Publish docker images to Nexus using Jenkins

Install docker in jenkins :

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

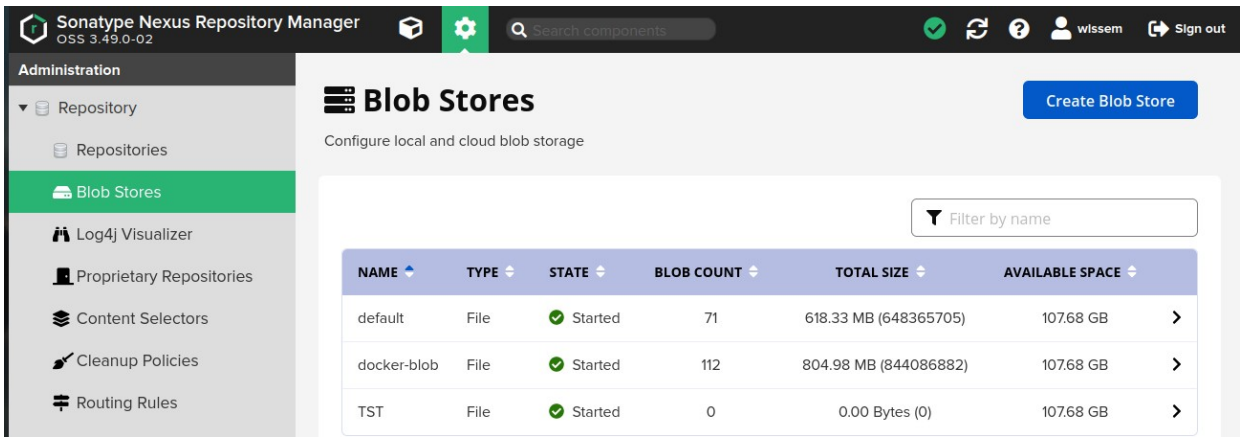
Access Nexus application:

- 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



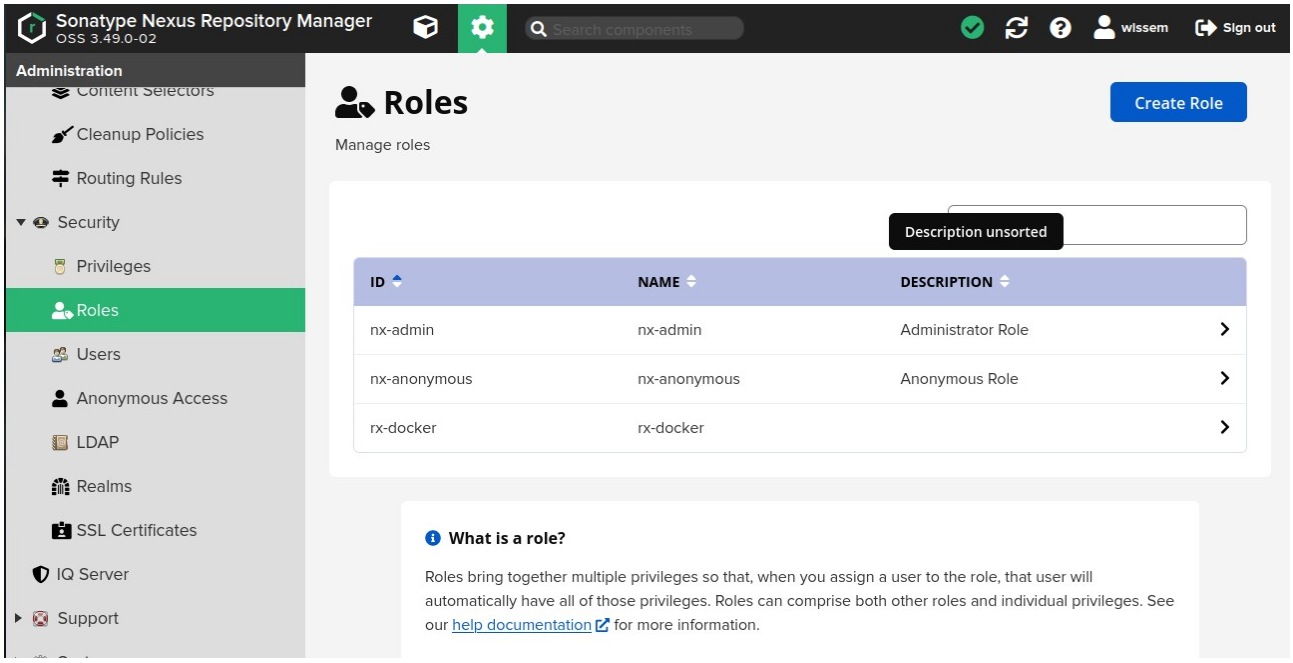
Create a docker repository:create a docker repository on Nexus to publish docker images

- 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

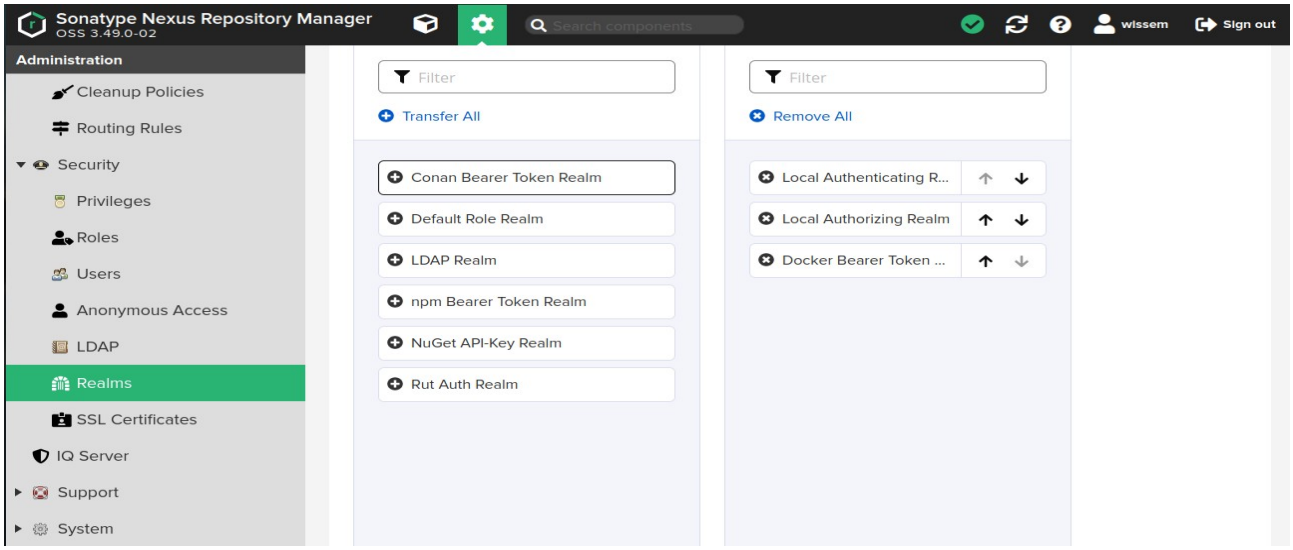
- Click on *Create Role*
- Add *Role ID* and *Role Name*. Name as *nx-docker.*
- Add *nexus-repository-view-docker-dockerhosted-repo-** privilege to this role.



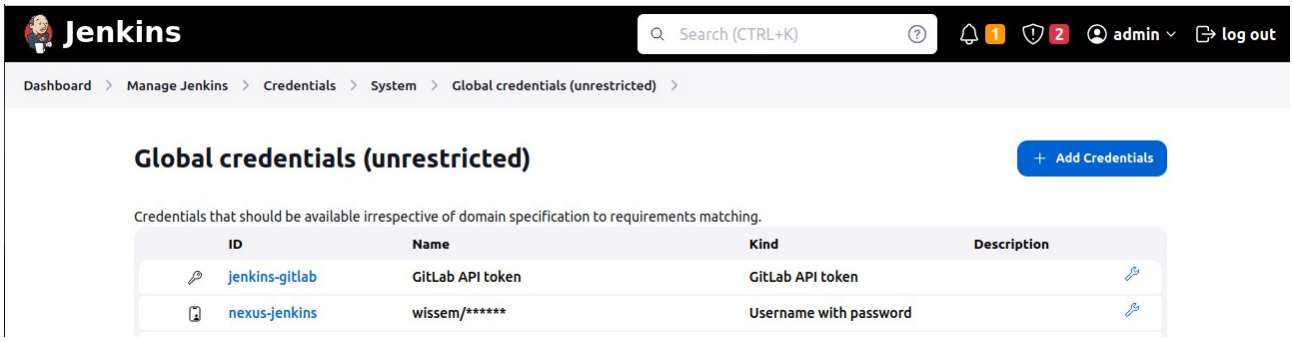
Create a User :

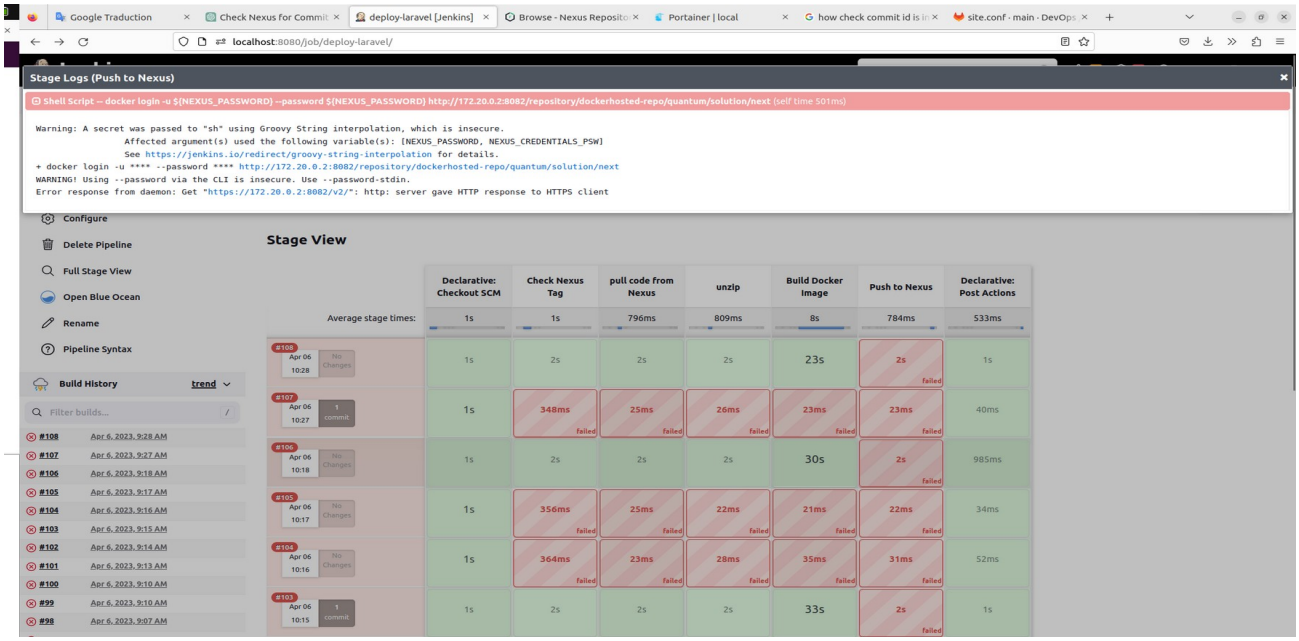
- *Create local user* : name is wissem and password is wissem

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



Add credentials:

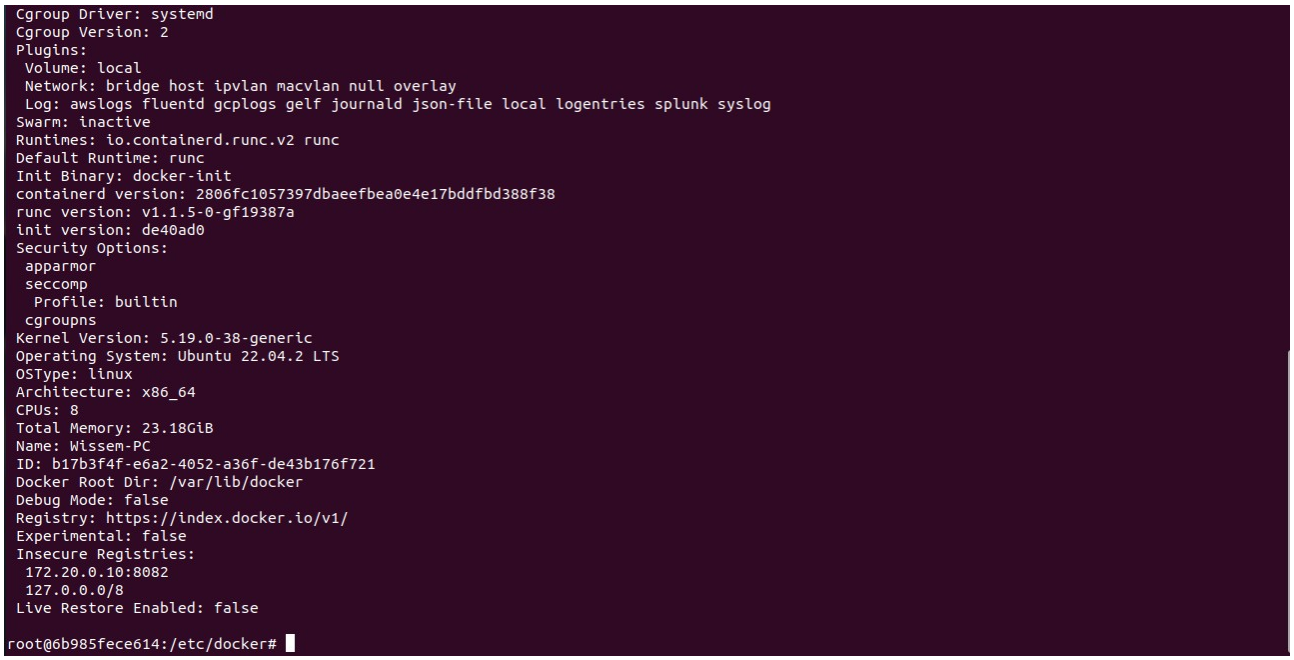




The *dockerhosted-repo* is insecure, it doesn't use *HTTPS* protocol and docker daemon is not letting us access this insecure repository because it might be harmful for our system.

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



Build the pipeline :

Docker hosted Repository on Nexus