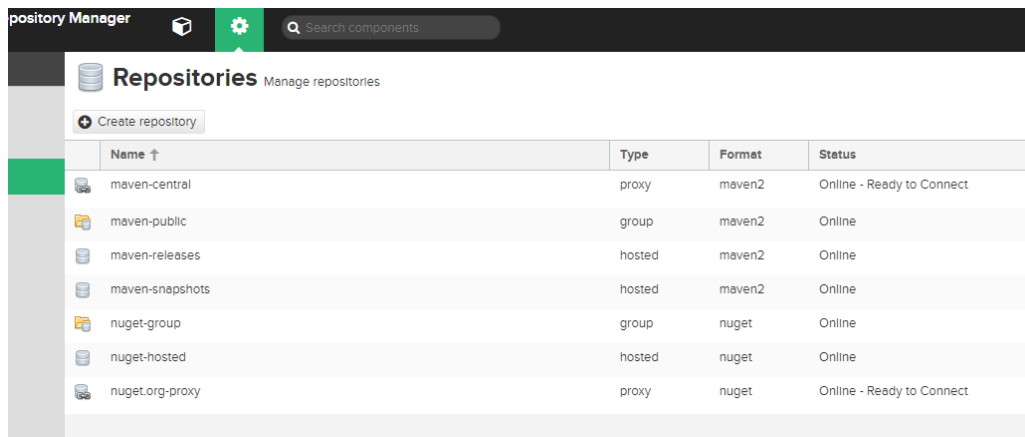


Sumyak Jain, 500068360, R171218106

Experiment No 9

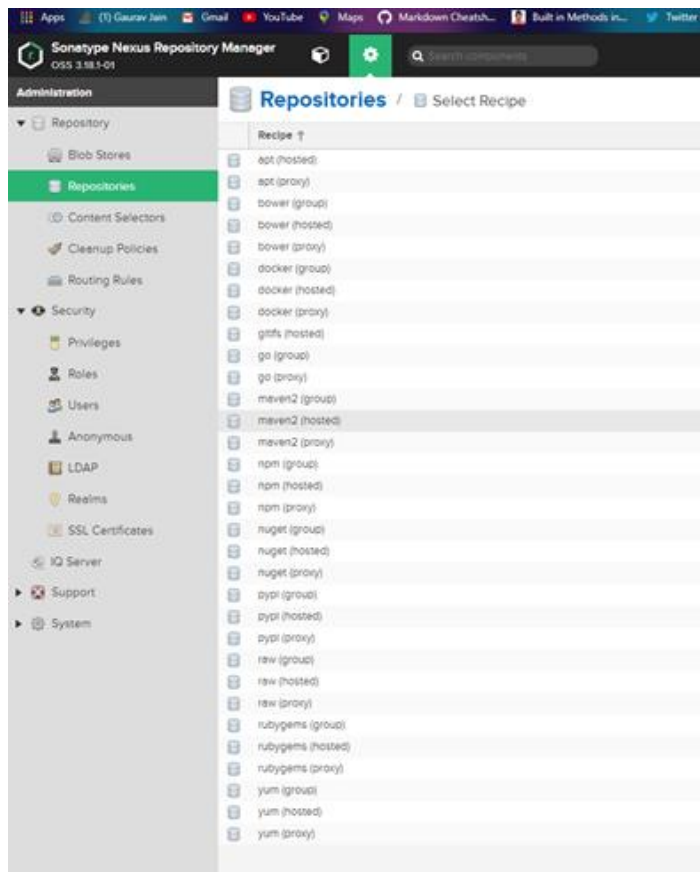
Uploading Artifacts on Nexus Server using Command Line

STEP 1) Create repository on nexus



| Name ↑ | Type | Format | Status |
|-----------------|--------|--------|---------------------------|
| maven-central | proxy | maven2 | Online - Ready to Connect |
| maven-public | group | maven2 | Online |
| maven-releases | hosted | maven2 | Online |
| maven-snapshots | hosted | maven2 | Online |
| nuget-group | group | nuget | Online |
| nuget-hosted | hosted | nuget | Online |
| nuget.org-proxy | proxy | nuget | Online - Ready to Connect |

STEP 2) select maven hosted



| Recipe ↑ |
|------------------------|
| aot (hosted) |
| sbt (proxy) |
| bower (group) |
| bower (hosted) |
| bower (proxy) |
| docker (group) |
| docker (hosted) |
| docker (proxy) |
| gitfs (hosted) |
| go (group) |
| go (proxy) |
| maven2 (group) |
| maven2 (hosted) |
| maven2 (proxy) |
| npm (group) |
| npm (hosted) |
| npm (proxy) |
| nuget (group) |
| nuget (hosted) |
| nuget (proxy) |
| pypi (group) |
| pypi (hosted) |
| pypi (proxy) |
| raw (group) |
| raw (hosted) |
| raw (proxy) |
| rubygems (group) |
| rubygems (hosted) |
| rubygems (proxy) |
| yum (group) |
| yum (hosted) |
| yum (proxy) |

STEP 3) give name for your repo

Select version policy to snapshot

And deployment to redeploy

Repositories / **Select Recipe** / **Create Repository: maven2 (hosted)**

Name: A unique identifier for this repository
lab8

Online: ☒ If checked, the repository accepts incoming requests

Maven 2

Version policy:
What type of artifacts does this repository store?
Snapshot

Layout policy:
Validate that all paths are maven artifact or metadata paths
Strict

Storage

Blob store:
Blob store used to store asset contents
default

Strict Content Type Validation:
☒ Validate that all content uploaded to this repository is of a MIME type appropriate for the repository format

Hosted

Deployment policy:
Controls if deployments of and updates to artifacts are allowed
Allow redeploy

Cleanup Policy

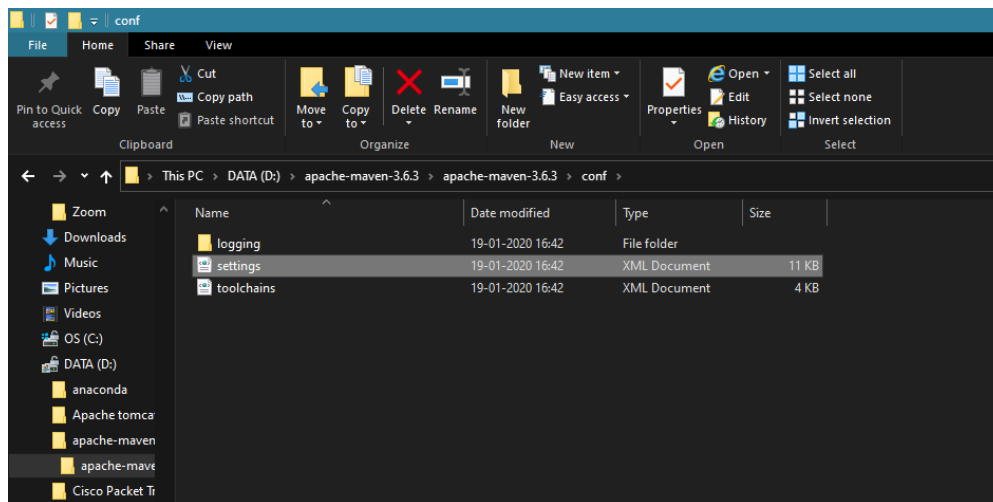
Available cleanup policies:
Select a cleanup policy
None

Create repository **Cancel**

STEP 4) repo created

| | Name ↑ | Type | Format | Status |
|--|-----------------|--------|--------|---------------------------|
| | lab8 | hosted | maven2 | Online |
| | maven-central | proxy | maven2 | Online - Ready to Connect |
| | maven-public | group | maven2 | Online |
| | maven-releases | hosted | maven2 | Online |
| | maven-snapshots | hosted | maven2 | Online |
| | nuget-group | group | nuget | Online |
| | nuget-hosted | hosted | nuget | Online |
| | nuget.org-proxy | proxy | nuget | Online - Ready to Connect |

STEP 5) Setting server in maven



STEP 6) open your setting.xml on your maven and provide server details

```
112 | <!-- server
113 | | Specifies the authentication information to use when connecting to a particular ser
114 | | a unique name within the system (referred to by the 'id' attribute below).
115 | |
116 | | NOTE: You should either specify username/password OR privateKey/passphrase, since t
117 | | used together.
118 | |
119 | -->
120 | <server>
121 |   <id>lab8</id>
122 |   <username>admin</username>
123 |   <password>01234</password>
124 | </server>
125 |
126 |
127 | <!-- Another sample, using keys to authenticate.
128 | <server>
129 |   <id>siteServer</id>
130 |   <privateKey>/path/to/private/key</privateKey>
131 |   <passphrase>optional; leave empty if not used.</passphrase>
132 | </server>
133 | -->
134 | </servers>
135 |
136 | <!-- mirrors
137 | | This is a list of mirrors to be used in downloading artifacts from remote repositorie
```

STEP 7) Configure pom.xml for project

Provide distribution management

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001
3      <modelVersion>4.0.0</modelVersion>
4      <groupId>com.mycompany</groupId>
5      <artifactId>SONAR</artifactId>
6      <version>1.0-SNAPSHOT</version>
7      <packaging>jar</packaging>
8      <properties>
9          <maven.compiler.source>1.6</maven.compiler.source>
10         <maven.compiler.target>1.6</maven.compiler.target>
11     </properties>
12     <distributionManagement>
13         <snapshotRepository>
14             <id>lab8</id>
15             <name>lab8</name>
16             <url>http://localhost:8081/repository/lab8</url>
17         </snapshotRepository>
18     </distributionManagement>
19     <dependencies>
20         <dependency>
21             <groupId>org.sonarsource.scanner.maven</groupId>
22             <artifactId>sonar-maven-plugin</artifactId>
23             <version>3.7.0.1746</version>
24         </dependency>
25         <dependency>
26             <groupId>org.codehaus.mojo</groupId>
27             <artifactId>sonar-maven-plugin</artifactId>
28             <version>3.4.0.905</version>
29             <type>pom</type>
30         </dependency>
31     </dependencies>
32 </project>
```

STEP 8) Run mvn clean mvn install, and mvn deploy commands by going to your project location

Mvn clean

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR

C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>mvn clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany:SONAR >-----
[INFO] Building SONAR 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ SONAR ---
[INFO] Deleting C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\target
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 0.316 s
[INFO] Finished at: 2020-09-29T11:52:01+05:30
[INFO]
[WARNING] The requested profile "profile1" could not be activated because it does not exist.

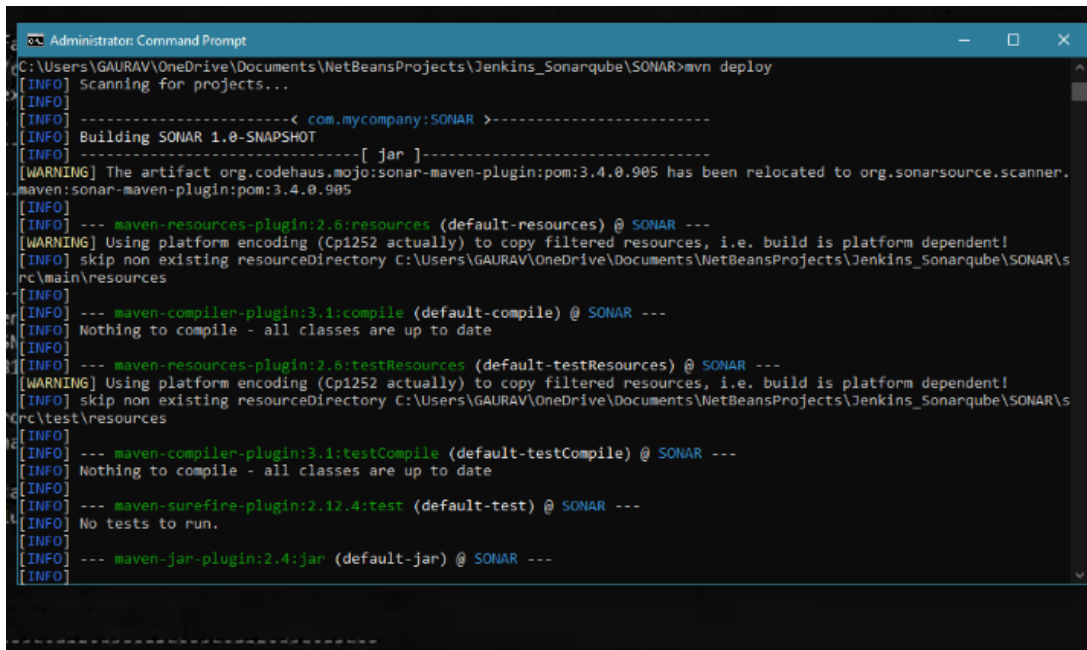
C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>
```

```
Administrator: Command Prompt
C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>mvn install
[INFO] Installing C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\pom.xml to C:\Users\GAURAV\
.m2\repository\com\mycompany\SONAR\1.0-SNAPSHOT\SONAR-1.0-SNAPSHOT.pom
[INFO]
[INFO] --- maven-deploy-plugin:2.7:deploy (default-deploy) @ SONAR ---
Downloading from lab8: http://localhost:8081/repository/lab8/com/mycompany/SONAR/1.0-SNAPSHOT/maven-metadata.xml
Uploading to lab8: http://localhost:8081/repository/lab8/com/mycompany/SONAR/1.0-SNAPSHOT/SONAR-1.0-20200929.062632-1.ja
(2.2 kB at 3.2 kB/s)
Uploading to lab8: http://localhost:8081/repository/lab8/com/mycompany/SONAR/1.0-SNAPSHOT/SONAR-1.0-20200929.062632-1.po
(1.1 kB at 12 kB/s)
Downloading from lab8: http://localhost:8081/repository/lab8/com/mycompany/SONAR/maven-metadata.xml
Uploading to lab8: http://localhost:8081/repository/lab8/com/mycompany/SONAR/maven-metadata.xml (276 B at 4.4 kB/s)
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 2.633 s
[INFO] Finished at: 2020-09-29T11:56:33+05:30
[INFO]
[WARNING] The requested profile "profile1" could not be activated because it does not exist.
C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>
```

Mvn install

```
Administrator: Command Prompt
C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany:SONAR >-----
[INFO] Building SONAR 1.0-SNAPSHOT
[INFO]
[INFO] -----[ jar ]-----
[WARNING] The artifact org.codehaus.mojo:sonar-maven-plugin:pom:3.4.0.905 has been relocated to org.sonarsource.scanner.
maven:sonar-maven-plugin:pom:3.4.0.905
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ SONAR ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\s
rc\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ SONAR ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\target\cla
sses
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ SONAR ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\s
rc\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ SONAR ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ SONAR ---
[INFO] No tests to run.
```

Mvn deploy



```
Administrator Command Prompt
C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>mvn deploy
[INFO] Scanning for projects...
[INFO] -----< com.mycompany:SONAR >-----
[INFO] Building SONAR 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[WARNING] The artifact org.codehaus.mojo:sonar-maven-plugin:pom:3.4.0.905 has been relocated to org.sonarsource.scanner.
maven:sonar-maven-plugin:pom:3.4.0.905
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ SONAR ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\s
rc\main\resources
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ SONAR ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ SONAR ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\s
rc\test\resources
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ SONAR ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ SONAR ---
[INFO] No tests to run.
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ SONAR ---
[INFO]
```

STEP 9) Check nexus build artifact uploaded

