

CI-CD ASSIGNMENT 2

SUBMITTED BY:

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SUBMITTED TO:

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Writing the Source Code

```
Myclass.java  Mytestclass.java
1 public class Myclass {
2
3     public static int findMax(int arr[]) {
4         int max=arr[0];
5         for(int i=1;i<arr.length;i++) {
6             if(max<arr[i])
7                 max=arr[i];
8         }
9         // TODO Auto-generated method stub
10        return max;
11    }
12    public static void main(String[] args)
13    {
14
15        System.out.println(Myclass.findMax(new int[] {1,2,3,4}));
16
17    }
18 }
19
20 }
21
```

Myclass.java Mytestclass.java CICD-Pipeline/pom.xml

```
1<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-NS" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
2  <modelVersion>4.0.0</modelVersion>
3  <groupId>CICD</groupId>
4  <artifactId>CICD-Pipeline</artifactId>
5  <version>0.0.1-SNAPSHOT</version>
6
7  <properties>
8    <maven.compiler.source>1.6</maven.compiler.source>
9    <maven.compiler.target>1.6</maven.compiler.target>
10 </properties>
11
12 <build>
13   <plugins>
14     <plugin>
15       <artifactId>maven-compiler-plugin</artifactId>
16       <version>3.1</version>
17       <configuration>
18         <source>1.7</source>
19         <target>1.7</target>
20         <fork>true</fork>
21         <executable>C:\Program Files\Java\jdk-11.0.8\bin\javac</executable>
22       </configuration>
23     </plugin>
24   </plugins>
25 </build>
26
27 <dependencies>
28   <dependency>
29     <groupId>junit</groupId>
30     <artifactId>junit</artifactId>
31     <version>4.13.1</version>
32     <scope>test</scope>
33   </dependency>
34 </dependencies>
35
36 </project>
```

Importing the Maven Project to a Github Repository

The screenshot shows the GitHub repository page for `vibhav2000 / cicd_lab2_sonar`. The repository is currently on the `master` branch. The commit history shows a series of commits by Vibhav Sharma, with the most recent commit being a "next commit" on 26 Aug. The commit message is "POM UPDATE 3". The commit history table lists the following files and their commit types:

File	Commit Type	Time
..	normal commit	3 months ago
.settings	normal commit	3 months ago
src/main/java	normal commit	3 months ago
.classpath	normal commit	3 months ago
.gitignore	first commit for sonar	3 months ago
.project	first commit for sonar	3 months ago
pom.xml	POM UPDATE 3	3 months ago

Jenkinsfile

The screenshot shows the GitHub repository page for `vibhav2000 / CICD_lab_BlueOcean`. The repository is currently on the `master` branch. The commit history shows a series of commits by vibhav2000, with the most recent commit being a "first commit" on 15 Sep. The commit message is "Jenkinsfile". The commit history table lists the following files and their commit types:

File	Commit Type	Time
..	normal commit	3 months ago
.settings	normal commit	3 months ago
src/main/java	normal commit	3 months ago
.classpath	normal commit	3 months ago
.gitignore	first commit for sonar	3 months ago
.project	first commit for sonar	3 months ago
pom.xml	POM UPDATE 3	3 months ago

Creating a Pipeline project in Jenkins

Pipeline

Definition: Pipeline script from SCM

SCM: Git

Repositories

Repository URL:

Credentials:

Branches to build

Branch Specifier (blank for 'any'):

Repository browser: (Auto)

Additional Behaviours:

Script Path:

Lightweight checkout: ☒

Jenkins > **CICD**

- [Back to Dashboard](#)
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- [Pipeline Syntax](#)
- [GitHub Hook Log](#)

Build History [trend](#)

#1 Nov 1, 2020, 12:02 AM

Pipeline CICD

[Recent Changes](#)

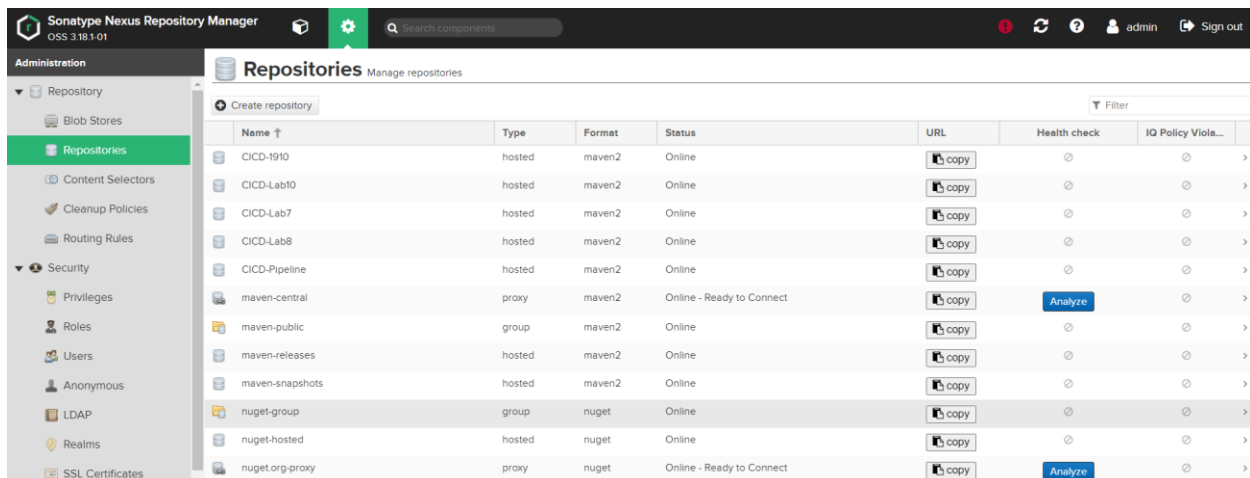
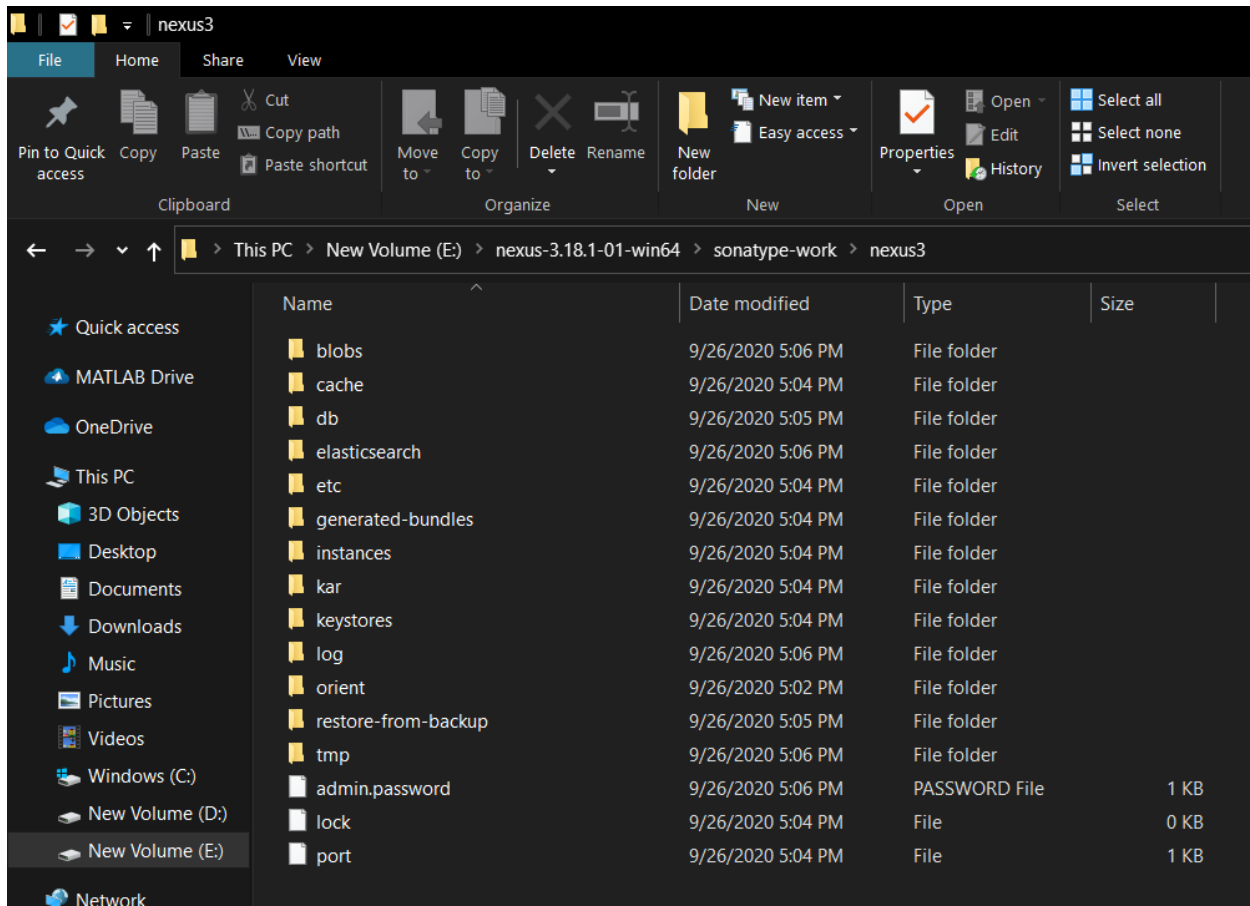
Stage View

Average stage times:
(Average full run time: ~26s)

Declarative: Checkout SCM	Test	Build	Deploy
4s	5s	3s	5s
4s	5s	3s	5s

Nexus

```
D:\OLD lap\study\3rd year\CICD\nexus-3.18.1-01-win64\nexus-3.18.1-01>cd bin  
D:\OLD lap\study\3rd year\CICD\nexus-3.18.1-01-win64\nexus-3.18.1-01\bin>nexus.exe /run
```



Name: A unique identifier for this repository

Online: ☒ If checked, the repository accepts incoming requests

Maven 2

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

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

Storage

Blob store:
Blob store used to store asset contents


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


Hosted


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


Cleanup Policy

Available cleanup policies:
Select a cleanup policy

 CICD-Pipeline

 maven-central

 maven-public

 maven-releases

Copy to clipboard: Ctrl+C, Enter

Close

hosted

maven2

Online

```

<distributionManagement>
<snapshotRepository>
  <id>CICD-Pipeline</id>
  <name>CICD-Pipeline</name>
  <url>http://localhost:8081/repository/CICD-Pipeline/</url>
</snapshotRepository>
</distributionManagement>

</project>

```

settings.xml

```

127 <server>
128   <id>siteServer</id>
129   <privateKey>/path/to/private/key</privateKey>
130   <passphrase>optional; leave empty</passphrase>
131 </server>
132 -->
133
134
135
136 <server>
137   <id>CICD-Pipeline</id>
138   <username>admin</username>
139   <password>admin123</password>
140 </server>
141
142
143 </servers>

```

Sonatype Nexus Repository Manager
OSS 3.18.1-01

Browse / **CICD-Pipeline**

HTML View

- CICD
 - CICD-Pipeline
 - 0.0.1-SNAPSHOT
 - 0.0.1-20201031.183232-1
 - maven-metadata.xml
 - maven-metadata.xml.md5
 - maven-metadata.xml.sha1
 - maven-metadata.xml
 - maven-metadata.xml.md5
 - maven-metadata.xml.sha1

