**Pipelines Configurations**

Go to Oracle Virtual box and Start (If the machine is in Power off state) Vagrant 11 Machine.

Launch Putty and do ssh for vagrant 11 machine and login.

**[vagrant@chef]**cd /home/vagrant/

**[vagrant@chef]ls**

**[vagrant@chef]**cd subversion-1.9.4-1/

**[vagrant@chef subversion-1.9.4-1]**ls

**[vagrant@chef subversion-1.9.4-1]**cd subversion/bin/

sh svnadmin create /home/vagrant/jenpipe

cd ../../

**[vagrant@chef subversion-1.9.4-1]** apache2/conf/

**[vagrant@chef subversion-1.9.4-1]** vi httpd.conf

Shift+g provide the svn path **/home/vagrant/jenpipe** and also change here Port Number to **8081**

Esc**: wq!** To save the configuration file.

**[vagrant@chef subversion-1.9.4-1**] sh ctlscript .sh restart

This command is to restart the subversion.

**[vagrant@chef subversion-1.9.4-1]$** cd ../

Start the Jenkins Server.

**[vagrant@chef subversion-1.9.4-1]$** java –jar Jenkins.war

Now launch Browser and provide url’s:

<http://192.168.33.11:8080/> <Jenkins URL>

<http://192.168.33.11:8081/subversion/> <SVN URL>

1. Create one folder at desktop and name it as pipeline.
2. Go inside the folder and type cmd from folder url prompt.
3. At Command prompt give below commands:

C:\Users\Sasikanth\Desktop\pipeline\svn co <http://192.168.33.11:8081/subversion/>

C:\Users\Sasikanth\Desktop\pipeline\cd subversion

C:\Users\Sasikanth\Desktop\pipeline\subversion\

C:\Users\Sasikanth\Desktop\pipeline\subversion\sh svn mkdir Branch Trunk Tag

C:\Users\Sasikanth\Desktop\pipeline\subversion\svn status

C:\Users\Sasikanth\Desktop\pipeline\subversion\svn add \*

C:\Users\Sasikanth\Desktop\pipeline\subversion\svn ci -m “folders added”

Copy the “src” and “build.xml” files into Branch Trunk and Tag folders.

C:\Users\Sasikanth\Desktop\pipeline\subversion\svn status

C:\Users\Sasikanth\Desktop\pipeline\subversion\cd Branch

C:\Users\Sasikanth\Desktop\pipeline\subversion\Branch\svn add \*

C:\Users\Sasikanth\Desktop\pipeline\subversion\Branch\svn ci –m “folderupdate”

C:\Users\Sasikanth\Desktop\pipeline\subversion\Branch\cd ..\

C:\Users\Sasikanth\Desktop\pipeline\subversion\cd Trunk

C:\Users\Sasikanth\Desktop\pipeline\subversion\Trunk\svn add \*

C:\Users\Sasikanth\Desktop\pipeline\subversion\Trunk\svn ci –m “folderupdated”

C:\Users\Sasikanth\Desktop\pipeline\subversion\Trunk\cd ..\

C:\Users\Sasikanth\Desktop\pipeline\subversion\cd Tag

C:\Users\Sasikanth\Desktop\pipeline\subversion\Tag\svn status

C:\Users\Sasikanth\Desktop\pipeline\subversion\Tag\svn add \*

C:\Users\Sasikanth\Desktop\pipeline\subversion\Tag\svn ci –m “folderupdates”

Go to the browser and refresh the Subversion url <http://192.168.33.11:8081/subversion/>

We can see the changes of **Revision** numbers.

Create one more folder in Desktop name it as Jenkins Logs.

Copy the folder Path of “Jenkins Logs” Desktop.

**For Ex:** C:\Users\Sasikanth\Desktop\Jenkins Logs

Now go to Jenkins Dashboard <http://192.168.33.11:8080/>

1. Create 3 Jobs name it as:
2. CI-SRC-TRUNK
3. CI-SRC-BRANCH
4. CI-SRC-TAG
5. **Creating Node/Jobs:**

Launch Jenkins Dashboard <http://192.168.33.11:8080/>

1. At Jenkins Dashboard clicks on “Manage Jenkins”.
2. We can see Manage Jenkins, scroll down and click on Manage Nodes 🡪 New Node.
3. Provide **Node name** and click on Radio button “**Dumb Slave**” 🡪 **Ok** button.

For Ex: practice

1. Provide **Description** as ‘For Jenkins Practice’.
2. At **Remote root directory** provide the “**Jenkins Logs**” path

For Ex: C:\Users\Sasikanth\Desktop\Jenkins Logs

1. At **Launch method** drop down select **Launch slave agents via Java Web Start**
2. Do enable the check box for Tool Locations.
3. Click “Save”.

Click on Manage Jenkins 🡪 Configure System

At Configure System page scroll down.

Click on JDK Installation **JDK installations 🡪 Add JDK**

Provide JDK Name as JAVA\_HOME

Uncheck “Install automatically”.

Provide java location path at JAVA\_HOME

For Ex: C:\Program Files\Java\jdk1.7.0\_79

At Ant Click on **Ant Installations…**

Provide Ant Name as ANT\_HOME

Uncheck “Install automatically”.

Provide Ant location path at ANT\_HOME

For Ex: C:\Users\Sasikanth\Desktop\DevOps\Devops softwares\ANT Installation\apache-ant-1.9.7-bin\apache-ant-1.9.7

Do enable the check box for **Tool Locations.**

Click on Add button.

At Name click on drop down and select JAVA\_HOME and provide Java path

For Ex: C:\Program Files\Java\jdk1.7.0\_79

Click again Add button.

At Name click on drop down and select ANT\_HOME and provide ANT path

For Ex: C:\Users\Sasikanth\Desktop\DevOps\Devops softwares\ANT Installation\apache-ant-1.9.7-bin\apache-ant-1.9.7

Click on “Save” button.

Click on Manage Jenkins 🡪 Manage Nodes 🡪 Click on newly created node “practice”.

Click on “Configure”.

Scroll down and click to enable the check box for “Tool Locations”.

List of tool locations drop down select JAVA\_HOME and provide java path.

Click on “Add”.

List of tool locations drop down select ANT\_HOME and provide ANT path.

Click on “Save” button.

We can see Launch Java.

Click on the Launch and download the **slave-agent.jnlp**

Once downloaded to local laptop/pc click on the **slave-agent.jnlp**

We can see **Jenkins Slave Agent** pop-up connected notification.

Click on New Item to create Jobs.

Provide Item name: CI-SRC-TRUNK and select “Freestyle project” and click “OK” button.

At Configuration page scroll down enable the check box for **Restrict where this project can be run** and provide node name **practice.**

Scroll down enable the Radio button for **“Subversion”.**

Provide **Repository URL** [**http://192.168.33.11:8081/subversion/Trunk/**](http://192.168.33.11:8081/subversion/Trunk/)

Click on “Add build step” drop down and select “Invoke Ant”.

At Ant Version click on drop down box and select ANT\_HOME.

Click on **“Add post-build action”** drop down and select “**Archive the artifacts**”  
Files to archive \*\*/\*.jar

Click on “Save” button.

We can see Project CI-SRC-TRUNK page.

Click on **“Build Now”.**

We can see Build generates in Build History.

Similarly create 2 more nodes name it as practice1 and practice2.

Similarly create 2 more jobs name it as CI-SRC-BRANCH and CI-SRC-TAG.

Once all actions done click on **“Manage Jenkins 🡪 Manage Plugins”.**

Click on Available tab and at search filter type **Build Pipeline** and click on search icon.

Do click on the check box for **Build Pipeline Plugin** and click on **Install without restart** button.

Installation done successfully.

Click on Jenkin and click on any Job.

Selected CI-SRC-TRUNK job.

Click on Configure.

Enable the Poll SCM and provide \* \* \* \* \*

Scroll down and click on **“Add post-build action”** drop down box and click on **“Trigger parameterized build on other projects”.**

We can see **Trigger parameterized build on other projects .**

**Build Triggers**

**Projects to build** Type CI-SRC-BRANCH

**Trigger build without parameters** enable the check box.

Click on “Save” button.

At Project CI-SRC-Trunk page we can see Downstream Projects **CI-SRC-BRANCH**

Click on Jenkin and click on **CI-SRC-BRANCH** Job.

Click on Configure.

Enable the Poll SCM and provide \* \* \* \* \*

Scroll down and click on **“Add post-build action”** drop down box and click on **“Trigger parameterized build on other projects”.**

We can see **Trigger parameterized build on other projects.**

**Build Triggers**

**Projects to build** Type CI-SRC-TAG

**Trigger build without parameters** enable the check box.

Click on “Save” button.

At Project **CI-SRC-Branch** we can see **Upstream Projects CI-SRC-Trunk** and **Downstream Projects** **CI-SRC-TAG**

Click on Jenkins.

We can see list of Jobs we created and at top we can see “**+**” symbol.

Click it.

Provide **View name as “My Jobs View”** and do enable the Radio button for **Build Pipeline View.**

Click on “OK” button.

At **Pipeline Flow**

**Upstream / downstream config**

**Select Initial Job** click on drop down box and select **“CI-SRC-TRUNK”.**

At **Display Options**

**No Of Displayed Builds** click on drop down box and select 10.

**Click “OK” button.**

Now at Jenkins page click on **My Jobs View.**

We can see list of Jobs running i.e., **CI-SRC-TRUNK** in Yellow colour first and after finishes it changes to Green colour.

Same will be executed for **CI-SRC-BRANCH** and **CI-SRC-TAG**.

Now go to desktop and go inside pipeline folder where svn was checked out.

Create one folder inside the TRUNK.

At Command prompt

**C:\Users\Sasikanth\Desktop\mprac\subversion>**cd Trunk

**C:\Users\Sasikanth\Desktop\mprac\subversion\Trunk>**svn add test

A test

**C:\Users\Sasikanth\Desktop\mprac\subversion\Trunk>**svn ci -m "folderadded"

Adding test

Committed revision 2.

**C:\Users\Sasikanth\Desktop\mprac\subversion\Trunk>**svn update

Updating '.':

At revision 2.

Go to Jenkins and click on job **CI-SRC-TRUNK**

Click on “Configure”.

Do not make any changes and click on “Save” button.

At Build History we can see Build Triggered.

Click on Back to Dashboard and click on “My Jobs View” tab.

We can see Build status running again because of we have checked in the folder in SVN.