NEXUS SETUP AND INTEGRATED TO JENKINS

STEP-1: LAUNCH INSTANCE WITH T2.MEDIUM AND 8081 PORT AND 20 GB OF EBS VOLUME

STEP-2: INSTALL JAVA1.8.0 AS THE NEXUS DEPENDENCY

STEP-3: CREATE A FOLDER (**mkdir /app**)

SETP-4: GO TO FOLDER (**cd /app**)

STEP-5: DOWNLOAD THE NEUXS (**wget -O nexus.tar.gz https://download.sonatype.com/nexus/3/latest-unix.tar.gz**)

STEP-6: UNTAR THE FILE (tar -zxvf filename)

STEP-7: RENAME THE NEXUS FILE (from nexus-3* to nexus)

STEP-8: ADD NEXUS USER (**useradd nexus**)

STEP-9: CHANGE THE OWNERS OF THE FILES (chown -R nexus:nexus file_names)

STEP-10: CHANGE nexus.rc file (vim nexus/bin/nexus.rc)

```
run_as_user="nexus"
```

STEP-11: WRITE A SCRIPT TO RUN NEXUS (vi /etc/systemd/system/nexus.service)

```
[Unit]

Description=nexus service

After=network.target



[Service]

Type=forking

LimitNOFILE=65536
```

```
User=nexus

Group=nexus

ExecStart=/app/nexus/bin/nexus start

ExecStop=/app/nexus/bin/nexus stop

User=nexus

Restart=on-abort



[Install]

WantedBy=multi-user.target
```

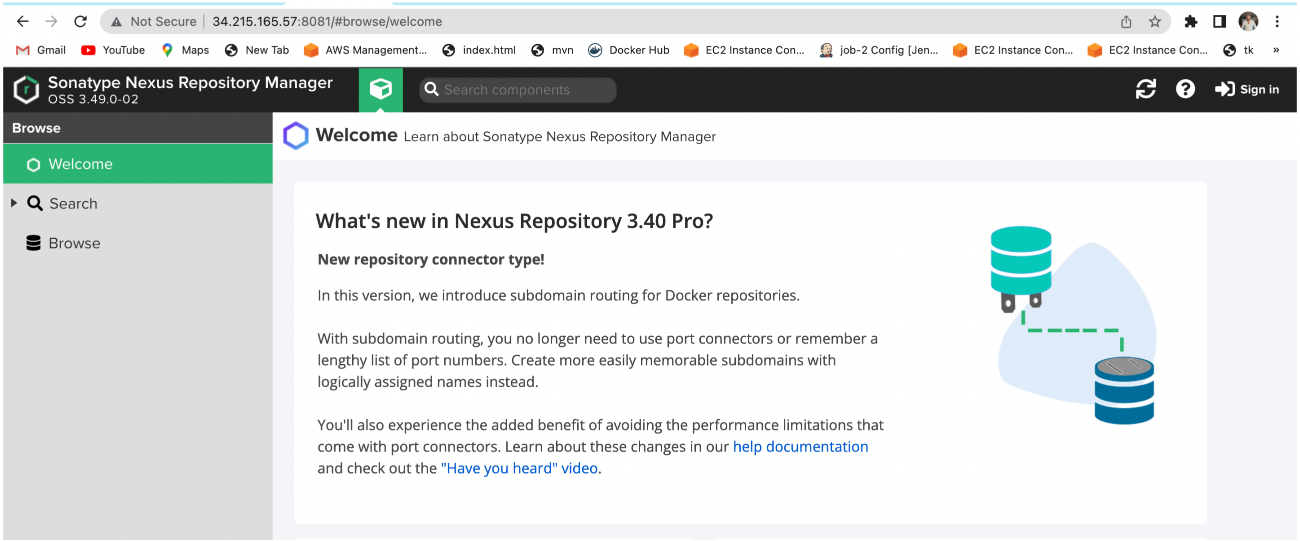
STEP-12: CHECK THE CONFIGURATION (chkconfig nexus on)

STEP-13: START THE NEXUS (systemctl start nexus)

STEP-14: CHECK THE STATUS (systemctl status nexus)

STEP-15: CONNECT TO NEXUS (public:8081)

AFTER LOGIN INTO NEXUS SIGN OUT FROM THE DASHBOARD, BECAUSE THAT IS THE DEFAULT PAGE, WE NEED TO CREATE OUR BY OWN



Welcome Learn about Sonatype Nexus Repository Manager

What's new in Nexus Repository 3.40 Pro?

New repository connector type!

In this version, we introduce subdomain routing for Docker repositories.

With subdomain routing, you no longer need to use port connectors or remember a lengthy list of port numbers. Create more easily memorable subdomains with logically assigned names instead.

You'll also experience the added benefit of avoiding the performance limitations that come with port connectors. Learn about these changes in our help documentation and check out the "Have you heard" video.

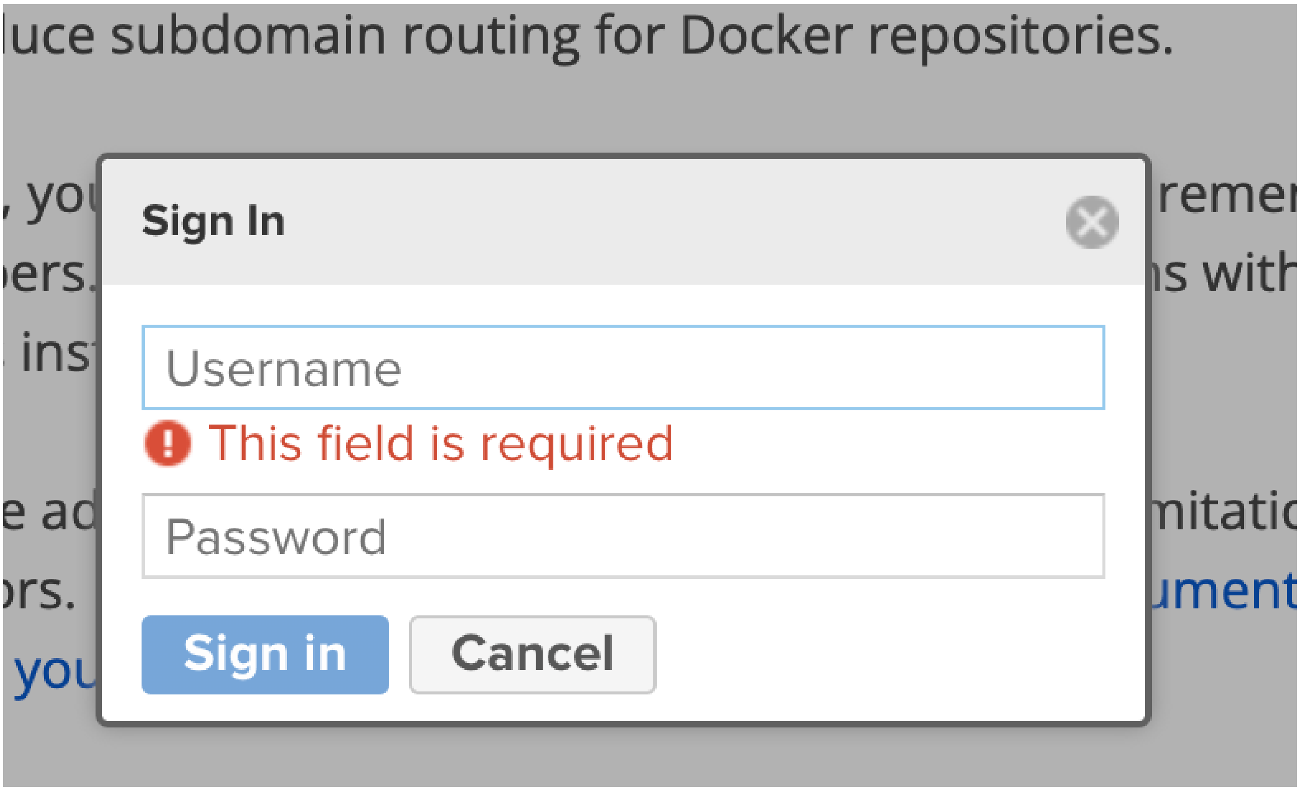
CLICK ON **SIGN-IN**

IT WILL ASKS THE USER NAME & PASSWORD

USERNAME: admin

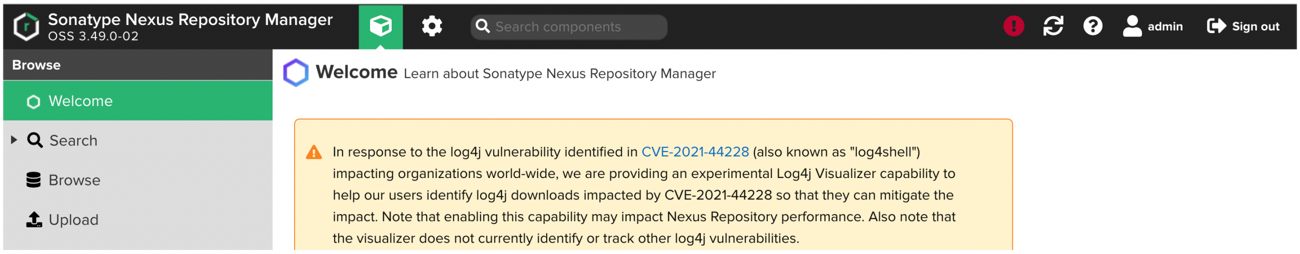
PASSWORD: cat /app/sonatype-work/nexus3/admin.password

use this command in our server to get the password and paste it into our nexus dashboard



uce subdomain routing for Docker repositories.

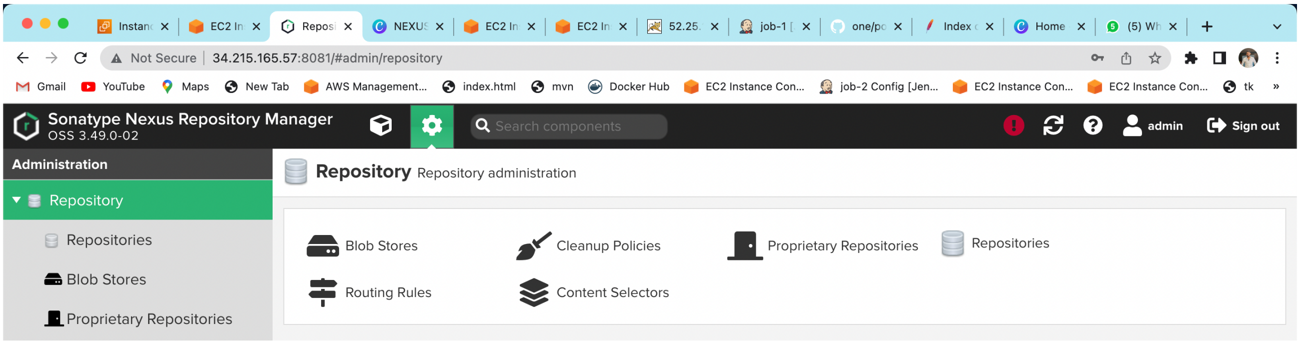
This field is required



Welcome Learn about Sonatype Nexus Repository Manager

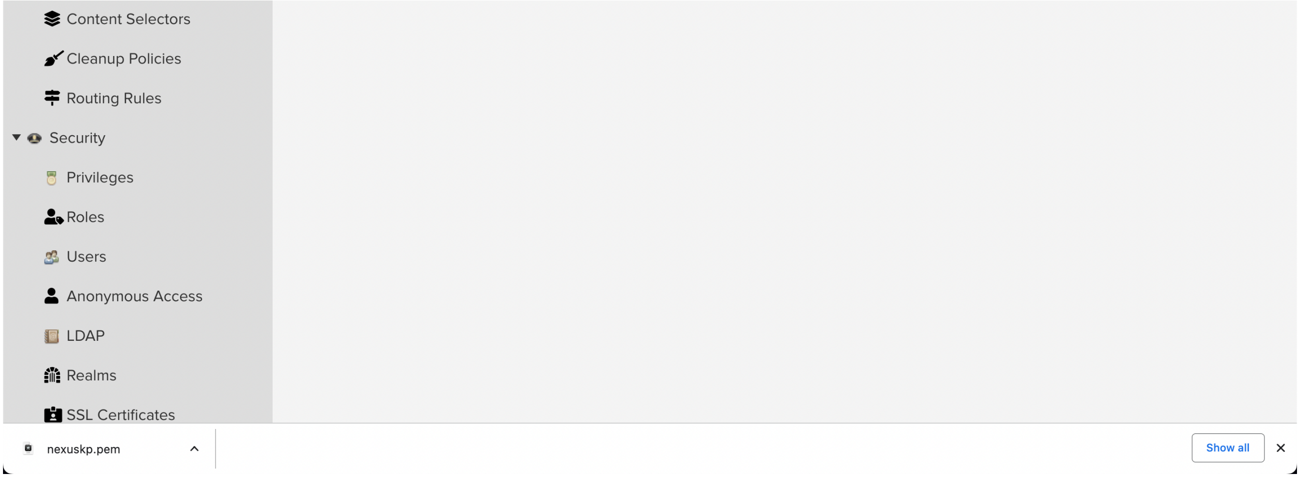
In response to the log4j vulnerability identified in CVE-2021-44228 (also known as "log4shell") impacting organizations world-wide, we are providing an experimental Log4j Visualizer capability to help our users identify log4j downloads impacted by CVE-2021-44228 so that they can mitigate the impact. Note that enabling this capability may impact Nexus Repository performance. Also note that the visualizer does not currently identify or track other log4j vulnerabilities.

NOW GO TO SERVER ADMINISTRATION AND CONFIGURATION

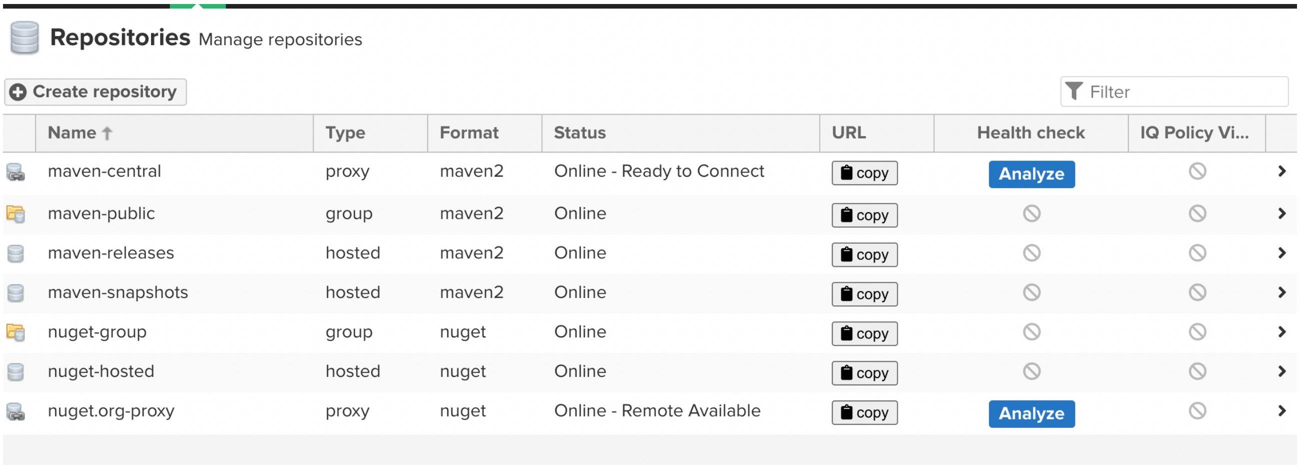


Not Secure | 34.215.165.57:8081/#admin/repository

Repository Repository administration



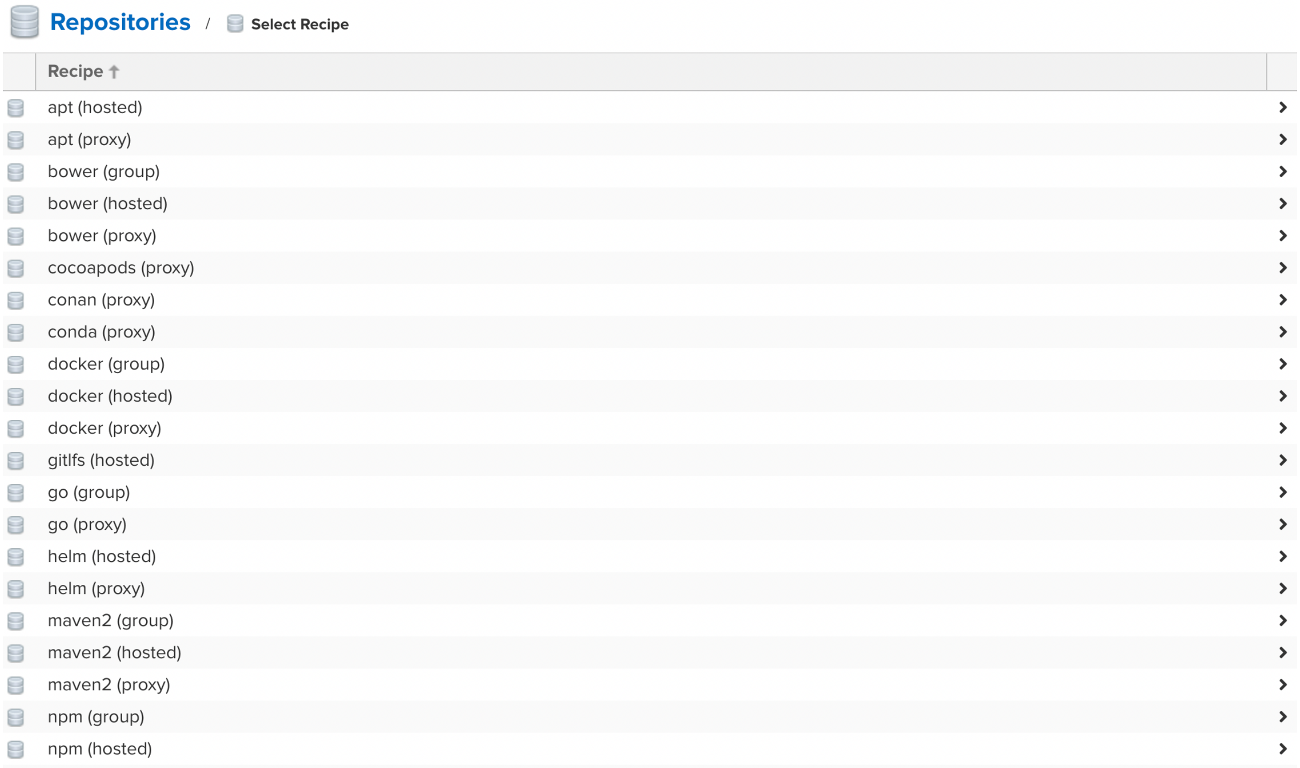
SELECT REPOSITORIES



Repositories Manage repositories

	Name ↑	Type	Format	Status	URL	Health check	IQ Policy Vi...	
	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 - Remote Available	copy	Analyze	⊘	›

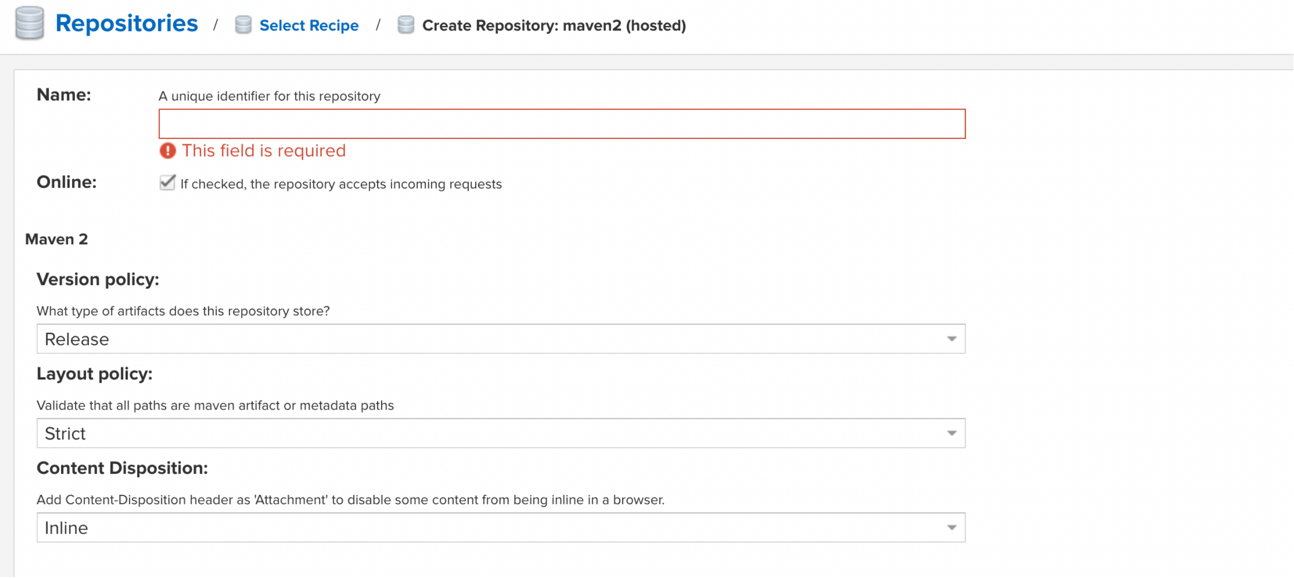
SELECT CREATE-REPOSITORY



Repositories / Select Recipe

	Recipe ↑	
	apt (hosted)	›
	apt (proxy)	›
	bower (group)	›
	bower (hosted)	›
	bower (proxy)	›
	cocoapods (proxy)	›
	conan (proxy)	›
	conda (proxy)	›
	docker (group)	›
	docker (hosted)	›
	docker (proxy)	›
	gitlfs (hosted)	›
	go (group)	›
	go (proxy)	›
	helm (hosted)	›
	helm (proxy)	›
	maven2 (group)	›
	maven2 (hosted)	›
	maven2 (proxy)	›
	npm (group)	›
	npm (hosted)	›

SELECT MAVEN2(HOSTED)



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

Name: A unique identifier for this repository

This field is required

Online: ☑ If checked, the repository accepts incoming requests

Maven 2

Version policy:

What type of artifacts does this repository store?

Release

Layout policy:

Validate that all paths are maven artifact or metadata paths

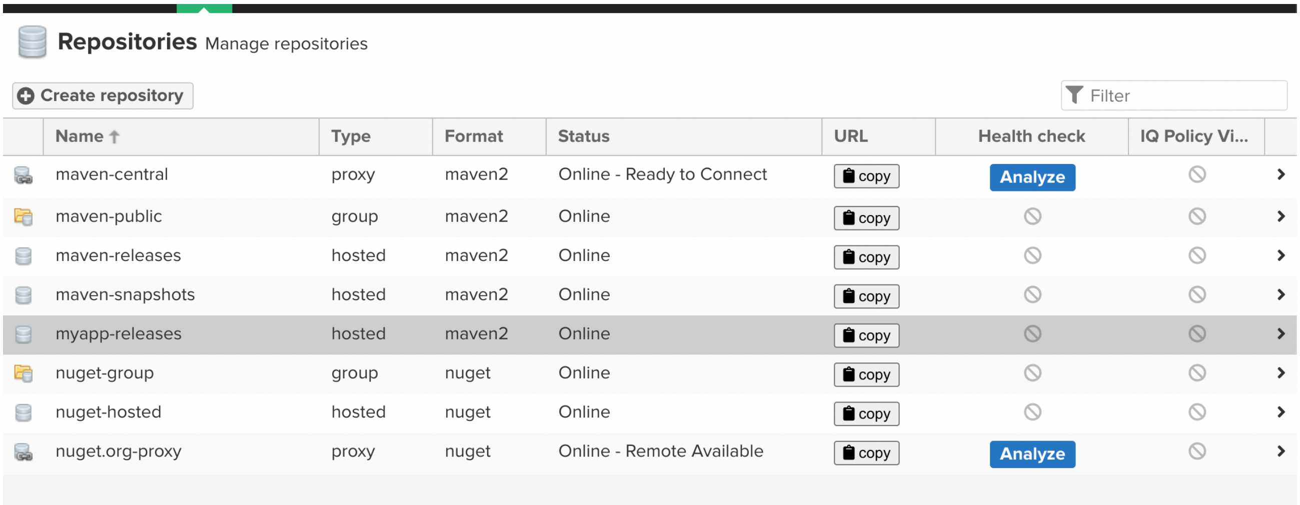
Strict

Content Disposition:

Add Content-Disposition header as 'Attachment' to disable some content from being inline in a browser.

Inline

GIVE REPOSITORY NAME AS myapp-releases and click on create repositories



Repositories Manage repositories

Create repository

Filter

Name	Type	Format	Status	URL	Health check	IQ Policy Vi...
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	⃠	⃠
myapp-releases	hosted	maven2	Online	copy	⃠	⃠
nuget-group	group	nuget	Online	copy	⃠	⃠
nuget-hosted	hosted	nuget	Online	copy	⃠	⃠
nuget.org-proxy	proxy	nuget	Online - Remote Available	copy	Analyze	⃠

now you can see our repository created in dashboard

NOW GO TO JENKINS AND INSTALL PLUGIN "**nexus artifactory uploader**"

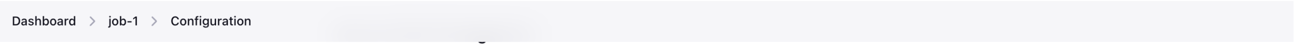
ADD CREDENTIALS :

and add description as nexus credentials

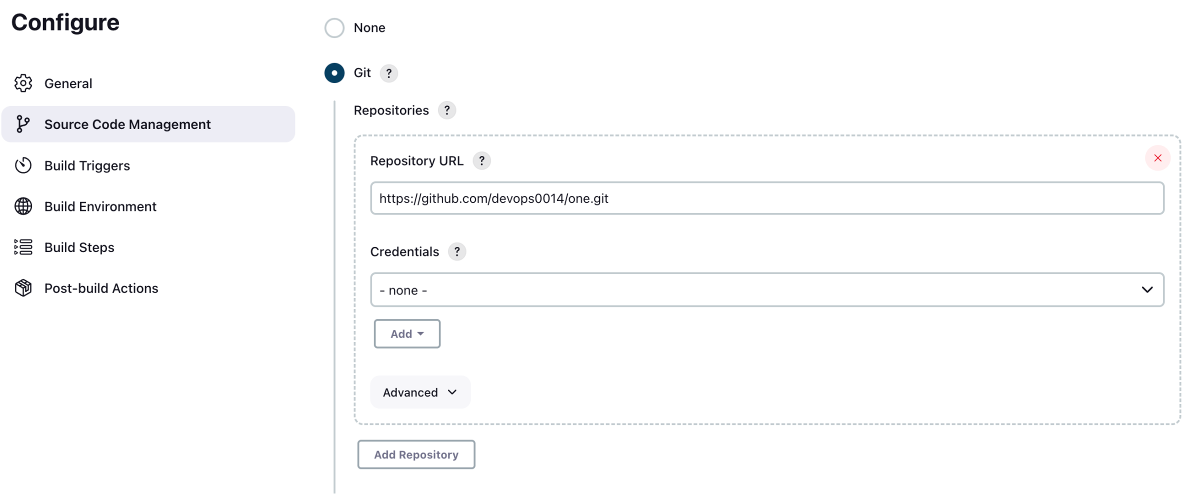
CLICK ON TEST CONNECTION, THEN YOU WILL SEE THE MESSAGE

NOW GO AND CREATE A JOB

GIT: URL OF OUR PROJECT



Dashboard > job-1 > Configuration



○ None

● Git ?

Repositories ?

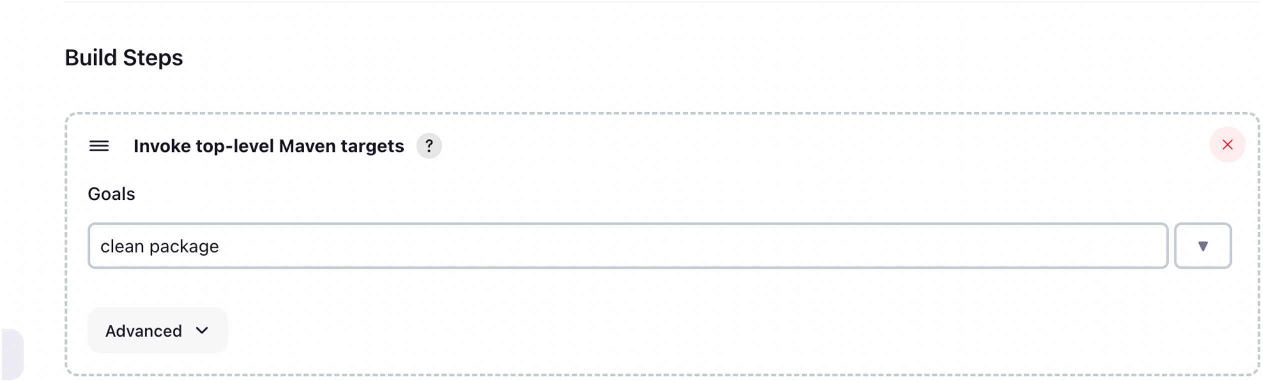
Repository URL ?

https://github.com/devops0014/one.git

Credentials ?

- none -

ADD BUILD STEP: invoke top-level maven targets



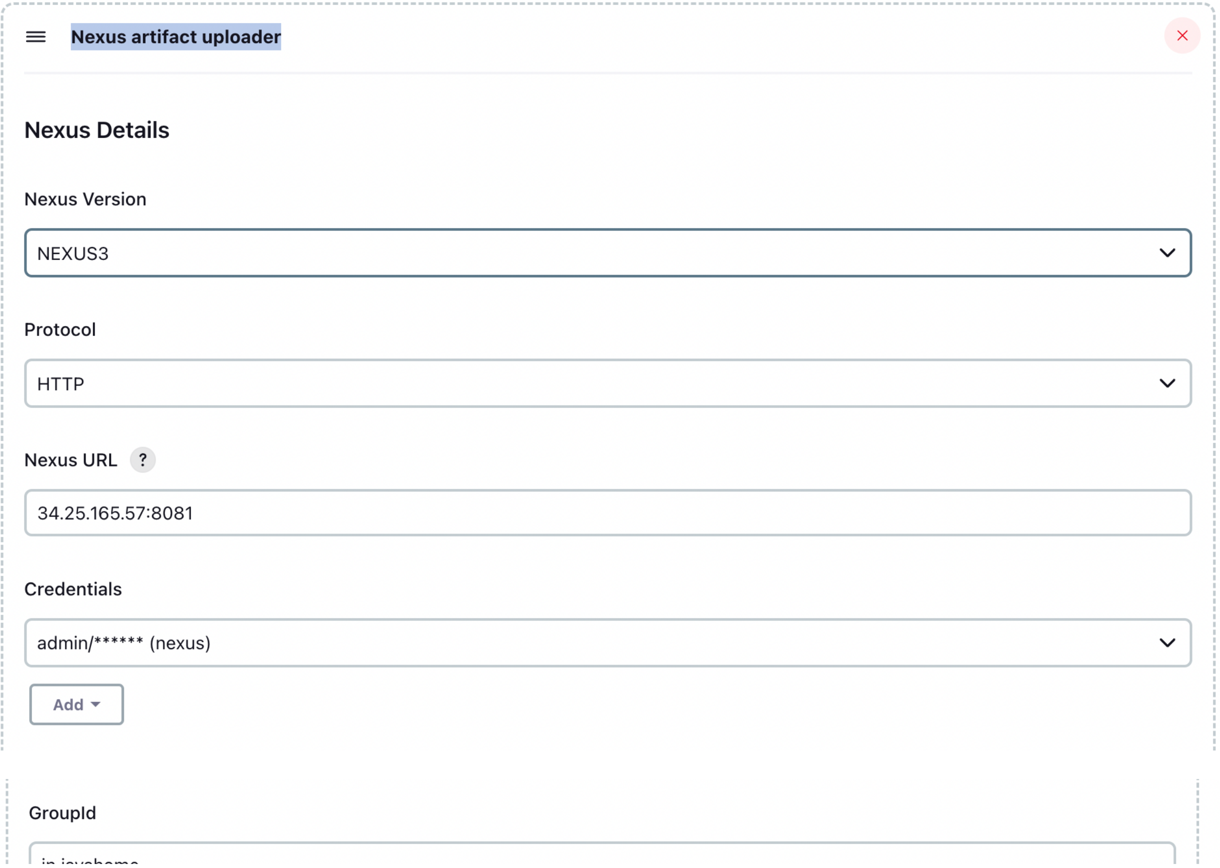
Build Steps

Invoke top-level Maven targets ?

Goals

clean package

ADD BUILD STEP: **Nexus artifact uploader**



Nexus artifact uploader

Nexus Details

Nexus Version

NEXUS3

Protocol

HTTP

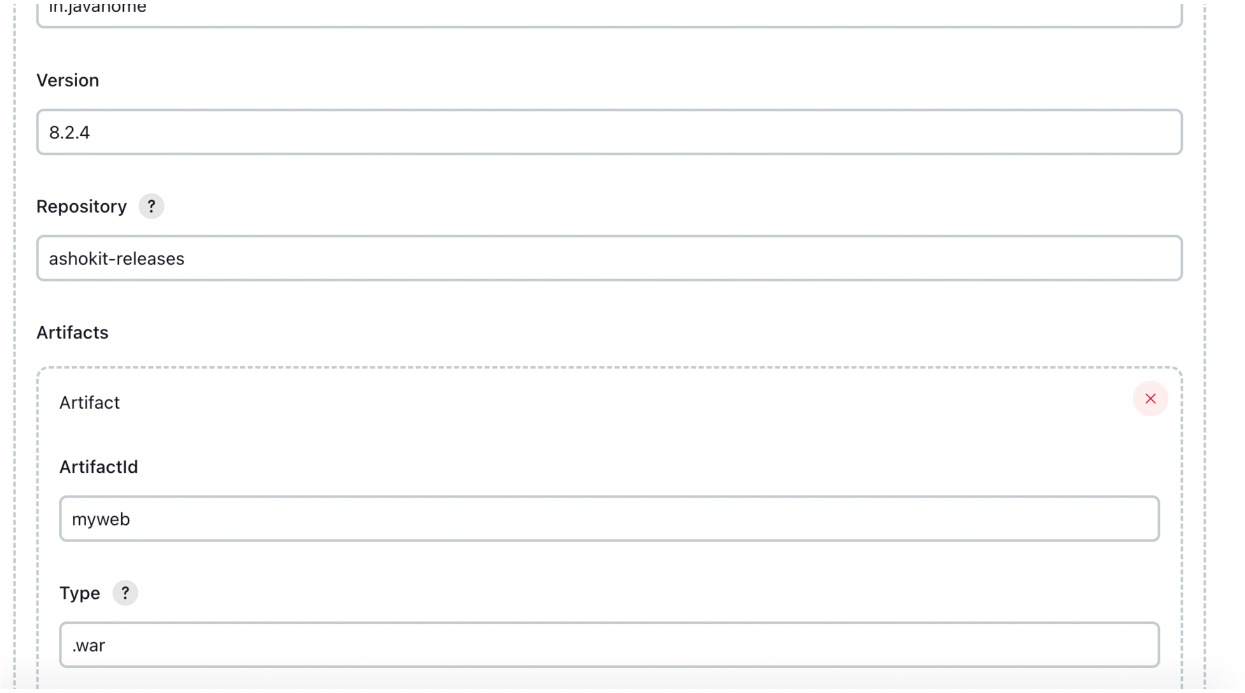
Nexus URL ?

34.25.165.57:8081

Credentials

admin/****** (nexus)

GroupId



in.javahome

Version

8.2.4

Repository ?

ashokit-releases

Artifacts

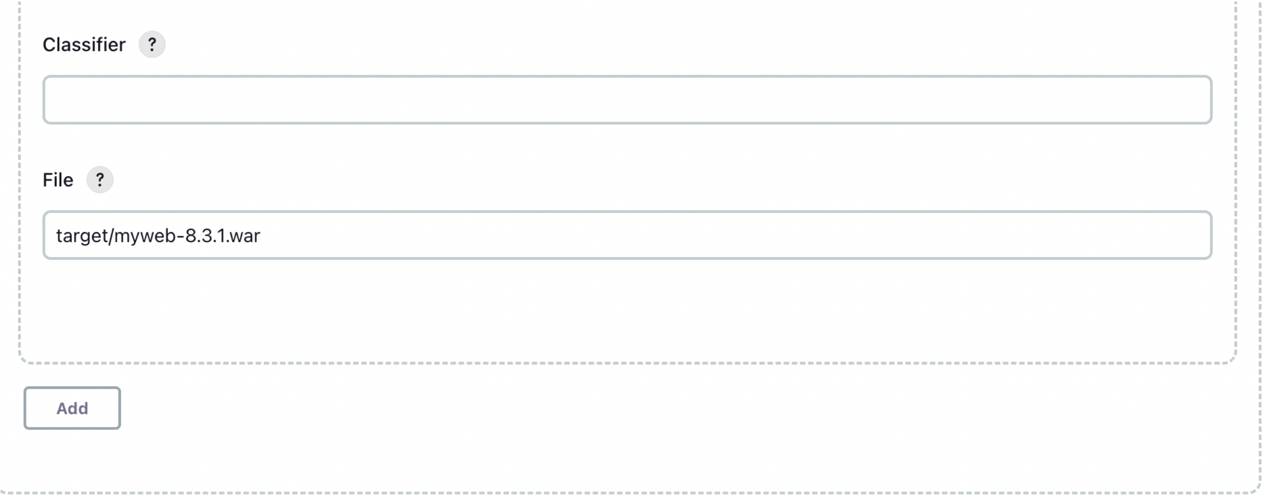
Artifact

ArtifactId

myweb

Type ?

.war

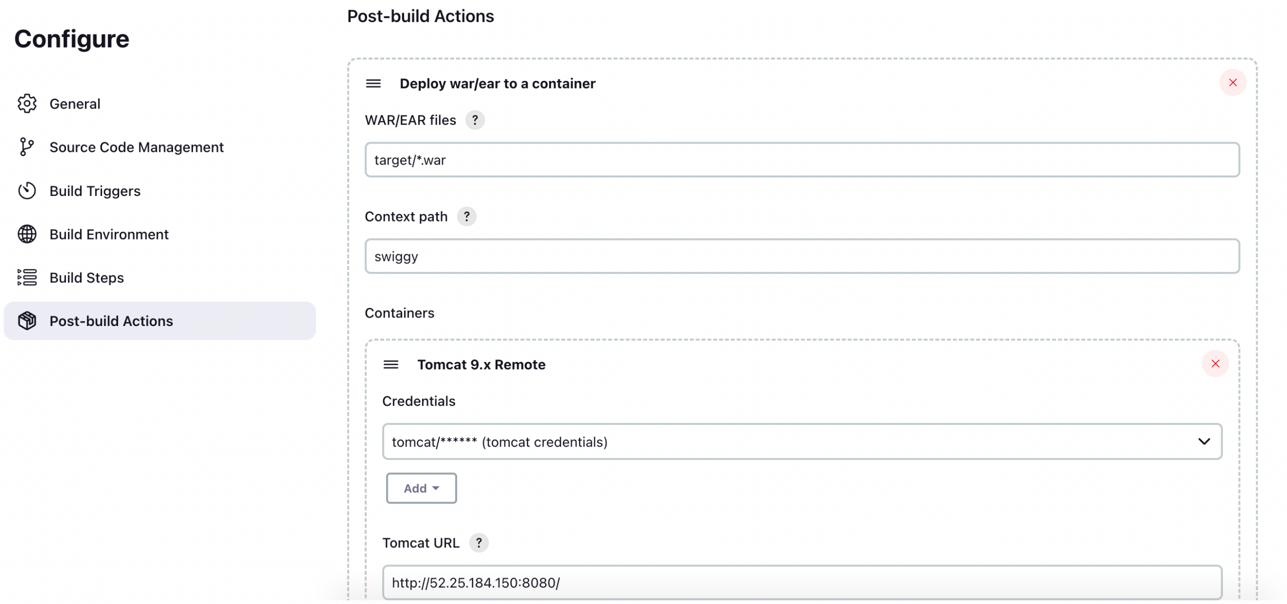


Classifier ?

File ?

target/myweb-8.3.1.war

NOW GO TO POST BUILD ACTIONS: deploy war/ear to container



Post-build Actions

Deploy war/ear to a container

WAR/EAR files ?

target/*.war

Context path ?

swiggy

Containers

Tomcat 9.x Remote

Credentials

tomcat/****** (tomcat credentials)

Tomcat URL ?

http://52.25.184.150:8080/

NOW SAVE AND BUILD THE JOB

IF THE BUILD GETS SUCCESS:

then we can see that war files are stored in nexus repository

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Or or or or or or or or or or or or or or or

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Install nexus **platform plugin** in jenkins

Go to jenkins —> configuration system —> nexus

Display name: nexus

Server-id: nexus-repo

Server url: public ip of nexus:8081

Credentials: ****

Test connection

Go to job:

Configure —>

Add a build step: **Nexus Repository Manager Publisher**

Nexus instance: auto update

Nexus-repo: sample-releases

packages:

Group: search in pom.xlm

Artifact id: search in pom.xlm

Version: search in pom.xlm

Package: war

Artifact:

File path: target/myweb-8.2.5.war

Extension: .war