Publish docker images to Nexus using Jenkins

Install docker in jenkins:

- apt-get update
- apt-get install docker.io -y

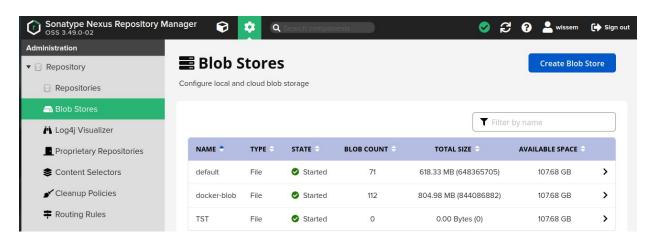
Access Nexus application:

• Get the password from /nexus-data/admin.password files that is present in the nexus container.

docker exec -it nexus bash cat /nexus-data/admin.password

Blob Store: The blob store is used to store repository contents

- Navigate to *Administration -> Repository -> Blob Stores*.
- Click on *Create Blob Store*: name is docker-blob



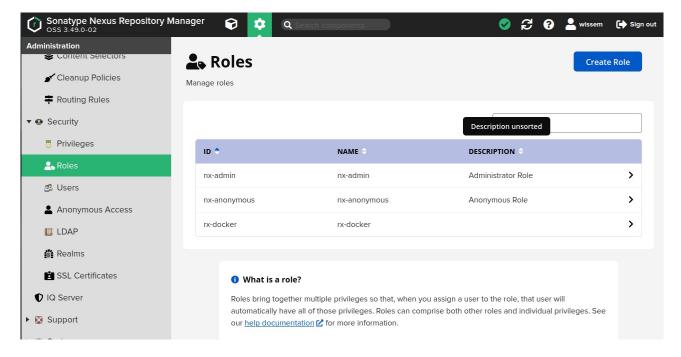
Create a docker repository:create a docker repository on Nexus to publish docker images

- Navigate to Repositories -> Create repository.
- Select docker (hosted).
- Name it *dockerhosted-repo*:create an *HTTP* connector at port 8082,Port 8082 is where the docker repository by nexus will be hosted.

• Choose *docker-blob* to store repository contents.

Create a Role: create a role, give access privileges for the *dockerhosted-repo* repository, and then assign this role to a user

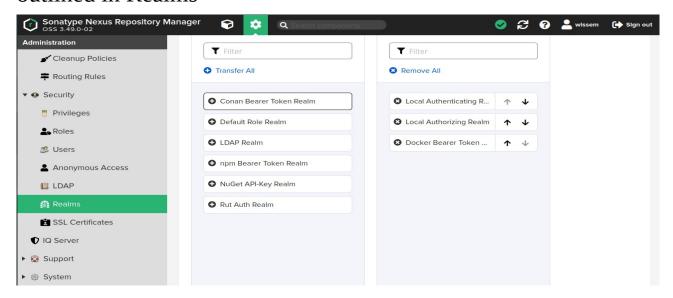
- Click on Create Role
- Add Role ID and Role Name. Name as nx-docker.
- Add *nexus-repository-view-docker-dockerhosted-repo-** privilege to this role.



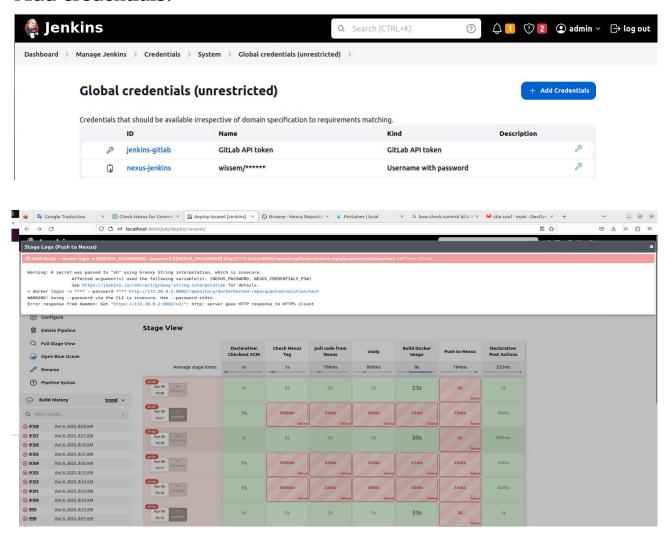
Create a User:

• Create local user: name is wissem and password is wissem

Realms: enable the *Docker Bearer Token Realm* as generally outlined in Realms



Add credentials:



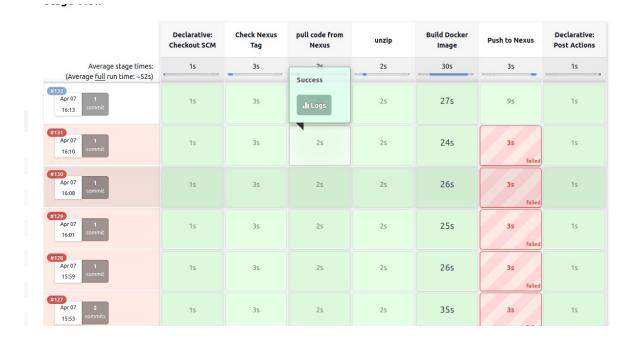
The *dockerhosted-repo* is insecure, it doesn't use *HTTPS* protocol and docker daemon is not letting us access this insecure repository because it might be harmful for our system.

To add the *dockerhosted-repo* to the list of insecure registries, follow the below steps.

- vi /etc/docker/daemon.json
- { "insecure-registries": ["172.20.0.10:8082"] }
- systemctl daemon-reload
- systemctl restart docker
- docker info

```
Cgroup Ortver: systemd
Cgroup Version: 2
Plugins:
Volume: local
Network: bridge host ipvlan macvlan null overlay
Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
Swarm: inactive
Runtimes: lo.containerd.runc.v2 runc
Default Runtime: runc
Init Binary: docker-init
containerd version: 2800fc1057397dbaeefbea0e4e17bddfbd388f38
runc version: v1.1.5-0-gf19387a
init version: ded0a0d
Security Options:
apparmor
seccomp
Profile: bulltin
cgroupns
Kernel Version: 5.19.0-38-generic
Operating System: Ubuntu 22.04.2 LTS
OSType: linux
Architecture: x86_64
CRUS: 8
Total Memory: 23.18G18
Name: Wissem-PC
ID: bi7b574f-e602-4052-a36f-de43b176f721
Docker Root Dir: /var/lib/docker
Debug Mode: false
Registry: https://index.docker.lo/v//
Experimental: false
Insecure Registries:
172.20.0.183082
177.20.0.0180802
177.0.0.018
```

Build the pipeline:



Docker hosted Repository on Nexus

