# **Experiment No. 9**

# **Uploading Artifacts on Nexus Server using Command Line**

#### Download nexus:

Name	~	Date modified	Туре	Size
nexus-3.18.1-01		10/6/2020 1:21 PM	File folder	
sonatype-work		10/6/2020 1:21 PM	File folder	

#### Run nexus on command line:

```
D:\A semester 5\CICD\nexus\nexus-3.18.1-01\bin>nexus.exe /run
2020-10-13 16:16:26,461+0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.pax.logging.NexusLogActivator - start
2020-10-13 16:17:21,047+0530 WARN [FelixStartLevel] *SYSTEM uk.org.lidalia.sysoutslf4j.context.SysOutOverSLF4JInitialiser - Your logging framework class org.ops4j.p.
it needs access to the standard println methods on the console you will need to register it by calling registerLoggingSystemPackage
2020-10-13 16:17:21,049+0530 INFO [FelixStartLevel] *SYSTEM uk.org.lidalia.sysoutslf4j.context.SysOutOverSLF4J - Package org.ops4j.pax.logging.slf4j registered; all
 allowed to print to System.out and System.err
2020-10-13 16:17:21,056+0530 INFO [FelixStartLevel] *SYSTEM uk.org.lidalia.sysoutslf4j.context.SysOutOverSLF4J - Replaced standard System.out and System.err PrintSt
                                   [FelixStartLevel] *SYSTEM uk.org.lidalia.sysoutslf4j.context.SysOutOverSLF4J - Redirected System.out and System.err to SLF4J for t
2020-10-13 16:17:21,061+0530 INFO
                                  [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - Properties:
2020-10-13 16:17:21,072+0530 INFO
2020-10-13 16:17:21,074+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                  application-host='0.0.0.0'
                                  [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
2020-10-13 16:17:21,075+0530 INFO
                                                                                                                   application-port='8083'
2020-10-13 16:17:21,076+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                   fabric.etc='D:\A_semester_5\CICD\nexus\nexus-3.18.
2020-10-13 16:17:21,076+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                   jetty.etc='D:\A_semester_5\CICD\nexus\nexus-3.18.1
2020-10-13 16:17:21,077+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                   karaf.base='D:\A_semester_5\CICD\nexus\nexus-3.18
                                                                                                                   karaf.data='D:\A semester 5\CICD\nexus\sonatype-w
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
2020-10-13 16:17:21,077+0530 INFO
                                                                                                                  karaf.etc='D:\A_semester_5\CICD\nexus\nexus-3.18.1
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
2020-10-13 16:17:21,078+0530 INFO
2020-10-13 16:17:21,079+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                   karaf.home='D:\A semester 5\CICD\nexus\nexus-3.18.
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                   karaf.instances='D:\A_semester_5\CICD\nexus\sonaty
2020-10-13 16:17:21,080+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
2020-10-13 16:17:21,080+0530 INFO
                                                                                                                   logback.etc='D:\A_semester_5\CICD\nexus\nexus-3.18
. 2020-10-13 16:17:21,081+0530 INFO [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder
                                                                                                                   nexus-args='D:\A_semester_5\CICD\nexus\nexus-3.18.
nexus\nexus-3.18.1-01/etc/jetty/jetty-http.xml,D:\A_semester_5\CICD\nexus\nexus-3.18.1-01/etc/jetty/jetty-requestlog.xml'
                                  [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                  nexus-context-path='/'
2020-10-13 16:17:21,081+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
2020-10-13 16:17:21,082+0530 INFO
                                                                                                                  nexus-edition='nexus-pro-edition'
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                  nexus-features='nexus-pro-feature'
2020-10-13 16:17:21,082+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder -
                                                                                                                  nexus.hazelcast.discovery.isEnabled='true'
2020-10-13 16:17:21,083+0530 INFO
2020-10-13 16:17:21,083+0530 INFO
                                   [FelixStartLevel] *SYSTEM org.sonatype.nexus.bootstrap.ConfigurationBuilder - ssl.etc='D:\A_semester_5\CICD\nexus\nexus-3.18.1-0
```

#### Default port for nexus is 8081, it can be changed in nexus-default file:

```
rile Edit Format View Help

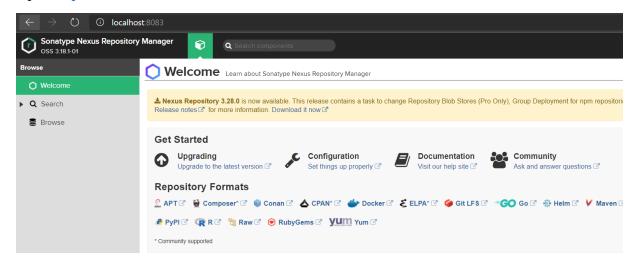
## DO NOT EDIT - CUSTOMIZATIONS BELONG IN $data-
##

# Jetty section
application-port=8083
application-host=0.0.0
nexus-args=${jetty.etc}/jetty.xml,${jetty.etc}/jetxus-context-path=/

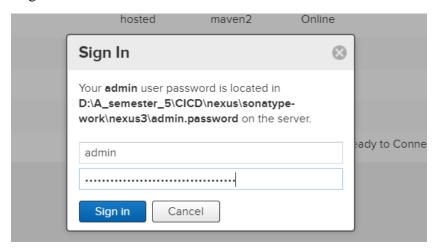
# Nexus section
nexus-edition=nexus-pro-edition
nexus-features=\
nexus-pro-feature

nexus.hazelcast.discovery.isEnabled=true
```

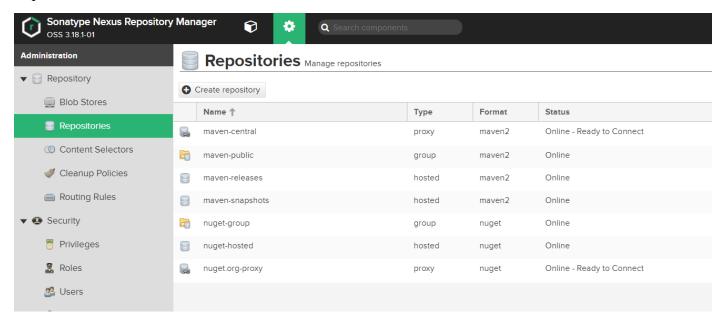
# Open <a href="http://localhost:8083">http://localhost:8083</a> on browser:



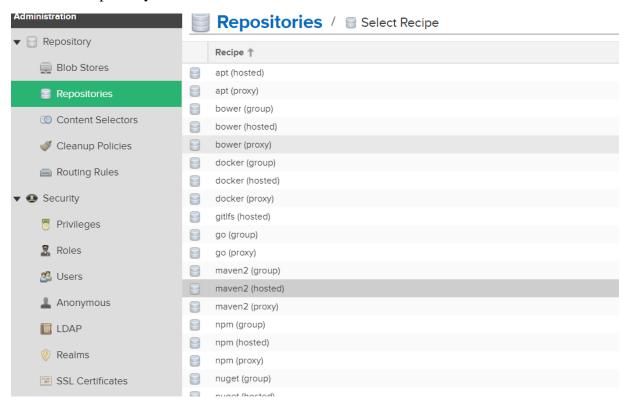
## Login:

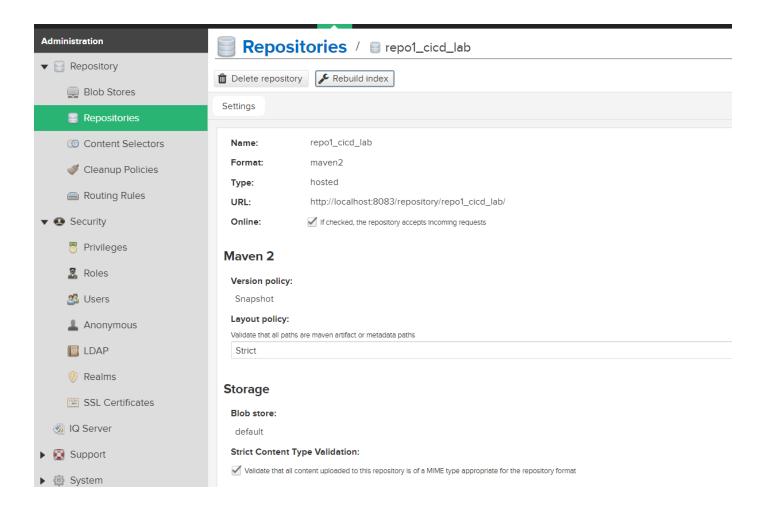


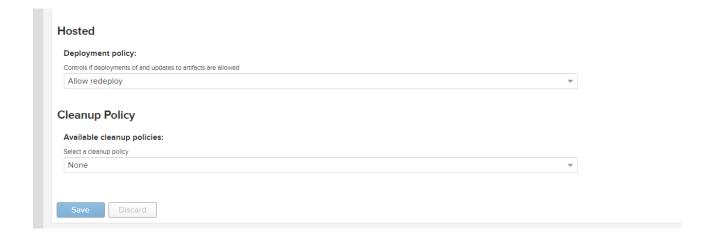
# Repositories:



## Create new repository:







### Create maven project:

### settings.xml

```
settings - Notepad
File Edit Format View Help
    <server>
      <id>deploymentRepo</id>
      <username>repouser</username>
      <password>repopwd</password>
    </server>
    -->
   <!-- Another sample, using keys to authenticate.
   <server>
      <id>siteServer</id>
     <privateKey>/path/to/private/key</privateKey>
      <passphrase>optional; leave empty if not used.</passphrase>
    </server>
    -->
(server)
<id>lab9</id>
<username>admin</username>
<password>admin
</server>
 </servers>
    This is a list of mirrors to be used in downloading artifacts from remote repositories.
    It works like this: a POM may declare a repository to use in resolving certain artifacts.
    However this parasitable may have problems with heavy traffic at times
```

```
pom - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="UTF-8"?>
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.mycompany.app</groupId>
 <artifactId>app-on-nexus</artifactId>
 <version>1.0-SNAPSHOT</version>
 properties>
   <maven.compiler.source>1.7</maven.compiler.source>
   <maven.compiler.target>1.7</maven.compiler.target>
 </properties>
<distributionManagement>
<snapshotRepository>
<id>lab9</id>
<name>repo1 cicd lab</name>
<url>http://localhost:8083/repository/repo1 cicd lab/</url>
</snapshotRepository>
</distributionManagement>
 <dependencies>
   <dependency>
     <groupId>junit
     <artifactId>junit</artifactId>
     <version>4.11</version>
     <scope>test</scope>
   </dependency>
 </dependencies>
 <build>
   <pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->
     <plugins>
       <!-- clean lifecycle, see https://maven.apache.org/ref/current/maven-core/lifecycles.html#clean_Lifecycle -->
```

#### Run "mvn clean"

<plugin>

<artifactId>maven-clean-plugin</artifactId>

<version>3.1.0

	10/13/2020 4:30 PM	File folder	
pom	10/13/2020 4:48 PM	XML Document	1 KB

#### Run "mvn install"

```
D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus>
D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus>mvn install
[INFO] Scanning for projects...
[INFO]
INFO] Building app-on-nexus 1.0-SNAPSHOT
                  -----[ jar ]------
[INFO] -----
INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ app-on-nexus ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\src\main\resources
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ app-on-nexus ---
INFO] Nothing to compile - all classes are up to date
INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ app-on-nexus ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
INFO] skip non existing resourceDirectory D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\src\test\resources
INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ app-on-nexus ---
[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 D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ app-on-nexus ---
INFO]
INFO] TESTS
[INFO] -----
INFO] Running com.mycompany.app.AppTest
INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.049 s - in com.mycompany.app.AppTest
[INFO]
[INFO] Results:
[INFO]
INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
TNF01
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ app-on-nexus ---
INFO] Building jar: D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\target\app-on-nexus-1.0-SNAPSHOT.jar
INF01
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ app-on-nexus ---
INFO] Installing D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\target\app-on-nexus-1.0-SNAPSHOT.jar to C:\Users\akkan\.m2\
INFO] Installing D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\pom.xml to C:\Users\akkan\.m2\repository\com\mycompany\app\
INFO] -----
INFO] BUILD SUCCESS
```

### Target folder created:

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↓ src	10/13/2020 4:30 PM	File folder	
target	10/13/2020 4:51 PM	File folder	
pom	10/13/2020 4:54 PM	XML Document	3 KB

Run "mvn deploy" to upload the project on nexus repository:

```
D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus>mvn deploy
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany.app:app-on-nexus >------
[INFO] Building app-on-nexus 1.0-SNAPSHOT
[INFO] ------[ jar ]------
[INFO]
INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ app-on-nexus ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\src\main\resources
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ app-on-nexus ---
[INFO] Nothing to compile - all classes are up to date
INFO]
INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ app-on-nexus ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ app-on-nexus ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
INFO]
      --- maven-surefire-plugin:2.22.1:test (default-test) @ app-on-nexus ---
INFO]
[INFO] -----
[INFO] TESTS
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.049 s - in com.mycompany.app.AppTest
INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ app-on-nexus ---
INF01
      --- maven-install-plugin:2.5.2:install (default-install) @ app-on-nexus ---
INFO]
INFO] Installing D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\target\app-on-nexus-1.0-SNAPSHOT.jar to C:\Users\akkan\.m2\re
[INFO] Installing D:\A_semester_5\CICD\CICD LAB\lab3\app-on-nexus\pom.xml to C:\Users\akkan\.m2\repository\com\mycompany\app\ap
[INFO] --- maven-deploy-plugin:2.8.2:deploy (default-deploy) @ app-on-nexus ---
Downloading from lab9: http://localhost:8083/repository/repo1_cicd_lab/com/mycompany/app/app-on-nexus/1.0-SNAPSHOT/maven-metada
Uploading to lab9: http://localhost:8083/repository/repo1_cicd_lab/com/mycompany/app/app-on-nexus/1.0-SNAPSHOT/app-on-nexus-1.0
Uploading to lab9: http://localhost:8083/repository/repo1_cicd lab/com/mycompany/app/app-on-nexus/maven-metadata.xml
Uploaded to lab9: http://localhost:8083/repository/repo1_cicd_lab/com/mycompany/app/app-on-nexus/maven-metadata.xml (287 B at 1.9 kB/s)
[INFO] ------
[INFO] BUILD SUCCESS
[INFO] Total time: 7.574 s
INFO] Finished at: 2020-10-13T16:55:46+05:30
INFO] -----
```

## Artifact uploaded on nexus server:

