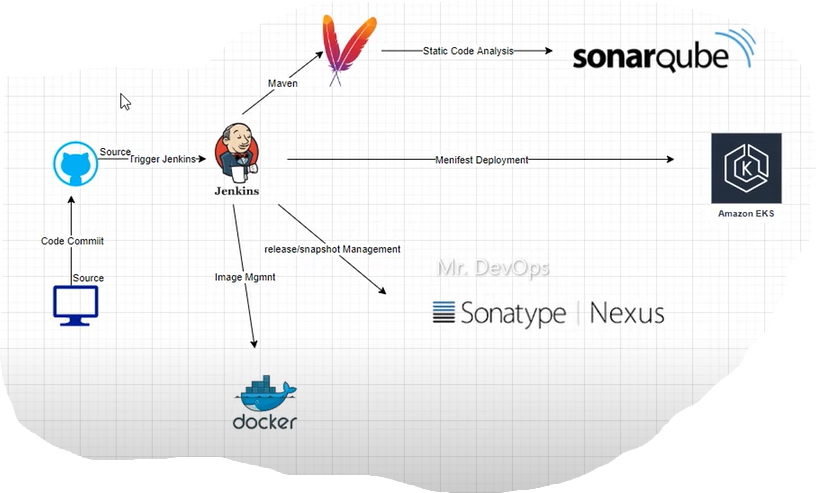
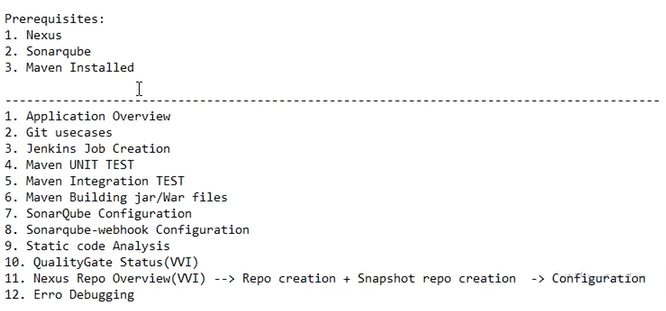
# End to End DevOps CI/CD Project | Git | Jenkins | Nexus | SonarQube | Docker | EKS





Installed and Configured

Jenkins

SonarQube

Nexus

Create Jenkins Job

stage('Static Code Analysis'){

             steps{

                script{

                  withSonarQubeEnv(credentialsId: 'sonar-api-key') {

                    sh 'mvn clean package sonar:sonar'

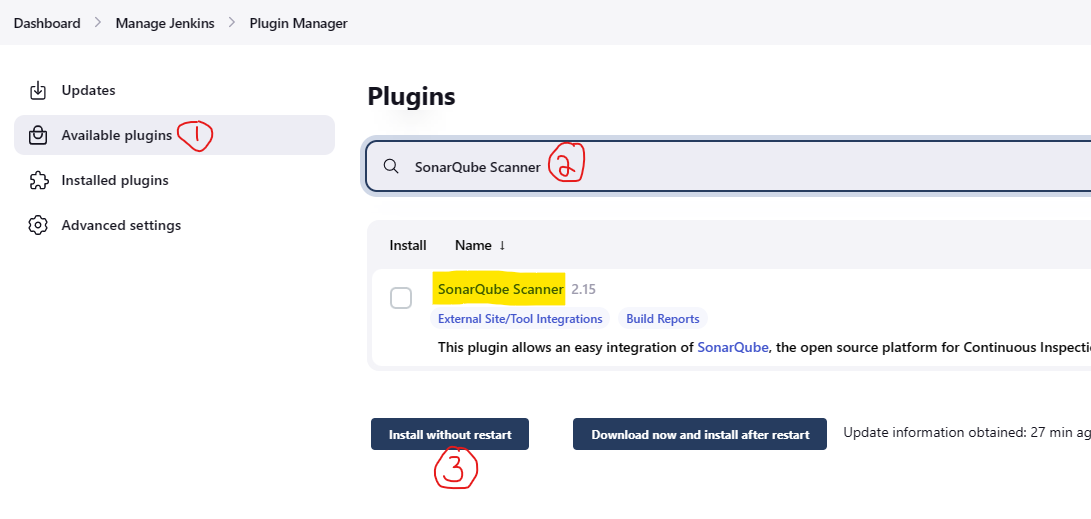
                    }

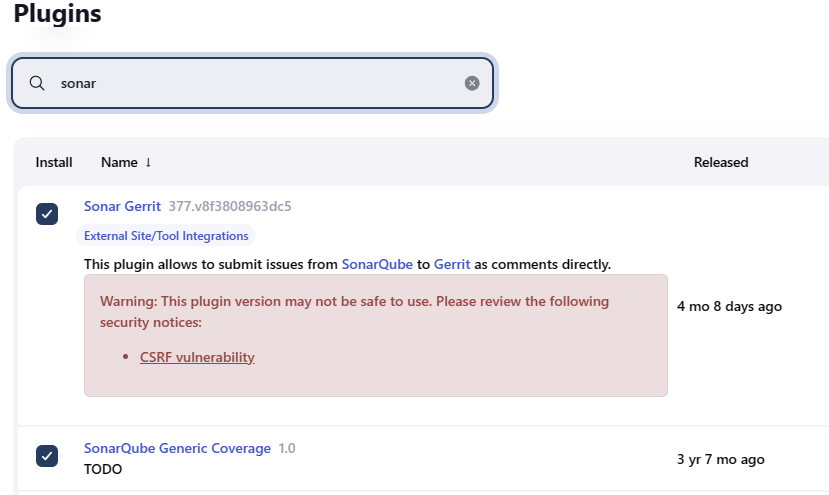
                }

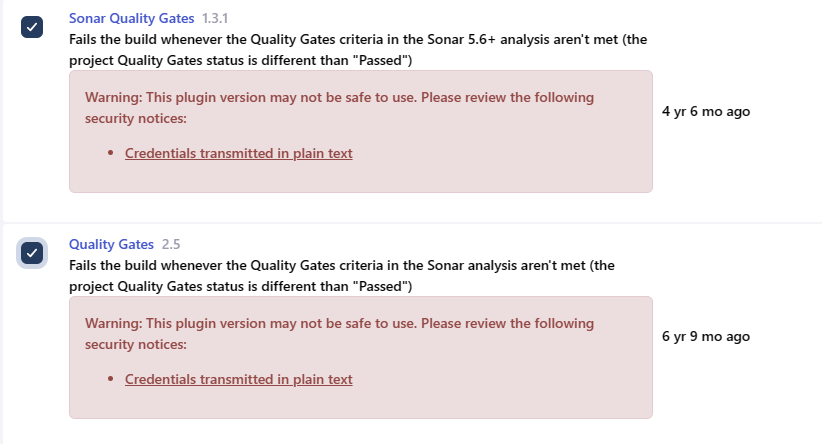
             }

        }

Make sure we have installed SonarQube plugins

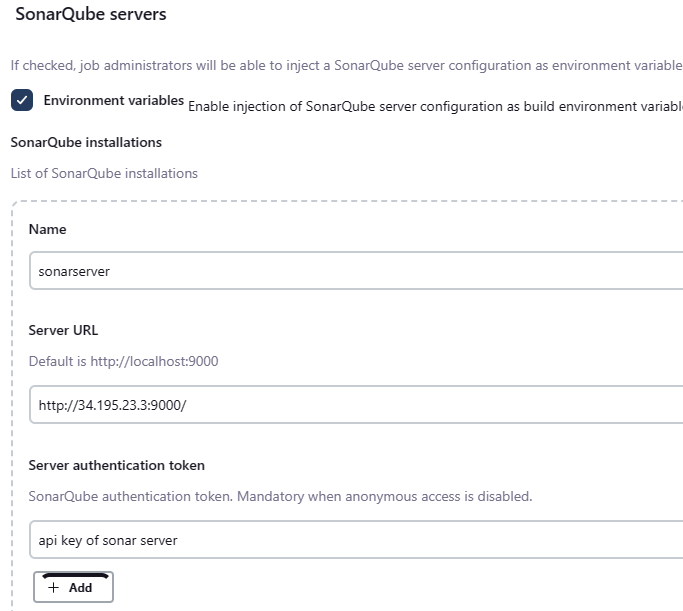




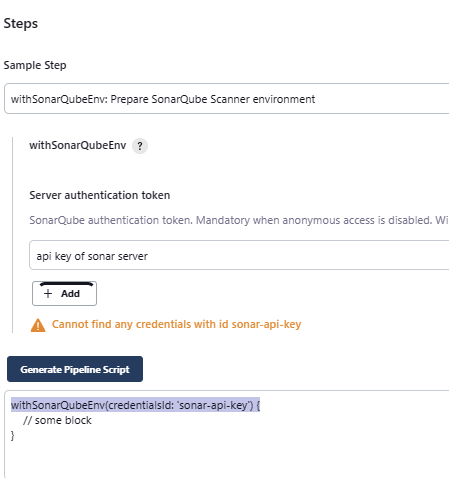


Also make sure Under Manage Jenkins--> Configure System --> SonarQube servers have required entries.

Create api token in SonarQube server and add it in Jenkins --> credentials (refer SonarQube installation document)



Pipeline syntax for Jenkins to talk to SonarQube server



        stage('Quality Gate status Check'){

             steps{

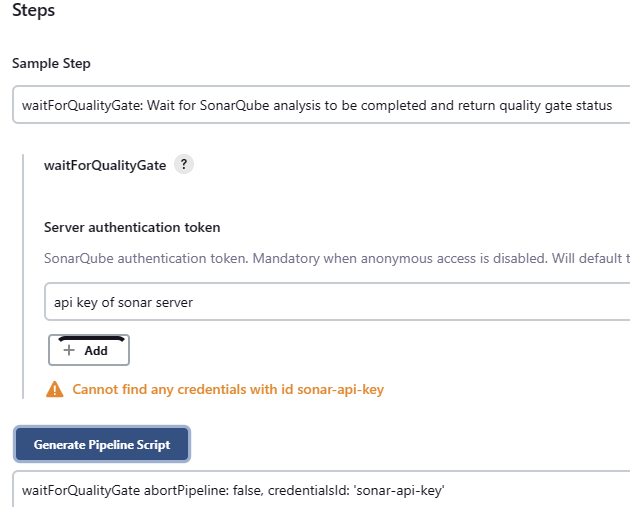
                script{

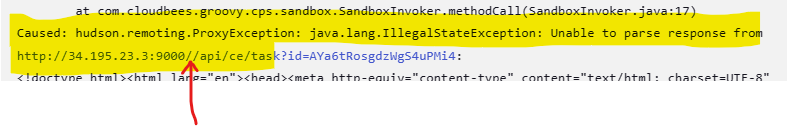
                   waitForQualityGate abortPipeline: false, credentialsId: 'sonar-api-key'

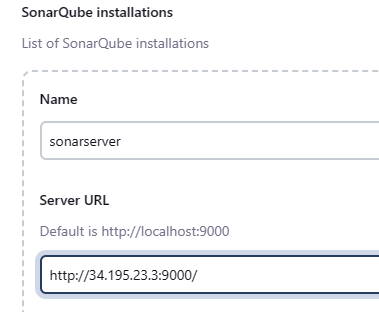
                }

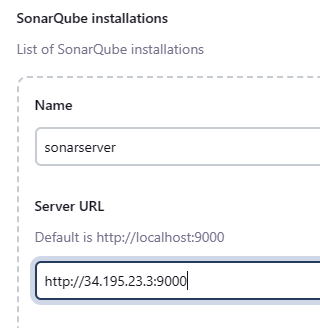
             }

        }









stage('Quality Gate status Check'){

             steps{

                script{

                   waitForQualityGate abortPipeline: false, credentialsId: 'sonar-api-key'

                }

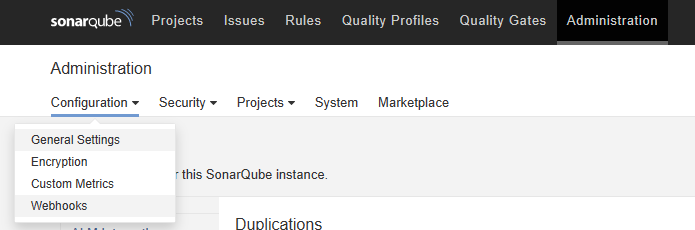
             }

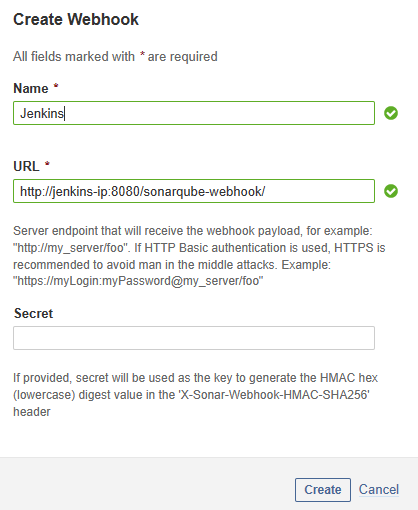
        }

Above stage will hang in PENDING status because of handshake issue

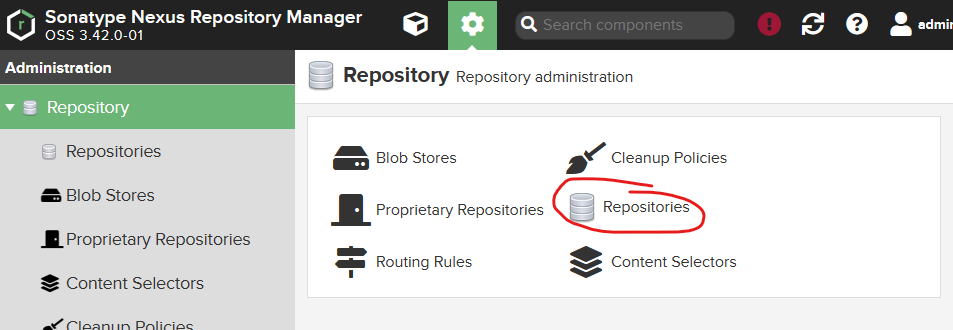


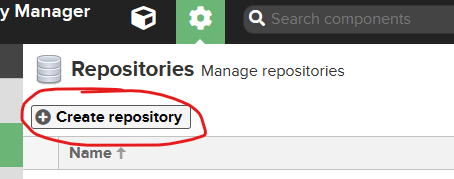
Jenkins can talk to SonarQube server using the API token we generated and added in credentials. But SonarQube can't talk back to Jenkins to confirm whether the 'Quality Gate status Check' is success or not. For that we need to generate a webhook in SonarQube server.

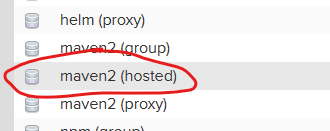




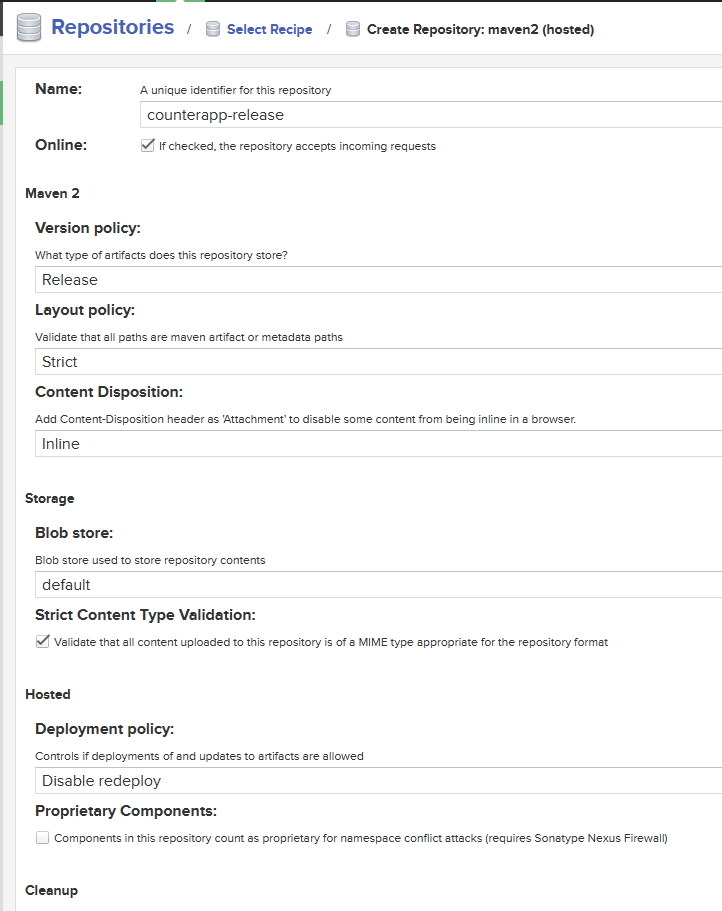
Create Nexus repository

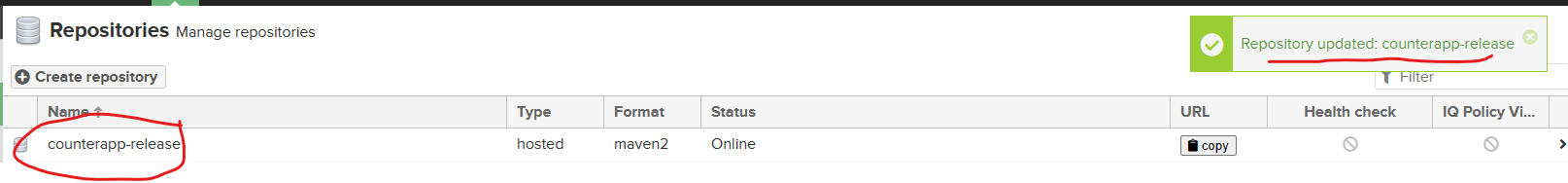






Enter name and leave everything AS-IS and create repository





        stage('Upload JAR to Nexus'){

            steps{

                script{

                    nexusArtifactUploader artifacts: [[artifactId: 'springboot', classifier: '', file: 'target/Uber.jar', type: 'jar']],

                    credentialsId: 'nexus-creds',

                    groupId: 'com.example',

                    nexusUrl: '3.213.160.126:8081',

                    nexusVersion: 'nexus3',

                    protocol: 'http',

                    repository: 'counterapp-release',

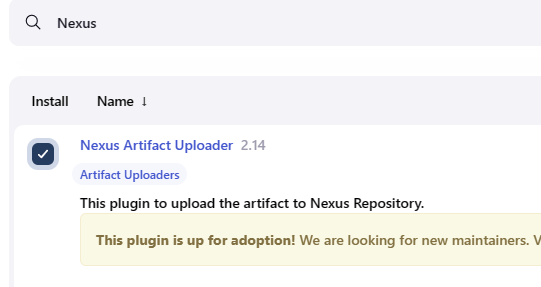
                    version: '1.0.0'

                }

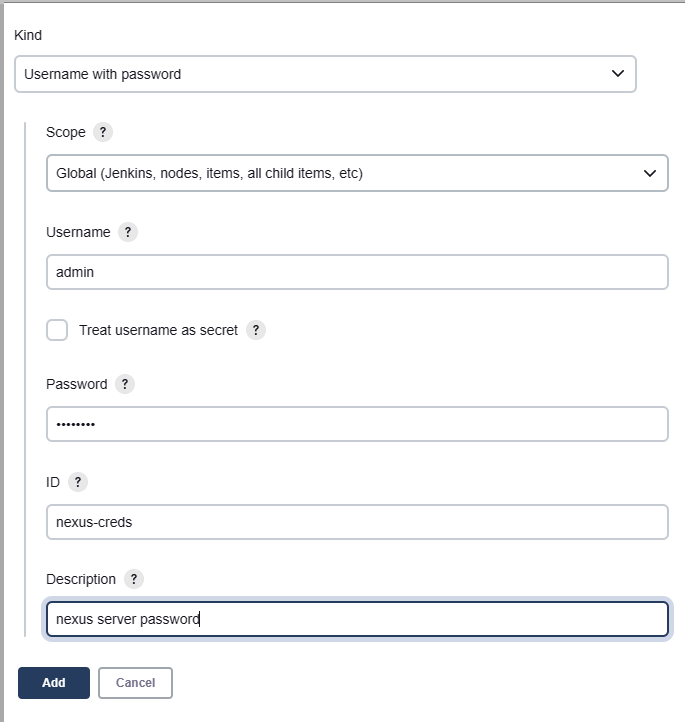
            }

        }

Install plugins which are required for Nexus



Add Nexus credentials to Jenkins



Pipeline Syntax generator

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

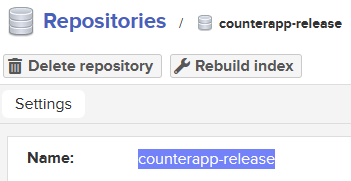
Use this values for pipeline generator

<groupId>com.example</groupId>

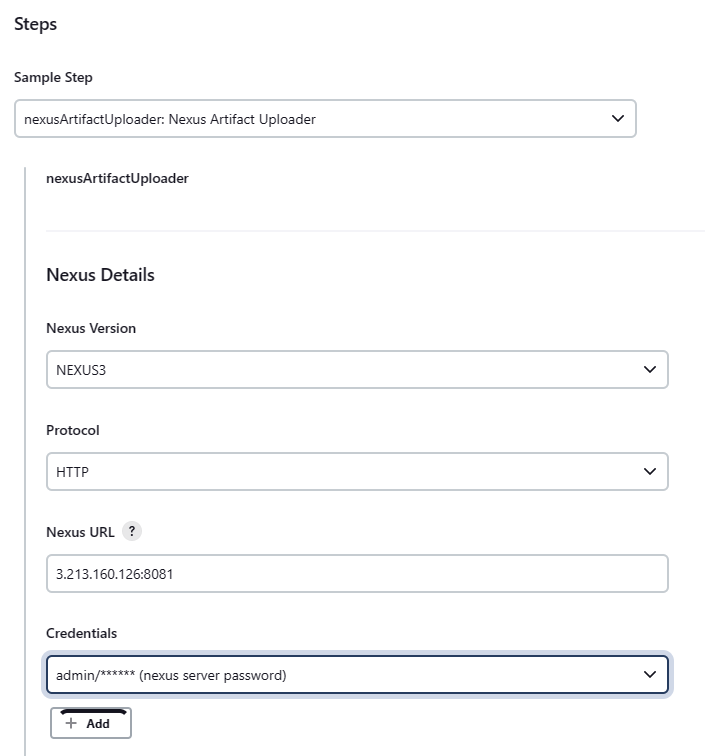
<artifactId>springboot</artifactId>

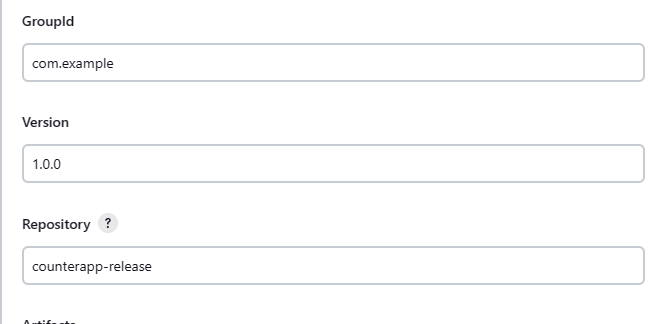
<version>1.0.0</version>

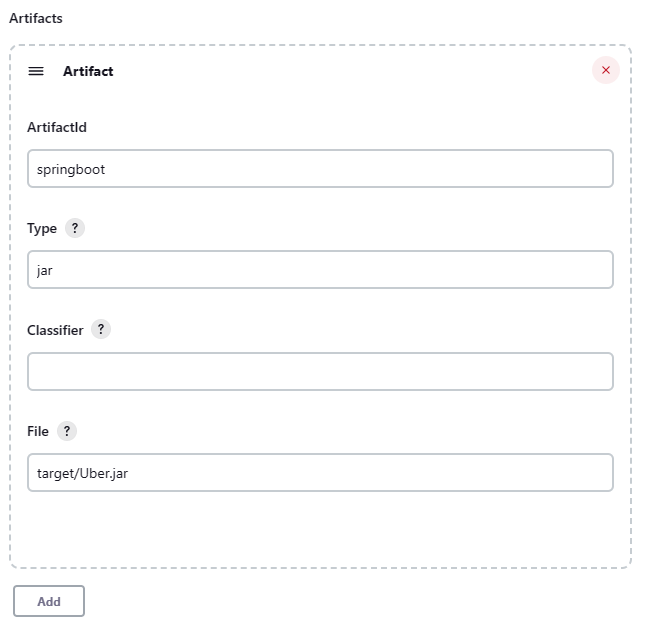
<finalName>Uber</finalName>



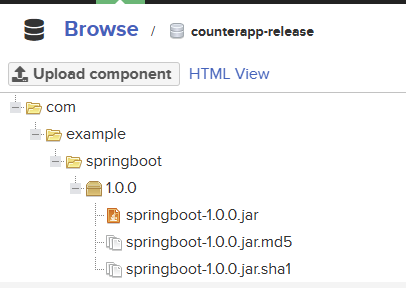
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*





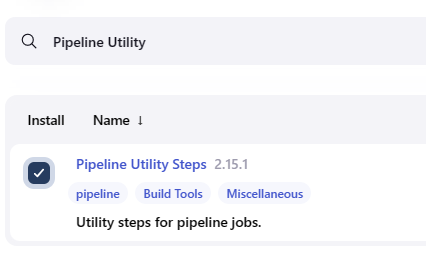


**nexusArtifactUploader artifacts: [[artifactId: 'springboot', classifier: '', file: 'target/Uber.jar', type: 'jar']], credentialsId: 'nexus-creds', groupId: 'com.example', nexusUrl: '3.213.160.126:8081', nexusVersion: 'nexus3', protocol: 'http', repository: 'counterapp-release', version: '1.0.0'**



But hardcoding version in Jenkinsfile is not a best practise

Install a plugin for this



Modify the stage like below

stage('Upload JAR to Nexus'){

            steps{

                script{

                    def readPomVersion = readMavenPom file : 'pom.xml'

                    def nexusRepo = readPomVersion.version.endsWith("SNAPSHOT") ? "counterapp-snapshot" : "counterapp-release"

                    nexusArtifactUploader artifacts: [[artifactId: 'springboot', classifier: '', file: 'target/Uber.jar', type: 'jar']],

                    credentialsId: 'nexus-creds',

                    groupId: 'com.example',

                    nexusUrl: '3.213.160.126:8081',

                    nexusVersion: 'nexus3',

                    protocol: 'http',

                    repository: nexusRepo,

                    version: "${readPomVersion.version}"

                }

            }

        }