

**WA2621 DevOps Foundations for
Java with Git, Jenkins, and Maven**

Classroom Setup Guide

Web Age Solutions

Table of Contents

Part 1 - Minimum Hardware Requirements.....	3
Part 2 - Minimum Software Requirements.....	3
Part 3 - Software Provided.....	4
Part 4 - Instructions.....	4
Part 5 - Privileges to Users.....	6
Part 6 - Installing JDK 11.0.8 - 64 bit.....	9
Part 7 - Installing Eclipse-IDE-2020-03.....	14
Part 8 - Install Jenkins 2.387.3 LTS Windows.....	17
Part 9 - Installing Maven 3.6.3.....	26
Part 10 - Installing Git 2.26.....	27
Part 11 - Verification of Apache Tomcat 9.0.8.....	30
Part 12 - Artifactory 7.10.6.....	31
Part 13 - Installing Notepad Plus 7.5.6.....	32
Part 14 - Installing Visual Studio Code.....	33
Part 15 - Summary.....	40

Part 1 - Minimum Hardware Requirements

- 64 bits OS
- 2 cores
- 8 GB RAM
- 80 GB in the hard disk
- Internet access

Part 2 - Minimum Software Requirements

- Windows 8.1
 - Firefox latest
 - Chrome latest
 - Adobe Acrobat Reader
 - Zip extraction utility
 - JDK 11.0.8 - 64 bits *
 - Eclipse IDE-2020-03 *
 - Maven 3.6.3 *
 - Git 2.26.0 *
 - Jenkins *
 - Tomcat 9.0.8 *
 - Notepad 7.5.6 ++ *
 - Artifactory OSS 7.10.6*
- * - indicates software provided as part of the courseware.

Part 3 - Software Provided

You will receive:

- **WA2621_REL_6_0.zip**

All other software listed under Minimum Software Requirements is either commercially licensed software that you must provide or software that is freely available off the Internet.

Part 4 - Instructions

1. Login with an administrator account. NOTE. THIS COURSE REQUIRES ADMIN PRIVILEGES TO THE STUDENT ACCOUNT.

2. Makes sure the computer has internet access from the browser and the command line. If needed open the proxy.

3. Extract the ZIP file to C:

4. Review that the following folders were created:

- **C:\LabFiles**
- **C:\Software**
- **C:\Software\apache-maven-3.6.3**
- **C:\Software\apache-tomcat-9.0.8**
- **C:\Software\artifactory-oss-7.10.6**
- **C:\Software\Jenkins-2.387.3-LTS-Windows**

___5. Review that the following files were created:

- **C:\Software\Eclipse-IDE-2020-03-eclipse-inst-win64.exe**
- **C:\Software\Git-2.26.0-64-bit.exe**
- **C:\Software\jdk-11.0.8_windows-x64_bin.exe**
- **C:\Software\npp.7.5.6.Installer.exe**

___6. Install Mozilla.

___7. Install Chrome.

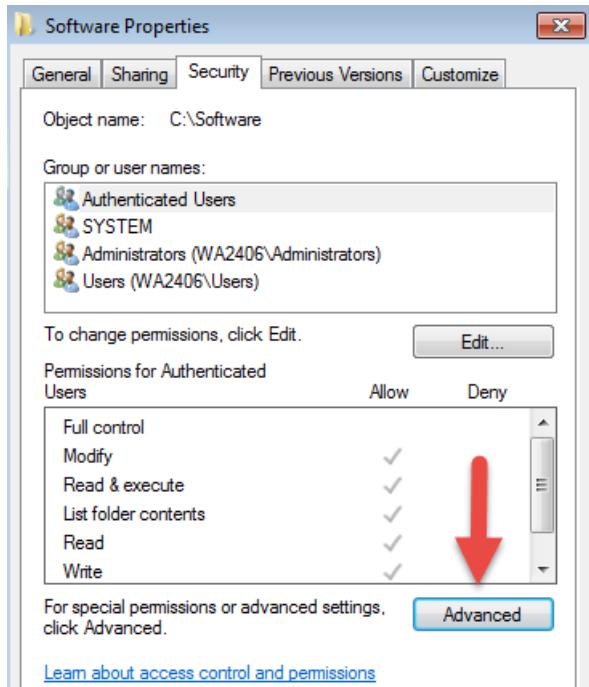
___8. Make Chrome the default browser.

Part 5 - Privileges to Users

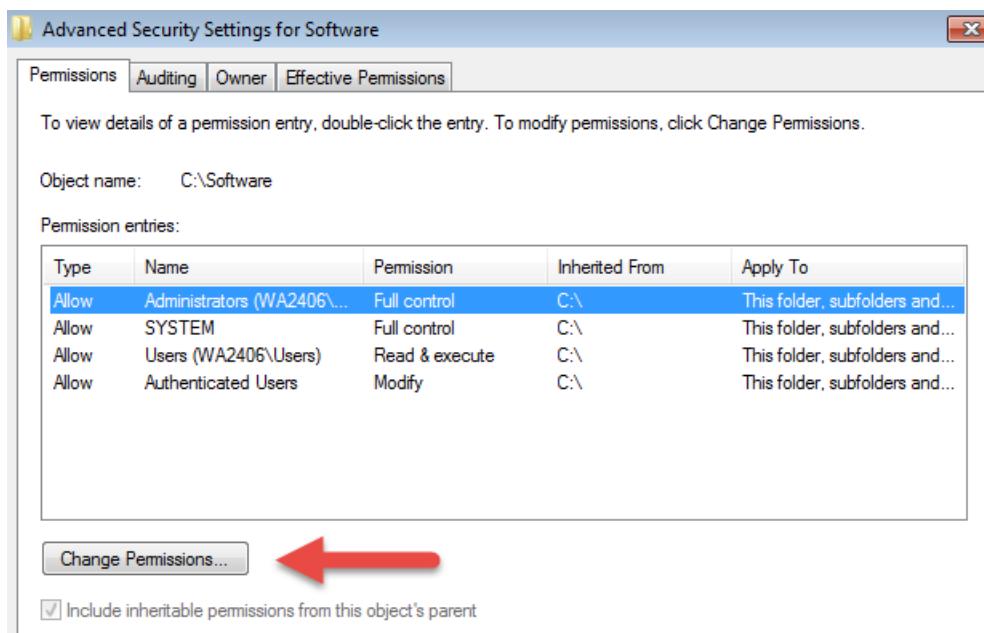
During the labs students will require privileges on several directories. They will need to be able to write, read, and modify files in these directories for the labs. Although the directions below are provided as an example, this may differ depending on Windows version. The important thing is to make sure students have full permissions on the folders below or they may not be able to accomplish some labs.

- **C:\Software**
- **C:\LabFiles**
- **C:\Workspace**

- ___ 1. Create the user that the students will use during the class.
- ___ 2. Give the student user account administrative rights. During the labs the student requires this to install software.
- ___ 3. Open Windows Explorer.
- ___ 4. Right click C:\Software and select **Properties**.
- ___ 5. Click the **Security** tab.
- ___ 6. Click **Advanced**.

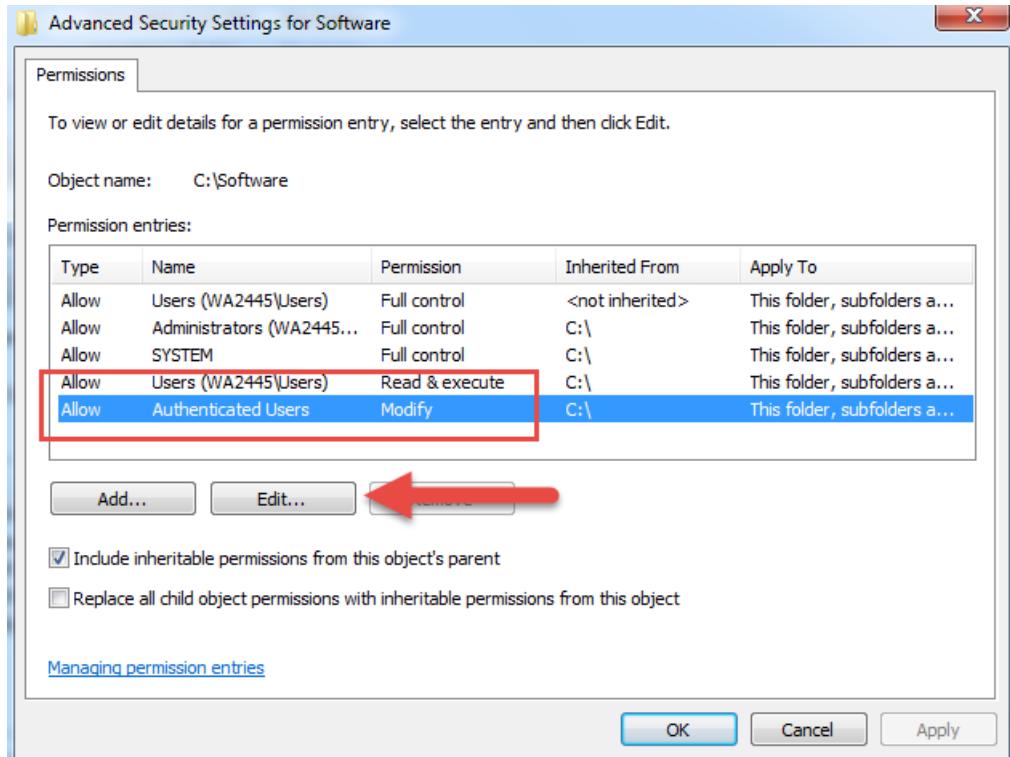


7. Click Change Permissions.

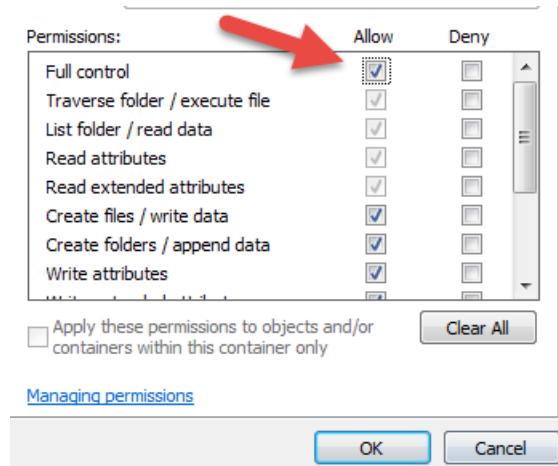


8. Select the **Authenticated Users** entry and click **Edit...**

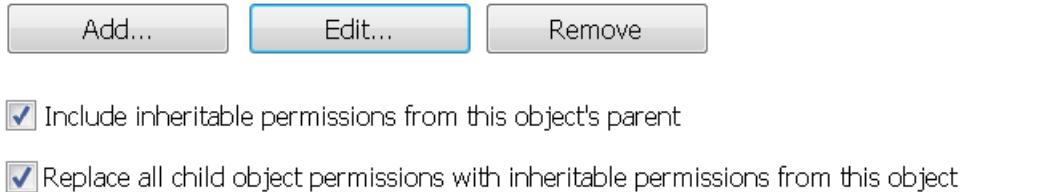
Note. If you don't have a domain in your environment the select **Users** instead **Authenticated Users**.



9. Check the Allow checkbox to the right of **Full Control** and click **OK**.



10. Select the checkbox for **Replace all child permissions with inheritable permissions from this objects** and then click **OK**.



- ___ 11. A *Windows Security* dialog will open. Click **Yes**.
- ___ 12. Wait until Windows finishes updating security.
- ___ 13. Back in the *Advanced Security Settings* dialog, click **OK**.
- ___ 14. Back in the *Properties* dialog, click **OK**.
- ___ 15. Do the same steps to the **C:\LabFiles** folder.
- ___ 16. Create a folder called **C:\Workspace** if its not already created.
- ___ 17. Do the same steps to the **C:\Workspace** folder.

Part 6 - Installing JDK 11.0.8 - 64 bit

___ 1. Make sure there is no previous Java version already installed on the system. You can check this by using the Windows “Add/Remove Programs” utility. For the best compatibility with the labs it is suggested that all previous versions of Java be uninstalled before proceeding with these instructions. If this is an issue, please contact the setup support person for the course.

___ 2. From the **C:\Software** directory run the following file:

jdk-11.0.8_windows-x64_bin.exe

Note: If using prompted by a security prompt allow the installation to continue.

- ___ 3. When the Welcome page of the setup appears, press the **Next** button.
- ___ 4. Leave the defaults for installation location and options, and press the **Next** button.

The installation will begin installing files. Wait until the software is completely installed.

___ 5. Click **Close**.

Set the Environment variables

___ 1. Open a Command Prompt. You can do this with '**Start → Programs → Accessories → Command Prompt**'.

___ 2. Use the 'cd' command to attempt to switch to the following directory. This will verify the presence of a directory used later so make sure you do not get any errors about not being able to "find the path specified".

```
cd C:\Program~1\Java\jdk-11.0.8
```

Note: The installation directory may be slightly different depending your operating system. You may need to use the following directory instead of the one listed above:

C:\Program~2\Java\jdk-11.0.8

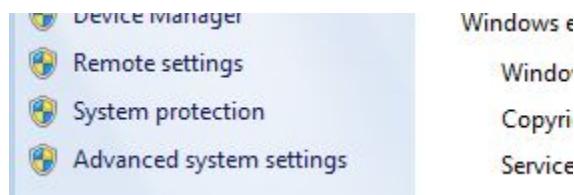
Some of the remaining steps will use the slightly different directory.

___ 3. Make sure you can reach the java folder and remember the value entered because you will use this value in the following steps.

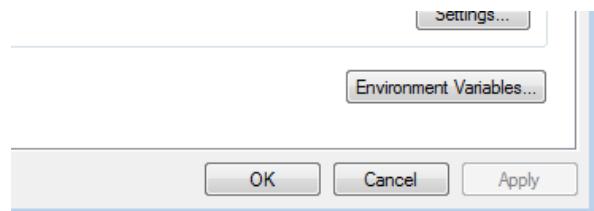
___ 4. Close the command prompt window.

___ 5. Open the system properties. The way to do this varies slightly by Windows version. The easiest way is often to open a File Explorer window, right click on the 'This PC' shortcut and select '**Properties**'

___ 6. Click on **Advanced system settings**.



___ 7. The system will display the **System Properties** dialog. Select the **Advanced** tab and click **Environment Variables**.



___ 8. Under the **System Variables** list, click the **New** button.

___ 9. As Variable name enter:

JAVA_HOME

___ 10. As Variable value enter the following. This should be the value you verified before.

C:\Progra~1\Java\jdk-11.0.8

___ 11. Click **OK** to create the variable.

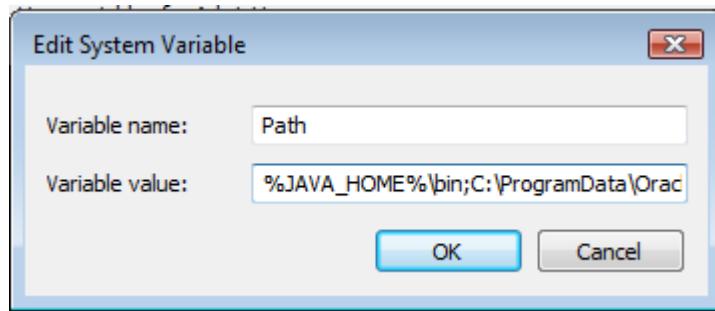


___ 12. From the *System Variables* list, select **Path** and click **Edit**.

___ 13. At the beginning of the line enter the following. Make sure to include the semi-colon on the end:

%JAVA_HOME%\bin;

___ 14. Click **OK**.



___15. Click **OK** to close the *Environment Variables* window.

___16. Click **OK** to close the *System Properties* window.

Verification

___1. Open a Windows command prompt. You can do this by selecting '**Start -> Run**', entering '**cmd**', and then pressing the **OK** button. Make sure it is a new command prompt and not one open previously.

___2. Enter the following command:

```
echo %PATH%
```

Make sure you see the Java 'bin' directory listed at the beginning.

___3. Enter the following command:

```
java -version
```

Make sure you see the response shown below.

```
C:\Users\wasadmin>java -version
java version "11.0.8" 2020-07-14 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.8+10-LTS)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.8+10-LTS, mixed mode)
```

Troubleshooting: If you get an error message means that your Environment variable was incorrectly entered, go back and fix the values.

___4. Enter the following command:

```
javac
```

Verify that you get the options to run the Java compiler:

```
C:\>javac
Usage: javac <options> <source files>
where possible options include:
  @<filename>                      Read options and filenames from file
  -Akey[=value]                       Options to pass to annotation proces
  --add-modules <module>(<module>)*
    Root modules to resolve in addition to the initial modules,
    on the module path if <module> is ALL-MODULE-PATH.
  bootclasspath <path>  bootclasspath <path>
```

___5. Enter the following command:

```
java -XshowSettings:all 2>&1 | findstr /c:"sun.arch.data.model"
```

Verify that it displays the correct value of 64. This indicates that it is 64-bit java that is installed.

___6. Close the command prompt window and any extra windows that are open.

You have completed Java installation.

Part 7 - Installing Eclipse-IDE-2020-03

1. Open C:\Software\

2. Double click in this file to install eclipse:

Eclipse-IDE-2020-03-eclipse-inst-win64.exe

3. Select **Eclipse IDE for Enterprise Java and Web Developers.**



4. Enter the **Installation folder** as C:\Software



Note that Java version may vary.

5. Click **Install**.

6. Click **Accept Now**.

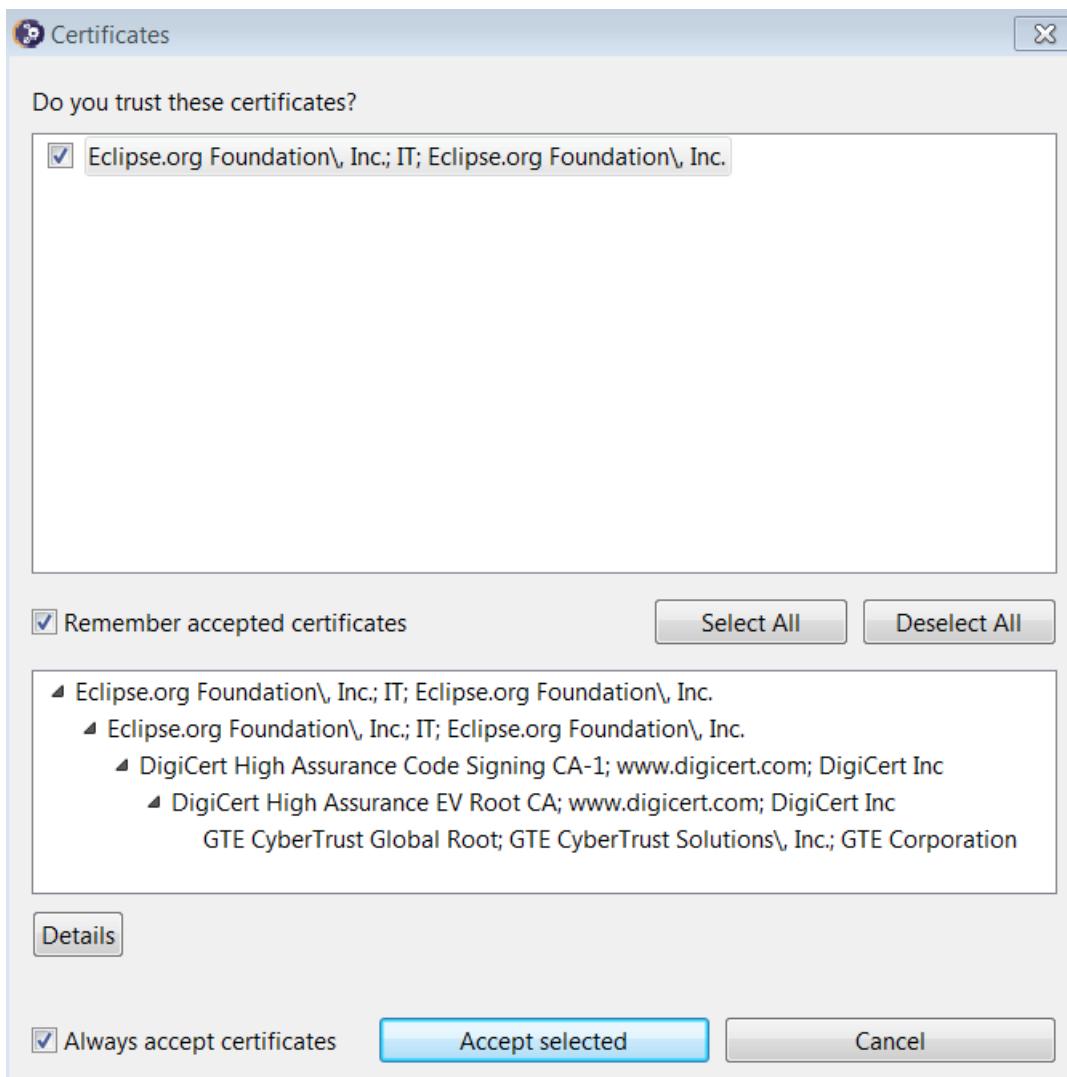
The installation will start and may take a while.

7. In the Certificates page, click **Select All**.

___ 8. You may see a pop-up message about the installation is taking longer. Just close that pop-up.

___ 9. Check the boxes for **Remember accepted certificates**.

___ 10. Check the boxes for **Always accept certificates**.



___ 11. Click **Accept selected** to continue with the installation.

___ 12. Finally it will finish installing eclipse. Click **Launch**.



Eclipse IDE for Enterprise Java Developers

Tools for developers working with Java and Web applications, including a Java IDE, tools for Web Services, JPA and Data Tools, JavaServer Pages and Faces, Mylyn, Maven and Gradle, Git, and more.

Java 1.8+ VM	C:\Progra~1\Java\jdk-11.0.8 (Current)	<input type="button" value="▼"/>	
Installation Folder	C:\Software	<input type="button" value="▼"/>	
<input checked="" type="checkbox"/> create start menu entry <input checked="" type="checkbox"/> create desktop shortcut			

Eclipse will start.



13. Change the workspace directory to **C:\Workspace** and click **Launch**.

14. Eclipse will open showing the Welcome page. Close the page by clicking on the X in the tab.

15. From the menu, select **File > Exit** to close Eclipse.

You have completed Eclipse installation.

Part 8 - Install Jenkins 2.387.3 LTS Windows

1. Open a command prompt window and ensure that the Java JDK is installed.

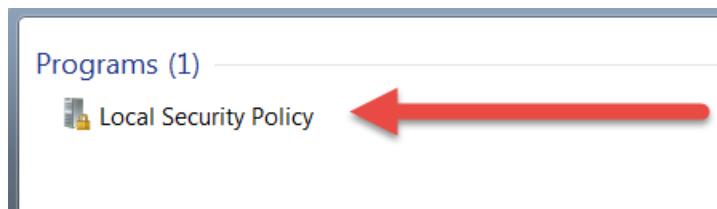
```
java -version
```

2. If you are using a computer where possibly Jenkins was used before then delete the following folders in case they exist:

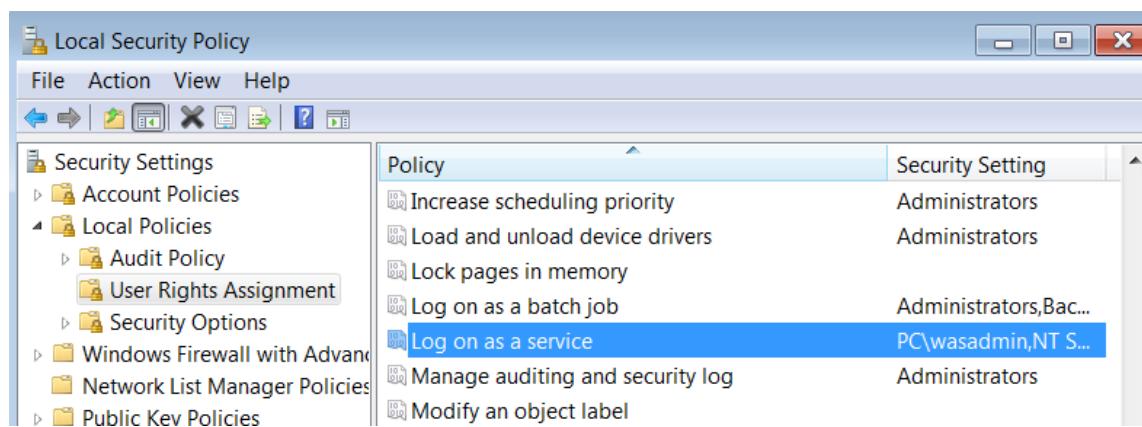
```
C:\Program Files\Jenkins  
C:\Program Files(x86)\Jenkins  
C:\Users<username>\.m2
```

3. Make Chrome your default browser and make sure the latest Chrome version is installed.

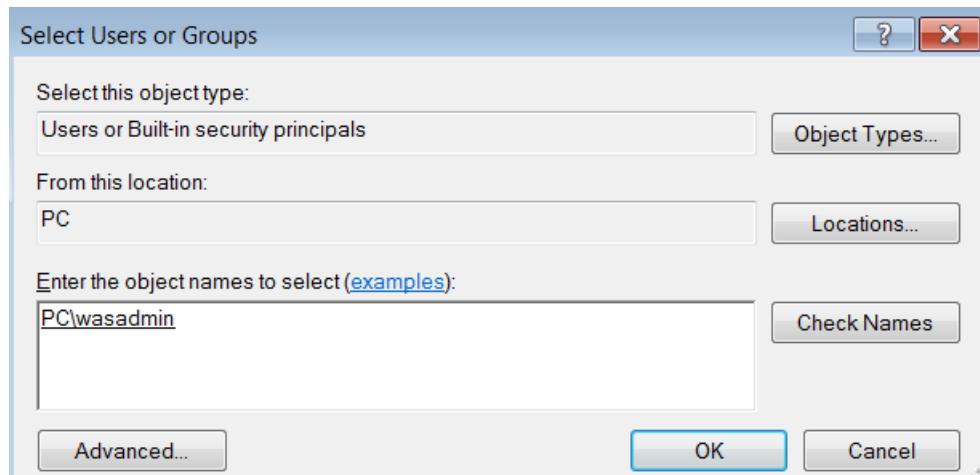
4. Before installing Jenkins you need to make sure that the user using Jenkins have the privileges to start a Service. To do that, from the star menu, start typing **Local Security** and the **Local Security Policy** will show up. Click on it. On **Windows 8/10** search for **secpol.msc** and click on it.



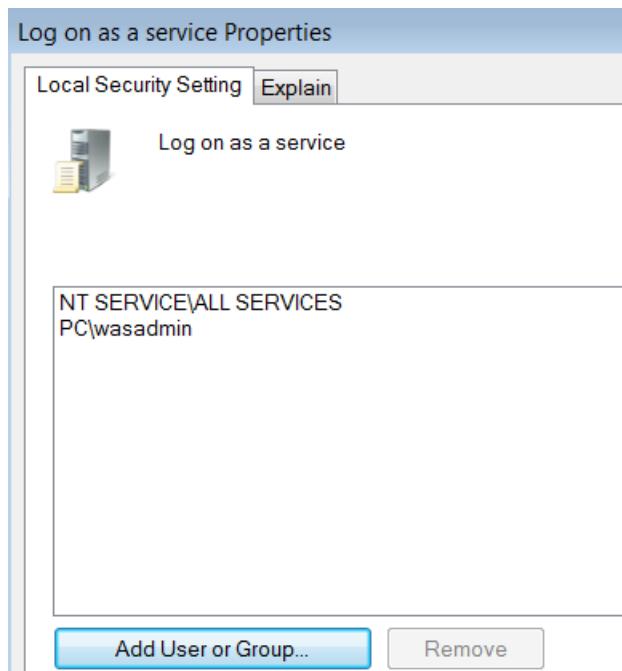
5. Expand **Local Policies > User Rights Assignment** and double click on **Log on as a service** on the right panel.



- ___ 6. Click **Add User or Group**.
- ___ 7. Enter the name of the user that the students will use to do the Labs.
- ___ 8. Click **Check Names** to verify is the correct user.
- ___ 9. Click **OK**.



- ___ 10. You will see your user listed in this example ‘wasadmin’. Click **OK**.



__ 11. In Windows Explorer, navigate to:

C:\Software\Jenkins-2.387.3-LTS-Windows

__ 12. Double-click on:

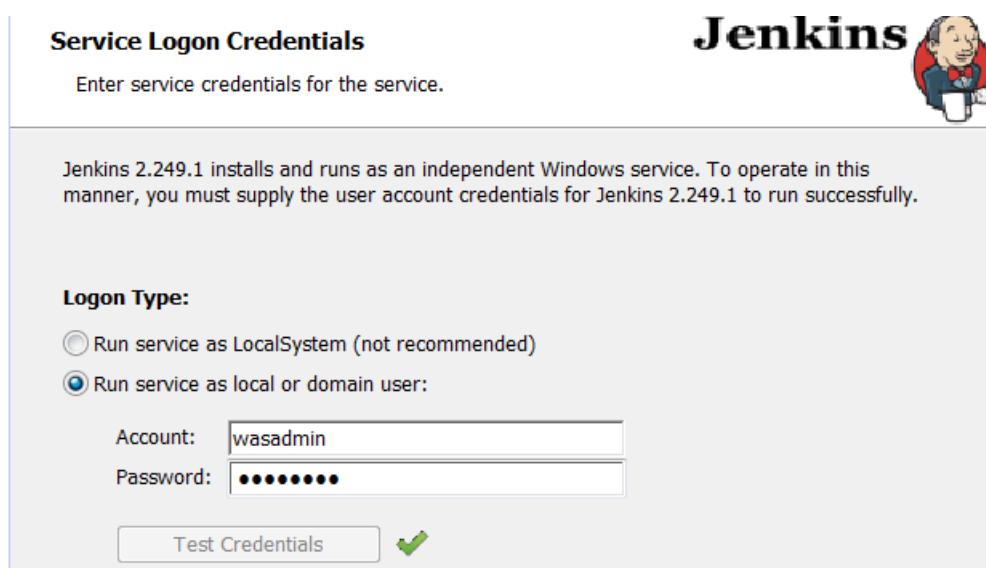
jenkins.msi

The installer will show the initial dialog.

__ 13. Click **Next**.

__ 14. On the **Destination Folder** panel, leave the defaults and click **Next**.

__ 15. Select **Run service as local or domain user** and enter your **user / password** and click **Test Credentials**. Make sure the test passes.

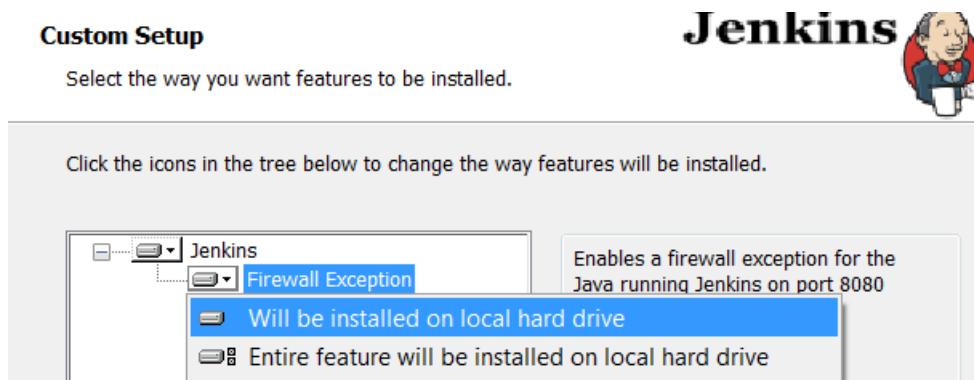


__ 16. Click **Next**.

__ 17. Click **Test Port** and make sure it works fine.



- ___18. Click **Next**.
- ___19. Leave the default **Java home directory (JDK or JRE)** and click **Next**.
- ___20. Click on **Firewall Exception** and select **Will be installed on local hard drive**.



- ___21. Click **Next**.
- ___22. On the **Ready to Install...** page, click **Install**.
- ___23. Windows may show a security dialog. If it does, click **Yes**.
- ___24. In the final dialog panel, click **Finish**.

The installer will open the default browser window to the Jenkins home page. The page shows the location of a file where you can find the initial administration password, and also a text box to enter the password into.

- ___25. Open Mozilla and enter **localhost:8080**

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

`C:\Users\wasadmin\AppData\Local\Jenkins.jenkins\secrets\initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

Continue

- ___26. Open the indicated file with an editor such as Notepad, and copy the password to the clipboard with Ctrl-C.
- ___27. Paste the password into the **Administrator Password** box and click **Continue**.
- ___28. If you are prompted to save the password just close that window.
- ___29. Click on **Install Suggested Plugins**.

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Getting Started will begin. Wait until is done.

Getting Started

✓ Folders Plugin	✓ OWASP Markup Formatter Plugin	✓ build timeout plugin	✓ Credentials Binding Plugin	** Jenkins G
✓ Timestamper	✓ Workspace Cleanup Plugin	✓ Ant Plugin	✓ Gradle Plugin	** Pipeline: Libraries
✓ Pipeline	↻ GitHub Organization Folder Plugin	✓ Pipeline: Stage View Plugin	✓ Git plugin	** Branch API
↻ Subversion Plug-in	↻ SSH Slaves plugin	✓ Matrix Authorization	✓ PAM Authentication	** Pipeline: Processes

In case a plugin failed to be installed, you can retry or click Continue.

_30. In the **Create First Admin User** screen. Enter the following fields:

Username: wasadmin

Password: wasadmin

Confirm Password: wasadmin

Full name: Administrator

E-mail address: wasadmin@wasadmin.com

_31. When the input looks like below, click **Save and Continue**.

Create First Admin User

Username:	<input type="text" value="wasadmin"/>
Password:	<input type="password" value="*****"/>
Confirm password:	<input type="password" value="*****"/>
Full name:	<input type="text" value="Administrator"/>
E-mail address:	<input type="text" value="sadmin@wasadmin.com"/>

—32. Instance Configuration page will open, just click **Save and Finish**.

Instance Configuration

Jenkins URL: x

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the `BUILD_URL` environment variable provided to build steps.

The proposed default value shown is not saved yet and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

150.3

Not now

Save and Finish

—33. If you are prompted to save the password just close that window.

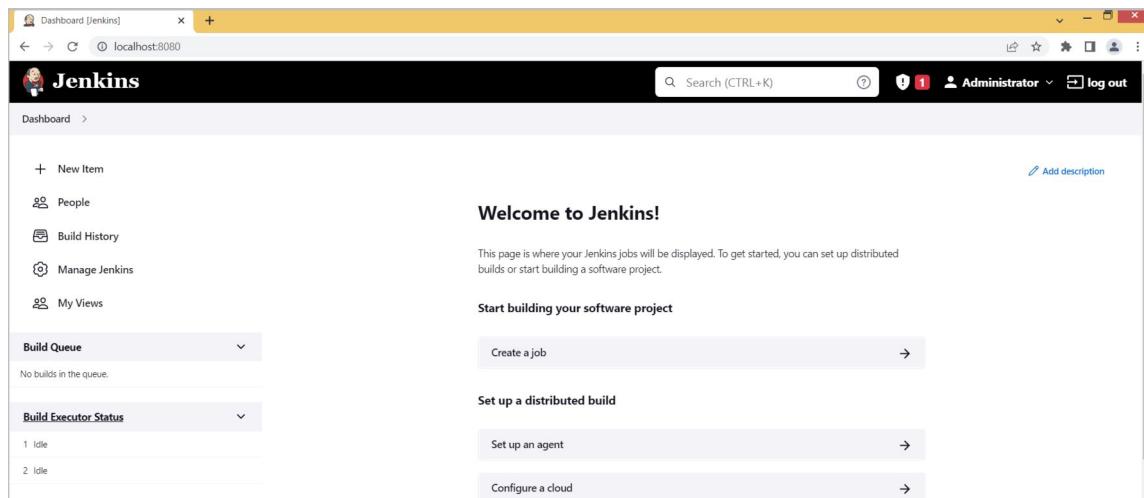
—34. You will see that Jenkins is ready. Click **Start using Jenkins**.

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins](#)

Jenkins will open.



___35. Jenkins installation is complete. Close the browser.

___36. Edit the following file with notepad or similar text editor:

C:\Program Files\Jenkins\Jenkins.xml

___37. Find this line:

```
<arguments>-Xrs -Xmx256m -Dhudson.lifecycle=hudson.lifecycle.WindowsServiceLifecycle -jar "C:\Program Files\Jenkins\jenkins.war" --httpPort=8080 --webroot="%LocalAppData%\Jenkins\war"</arguments>
```

___38. Insert the following text **before** the first "-Dhudson ...":

-Dhudson.plugins.git.GitSCM.ALLOW_LOCAL_CHECKOUT=true

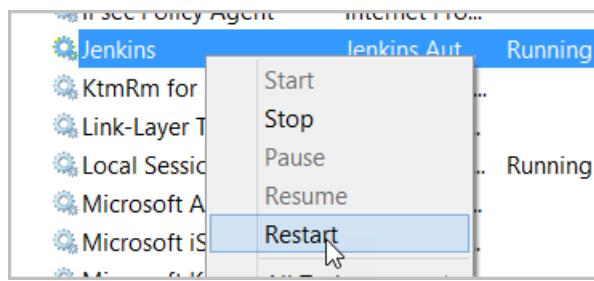
___39. The updated line will look like this:

```
<arguments>-Xrs -Xmx256m -Dhudson.plugins.git.GitSCM.ALLOW_LOCAL_CHECKOUT=true  
-Dhudson.lifecycle=hudson.lifecycle.WindowsServiceLifecycle -jar "C:\Program  
Files\Jenkins\jenkins.war" --httpPort=8080 --webroot="%LocalAppData%\Jenkins\  
war"</arguments>
```

___40. Save and close the file.

___41. Open Services.

___42. Restart Jenkins.



___43. Open Mozilla and go to Jenkins homepage:

<http://localhost:8080/>

___44. Login using **wasadmin** for user and password.

___45. Make sure login Jenkins is successful and you can see the home page.



___46. Close all.

Part 9 - Installing Maven 3.6.3

The following steps are based on Windows 7, other Windows versions instructions may vary.

___ 1. In the Windows Start Menu, right-click on the **Computer** link in the right-hand side of the Start panel, and then select **Properties**.

___ 2. Click on **Advanced system settings**.

___ 3. The system will display the **System Properties** dialog. Select the **Advanced** tab and click **Environment Variables**.

___ 4. Verify there is a **JAVA_HOME** variable.

___ 5. In the 'System Variables' panel, locate the entry for '**Path**' and double-click on it.

___ 6. Add the following to the **end** of the **Variable Value** field (including the semi-colon)

;C:\Software\apache-maven-3.6.3\bin

___ 7. Click **OK** on the variable editor dialog.

___ 8. Click **OK** on the **Environment Variables** dialog.

___ 9. Click **OK** in the **System Properties** dialog.

___ 10. Open a command prompt window.

___ 11. In the command window, type:

mvn -version

___ 12. Verify the version is 3.6.3 as shown below:

```
C:\Users\wasadmin>mvn -version
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b4c6d777f020)
Maven home: C:\Software\apache-maven-3.6.3\bin
Java version: 1.8.0_45, vendor: Oracle Corporation
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 7", version: "6.1", arch: ">
```

___13. Close all.

Part 10 - Installing Git 2.26

IMPORTANT: Setup is easy but you need to make sure you do the change in Step 8.

___1. From the **C:\Software** directory run the following file:

Git-2.26.0-64-bit.exe

___2. You may need to allow the program to run.

___3. In the Information page, click **Next**.

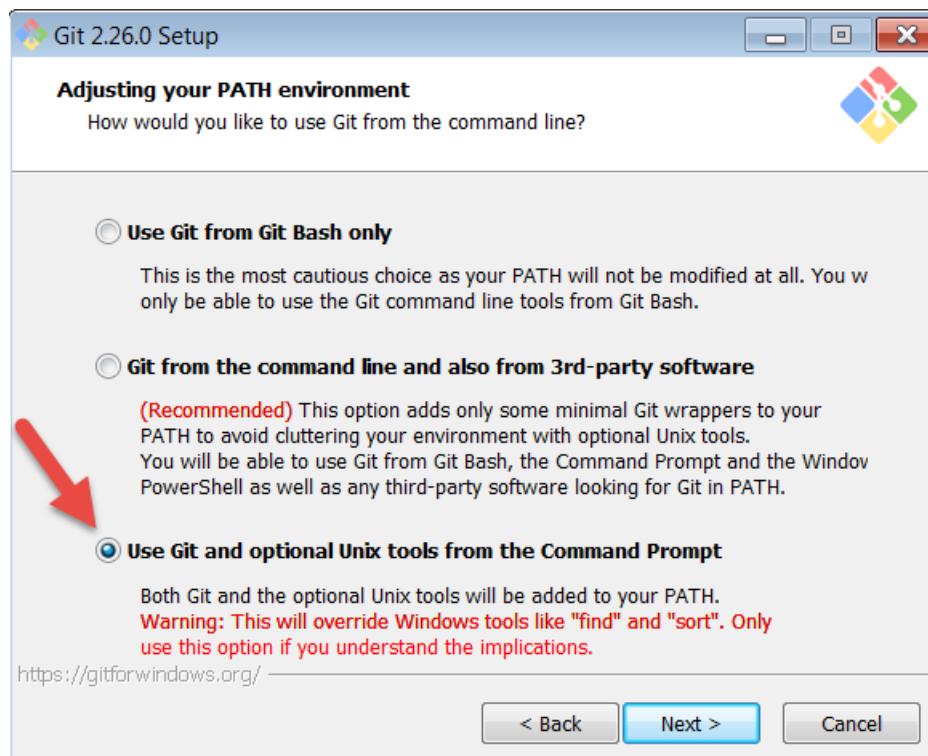
___4. In the Select Destination Location page, leave defaults and click **Next**.

___5. In the Select Components page, leave defaults and click **Next**.

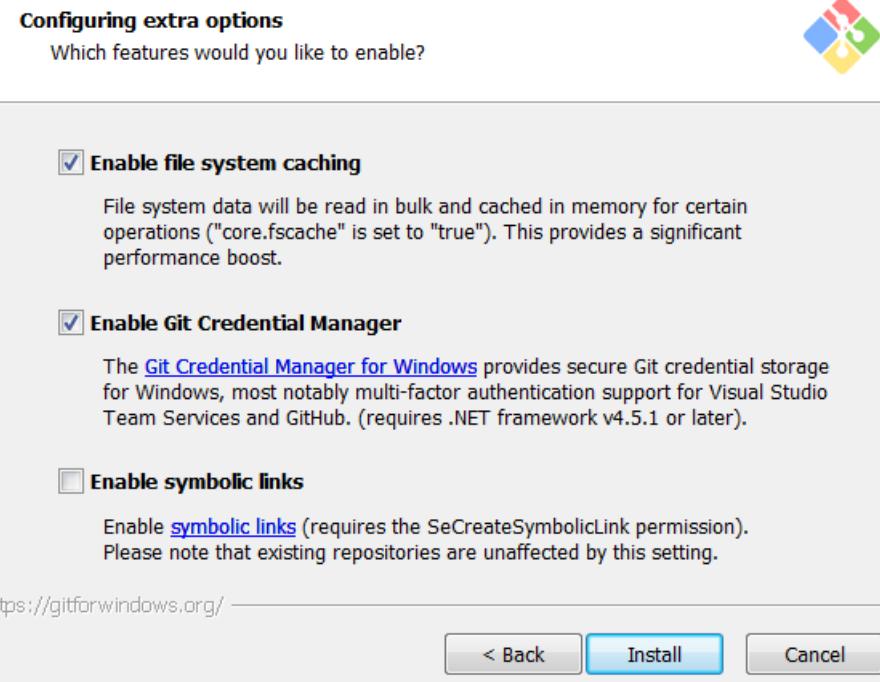
___6. In the Select Start Menu Folder page, leave defaults and click **Next**.

___7. In the Choosing the default editor used by Git page, leave defaults and click **Next**.

___8. In the Adjusting your PATH environments page, select **Use Git and Optional Unix tools from the Windows Command Prompt**.



- ___ 9. Make sure you select the 3rd option as shown above and then click **Next**.
- ___ 10. In the Choosing HTTP transport backend page, leave defaults and click **Next**.
- ___ 11. In the Configuring the terminal emulator to use with Git Bash page, leave defaults and click **Next**.
- ___ 12. In the Configuring the line ending conversions page, leave defaults and click **Next**.
- ___ 13. Finally, in the Configuring extra options page, leave defaults and click **Install**.



14. Check the box for **Launch Git Bash** and Click **Next**.

Completing the Git Setup Wizard

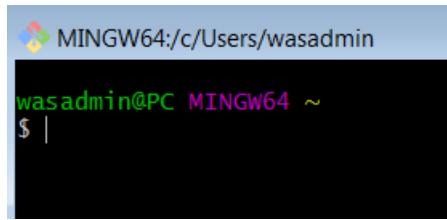
Setup has finished installing Git on your computer. The application may be launched by selecting the installed shortcuts.

Click **Finish** to exit Setup.

- Launch Git Bash
 View Release Notes

Next >

15. You will see a Terminal Git window like below.



___16. Close all.

You have completed GIT installation.

Part 11 - Verification of Apache Tomcat 9.0.8

___1. Open a command prompt window.

___2. Change to the following directory:

```
cd C:\Software\apache-tomcat-9.0.8\bin
```

___3. Run the command:

```
startup.bat
```

___4. Windows Security Alert may open. Click **Allow Access**.

___5. Apache will start in a new window.

```
10-Jun-2020 11:32:52.955 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployin
g web application directory [C:\$Software\apache-tomcat-9.0.8\webapps\manager]
10-Jun-2020 11:32:53.023 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployme
nt of web application directory [C:\$Software\apache-tomcat-9.0.8\webapps\manager] has finished in [6
8] ms
10-Jun-2020 11:32:53.023 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployin
g web application directory [C:\$Software\apache-tomcat-9.0.8\webapps\ROOT]
10-Jun-2020 11:32:53.057 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployme
nt of web application directory [C:\$Software\apache-tomcat-9.0.8\webapps\ROOT] has finished in [34]
ms
10-Jun-2020 11:32:53.057 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandl
er ["ajp-nio-8009"]
10-Jun-2020 11:32:53.074 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in 16
96 ms
```

___6. Open another command prompt window.

___7. Change to the following directory:

```
cd C:\Software\apache-tomcat-9.0.8\bin
```

___8. Run the command:

```
shutdown.bat
```

___9. Apache will stop and the window where it was running will close.

___10. Close All command prompts.

Part 12 - Artifactory 7.10.6

___1. Open a file browser to **C:\Software\artifactory-oss-7.10.6\app\bin**

___2. Double click on the following file:

```
artifactory.bat
```

___3. A command prompt window will open, wait until you see a similar message like this:

```
[eHandlerBase:342] [c-default-executor-0] - [ACCESS BOOTSTRAP] Saved new root certificate at: C:\Software\artifactory-oss-7.10.6\var\etc\access\keys\root.crt
2020-11-20T14:18:40.551Z +[1;33m[jfac ]-[0;39m +[34m[INFO ]-[0;39m [ ] [CertificateFi
leHandlerBase:196] [c-default-executor-0] - Finished loading root certificate from database.
2020-11-20T14:18:40.553Z +[1;33m[jfac ]-[0;39m +[34m[INFO ]-[0;39m [ ] [CertificateFi
leHandlerBase:187] [c-default-executor-0] - Loading ca certificate from database.
2020-11-20T14:18:40.617Z +[1;33m[jfac ]-[0;39m +[34m[INFO ]-[0;39m [ ] [CertificateFi
leHandlerBase:342] [c-default-executor-0] - [ACCESS BOOTSTRAP] Saved new ca certificate at: C:\Software\artifactory-oss-7.10.6\var\etc\access\keys\ca.crt
2020-11-20T14:18:40.621Z +[1;33m[jfac ]-[0;39m +[34m[INFO ]-[0;39m [ ] [CertificateFi
leHandlerBase:196] [c-default-executor-0] - Finished loading ca certificate from database.
2020-11-20T14:18:53.839Z +[1;32m[jfrt ]-[0;39m +[34m[INFO ]-[0;39m [31fb607d2682417f] [a.e.EventsLog
CleanUpService:59] [art-exec-6] - Starting cleanup of old events from event log
2020-11-20T14:18:53.851Z +[1;32m[jfrt ]-[0;39m +[34m[INFO ]-[0;39m [31fb607d2682417f] [a.e.EventsLog
CleanUpService:81] [art-exec-6] - Cleanup of old events from event log finished
```

___4. Navigate to the following URL using Mozilla browser:

```
http://localhost:8081
```

You should be able to see the home page as below:

WELCOME TO JFROG

Username

Password

Remember me

Login

___5. Close the browser and the command prompt window.

Part 13 - Installing Notepad Plus 7.5.6

___1. Open **C:\Software** and execute:

npp.7.5.6.Installer.exe

___2. Click Yes to allow to install it and follow default steps.

___3. Click **Finish** when the installation is completed.



___4. Close all.

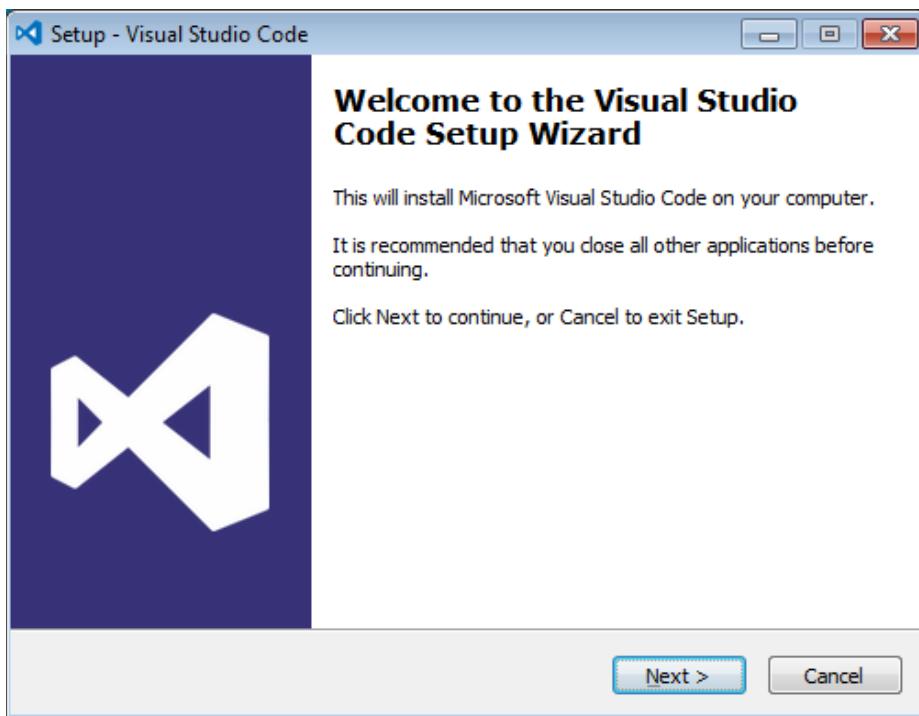
Part 14 - Installing Visual Studio Code

___1. Download the latest VScode for Windows (stable build installer) from the following site:

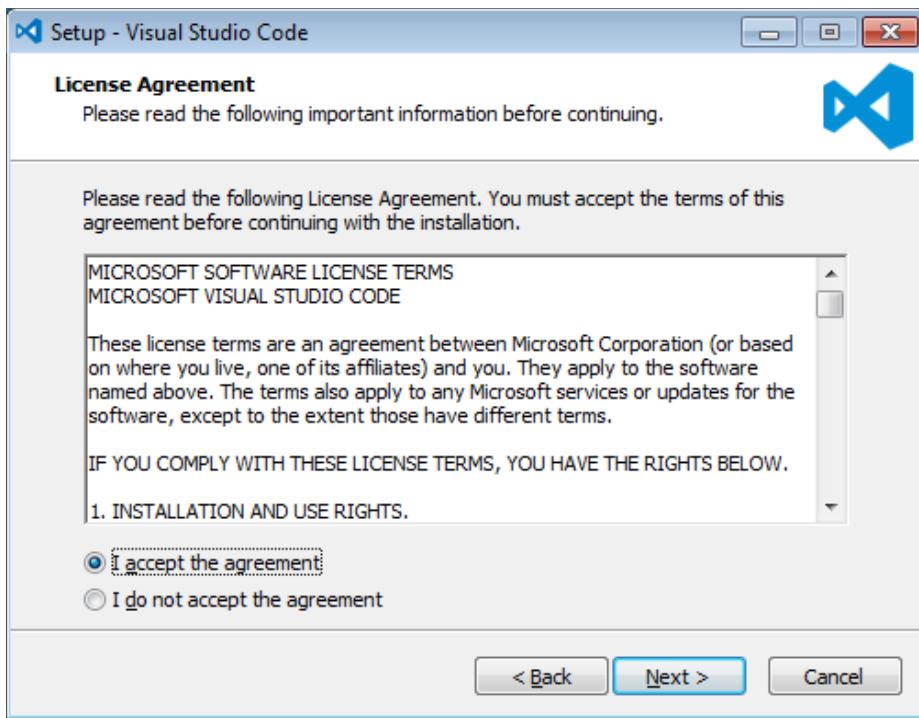
<https://code.visualstudio.com/>

___2. Run the downloaded installer to begin the installation.

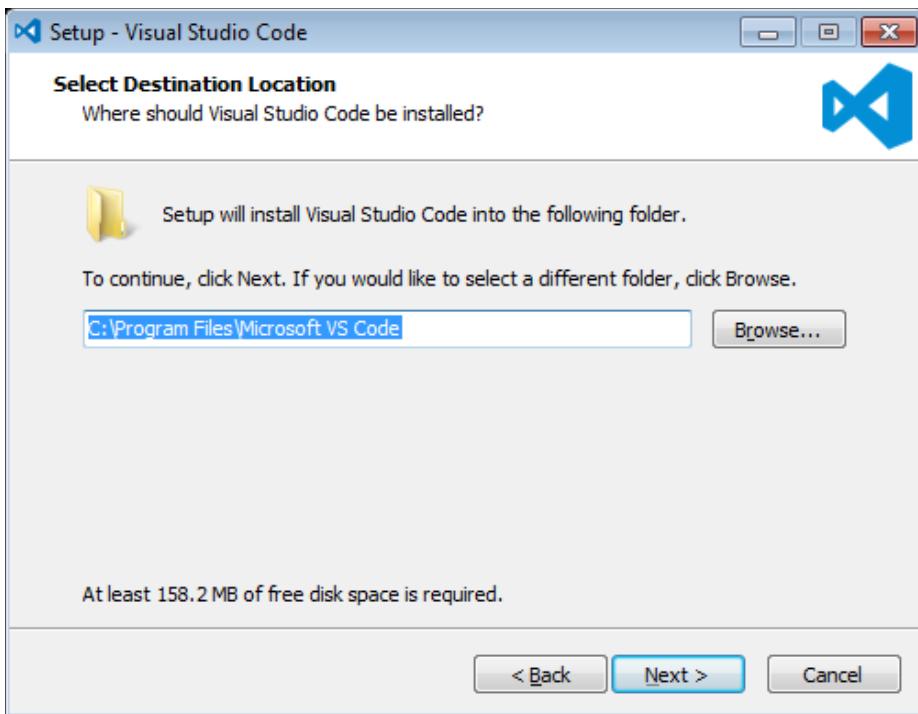
___3. Click **Next** on the welcome screen.



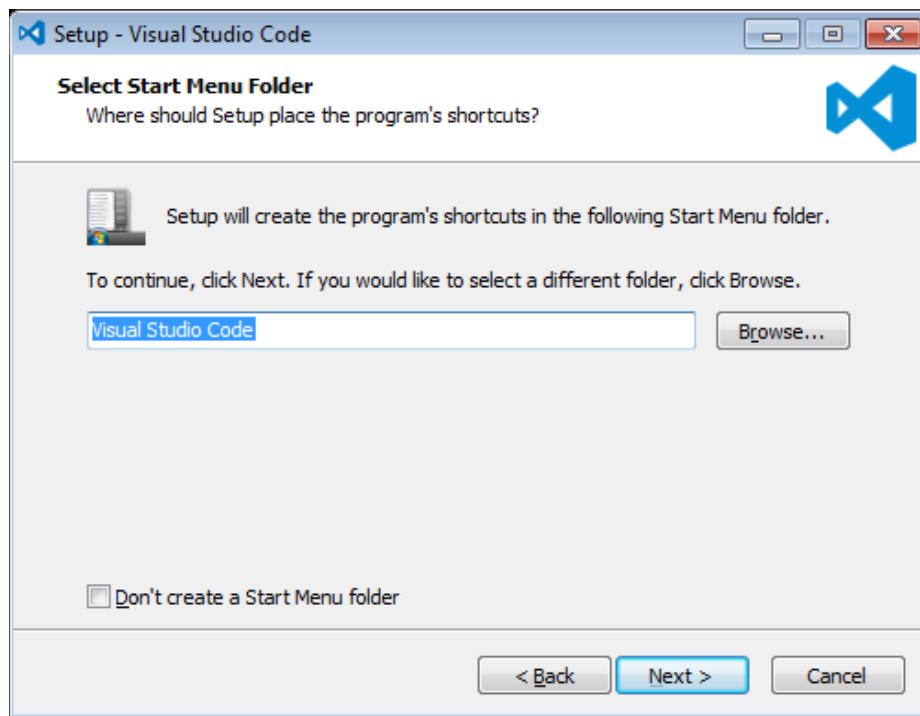
4. Check **I accept the agreement...** and click **Next**.



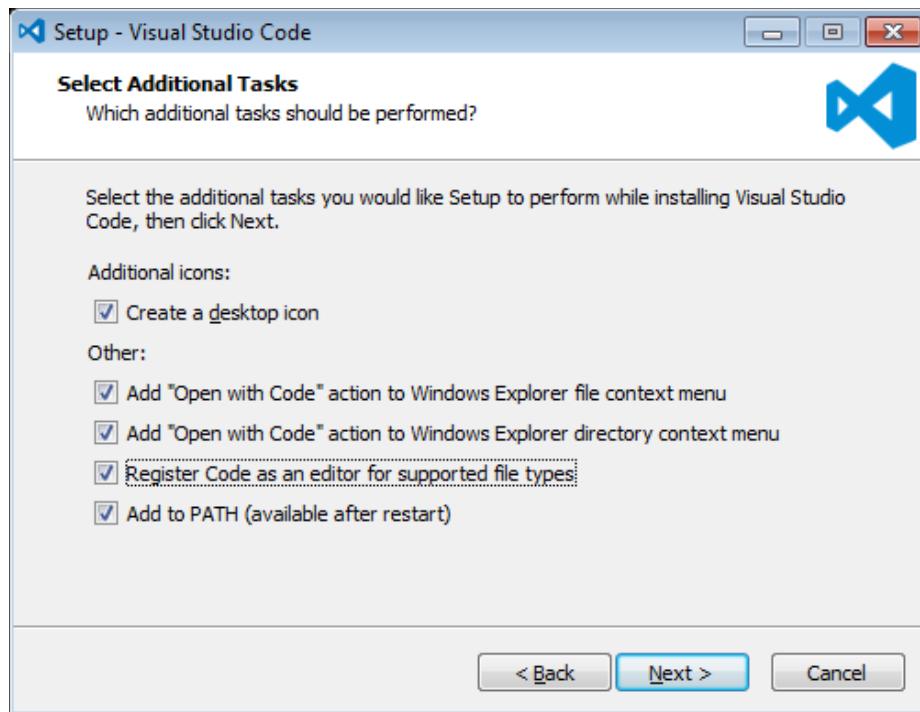
5. Leave the default installation location and click **Next**.



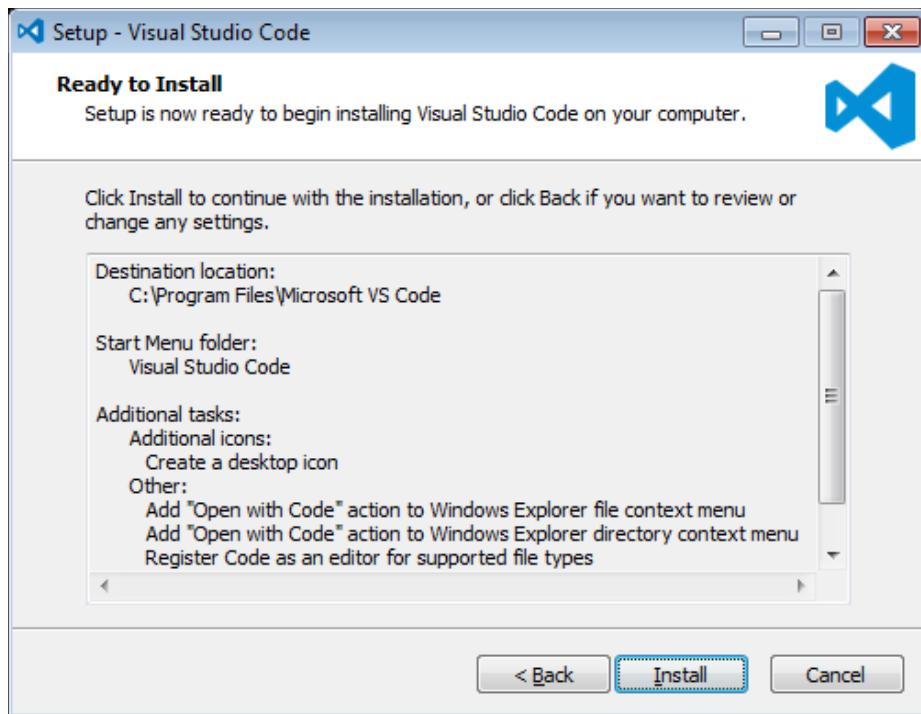
6. Leave the default start menu folder and click **Next**.



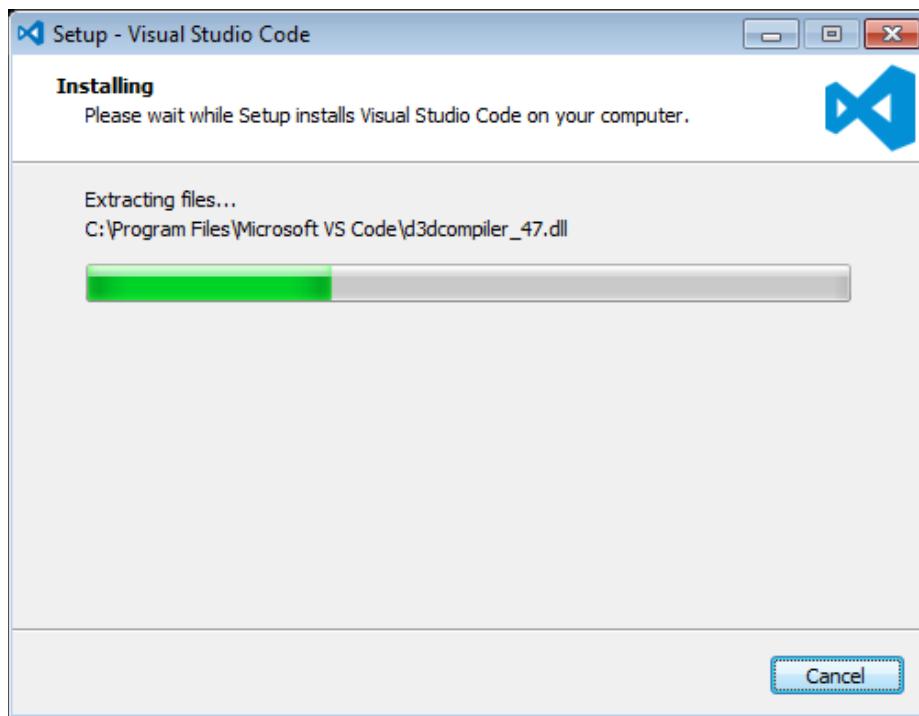
7. Put a check mark on all items under Additional Tasks and click Next.



8. Now click **Install**.



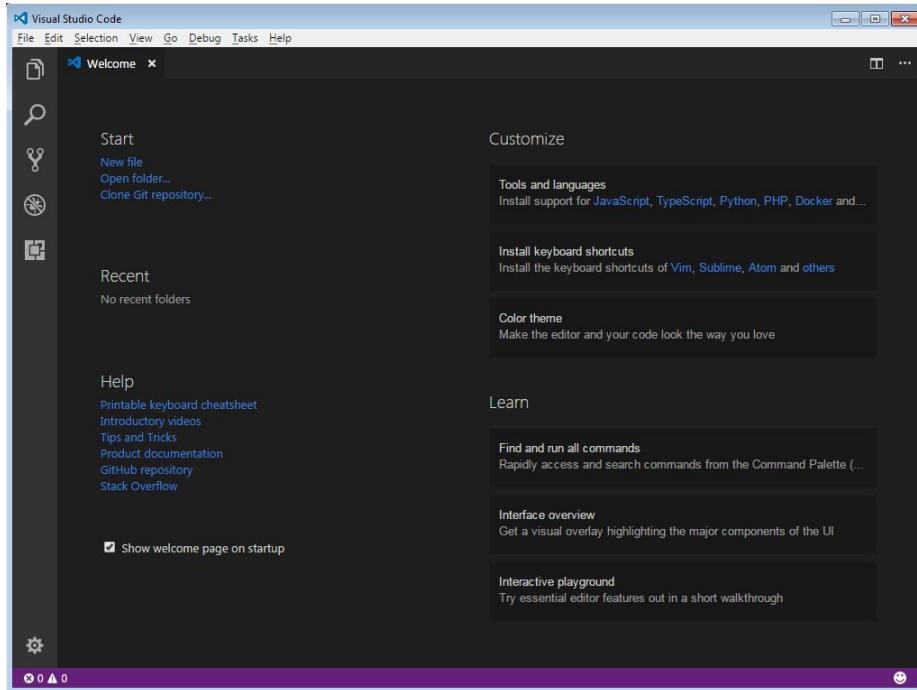
9. Give it some time to install.



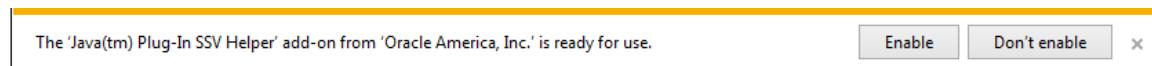
10. When it is complete, **uncheck Launch Visual Studio Code** and click **Finish**.



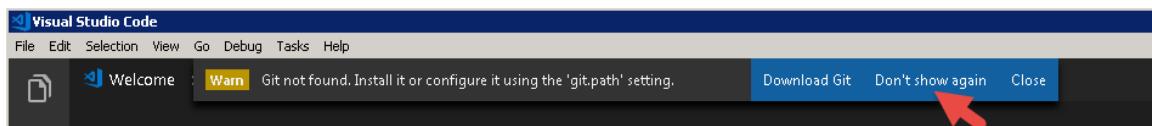
- __11. Launch Visual Studio Code using the shortcut on the desktop.
- __12. Verify Visual Studio Code opens and that you see the Welcome screen.



- __13. You may see a message to enable Java(tm) Plug-In, if so click Enable.



- __14. You may see a message regarding Git, if so click **Don't show again**.



- __15. Close all windows.

Part 15 - Summary

You have successfully installed the software for this course!

If you have any question please contact us by email at support@webagesolutions.com

From US and Canada call: 1-877-812-8887 ext. 26

International call: 416-406-3994 ext. 26