

## <u>Lab Experiment – 9</u> <u>Uploading Artifacts on Nexus Server using command Line</u>

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**COURSE** – B. Tech CSE- DevOps Batch 1

**SUBJECT** – Continuous Integration and Deployment

**SEMESTER** – 5<sup>th</sup> semester

## **Submitted To:**

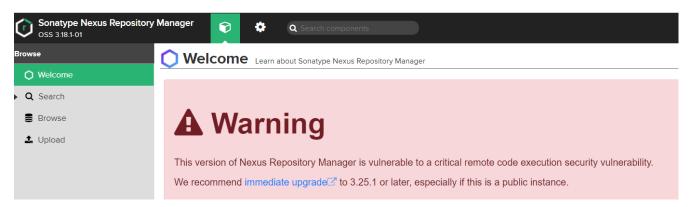
Dr. Hitesh Kumar Sir

## **Experiment for demonstrating Uploading Artifacts on Nexus**Server using command Line

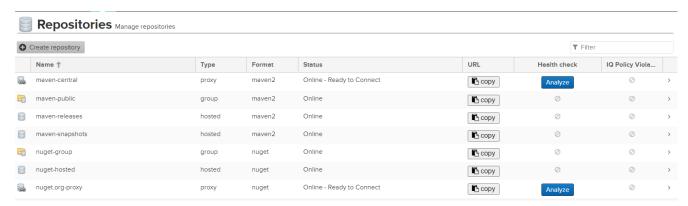
• Start Nexus using command prompt in your local system.

```
### State | Programme | Progra
```

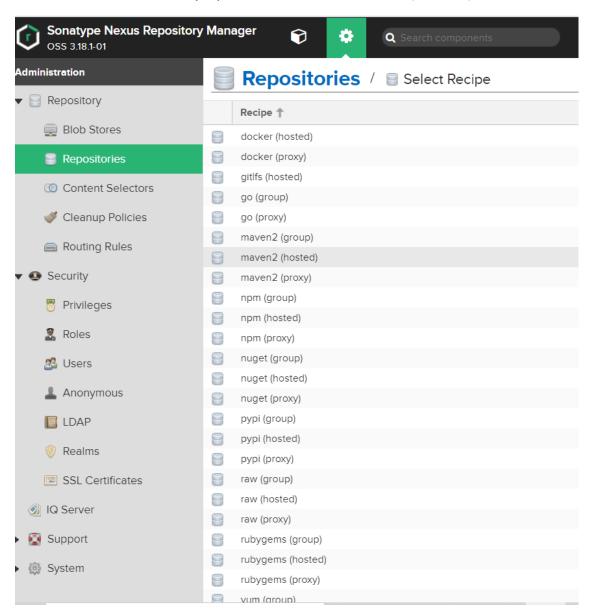
 Open your browser and run your Nexus using localhost:8081 where 8081 is the default port number for Nexus.



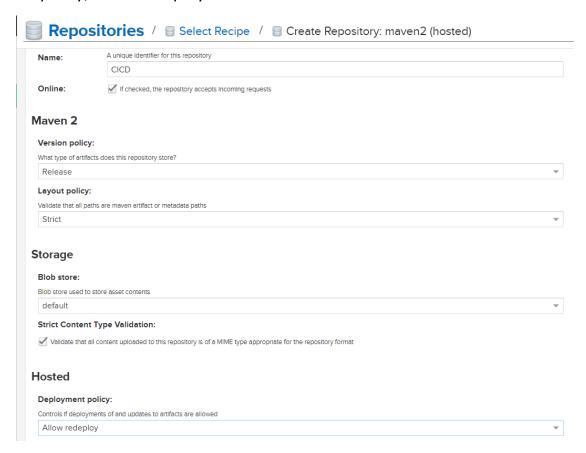
Create a new repository in Nexus.



• You will find many options and select maven2(hosted).



 Give any name to your repository and in the Maven2 tab, select the Snapshot type of artifacts in the Version policy and in the deployment policy, allow redeploy.



Click on the Create repository, here the name of the repository is CICD.



 In your local maven server, open the settings.xml and provide server details.

```
| cserver> | cid>deploymentRepo</id> | cid>deploymentRepo</id> | cusername>repouser</username> | cpassword>repopwd</password> | c/server> | cid>server> | cid>server> | cid>siteServer</id> | cid>siteServer</id> | cid>siteServer</id> | cpassphrase>optional; leave empty if not used.</passphrase> | c/server> | cid>cid>cid>cid>c/server> | cid>c/server> | cid>c/server> | c/server> | c/server>
```

• Configure the pom.xml for the project and provide the distribution management key to the configuration file.

```
properties>
 cproject.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
 <maven.compiler.source>1.7</maven.compiler.source>
  <maven.compiler.target>1.7</maven.compiler.target>
properties>
<distributionManagement>
<snapshotRepository>
<id>CICD</id>
<name>CICD</name>
<url>http://localhost:8081/repository/CICD/</url>
</snapshotRepository>
</distributionManagement>
<dependencies>
 <dependency>
    <groupId>junit
    <artifactId>junit</artifactId>
    <version>4.11</version>
    <scope>test</scope>
  </dependency>
</dependencies>
```

• Go to the location where your project is in your local machine, and run the appropriate commands like mvn clean and mvn deploy.

```
:\CI_CD_lab\Maven\my-app>mvn deploy
INFO] Scanning for projects...
WARNING]
[WARNING]
[WARNING]
        Some problems were encountered while building the effective model for com.mycompany.app:my-app:jar:1
        'build.pluginManagement.plugins.plugin.(groupId:artifactId)' must be unique but found duplicate declaration
WARNING]
WARNING]
        It is highly recommended to fix these problems because they threaten the stability of your build.
WARNING]
WARNING]
       For this reason, future Maven versions might no longer support building such malformed projects.
WARNING1
INFO]
     Building my-app 1.0-SNAPSHOT
             -----[ jar ]------
            en-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
INF01
INFO] Using 'UTF-8' encoding to copy filtered resources.
 INFO] skip non existing resourceDirectory F:\CI_CD_lab\Maven\my-app\src\main\resources
INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ my-app ---
INFO] Nothing to compile - all classes are up to date
INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
INFO] Using 'UTF-8' encoding to copy filtered resources.
INFO] skip non existing resourceDirectory F:\CI_CD_lab\Maven\my-app\src\test\resources
                             .1:testCompile (default-testCompile) @ my-app ---
 INFO] Changes detected - recompiling the module!
INFO] Compiling 1 source file to F:\CI_CD_lab\Maven\my-app\target\test-classes
     --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
INF01
INF0]
      TESTS
INFO] Running com.mycompany.app.AppTest
     Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.041 s - in com.mycompany.app.AppTest
INFO] Results:
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ my-app ---
[INFO] Building jar: F:\CI_CD_lab\Maven\my-app\target\my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ my-app ---
[INFO] Installing F:\CI_CD_lab\Maven\my-app\target\my-app-1.0-SNAPSHOT.jar to C:\Use
[INFO] Installing F:\CI_CD_lab\Maven\my-app\pom.xml to C:\Users\ASUS\.m2\repository\
[INFO]
[INFO] --- maven-deploy-plugin:2.8.2:deploy (default-deploy) @ my-app ---
Downloading from CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-ap
Uploading to CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-app/1.
Jploaded to CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-app/1.0
Uploading to CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-app/1.
Uploaded to CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-app/1.0
Downloading from CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-ap
Uploading to CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-app/1.
Uploaded to CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-app/1.0
Uploading to CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-app/ma
Uploaded to CICD: http://localhost:8081/repository/CICD/com/mycompany/app/my-app/mav
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 8.595 s
[INFO] Finished at: 2020-10-06T13:09:01+05:30
INFO] -----
```

• Go to the dashboard and check if the project has been uploaded. The output is shown below.

