Setup Nexus And Integrated To Jenkins

Step by step process

STEP-1: Launch instance with T2-Medium and Security group – 8081 port and 20 GB OF EBS VOLUME (storage).

STEP-2: sudo yum install java-openjdk11

STEP-3: create a directory (mkdir /app) – go to folder (cd /app)

STEP-4: Download the Nexus (wget https://download.sonatype.com/nexus/3/nexus-3.70.4-02-java11-unix.tar.gz)

STEP-5: untar the file (tar -xvzf nexus-3.70.4-02-java11-unix.tar.gz)

STEP-6:mv nexus-3.70.4-02 nexus

STEP-7: Add user for nexus (useradd nexus)

STEP-8: Change the owners of files (chown nexus:nexus nexus sonatype-work -R)

STEP-9: Go to nexus/bin – vim nexus.rc – uncomment the line & give username as "nexus" .

STEP-10: Write a script to run the nexus (vi /etc/systemd/system/nexus.service)

- **Example:**

[Unit]

Description=nexus service

After=network.target

[Service]

Type=forking

LimitNOFILE=65536

User=nexus

Group=nexus

ExecStart=/app/nexus/bin/nexus start

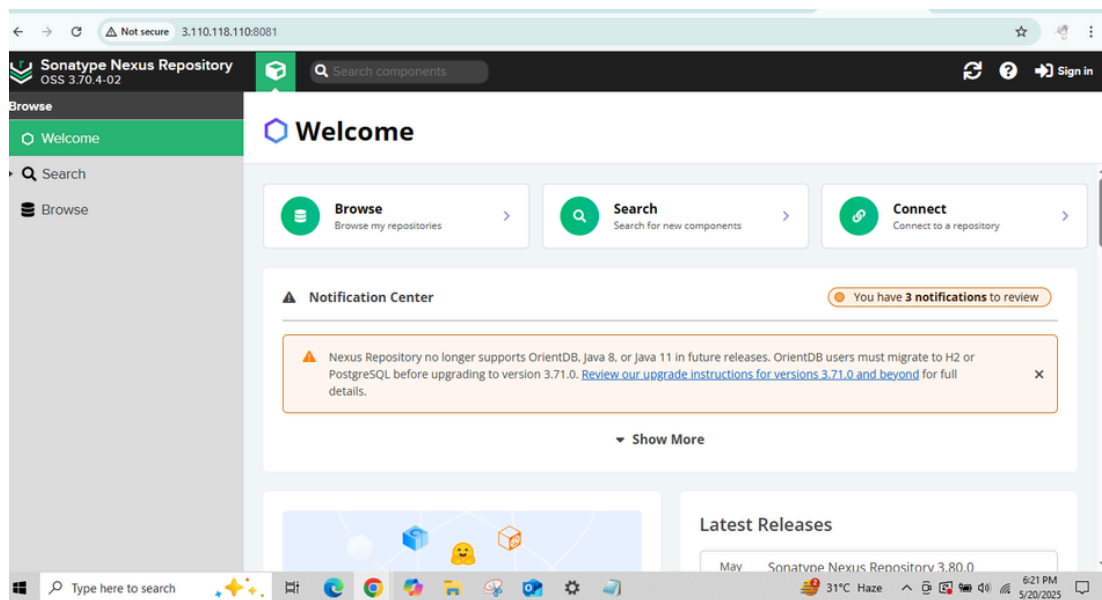ExecStop=/app/nexus/bin/nexus stop

User=nexus

Restart=on-abort

[Install]

WantedBy=multi-user.target

Step-11:Check the configurations

- chkconfig nexus on
- systemctl status nexus
- systemctl start nexus

Step-12:Access Nexus – Open http://public-ip:8080 and complete setup .
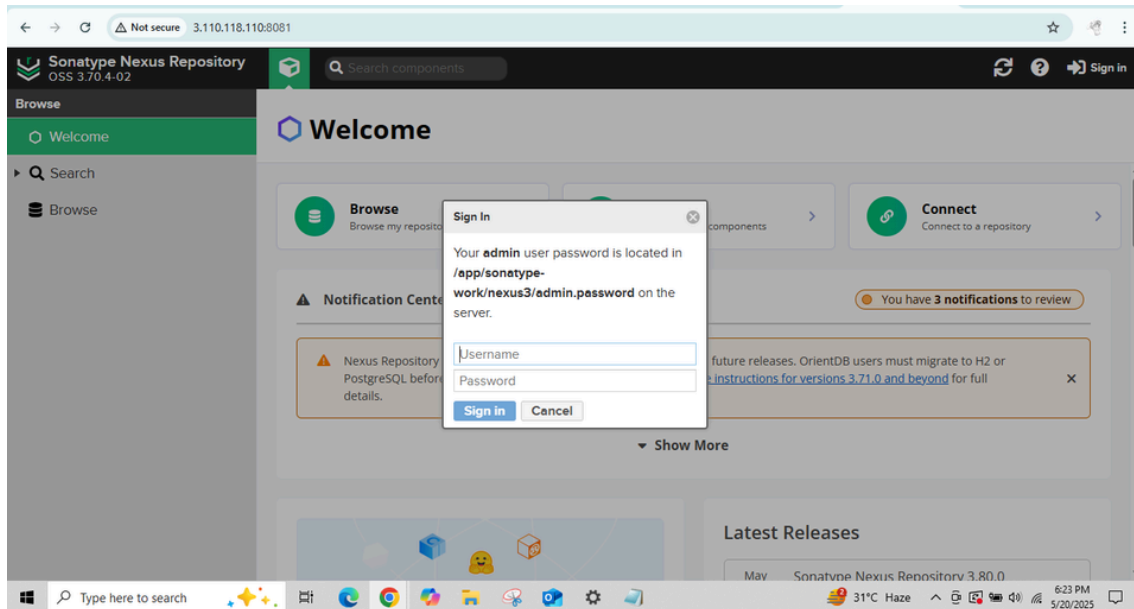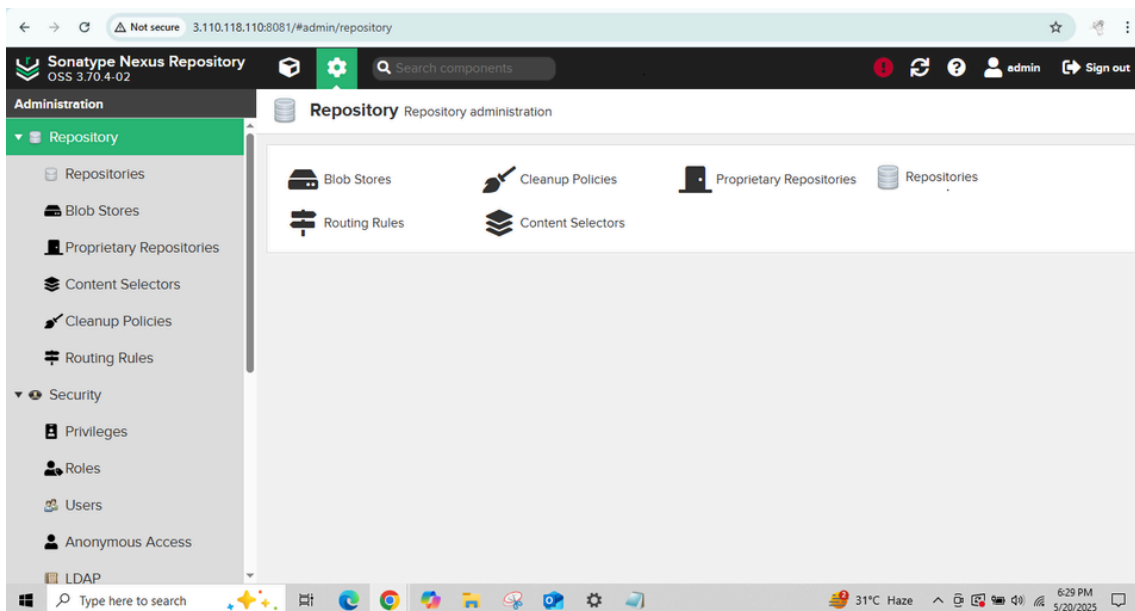

Go to the sign in:

It will ask username & Password

USERNAME: admin

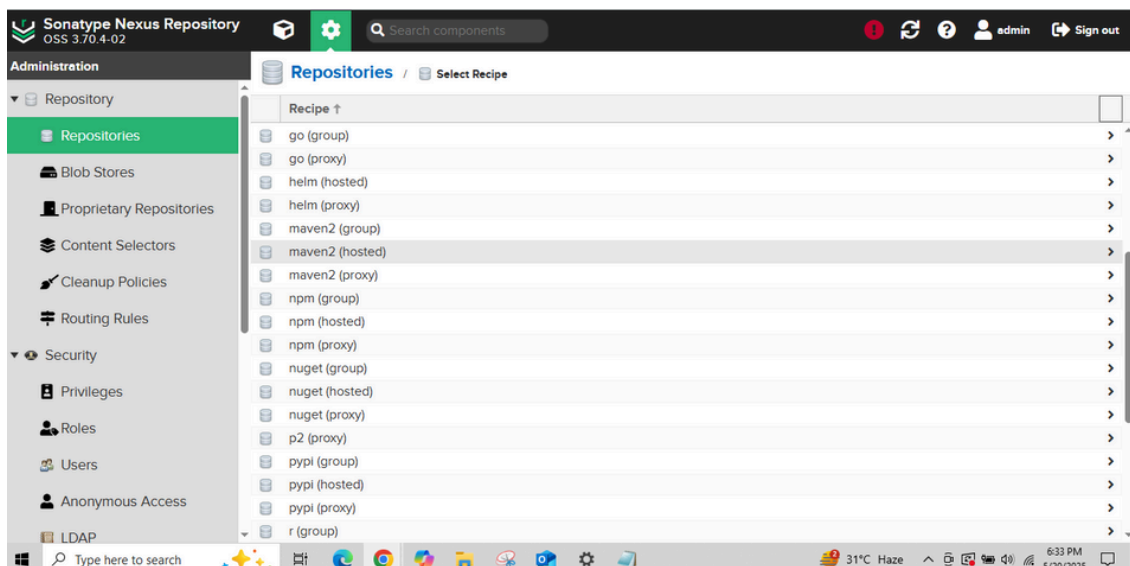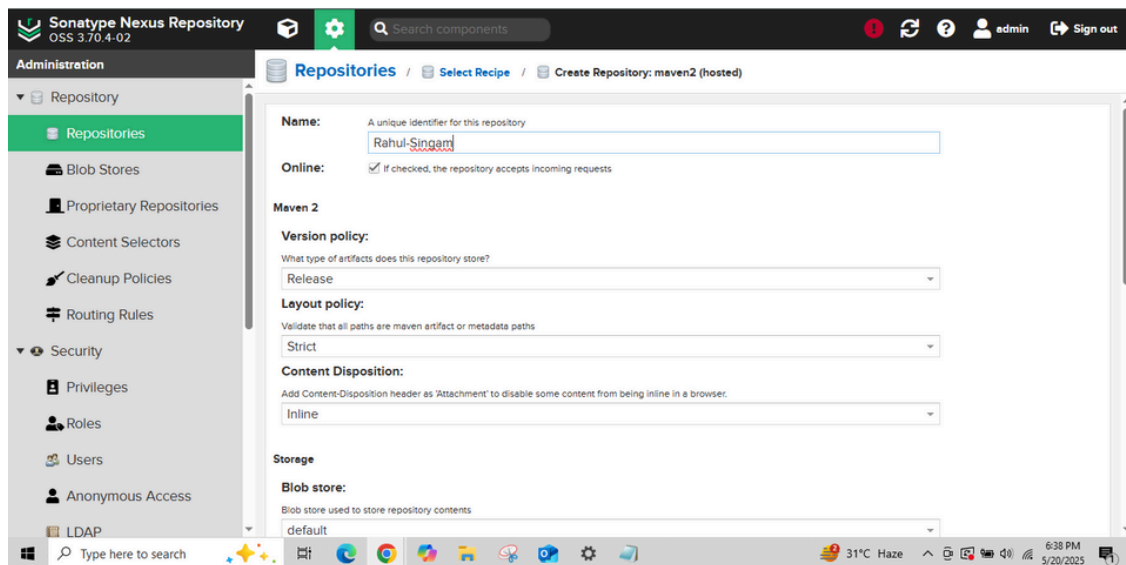**PASSWORD**: cat /app/sonatype-work/nexus3/admin.password

Navigate to settings – click on repositories

On repositories – click on create repository – select maven(hosted).

Give repository name :

and create repository we can see our repository in dashboard of nexus.

Step-13: **JENKINS INTEGRATION**

Install nexus platform plugin in jenkins (Nexus artifactory uploader).

Go to jenkins —> configuration system —> nexus

Display name: nexus

Server-id: nexus-repo

Server url: public ip of nexus:8081

Add Credentials: ****

Click on Test connection (you can see the message failed or success).

NOW GO AND CREATE A JOB

Configure Git:url for the project – >Source code management – > Git repo url.

Add build step: invoke top-level maven targets – > maven – >context path → Goals → clean package.

Configure —> Add a build step: Nexus Repository Manager Publisher

Nexus instance: auto update

Nexus-repo: sample-releases

Packages:

Group id: search in pom.ml

Artifact id: search in pom.xml

Version: search in pom.xml

Package Type : .war

Artifact:

File path: target/myweb-8.2.5.war

Now save and build the job.

If the build get success: then we can see that war files are stored in nexus repository.