Nexus integration with Jenkins

Step1:- Use the below code and build docker image CMD:- docker build -t nexus:latest .

FROM registry.access.redhat.com/ubi7/ubi

LABEL vendor=Sonatype \

maintainer="Sonatype <cloud-ops@sonatype.com>" \

com.sonatype.license="Apache License, Version 2.0" \

com.sonatype.name="Nexus Repository Manager OSS base image"

ARG NEXUS\_VERSION=2.14.18-01

ARG NEXUS\_DOWNLOAD\_URL=https://download.sonatype.com/nexus/oss/nexus-${NEXUS\_VERSION}-bundle.tar.gz

ENV SONATYPE\_WORK=/sonatype-work

ENV NEXUS\_HOME=/opt/sonatype/nexus

RUN yum install -v -y --disableplugin=subscription-manager hostname java-1.8.0-openjdk-headless \

&& yum-config-manager --add-repo http://mirror.centos.org/centos/7/os/x86\_64/ \

&& rpm --import http://mirror.centos.org/centos/7/os/x86\_64/RPM-GPG-KEY-CentOS-7 \

&& yum install -v -y createrepo \

&& yum --disableplugin=subscription-manager clean all

RUN mkdir -p ${NEXUS\_HOME} && \

curl --fail --silent --location --retry 3 ${NEXUS\_DOWNLOAD\_URL} | \

tar xz -C /tmp nexus-${NEXUS\_VERSION} && \

mv /tmp/nexus-${NEXUS\_VERSION}/\* ${NEXUS\_HOME}/ && \

rm -rf /tmp/nexus-${NEXUS\_VERSION}

RUN useradd -r -u 200 -m -c "nexus role account" -d ${SONATYPE\_WORK} -s /bin/false nexus

VOLUME ${SONATYPE\_WORK}

EXPOSE 8081

WORKDIR ${NEXUS\_HOME}

#USER nexus

ENV CONTEXT\_PATH /nexus

ENV MAX\_HEAP 768m

ENV MIN\_HEAP 256m

ENV JAVA\_OPTS -server -Djava.net.preferIPv4Stack=true

ENV LAUNCHER\_CONF ./conf/jetty.xml ./conf/jetty-requestlog.xml

CMD java \

-Dnexus-work=${SONATYPE\_WORK} -Dnexus-webapp-context-path=${CONTEXT\_PATH} \

-Xms${MIN\_HEAP} -Xmx${MAX\_HEAP} \

-cp 'conf/:lib/\*' \

${JAVA\_OPTS} \

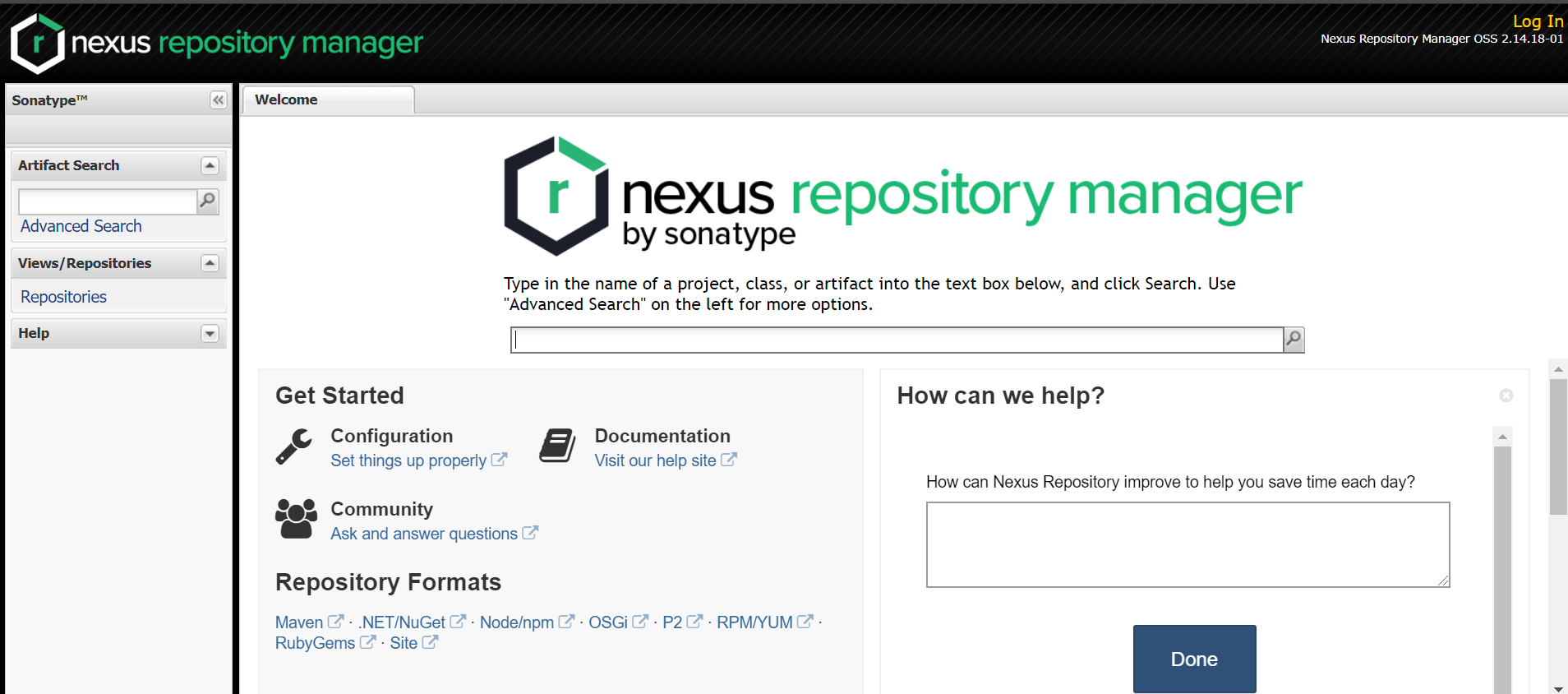
org.sonatype.nexus.bootstrap.Launcher ${LAUNCHER\_CONF}

Step2:- Launch the image CMD:-docker run –d –p 8081:8081 –v /hostpath:/sonatype-work nexus

Directly launch CMD:- docker-compose -f docker-compose.yaml up –d

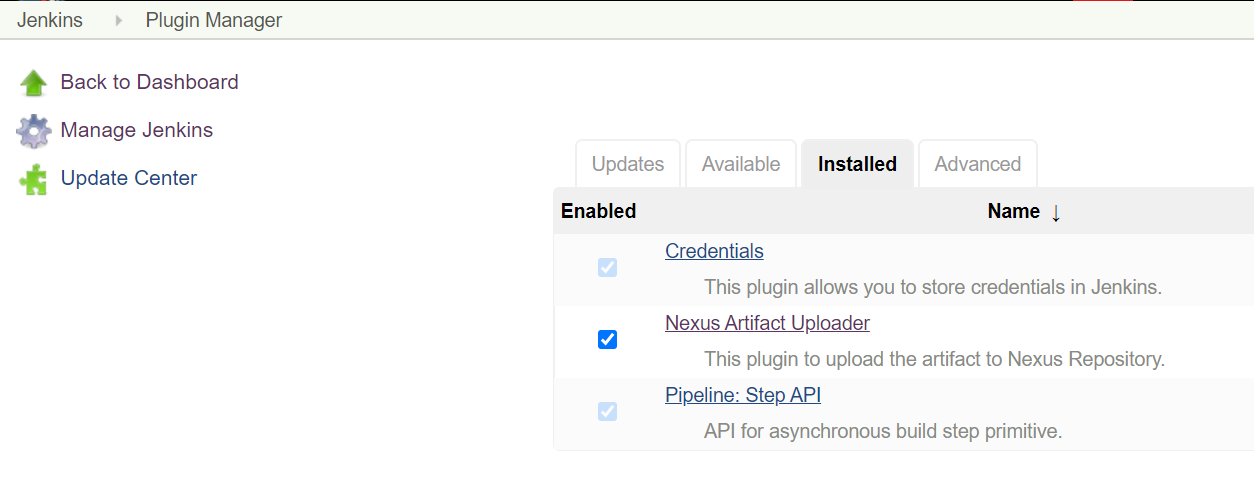
Username: admin

Password: admin123

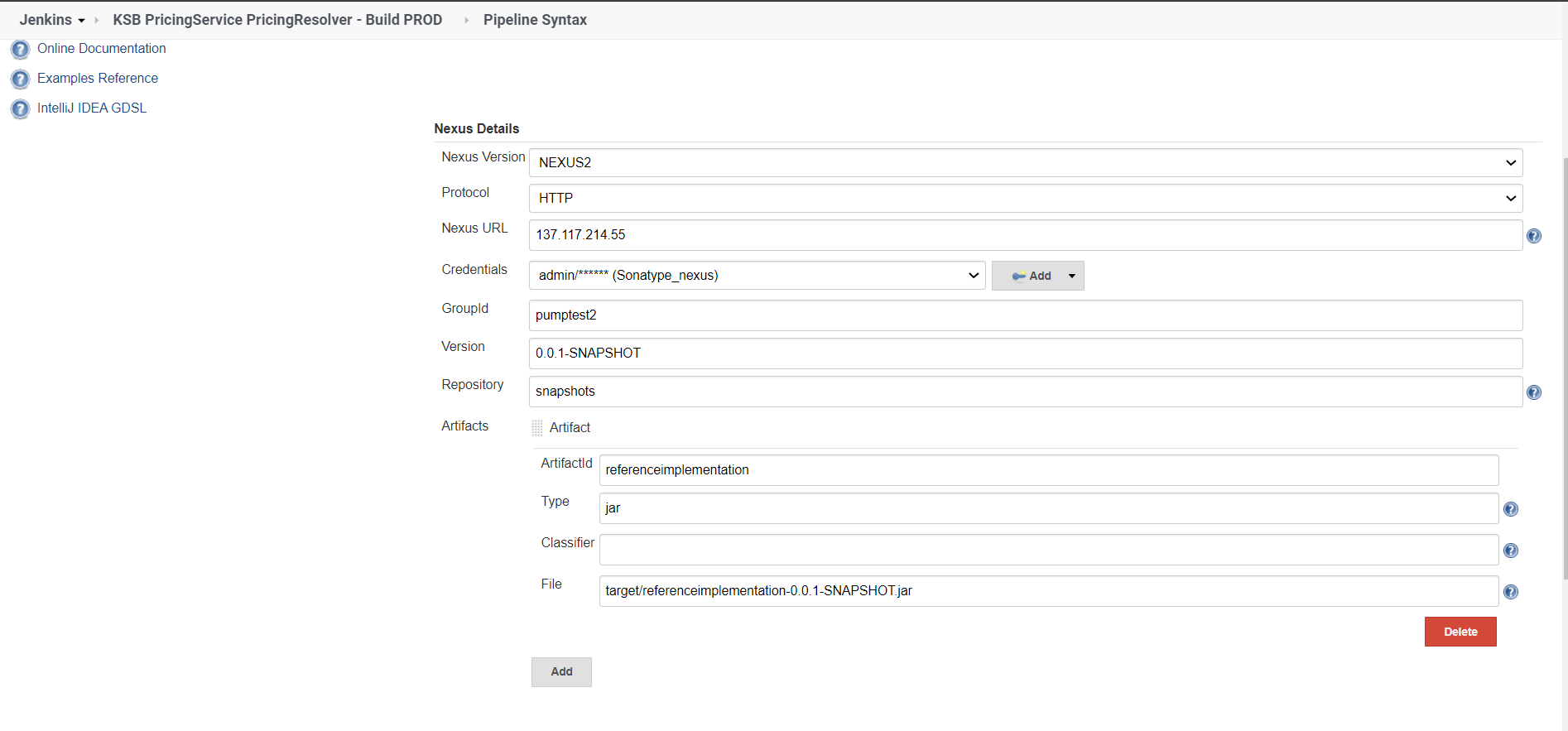


To test : curl http://localhost:8081/nexus/

Step3:- To integrate nexus with Jenkins, install the nexus plugin Manage Jenkins -> Manage Plugins -> Available, search for Nexus



Step4:- Go to Pipeline syntax & add details accordingly as below.



(Note: U will get the details of group,version,type in you pom.xml file and for repository check pom.xml file if version is specified as snapshot use snapshot if not then use release repository)

Select  generate pipeline script and add script n your step and run jour job.

nexusArtifactUploader artifacts: [

[

artifactId: 'referenceimplementation',

classifier: '',

file: 'target/referenceimplementation-0.0.1-SNAPSHOT.jar',

type: 'jar'

]

],

credentialsId: 'Sonatype\_nexus',

groupId: 'pumptest2',

nexusUrl: '137.117.214.55:8082/nexus',

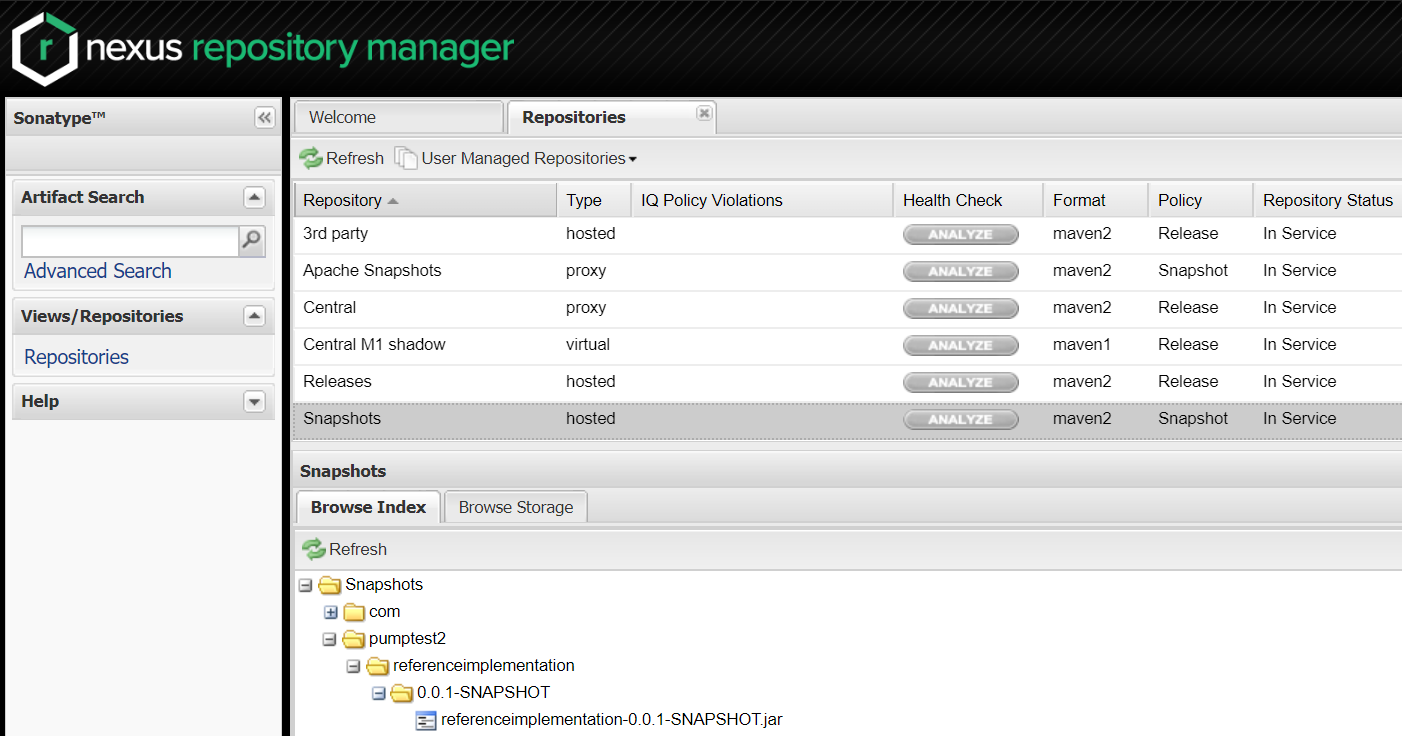
nexusVersion: 'nexus2',

protocol: 'http',

repository: 'snapshots',

version: '0.0.2-SNAPSHOT'

Step5:- after u run the job u will see the aftifact getting uploaded to nexus.



Stage details:-

stage('upload artifact'){

steps {

nexusArtifactUploader artifacts: [

[

artifactId: '',

classifier: '',

file: 'java-docker-build-tutorial/target/app.jar',

type: 'jar'

]

],

credentialsId: 'Sonatype\_nexus',

groupId: 'pump1',

nexusUrl: '137.117.214.55:8082/nexus',

nexusVersion: 'nexus2',

protocol: 'http',

repository: 'releases',

version: ''

}

}