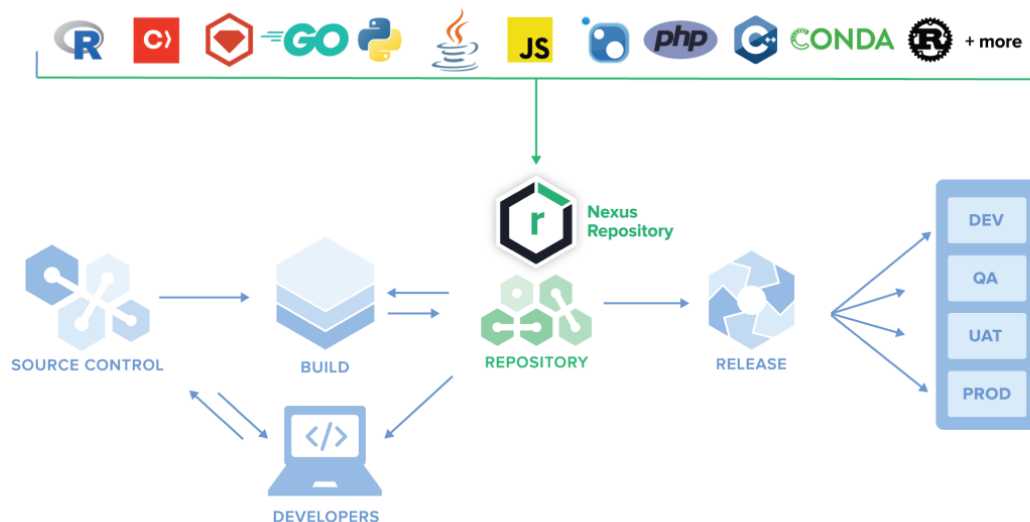


NEXUS

Nexus by Sonatype is a repository manager that **organizes, stores and distributes artifacts needed for development**. With Nexus, developers can completely control access to, and deployment of, every artifact in an organization from a single location, making it easier to distribute software.



Manage All of Your Packages Easily

- Store and distribute components with native package manager compatibility
- Support ecosystems like Java/Maven, npm, NuGet, PyPI, RubyGems, CocoaPods and more
- Distribute packaged and containerized apps like Docker, Helm, Yum, and APT
- Compatible with popular IDEs and CI like Eclipse, IntelliJ, Visual Studio, Jenkins

Manage Packages Across Your Software Supply Chain

Centralize -- Give your teams a single source of truth for every component.

Store -- Optimize build performance and storage costs by caching artifacts.

Develop -- Supports 18 package formats in one deployment

Scale -- Install on unlimited servers for scalability and efficiency.

INSTALLTION OF NEXUS IN EC2

1.create Amozan linux2 Ec2

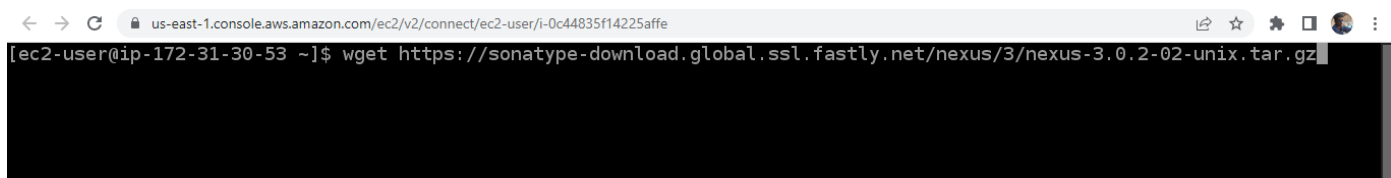
2.install JDK 11 within it

`sudo yum install java-11-amazon-corretto`

3. cd /opt

- Changing directory to opt

`wget https://sonatype-download.global.ssl.fastly.net/nexus/3/nexus-3.0.2-02-unix.tar.gz`

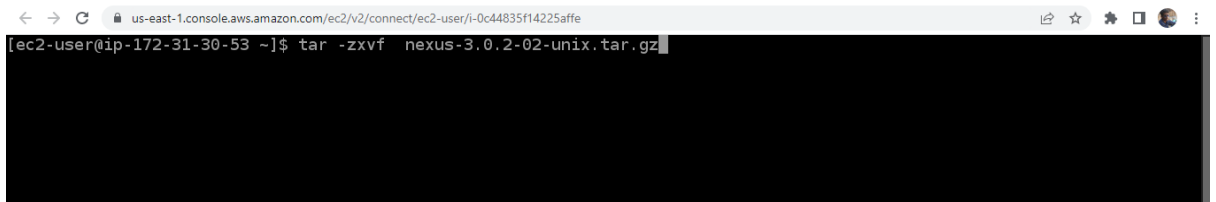


```
[ec2-user@ip-172-31-30-53 ~]$ wget https://sonatype-download.global.ssl.fastly.net/nexus/3/nexus-3.0.2-02-unix.tar.gz
```

- downlode nexus into opt

`tar -zxvf nexus-3.0.2-02-unix.tar.gz`

- unzip nexus in opt[



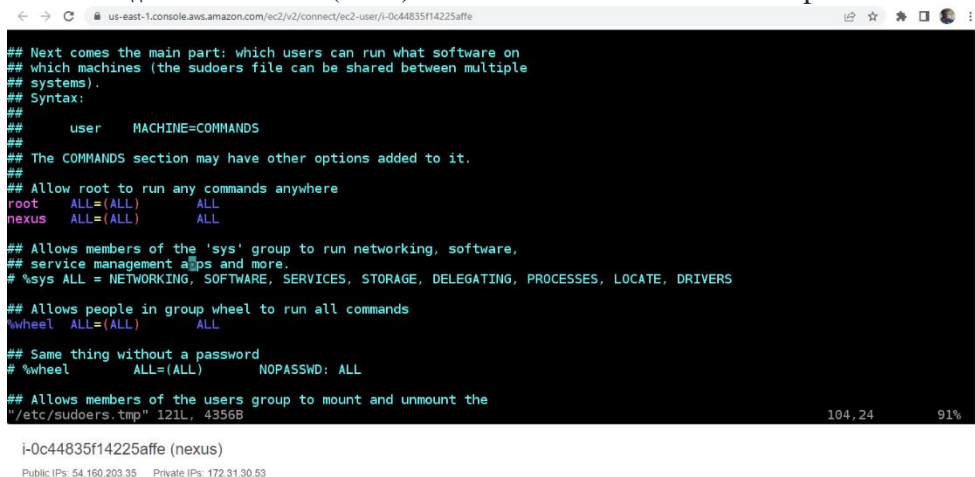
```
[ec2-user@ip-172-31-30-53 ~]$ tar -zxvf nexus-3.0.2-02-unix.tar.gz
```

`mv /opt/nexus-3.0.2-02 /opt/nexus`

- move into opt/nexus

4. sudo adduser nexus -- add new user

visudo \\ nexus ALL=(ALL) NOPASSWD: ALL – no password determin



```
## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##      user    MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root    ALL=(ALL)    ALL
nexus   ALL=(ALL)    ALL

## Allows members of the 'sys' group to run networking, software,
## service management a/p/s and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

## Allows people in group wheel to run all commands
%wheel  ALL=(ALL)    ALL

## Same thing without a password
# %wheel    ALL=(ALL)    NOPASSWD: ALL

## Allows members of the users group to mount and unmount the
## /etc/sudoers.tmp" 121L, 4356B

104,24 91%
```

i-0c44835f14225affe (nexus)
Public IPs: 54.160.203.35 Private IPs: 172.31.30.53

```
sudo chown -R nexus:nexus /opt/nexus
```

5. vi /opt/nexus/bin/nexus.rc
run_as_user="nexus" (file should have only this line) -- it should be uncommitted



```
run_as_user="nexus"

"/opt/nexus/bin/nexus.rc" 1L, 20B      1, 15      All

i-0c44835f14225affe (nexus)
```

6. sudo ln -s /opt/nexus/bin/nexus /etc/init.d/nexus -- Add nexus as a service at boot time
7. su - nexus -- login as a nexus



```
[ec2-user@ip-172-31-30-53 ~]$ su - nexus
Password:
Last login: Thu Jun  2 04:43:48 UTC 2022 on pts/0
[nexus@ip-172-31-30-53 ~]$
```

service nexus start within that start nexus services

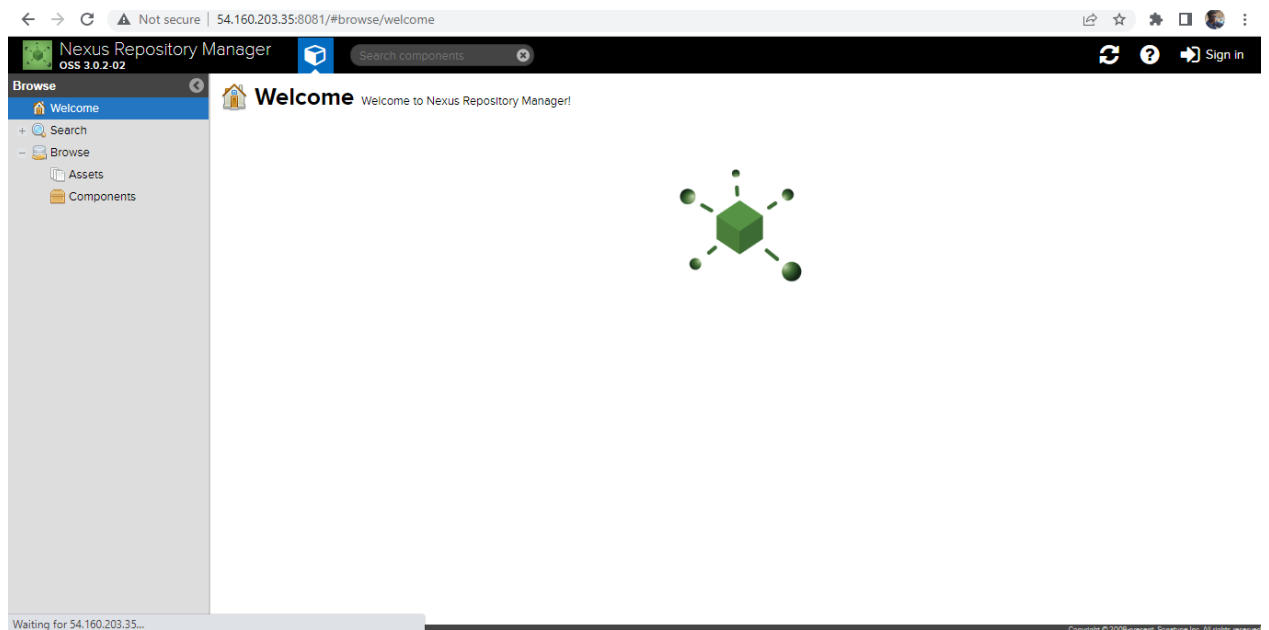
8. Login nexus server from browser on port 8081

http://<Nexus_server>:8081

9. Use default credentials to login

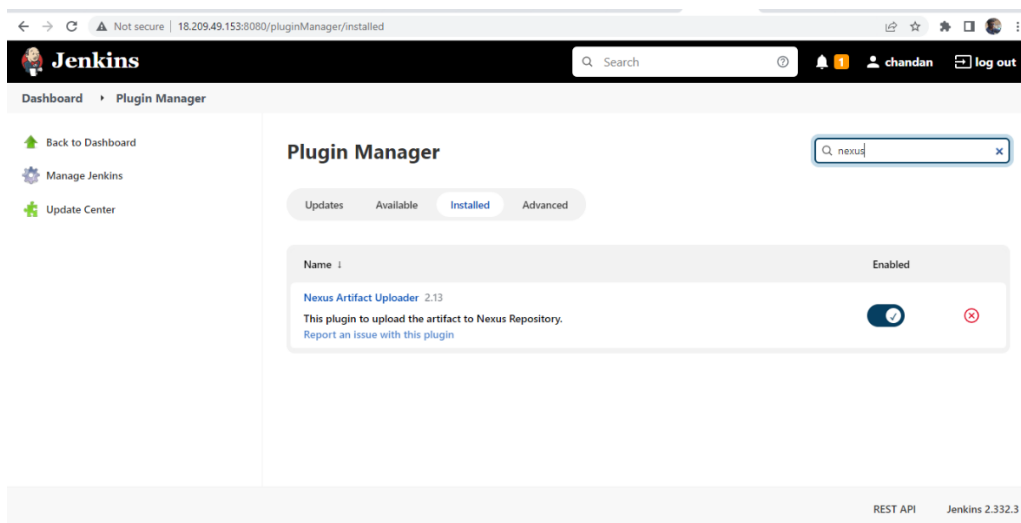
username : admin
password : admin123

- Main page of nexus is like



NEXUS INTEGRATION WITH JENKINS

1. Install nexus plugin – nexus artefact uploader



2. Set a job details

Select Add build steps --- nexus artifact uploader

← → ↻ ⚠ Not secure | 18.209.49.153:8080/job/CheckStyle%20project/configure

Dashboard ▸ CheckStyle project ▸

General Source Code Management Build Triggers Build Environment Build **Nexus Details** Post-build Actions

Nexus artifact uploader ✖

Nexus Details

Nexus Version

NEXUS3

Protocol

HTTP

Nexus URL ?

54.160.203.35:8081/

Credentials

admin/***** (nexus) ➕ Add

GroupId

Save Apply

Dashboard ▸ CheckStyle project ▸

General Source Code Management Build Triggers Build Environment Build **Nexus Details** Post-build Actions

GroupId

com.example.maven-project

Version

1.0-SNAPSHOT

Repository ?

maven-snapshots

Artifacts

✖

ArtifactId

maven-project

Save Apply

(10) W x | Conne x | i-0d8 x | i-0c4 x | i-0d6 x | Comp x | How t x | Settins x | welco x | Check x | welco x | +

← → ↻ ⚠ Not secure | 18.209.49.153:8080/job/CheckStyle%20project/configure

Dashboard ▸ CheckStyle project ▸

General Source Code Management Build Triggers Build Environment Build **Nexus Details** Post-build Actions

ArtifactId

maven-project

Type ?

war

Classifier ?

File ?

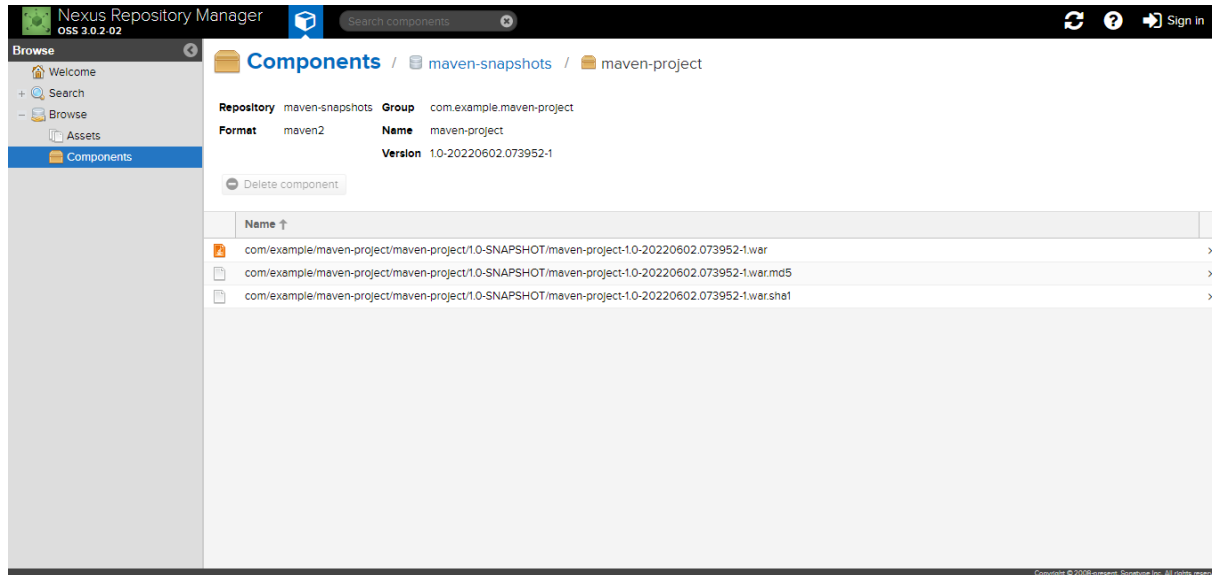
webapp/target/webapp.war

Add

Save Apply

ENG IN 01:26 PM 02-06-2022

- after job will get success
- we can see that in maven-snapshots



References links ---

https://github.com/ValaxyTech/DevOpsDemos/blob/master/Nexus/Nexus_Installation.MD