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 (**sudo 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 (chmod -R nexus:nexus file_names)

STEP-10: CHANGE nexus.rc file (vim nexux/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
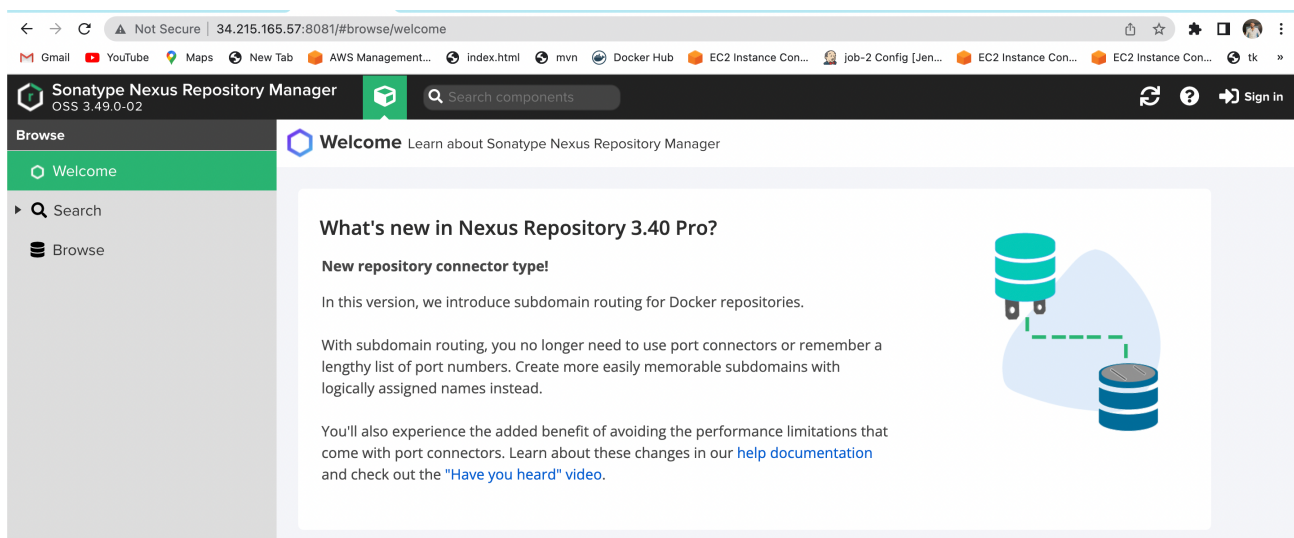
[Install]

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
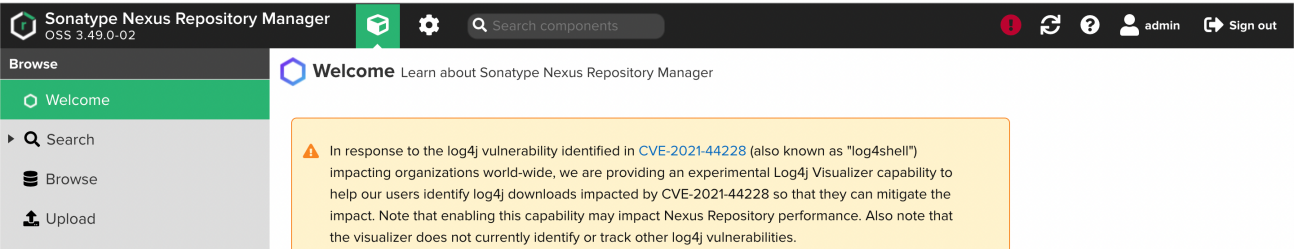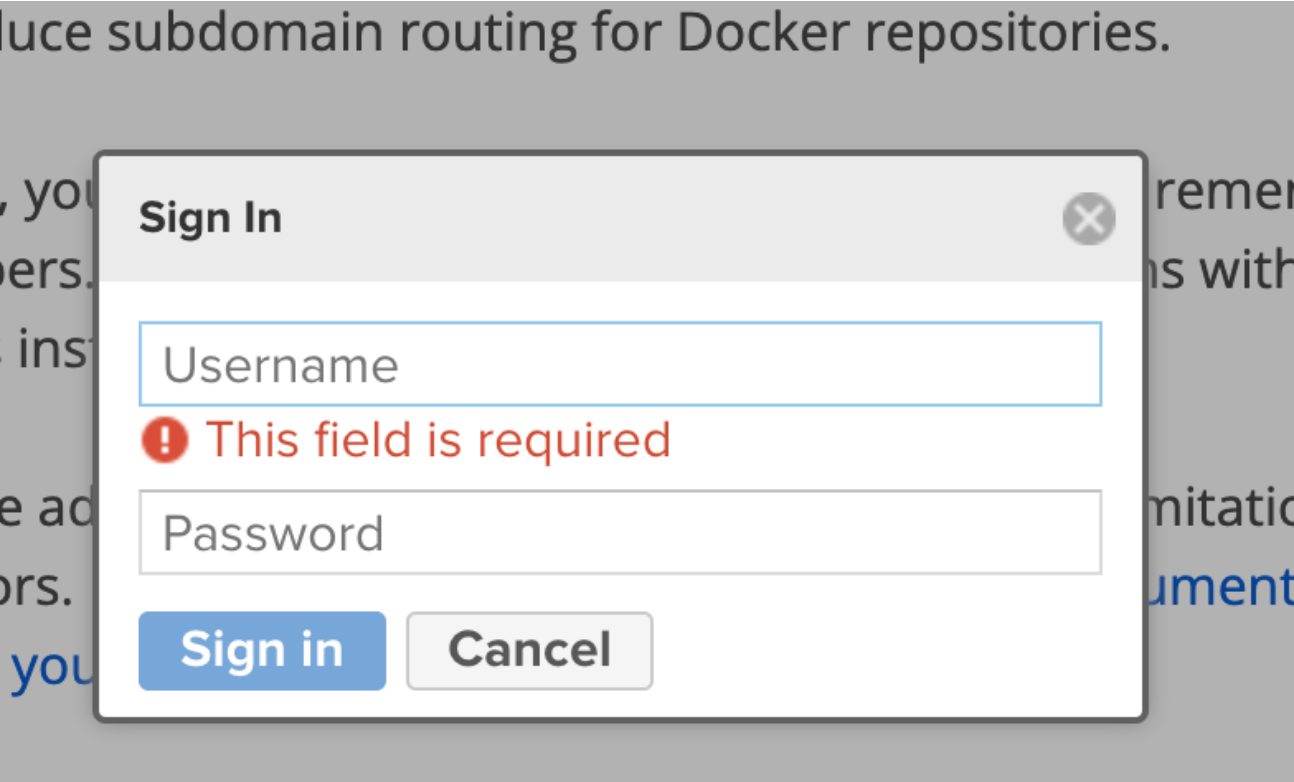

CLICK ON **SIGN-IN**

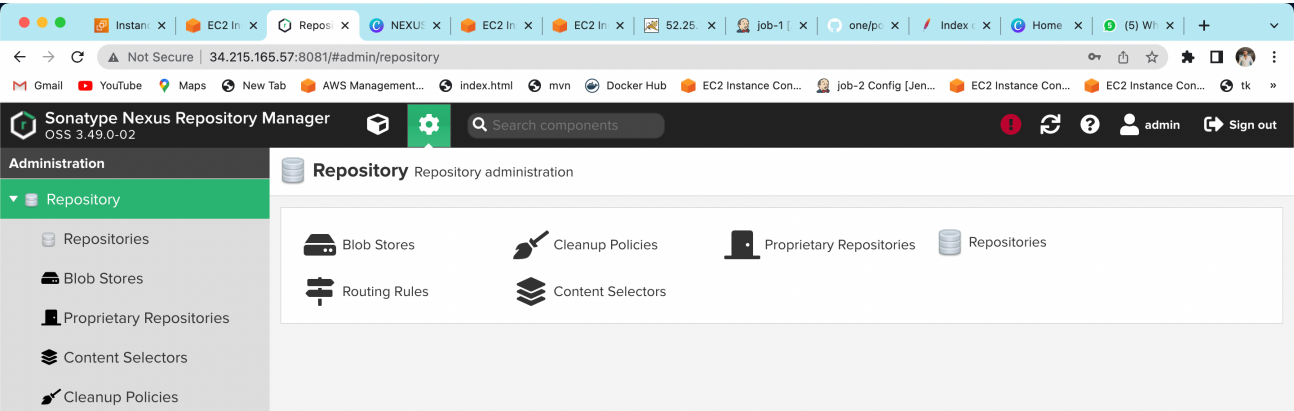IT WILL ASKS THE USER NAME & PASSWORD

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

NOW GO TO SERVER ADMINISTRATION AND CONFIGURATION

▼ 🔓 Security

  🎫 Privileges

  👥 Roles

  👥 Users

  👤 Anonymous Access

  📇 LDAP

  🏛 Realms

  📑 SSL Certificates

📄 nexuskp.pem ⌃   Show all ✕

SELECT 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	🚫	🚫	›
📁	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)

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

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🖳	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**"

GO TO MANAGE JENKINS AND CONFIGURE JENKINS

GO TO SONATYPE NEXUS Once after completing this one go to manage on kids and configure system add Nexus repository Maine Sawan Ki patient on so select this tone display display my job to configure me the display of any particular Nexus so job configuration so server ID sir what we have to do

Sonatype Nexus

Nexus Repository Manager Servers

☰ **Nexus Repository Manager 3.x Server**   ✕

Nexus Repository Manager 3.x Server

Display Name

| my-nexus |

Server ID ?

nexus-repo

Server URL

http://34.215.165.57:8081

ADD CREDENTIALS :

Kind

Username with password

Scope ?

Global (Jenkins, nodes, items, all child items, etc)

Username ?

admin

☐ Treat username as secret ?

Password ?

••••••••

ID ?

and add description as nexus credentials

CLICK ON TEST CONNECTION, THEN YOU WILL SEE THE MESSAGE

⚠ Nexus Repository Manager 3.x connection succeeded

NXRM OSS 3.49.0-02 found. Some operations require Nexus Repository Manager Professional server version 3.13.0 or newer; use of an incompatible server could result in failed builds.

Test connection

NOW GO AND CREATE A JOB

GIT: URL OF OUR PROJECT

Dashboard > job-1 > Configuration

Configure

⚙ General

♦ Source Code Management

🕐 Build Triggers

🌐 Build Environment

≣ Build Steps

○ None

● Git ?

Repositories ?

Repository URL ?   ✕

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

Credentials ?

Post-build Actions

- none -

Add ▾

Advanced ⌄

Add Repository

ADD BUILD STEP: invoke top-level maven targets

Build Steps

≡ **Invoke top-level Maven targets** ?   ✕

Goals

clean package   ▾

Advanced ⌄

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)   ⌄

Add ▾

GroupId

in.javahome

Version

8.2.4

Repository ?

ashokit-releases

Artifacts

Artifact   ✕

ArtifactId

myweb

Type   ?

.war

Classifier   ?

File   ?

target/myweb-8.3.1.war

Add

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

Configure

Post-build Actions

⚙ General

☌ Source Code Management

⏱ Build Triggers

🌐 Build Environment

☰ Build Steps

📦 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)   ⌄

Add ▾

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