# How to - Install jenkins and configuration on Cloud

## Pre-Requisites:

- 1.Operating system :RHEL/CentOS/Fedora/Ubuntu/Debaian
- 2. JDK 1.7 or above
- 3. Docker and git should be installed.

#### Jenkins installation -RHEL7

1. To install Jenkins on AWS/Gcloud Downloaded Docker Jenkins image through docker command.

2

#######################################	
Command	
Docker pull Jenkins:latest	
Run docker	
docker run -p 8080:8080 -p 50000:50000 -v /your/home:/var/jenkins_home/Jenkins jenkins	
#######################################	

This will store the Jenkins data in /your/home on the host. Ensure that /your/home is accessible by the Jenkins user in container

3. docker ps



4. login into container

CMD : docker exec -it {container id} /bin/bash

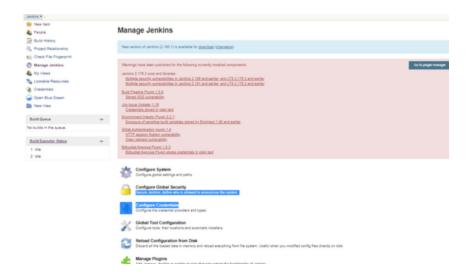
5. Once Jenkins is up and running, we can open its UI in a browser.

open: http://localhost

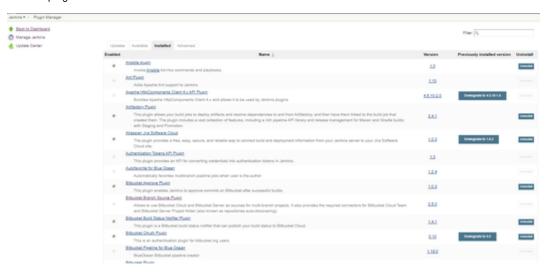
# **Installing Plugins in Jenkins**

Once the user has started the jenkins and is able to see the home page, the first thing is to install the plugins.

Go to Jenkins --> Manage Jenkins --> Manage Plugins web link as shown below:-



## installed plugins



## Global tool configuration:

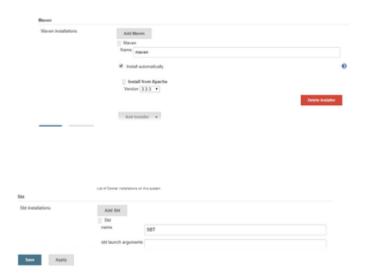
Go to manage Jenkins-->global tool configuration

Go to JDK, Ant installation and click on the add button and enter the respective installation path as shown below.

JDK

831px

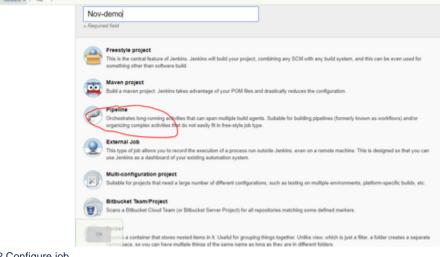




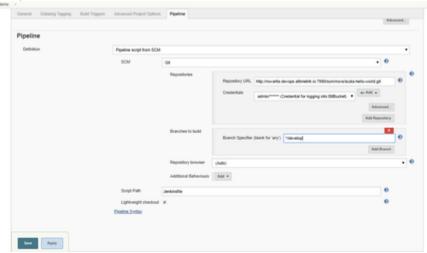
## Creating pipeline job in jenkins:

To create a pipeline in Jenkins follow under mentioned steps:

1.Create on New Item and select the job type as pipeline. This is shown in below screenshot:



2.Configure job



3.Jenkins file stage

a. Build stage

#### b. Sonar test

c. Publish

```
####################
Publish the code to
nexus/artifactory
######################
In this stage it publish the articfats in to nexus repository
script {
                    withCredentials([usernamePassword(credentialsId:
'artifactory', passwordVariable: 'pass', usernameVariable: 'user')]) {
                        version = nextVersionFromGit()
                        sh "sed -i '/ThisBuild \\/ version/c\\ThisBuild
\\/ version
                    :=\"${version}\"' build.sbt"
                        sh "${tool name: 'sbt',
type:'org.jvnet.hudson.plugins.SbtPluginBuilder$SbtInstallation'}/bin/sb
t package"
                        echo "Deploy
target/scala-2.12/hello-world_2.12-${version}.jar "
                       sh "curl -u ${user}:${pass} -T
target/scala-2.12/hello-world_2.12-${version}.jar
'http://novartis.devops.altimetrik.io:8081/artifactory/scala-project/hel
lo-world_${version}.jar'"
```