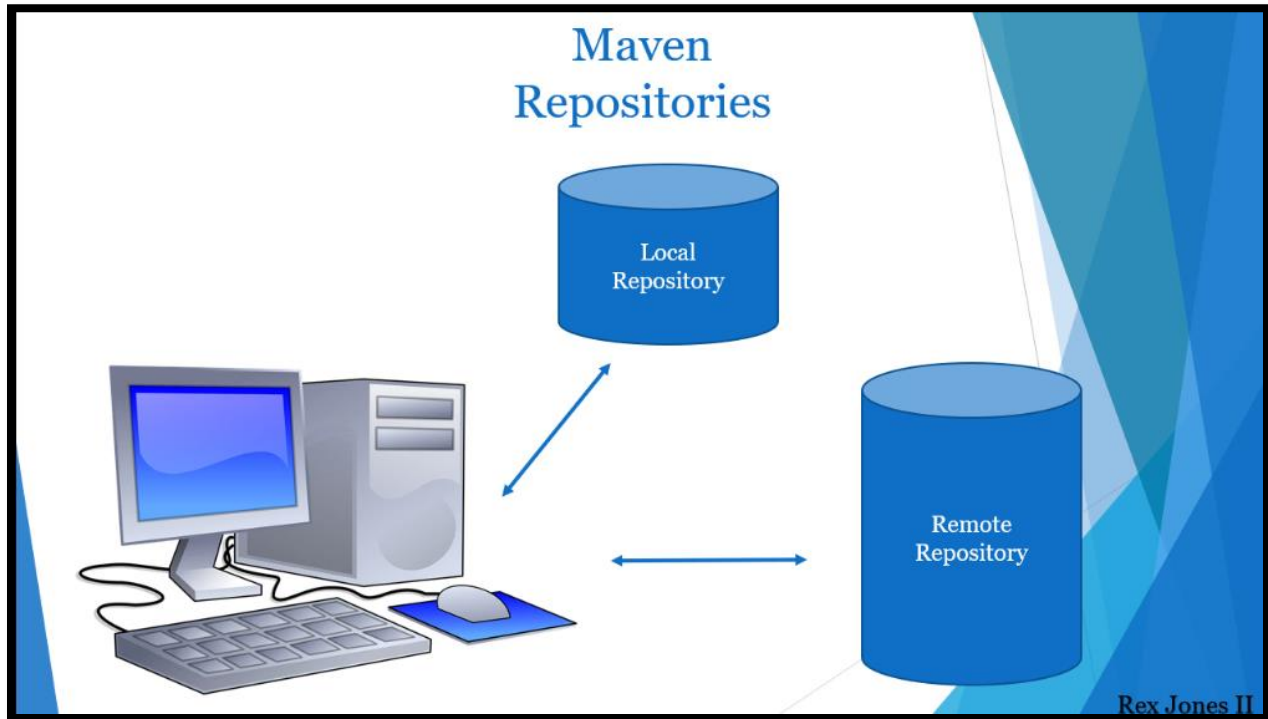


(Transcript)

Introduce & Install Maven



Repositories

There are 2 repositories for Maven. We have a local repository and remote repository. The local repository is a directory on our computer where we run Maven. By default, it is created in the home directory. The remote repository is any repository outside our directory. If the local repository does not have a dependency then Maven will download the dependency from the remote repository.

Download Maven

Before installing Maven, we must make sure our system has Java. Go to the command prompt and type `java -version`. We see java version 14.0.2. Enter `mvn -version` and we see I already have Apache Maven installed for version 3.6.3. If you do not have Maven installed then your command prompt will show Maven is not recognized. Even if we type `mvn -v`. Your Maven still not recognized. That's okay, no problem. The next steps will be to download and install Maven.

Let's go to Chrome and search for Download Maven. Click the link to download. We see the most recent version is 3.6.3. Scroll down to the Files section and we see 4 links. The 2nd link for Binary zip archive is the one we want. Click the link.

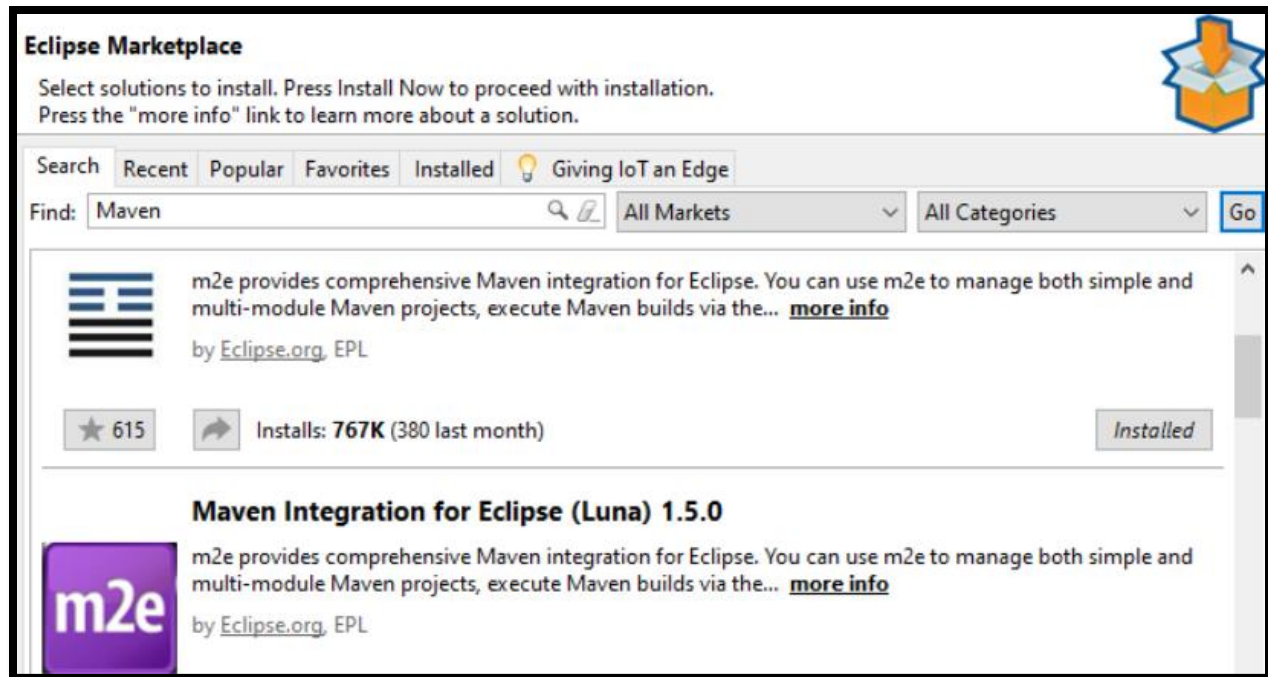
Files			
Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the installation instructions . Use a source archive if you intend to build Maven yourself.			
In order to guard against corrupted downloads/installations, it is highly recommended to verify the signature of the release bundles against the public KEYS used by the Apache Maven developers.			
	Link	Checksums	Signature
Binary tar.gz archive	apache-maven-3.6.3-bin.tar.gz	apache-maven-3.6.3-bin.tar.gz.sha512	apache-maven-3.6.3-bin.tar.gz.asc
Binary zip archive	apache-maven-3.6.3-bin.zip	apache-maven-3.6.3-bin.zip.sha512	apache-maven-3.6.3-bin.zip.asc
Source tar.gz archive	apache-maven-3.6.3-src.tar.gz	apache-maven-3.6.3-src.tar.gz.sha512	apache-maven-3.6.3-src.tar.gz.asc
Source zip archive	apache-maven-3.6.3-src.zip	apache-maven-3.6.3-src.zip.sha512	apache-maven-3.6.3-src.zip.asc

After downloading, we go to our Downloads folder or whatever folder you have your downloads going to. Unzip the file, Extract it, now we go to the bin folder and you will see mvn.cmd. This file allows us to enter commands from the command prompt. Copy the bin path location and go to Environment Variables.

We have the choice to create a new System Variable like JAVA_HOME or add the bin location to System Variables Path. Either way is okay. Next, you would Click Edit for Path then paste the bin path location. Now, let's add the Maven plug in to Eclipse.

Add Maven Plugin

Go to Eclipse and depending on your Eclipse version, the Maven plug in is already available in your IDE. If not available then Go to Help and we can install the plug in from Install New Software or Eclipse Marketplace. In Eclipse Marketplace, type Maven, hit enter or Go. After Maven shows up, click Install. Click Next, accept the terms, and click the Finish button then you will see the plugin downloading to Eclipse. You must restart for the changes to take effect.



Verify Maven Version & Plugin

After restarting, go back to the command prompt and verify Apache Maven 3.6.3.

```
C:\Users\Rex Allen Jones II>java -version
java version "14.0.2"
Java(TM) SE Runtime Environment (build 14.0.2+12-46)
Java HotSpot(TM) 64-Bit Server VM (build 14.0.2+12-46, mixed mode, sharing)

C:\Users\Rex Allen Jones II>mvn -version
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: C:\Users\Rex Allen Jones II\Downloads\Training\apache-maven-3.6.3-bin
Java version: 11.0.8, vendor: Oracle Corporation, runtime: C:\Program Files\Java
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
```

In Eclipse, verify the Maven Plugin by going to Window > Preferences and you will see Maven. You can also go to Help and About Eclipse to see Maven. In the next session, we are going to create our Maven Project.

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