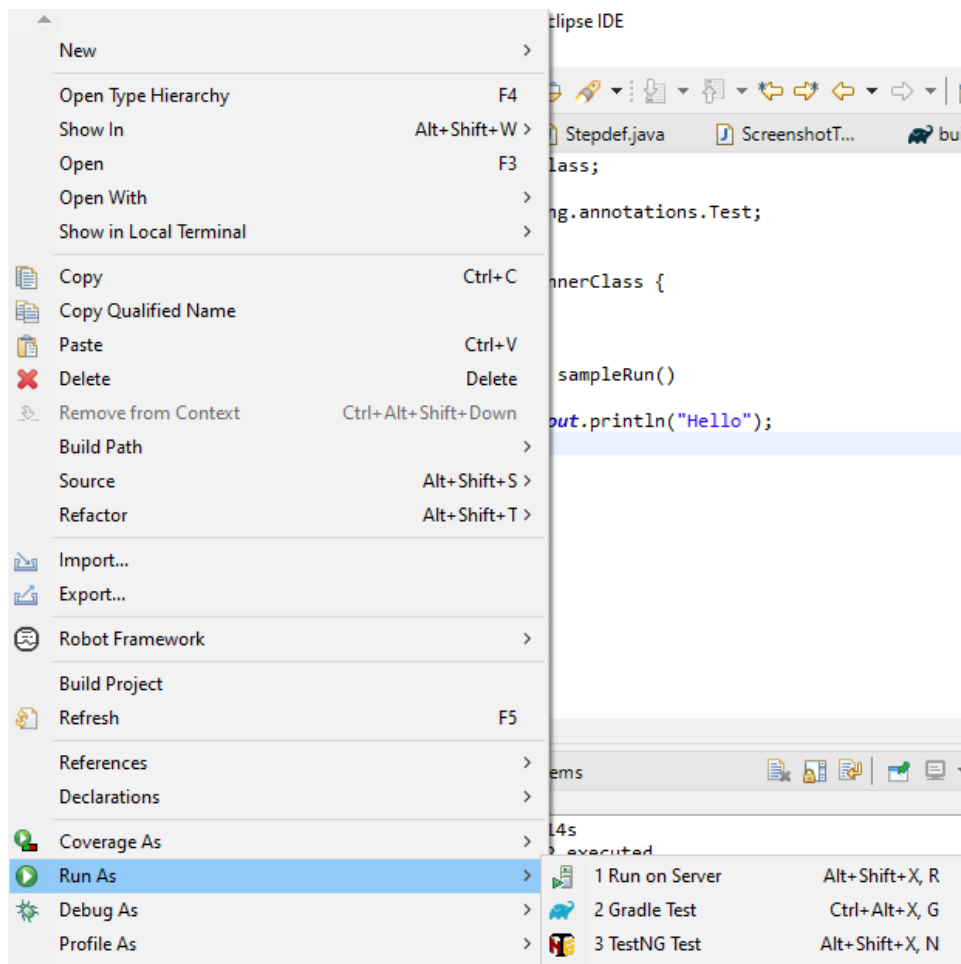
```
1 * This generated file contains a sample Java library project to get you started.
2 * For more details take a look at the 'Building Java & JVM projects' chapter in the Gradle
3 * User Manual available at https://docs.gradle.org/7.2/userguide/building_java_projects.html
4 */
5
6 plugins {
7     // Apply the java-library plugin for API and implementation separation.
8     id 'java-library'
9 }
10
11 repositories {
12     // Use Maven Central for resolving dependencies.
13     mavenCentral()
14 }
15
16 dependencies {
17     // https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java
18     implementation group: 'org.seleniumhq.selenium', name: 'selenium-java', version: '3.141.59'
19 }
```

After saving dependencies Right click Project --> Gradle -> Refresh Gradle Project for updating libraries



How to run TestNG Project

Right click TestNG runner class - Run As -> Gradle Test



If you want to run in the Command Prompt

- Create test section in build.gradle and add below section with testng xml file

```

// https://mvnrepository.com/artifact/org.testng/testng
testImplementation group: 'org.testng', name: 'testng', version: '7.4.0'

// https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java
implementation group: 'org.seleniumhq.selenium', name: 'selenium-java', version: '3.141.59'

// https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager
implementation group: 'io.github.bonigarcia', name: 'webdrivermanager', version: '4.4.3'

}

test {
    // Use JUnit Platform for unit tests.
    useTestNG()
    {
        testLogging.showStandardStreams = true
        suites 'testng.xml'
    }
}

```

- Navigate to Project location in cmd prompt

```

D:\eclipseNewWorkspace\GradleProject>gradle clean test
Starting a Gradle Daemon, 2 incompatible and 1 stopped Daemons could not be reused, use --status for details

> Task :lib:test

Suite > Test > runnerClass.RunnerClass > sampleRun STANDARD_OUT
    Hello

BUILD SUCCESSFUL in 40s
4 actionable tasks: 4 executed

```