**Operation Catalog CICD**

1. The Operation Catalog's code should be pushed to Git that is commonly used for CICD process.

2. Create a new "Pipeline Project" with name "CatalogTool"

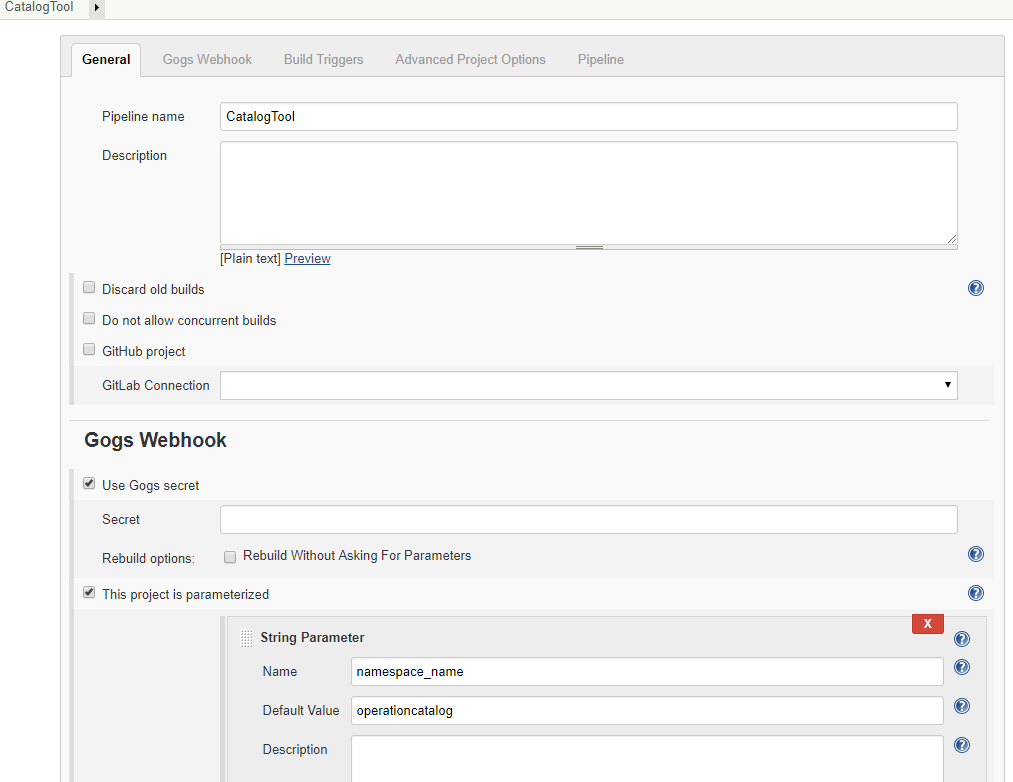
3. Manually create project in Openshift.

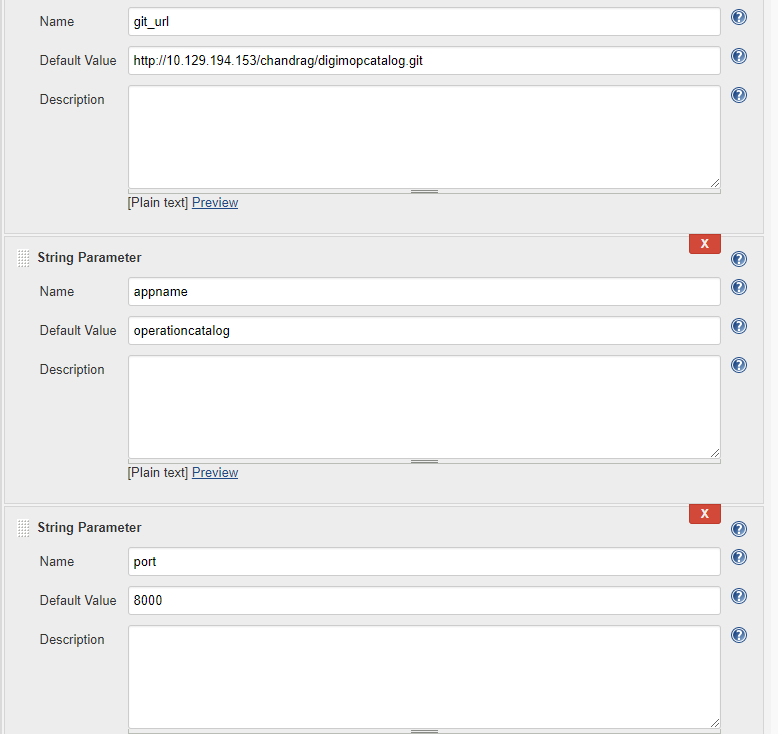
4. Create a Jenkins job with the below pipeline script:

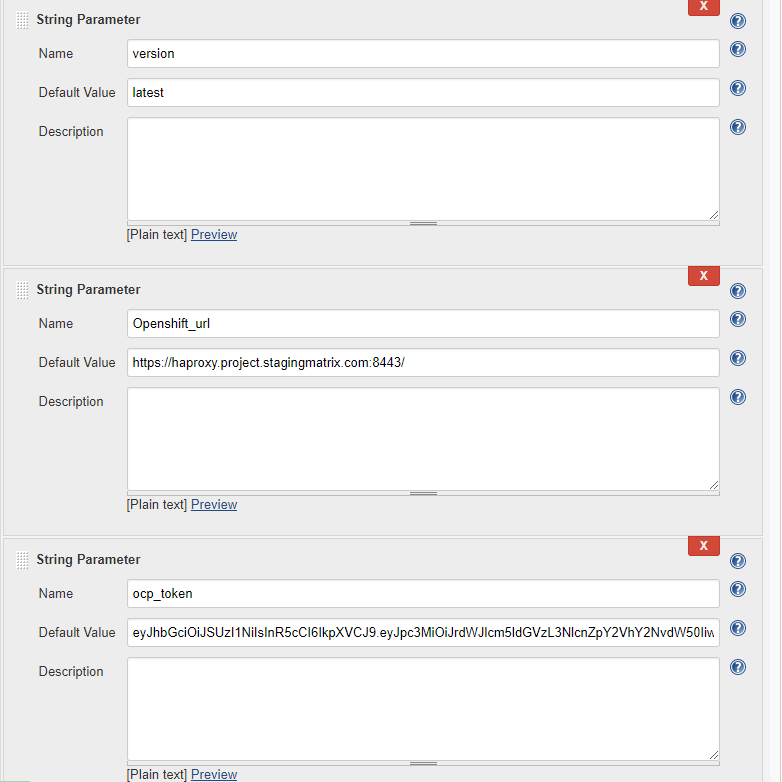
node('maven') {  
 // define commands  
 def mvnCmd = "mvn"  
 stage ('Build') {  
 //git '$git\_url'

git branch: '$branch', url: '$git\_url'  
   
   
 sh "${mvnCmd} clean install -DskipTests=true -DproxyHost=$proxy\_host -DproxyPort=$proxy\_port"  
 }  
 stage('static code analysis') {  
   
 sh "${mvnCmd} sonar:sonar -Dsonar.host.url=$sonar\_url -DskipTests=true"  
 }   
 /\*  
 stage('artifactory') {  
sh '''  
 curl -v $nexus\_url/repository/operation-catalog-repo/sit/ --user $nexus\_username:$nexus\_passwd --upload-file $WORKSPACE/target/\*.jar  
 '''  
 }   
 \*/  
 stage('Deploy DEV') {  
 sh "oc login $openshift\_url --token=$ocp\_token --insecure-skip-tls-verify"   
 sh '''  
 result=$(oc get projects | grep $namespace\_name | awk '{print $1}')  
 if [ ! -z "$result" ]; then  
 echo "project already exists."  
 oc project $namespace\_name  
 rm -rf oc-build && mkdir oc-build  
 cp target/\*.jar oc-build/\*.jar  
 oc delete bc,is -l app=$appname -n $namespace\_name  
 oc new-build --name=$appname --image-stream=openshift/redhat-openjdk18-openshift:latest --strategy=source --binary=true --labels=app=$appname -n $namespace\_name || true  
 oc start-build $appname --from-dir=oc-build --wait=true -n $namespace\_name  
 sleep 90s  
 oc new-app $appname:$version -n $namespace\_name  
 oc delete svc $appname -n $namespace\_name  
 oc expose dc $appname --port=$port -n $namespace\_name  
 oc expose svc $appname -n $namespace\_name  
 else  
 echo "Project doesn't exist"  
 exit 1  
 fi   
 '''   
 }  
}

Here is the configuration on jenkins side:

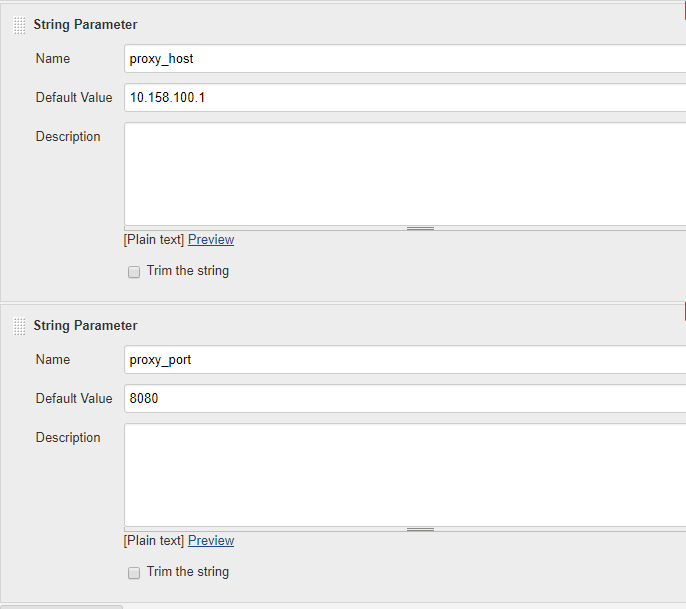


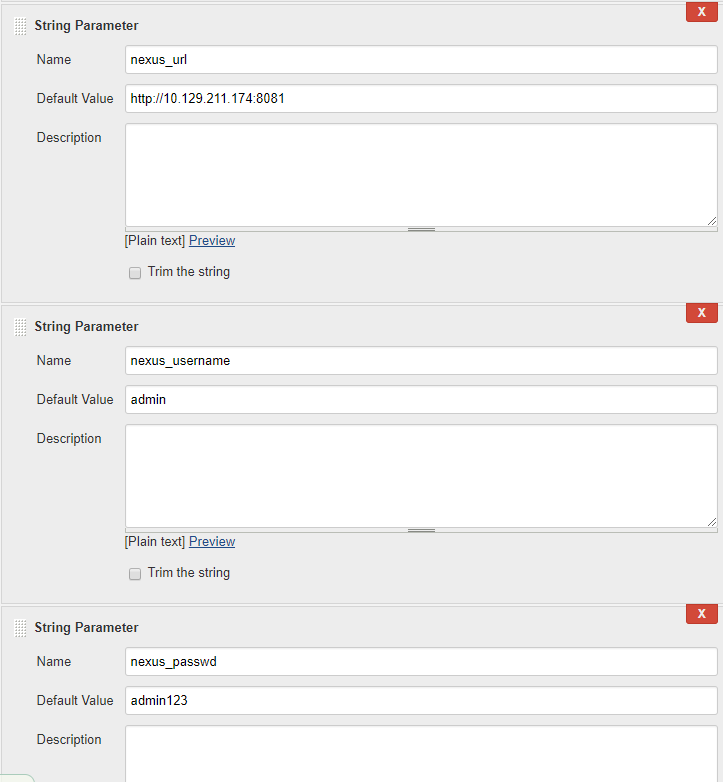


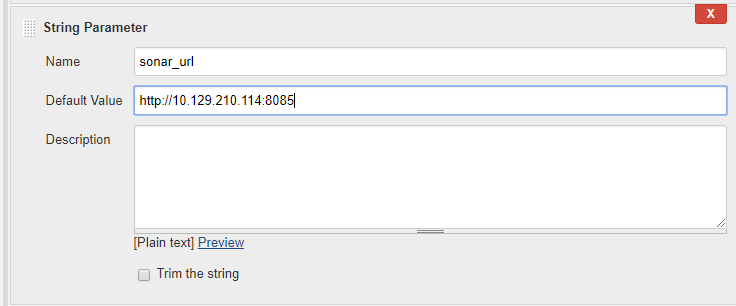


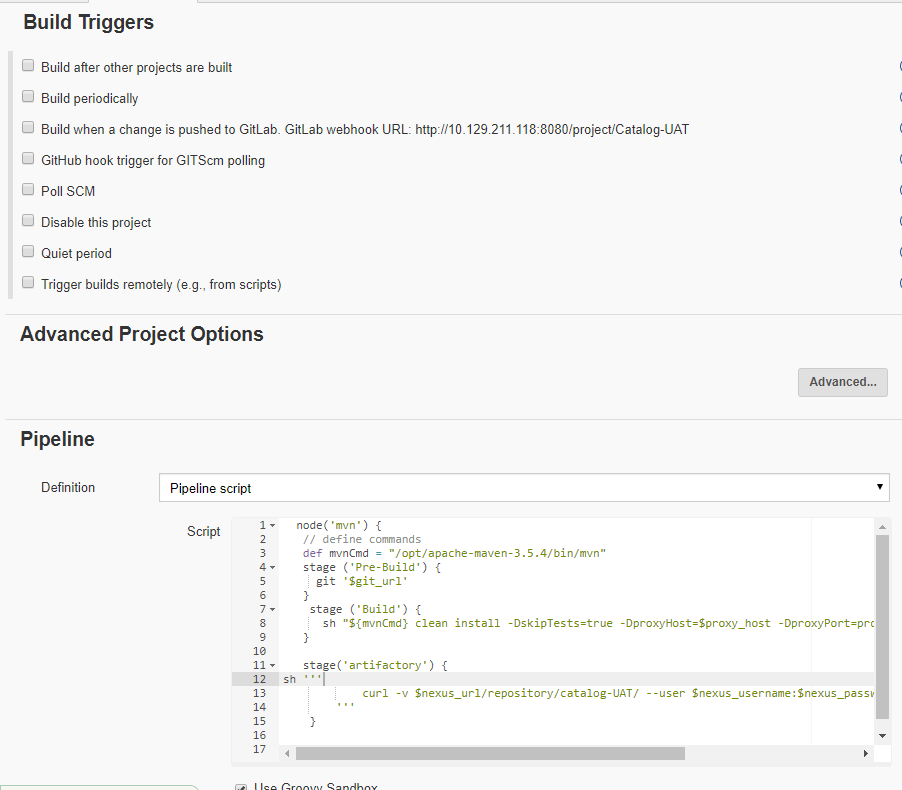


Update Default Value of Branch to MATRIX\_CATALOG\_UAT-2.1.0









5.Trigger the jenkins job and check the opneshift project whether application is deployed properly or not.

6.When you run the CICD process for the second time comment the below code as shown below:

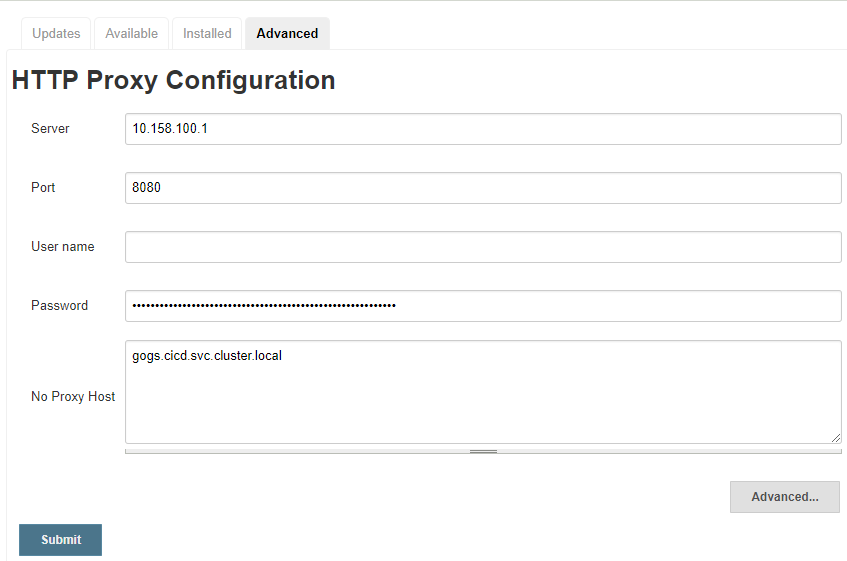
//sh "oc new-app $appname:$version -n $namespace\_name"  
 //sh "oc delete svc $appname -n $namespace\_name"  
 //sh "oc expose dc/$appname --port=$port -n $namespace\_name"  
 //sh "oc expose svc/$appname -n $namespace\_name"

**IF BEHIND THE PROXY:**

If the Openshift nodes are behind proxy then the below steps should also be followed:

Go to Jenkins > Manage Jenkins >Manage Plugins > Advanced Tab >

Under advanced tab make the following configuration as shown below:



Add the Server i.e IP of the Proxy server ,Port I.e port of the proxy server and add the entries “gogs” “gogs.cicd.svc.cluster.local” in the No proxy column. Click on submit. No need of setting the “password” filled. It will be auto-generated after submitting the above configuration.