Maven - Nexus Repo

Setting up nexus repo (sonatype)

- We know that maven pom.xml deals with remote repo and local repo and when ever we install a custom jar that will be installed to local repo (.m2).

- If we are doing manual installation of custom jars to local repo then each developer need do the same. If we are going to have few more custom jars, then each developer of organization need to install the jars into their local repo.

- It won't be good practice and organizations don't follow this approach because each developer need to install the custom jars and there is chance that developers may install wrong versions of the jars.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http:/
    <modelVersion>4.0.0</modelVersion>
    <groupId>com.mycompany</groupId>
    <artifactId>vitech-bank-cust-acct-lockunlock</artifactId>
    <version>1.0.0-SNAPSHOT</version>
    <packaging>mule-application</packaging>
    <name>vitech-bank-cust-acct-lockunlock</name>
```
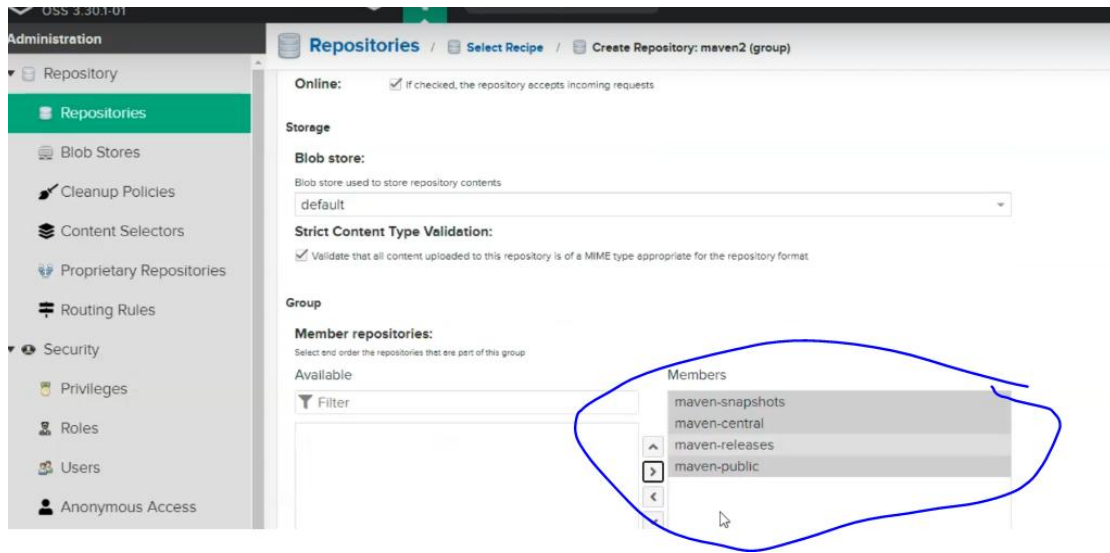
Solution

- To avoid this issue organizations, maintain nexus repo at organization level, so that the custom jars installed in nexus repo and supplied over projects.

    - Sonatype nexus repo
    - Jfrog nexus repo
    - Etc.

We can add custom jar like oraclejdbc6 into nexus then it will convert it into pom file. This we can use in project in pom.xml file

Install nexus repo
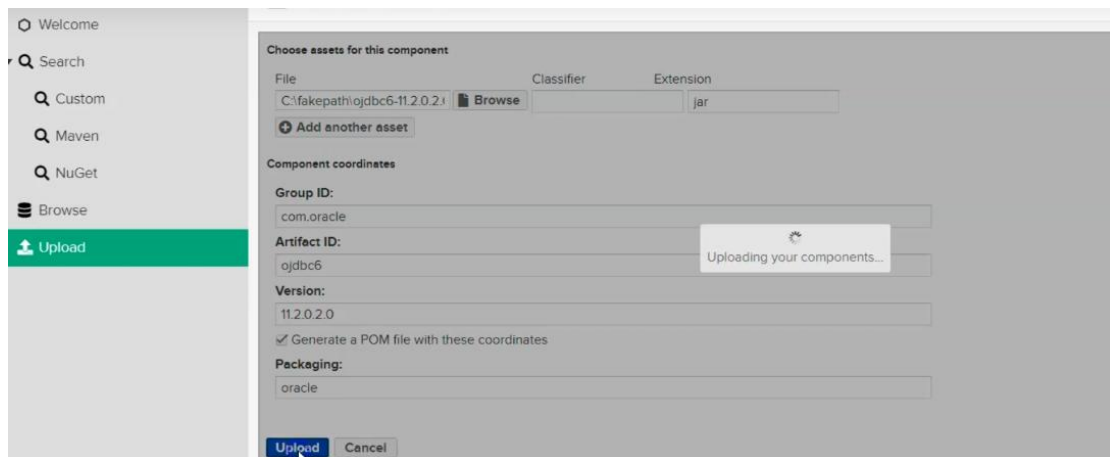Use and pwd : admin
Port:8081

Create repo:

Click on settings > Repositories > create repository > click on maven group >
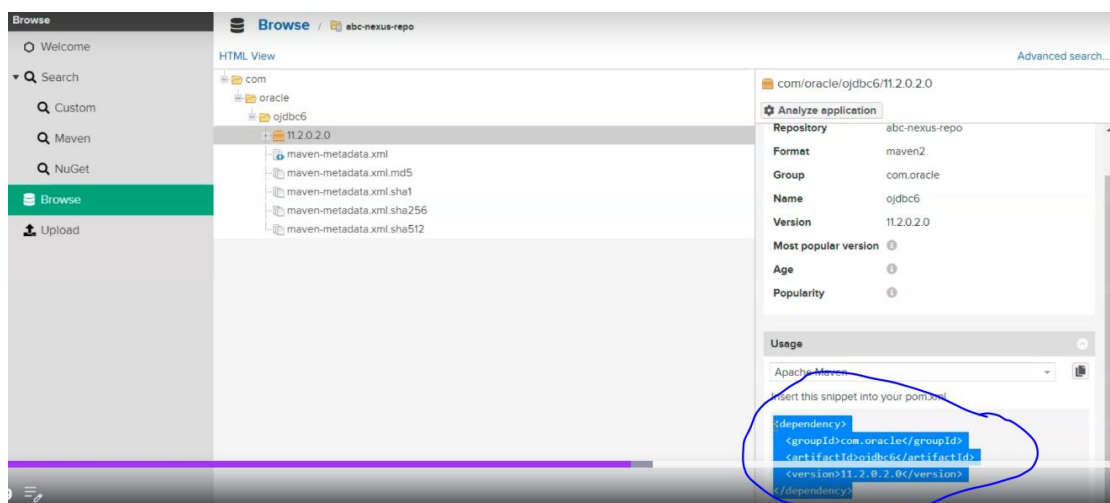
Upload Jar file:

Click on upload > maven releases >

It will add to our repository.

Copy dependency and URL and repo name, these things will use in pom.xml in project.

```
            <classifier>mule-plugin</classifier>
        </dependency>
        <dependency>
            <groupId>com.oracle</groupId>
            <artifactId>ojdbc6</artifactId>
            <version>11.2.0.2.0</version>
        </dependency>
    </dependencies>

    <repositories>
        <repository>
            <id>anypoint-exchange-v2</id>
            <name>Anypoint Exchange</name>
            <url>https://maven.anypoint.mulesoft.com/api/v2/maven</url>
            <layout>default</layout>
        </repository>
        <repository>
```

```
        <layout>default</layout>
        </repository>
        <repository>
            <id>abc-nexus-repo</id>
            <name>abc nexus repo</name>
            <url>http://localhost:8081/repository/abc-nexus-repo/</url>
        </repository>
    </repositories>
    <pluginRepositories>
        <pluginRepository>
            <id>mulesoft-releases</id>
            <name>mulesoft release repository</name>
            <layout>default</layout>
```
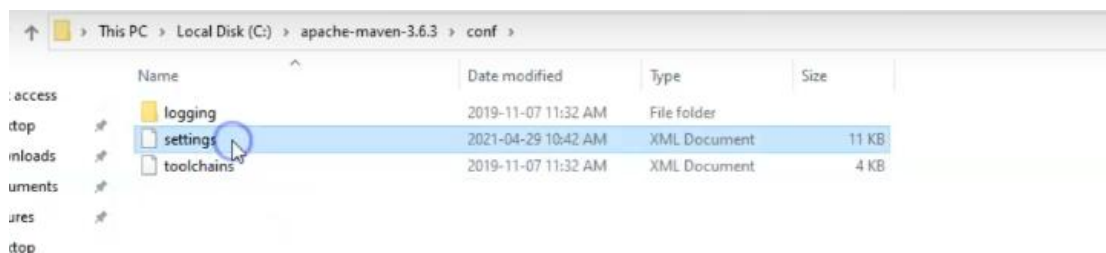
Add dependency and repo url to pom.xml

Ctrl + shift + f ---> for proper alignment

We need to give user name and password:

Go to maven istalled location > conf > settings file > search for servers

Name	Date modified	Type	Size
logging	2019-11-07 11:32 AM	File folder	
settings	2021-04-29 10:42 AM	XML Document	11 KB
toolchains	2019-11-07 11:32 AM	XML Document	4 KB

This PC > Local Disk (C:) > apache-maven-3.6.3 > conf >
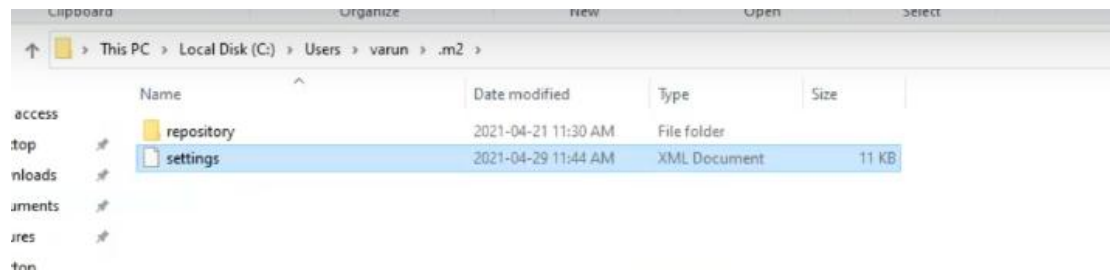
```
    </server>
  -->
  <server>
    <id>abc-nexus-repo</id>
    <username>admin</username>
    <password>1234</password>
  </server>
  <!-- Another sample, using keys to authenticate.
  <server>
    <id>siteServer</id>
    <privateKey>/path/to/private/key</privateKey>
```

And copy this file to .m2 location. The project will take details auto matically or sometimes, we need to restart it. (close and open)

Go to localdisk c > users > krazy > .m2 >

Name	Date modified	Type	Size
repository	2021-04-21 11:30 AM	File folder	
settings	2021-04-29 11:44 AM	XML Document	11 KB

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Once we deploy the project. It will download the dependency through nexus repo.