

Assignment 2

Date:- 20-11-2020

1. Open command line with the path of bin/ folder of the Nexus binary downloaded and type the following command:

Nexus.exe /run

```

Microsoft Prompt - nexus.exe /run
Microsoft Windows [Version 10.0.19042.572]
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C:\Users\Amurag>cd C:\Users\3.18.1\nexus>3.18.1-01\bin
C:\Users\3.18.1\nexus>3.18.1-01\bin\nexus.exe /run
2020-10-15 13:00:28,825:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.pax.logging.NexuslogActivator - start
2020-10-15 13:00:28,880:0530 WARN [FelixStartLevel] *SYSTEM uk.org.lidalia.sysoutslf4j.context.SysOutOversSlf4j - Initializer: Your logging framework class org.ops4j.pax.logging.slf4j.Slf4jLogger is not known - if
the context class will need to register it by calling registerLoggingSystemPackage
2020-10-15 13:00:28,880:0530 INFO [FelixStartLevel] *SYSTEM uk.org.lidalia.sysoutslf4j.context.SysOutOversSlf4j - Package org.ops4j.pax.logging.slf4j registered; all classes within it or subpackages of it will b
e allowed to print to System.out and System.err
2020-10-15 13:00:28,895:0530 INFO [FelixStartLevel] *SYSTEM uk.org.lidalia.sysoutslf4j.context.SysOutOversSlf4j - Replaced standard System.out and System.err PrintStreams with SLF4JPrintStreams
2020-10-15 13:00:28,911:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - Redirected System.out and System.err to SLF4J for this context
2020-10-15 13:00:28,911:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - Properties:
2020-10-15 13:00:28,911:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - application-host='0.0.0.0'
2020-10-15 13:00:28,911:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - application-port='8081'
2020-10-15 13:00:28,911:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - fabric.etc=C:\Users\3.18.1\nexus-3.18.1-01/etc/fabric'
2020-10-15 13:00:28,911:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - jetty.etc=C:\Users\3.18.1\nexus-3.18.1-01/etc/jetty
2020-10-15 13:00:28,920:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karaf-base=C:\Users\3.18.1\nexus-3.18.1-01\
2020-10-15 13:00:28,920:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karaf.data=C:\Users\3.18.1\nexus-3.18.1-01\sonatype-work\nexus3\
2020-10-15 13:00:28,920:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karaf.etc=C:\Users\3.18.1\nexus-3.18.1-01/etc\karaf\
2020-10-15 13:00:28,920:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karaf.home=C:\Users\3.18.1\nexus-3.18.1-01\
2020-10-15 13:00:28,920:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - karaf.instances=C:\Users\3.18.1\nexus-3.18.1-01\sonatype-work\nexus3\instances\
2020-10-15 13:00:28,920:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - logback.etc=C:\Users\3.18.1\nexus-3.18.1-01/etc\logback\
2020-10-15 13:00:28,920:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-args=C:\Users\3.18.1\nexus-3.18.1-01/etc\jetty\jetty.xml,C:\Users\3.18.1\nexus-3.18.1-01/etc\
jetty\jetty-http.xml,C:\Users\3.18.1
2020-10-15 13:00:28,926:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-context-path="/"
2020-10-15 13:00:28,931:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-edition='nexus-pro-edition'
2020-10-15 13:00:28,940:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-features='nexus-pro-feature'
2020-10-15 13:00:28,940:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - nexus-hackstack.discovery.isenabled='true'
2020-10-15 13:00:28,943:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - ssl.etc=C:\Users\3.18.1\nexus-3.18.1-01/etc/ssl\
2020-10-15 13:00:28,944:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.Launcher - Java: 1.8.0_19
2020-10-15 13:00:28,944:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.Launcher - OS: Windows 10, amd64
2020-10-15 13:00:28,944:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.Launcher - User: Amurag, en, C:\Users\Amurag, en
2020-10-15 13:00:28,944:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.Launcher - CMD: C:\Users\3.18.1\nexus-3.18.1-01\
2020-10-15 13:00:28,950:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.Launcher - TMP: C:\Users\3.18.1\nexus-3.18.1-01\sonatype-work\nexus3\tmp
2020-10-15 13:00:28,950:0530 INFO [FelixStartLevel] *SYSTEM org.eclipse.jetty.util.log - Logging initialized @14007ms to org.eclipse.jetty.util.log.Slf4jLog
2020-10-15 13:00:28,951:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Applying configuration: file:C:\Users\3.18.1\nexus-3.18.1-01/etc\jetty\jetty.xml
2020-10-15 13:00:28,951:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Applying configuration: file:C:\Users\3.18.1\nexus-3.18.1-01/etc\jetty\jetty-http.xml
2020-10-15 13:00:28,959:0530 INFO [FelixStartLevel] *SYSTEM org.eclipse.jetty.server.AbstractConnector - Ignoring deprecated socket close linger time
2020-10-15 13:00:28,959:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Applying configuration: file:C:\Users\3.18.1\nexus-3.18.1-01/etc\jetty\jetty-requestlog.xml
2020-10-15 13:00:28,959:0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Starting: Server@321ade3a[STOPPED]@9,4,git.v20190429
2020-10-15 13:00:28,959:0530 INFO [FelixStartLevel] *SYSTEM org.eclipse.jetty.server.Server - Jetty-9.4.18.v20190429; built: 2019-04-29T20:42:08.989Z; git: elbc35120a6617ee3df05c2294e433f3a25ce7097; jvm 1.8.0_192-b
2020-10-15 13:00:28,959:0530 INFO [jetty-main-1] *SYSTEM org.eclipse.jetty.server.session - DefaultSessionIdManager workingName=node0
2020-10-15 13:00:28,959:0530 INFO [jetty-main-1] *SYSTEM org.eclipse.jetty.server.session - No SessionsScavenger set, using defaults
2020-10-15 13:00:28,960:0530 INFO [jetty-main-1] *SYSTEM org.eclipse.jetty.server.session - node0 Scavenging every 60000ms
2020-10-15 13:00:28,961:0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.Bootstraplister - Initializing
2020-10-15 13:00:28,961:0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.Bootstraplister - Loading OSGi Edition
2020-10-15 13:00:28,961:0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.Bootstraplister - Installing: nexus-oss-edition@3.18.1.01
2020-10-15 13:00:28,967:0530 INFO [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.osgi.Bootstraplister - Installed: nexus-oss-edition@3.18.1.01

```

Simultaneously run the Jenkins command to run Jenkins server using command `java -jar`

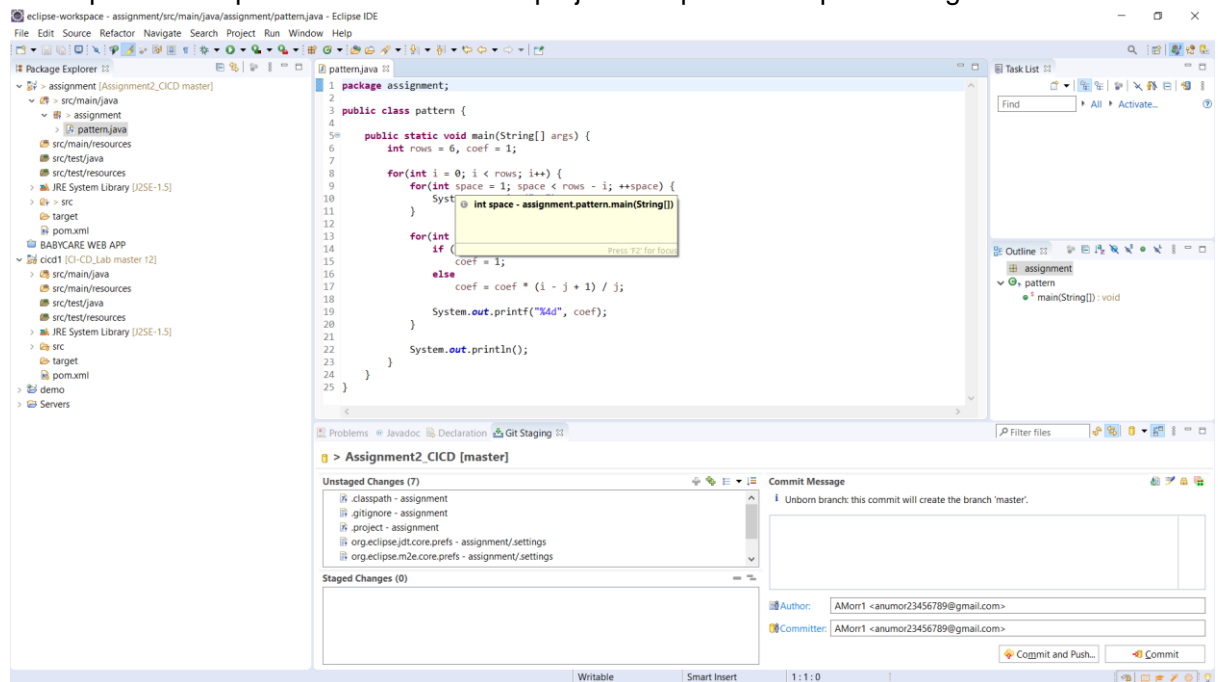
Jenkins.war

```

C:\Users\Aurag> java -jar jenkins-war
C:\Program Files\Jenkins\Jenkins>
C:\Program Files\Jenkins\Jenkins>
Running from: C:\Program Files\Jenkins\Jenkins-war
Subroot: $user.home/.jenkins
2020-10-15 07:31:37.160+0000 [d=1] INFO org.eclipse.jetty.util.log.Log:Initializing: Logging initialized @1958ms to org.eclipse.jetty.util.log.JavaUtilLog
2020-10-15 07:31:37.132+0000 [d=1] INFO winstone.Logger$LogInterval: Beginning extraction from war file
2020-10-15 07:31:37.139+0000 [d=1] WARNING o.e.j.s.handler.ContextHandler$setContextPath: Empty contextPath
2020-10-15 07:31:37.156+0000 [d=1] INFO org.eclipse.jetty.server.Server$doStart: Jetty-9.4.0.v20200610; built: 2020-06-11T12:34:51.929Z; git: 27181b6dc14612712b7b165a92972634b4d; jvm 11.0.10-LTS
o.e.j.s.StandardDescriptorProcessor$writeServlets: NO JSP Support for org.eclipse.jetty.jsp.JettyJspServlet
o.e.j.s.s.DefaultSessionManager$doStart: DefaultSessionManager workerName=me00
o.e.j.s.s.DefaultSessionManager$doStart: NO SessionSaver/etj set, using defaults
o.e.j.s.session.SessionHousekeeper$startScavenging: me00 Scavenging every 666000ms
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.Fields (file:/C:/Users/Aurag/.jenkins-war/WEB-INF/lib/xstream-1.4.7-jenkins-1.jar) to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2020-10-15 07:31:40.344+0000 [d=1] INFO Hudson.WebAppMain$contextInitialized: Jenkins home directory: C:\Users\Aurag\jenkins found at: $user.home/.jenkins
o.e.j.s.handler.ContextHandler$doStart: Started w.@0m Jenkins v2.252.1 file:/C:/Users/Aurag/.jenkins-war/AVAILABLE/C:\Users\Aurag/.jenkins-war/
o.e.j.s.server.AbstractConnector$doStart: Started ServerConnector@7734229[HTTP/1.1, http://0.0.0.0:8080]
org.eclipse.jetty.server.Server$doStart: Started @554ms
winstone.Logger$LogInterval: Winstone Servlet engine running: controlPort=disabled
2020-10-15 07:31:40.750+0000 [d=1] INFO Jenkins.InitReactorRunner$doStart: Started initialization
2020-10-15 07:31:40.751+0000 [d=1] INFO Jenkins.InitReactorRunner$doStart: Listed all plugins
2020-10-15 07:31:41.545+0000 [d=1] INFO Jenkins.InitReactorRunner$doStart: Prepared all plugins
2020-10-15 07:31:43.616+0000 [d=3] INFO Jenkins.InitReactorRunner$doStart: Started all plugins
2020-10-15 07:31:43.639+0000 [d=3] INFO Jenkins.InitReactorRunner$doStart: Augmented all extensions
2020-10-15 07:32:04.719+0000 [d=32] INFO Jenkins.InitReactorRunner$doStart: System config loaded
2020-10-15 07:32:04.727+0000 [d=39] INFO Jenkins.InitReactorRunner$doStart: System config adapted
2020-10-15 07:32:06.549+0000 [d=38] INFO Jenkins.InitReactorRunner$doStart: Loaded all jobs
2020-10-15 07:32:06.549+0000 [d=41] INFO Jenkins.InitReactorRunner$doStart: Configuration for all jobs updated
2020-10-15 07:32:06.634+0000 [d=40] INFO Hudson.model.AsyncProcrystallize$doStart: Started download metadata
2020-10-15 07:32:06.671+0000 [d=46] INFO Hudson.model.AsyncProcrystallize$doStart: Attempt #1 to do the action updates server
o.j.main.modules.Sshd.SSHDStart: Started SSHD at port 63784
2020-10-15 07:32:06.954+0000 [d=34] INFO o.s.c.s.AbstractApplicationContext$prepareRefresh: Refreshing org.springframework.web.context.support.StaticWebApplicationContext@73ffbb0a: display name [Root WebApplicationContext]; startup date [Thu Oct 15 07:32:06 IST 2020]; root of context hierarchy
2020-10-15 07:32:06.954+0000 [d=34] INFO o.s.c.s.AbstractApplicationContext$prepareRefresh: Bean factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@73ffbb0a]: org.springframework.beans.factory.support.DefaultListableBeanFactory@cb90883
o.s.b.f.s.DefaultListableBeanFactory$preInstantiateSingletons: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@cb90883:
2020-10-15 07:32:07.024+0000 [d=34] INFO o.s.c.s.AbstractApplicationContext$prepareRefresh: Refreshing org.springframework.web.context.support.StaticWebApplicationContext@77b07f1f: display name [Root WebApplicationContext]; startup date [Thu Oct 15 07:32:07 IST 2020]; root of context hierarchy
2020-10-15 07:32:07.024+0000 [d=34] INFO o.s.c.s.AbstractApplicationContext$prepareRefresh: Bean factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@77b07f1f]: org.springframework.beans.factory.support.DefaultListableBeanFactory@8402b8e2
o.s.b.f.s.DefaultListableBeanFactory$preInstantiateSingletons: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@8402b8e2: defining beans (filter,legacy); root of factory hierarchy
2020-10-15 07:32:07.200+0000 [d=34] INFO Jenkins.InitReactorRunner$doStart: Completed initialization
2020-10-15 07:32:08.005+0000 [d=24] INFO Hudson.WebAppMain$doRun: Jenkins is fully up and running
2020-10-15 07:33:02.761+0000 [d=60] INFO h.m.DownloadService$Download$doLoad: Obtained the updated data file for Hudson tasks Maven MavenInstaller
2020-10-15 07:33:02.772+0000 [d=60] INFO h.m.DownloadService$Download$doLoad: Obtained the updated data file for Hudson tasks Art. Installer
2020-10-15 07:33:04.121+0000 [d=60] INFO h.m.DownloadService$Download$doLoad: Obtained the updated data file for Hudson tasks Jenkins JenkinsInstaller

```

2. Go to Jenkins and configure the settings of Nexus.
3. Now open the Eclipse and make a maven project and push the repo on the git.



4. Now make a Jenkinsfile .
5. Now make a new item “write name of the project and select as we are using maven command.
6. Now in maven goal write deploy and in github provide the git repo link which have the pom.xml change with dependencies.

Blackboard Learn

Object Oriented Analysis

Sexus Lab #2 Console Jenkins

Bb Collaborate - Cont...

Repositories - Nexus Lab #2 Console Jenkins

AMorri1/CI-CD_Lab.git

localhost:8080/job/Nexus_Lab2/console

Apps

My Institution - Bla...

Join GitHub - GitHub

Online Courses - A...

HackerRank

University of Petrol...

B.Tech. Computer S...

Article Rewriter Too...

UWatchFree | Watac...

Create a Simple Jav...

Dashboard

Nexus_Lab

#2

Back to Project

Status

Changes

Console Output

View as plain text

Edit Build Information

Git Build Data

No Tags

Monitor Maven Process

Open Blue Ocean

Previous Build

Progress: 100%

Started by user Anurag Mar

Running as SYSTEM

Building in workspace C:\WINDOWS\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\workspace\Nexus_Lab

The recommended git tool is: NONE

No credentials specified

> git.exe rev-parse --is-inside-work-tree # timeout=10

Fetching changes from the remote Git repository

> git.exe config remote.origin.url https://github.com/AMorri1/CI-CD_Lab.git # timeout=10

Fetching upstream changes from https://github.com/AMorri1/CI-CD_Lab.git

> git.exe --version # timeout=10

> git --version "git version 2.27.0.windows.1"

> git.exe fetch --tags --force --progress -- https://github.com/AMorri1/CI-CD_Lab.git +refs/heads/*:refs/remotes/origin/* # timeout=10

> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10

Checking out Revision 90347083bd275900d58c025f661ca6ed207c451 (refs/remotes/origin/master)

> git.exe config core.sparsecheckout # timeout=10

> git.exe checkout -f 90347083bd275900d58c025f661ca6ed207c451 # timeout=10

Commit message: "Update pom.xml"

> git.exe rev-list --no-walk 90347083bd275900d58c025f661ca6ed207c451 # timeout=10

[Checks API] No suitable checks publisher found.

Parsing POMs

Discovered a new module cicd:cicd1

Modules changed, recalculating dependency graph

Established TCP socket on 51744

[Nexus_Lab] \$ "C:\Program Files\Java\jdk-11.0.8\bin/java" -cp C:\WINDOWS\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven35-agent-

1.13.jar;C:\WINDOWS\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\tools\hudson.tasks.Maven_MavenInstallation\C_Program_Files_apache-maven-

3.6.3\boot\plexus-classworlds-

2.6.0.jar;C:\WINDOWS\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\tools\hudson.tasks.Maven_MavenInstallation\C_Program_Files_apache-maven-

3.6.3\conf\logging-jenkins.maven3.agent.Maven3Main

C:\WINDOWS\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\tools\hudson.tasks.Maven_MavenInstallation\C_Program_Files_apache-maven-3.6.3

C:\Windows\System32\config\systemprofile\AppData\Local\Jenkins\WEB-INF\lib\remoting-4.5.4.jar

C:\WINDOWS\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven35-interceptor-1.13.jar

C:\WINDOWS\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven35-interceptor-commons-1.13.jar 51744

<==[JENKINS.REMOTEING_CAPACITY]==>channel started

The screenshot shows the Sonatype Nexus Repository Manager web interface. The top navigation bar includes links for 'Browse', 'Search', 'Upload', and 'Advanced search...'. The main content area displays the 'Browse' view for the 'CICD' repository. A tree structure of artifacts is visible, starting with 'devops_b2_lab2' and '0.01-SNAPSHOT'. Under '0.01-SNAPSHOT', there are several artifacts including 'devops_b2_lab2-0.01-20200926.1632234-1.jar', 'devops_b2_lab2-0.01-20200926.1632234-1.jar.md5', 'devops_b2_lab2-0.01-20200926.1632234-1.jar.sha1', 'devops_b2_lab2-0.01-20200926.1632234-1.pom', 'devops_b2_lab2-0.01-20200926.1632234-1.pom.md5', and 'devops_b2_lab2-0.01-20200926.1632234-1.pom.sha1'. Below these, there are 'maven-metadata.xml' artifacts with their respective MD5 and SHA1 checksums.