

# EXPERIMENT-10

**AIM:** Uploading artifacts on Nexus server using command line

The screenshot displays the Sonatype Nexus Repository Manager web interface in a Mozilla Firefox browser. The address bar shows the URL `localhost:8081/#admin/repository/repositories`. The browser's tab bar includes several open tabs, with the active one being 'Repositories - Nexus'. The interface features a dark sidebar on the left with navigation options under 'Administration' (Repository, Blob Stores, Repositories, Content Selectors, Cleanup Policies, Routing Rules) and 'Security' (Privileges, Roles, Users, Anonymous, LDAP, Realms, SSL Certificates, IQ Server). The main content area is titled 'Repositories' and shows the configuration for a repository named 'cicd-nexus'. The configuration includes a 'Name' field with the value 'cicd-nexus', an 'Online' checkbox that is checked, a 'Version policy' dropdown set to 'Snapshot', a 'Layout policy' dropdown set to 'Strict', a 'Blob store' dropdown set to 'default', and a 'Strict Content Type Validation' checkbox that is checked. The top of the interface shows the Sonatype Nexus Repository Manager logo and version 'OSS 3.18.1-01'.

Applications ▾ Places ▾ Firefox ESR ▾ Sat Sep 26 1:20 PM 1 93 % ▾

Repositories - Nexus Rep Manager - Mozilla Firefox

localhost:8081/#admin/repository/repositories

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Sonatype Nexus Repository Manager OSS 3.18.1-01

Administration

- Repository
  - Blob Stores
  - Repositories**
  - Content Selectors
  - Cleanup Policies
  - Routing Rules
- Security
  - Privileges
  - Roles
  - Users
  - Anonymous
  - LDAP
  - Realms
  - SSL Certificates
  - IQ Server

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

**Name:** A unique identifier for this repository  
cicd-nexus

**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

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Repositories - Nexus Repository Manager - Mozilla Firefox

localhost:8081/#admin/repository/repositories

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Sonatype Nexus Repository Manager OSS 3.18.1-01

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  - SSL Certificates
  - IQ Server

## Repositories

Select Recipe / Create Repository: maven2 (hosted)

### 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

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Sonatype Nexus Repository Manager OSS 3.18.1-01

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  - SSL Certificates
  - IQ Server

## Repositories

Manage repositories

Create repository Filter

Name ↑	Type	Format	Status	URL	Health check	IQ Policy Violat...
cicd-nexus	hosted	maven2	Online	copy		
maven-central	proxy	maven2	Online - Ready to Connect	copy	Analyze	
maven-public	group	maven2	Online	copy		
maven-releases	hosted	maven2	Online	copy		
maven-snapshots	hosted	maven2	Online	copy		
nuget-group	group	nuget	Online	copy		
nuget-hosted	hosted	nuget	Online	copy		
nuget.org-proxy	proxy	nuget	Online - Ready to Connect	copy	Analyze	

Applications ▾ Places ▾ Text Editor ▾ Sat Sep 26 1:30 PM

Open ▾ Save

*\*src/main/resources/conf*  
/usr/share/maven/conf

a unique name within the system (referred to by the `id` attribute below).

NOTE: You should either specify username/password OR privateKey/passphrase, since these pairings are used together.

```
<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>nexus-cicd</id>
<username>admin</username>
<password>admin</password>
</server>
</servers>

<!-- mirrors
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 repository may have problems with heavy traffic at times, so people have mirrored
it to several places.

That repository definition will have a unique id, so we can create a mirror reference for that
repository, to be used as an alternate download site. The mirror site will be the preferred
server for that repository.
-->
```

XML ▾ Tab Width: 8 ▾ Ln 137, Col 29 ▾ INS

Applications ▾ Places ▾ Terminal ▾ Sat Sep 26 1:36 PM

root@anonymous:

root@anonymous:~/eclipse-workspace/lab03# mvn clean

WARNING: An illegal reflective access operation has occurred  
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.\$ReflectUtils\$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)  
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.\$ReflectUtils\$1  
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

[INFO] Scanning for projects...

[INFO] -----< Devops:lab03 >-----

[INFO] Building lab03 0.0.1-SNAPSHOT

[INFO] -----[ jar ]-----

[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ lab03 ---

[INFO] Deleting /root/eclipse-workspace/lab03/target

[INFO] BUILD SUCCESS

[INFO] -----

[INFO] Total time: 1.377 s

[INFO] Finished at: 2020-09-26T13:34:57+05:30

[INFO] -----

root@anonymous:~/eclipse-workspace/lab03# mvn install

WARNING: An illegal reflective access operation has occurred  
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.\$ReflectUtils\$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)  
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.\$ReflectUtils\$1  
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

[INFO] Scanning for projects...

[INFO] -----< Devops:lab03 >-----

[INFO] Building lab03 0.0.1-SNAPSHOT

[INFO] -----[ jar ]-----

[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ lab03 ---

[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!

[INFO] Copying 0 resource

[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ lab03 ---

```
Applications ▾ Places ▾ Terminal ▾ Sat Sep 26 1:36 PM
root@anonymous: /eclipse-workspace/lab03

[INFO] Installing /root/.eclipse-workspace/lab03/target/lab03-0.0.1-SNAPSHOT.jar to /root/.m2/repository/Devops/lab03/0.0.1-SNAPSHOT/lab03-0.0.1-SNAPSHOT.jar
[INFO] Installing /root/.eclipse-workspace/lab03/pom.xml to /root/.m2/repository/Devops/lab03/0.0.1-SNAPSHOT/lab03-0.0.1-SNAPSHOT.pom
[INFO] BUILD SUCCESS
[INFO] Total time: 6.488 s
[INFO] Finished at: 2020-09-26T13:35:17+05:30
[INFO]

root@anonymous:~/eclipse-workspace/lab03# mvn deploy
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
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
[INFO] Scanning for projects...
[INFO]
[INFO] -----< Devops:lab03 >-----
[INFO] Building lab03 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ lab03 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ lab03 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ lab03 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ lab03 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ lab03 ---
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ lab03 ---
```

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Browse - Nexus Repos nager - Mozilla Firefox

localhost:8081/#browse/browse:cicd-nexus

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Sonatype Nexus Repository Manager OSS 3.18.1-01 Search components admin Sign out

**Browse**

- Welcome
- Search
  - Custom
  - Maven
  - NuGet
- Browse**
- Upload

**Browse** / cicd-nexus

HTML View [Advanced search...](#)

- Devops
  - lab03
    - 0.0.1-SNAPSHOT
      - 0.0.1-20200926.080536-1
        - lab03-0.0.1-20200926.080536-1.jar
        - lab03-0.0.1-20200926.080536-1.jar.md5
        - lab03-0.0.1-20200926.080536-1.jar.sha1
        - lab03-0.0.1-20200926.080536-1.pom
        - lab03-0.0.1-20200926.080536-1.pom.md5
        - lab03-0.0.1-20200926.080536-1.pom.sha1
      - maven-metadata.xml
      - maven-metadata.xml.md5
      - maven-metadata.xml.sha1
    - maven-metadata.xml
    - maven-metadata.xml.md5
    - maven-metadata.xml.sha1