**Jenkins tutorial**

<https://www.youtube.com/watch?v=O6BJEptOjjs> for maven run through git-hub/cmd

<https://www.youtube.com/watch?v=pzbrVVy6ul4> for pipeline

**jenkins**

**password** - 2e2af3a9127a49b99ac5787a7b5fcf45

**office pc -** 126c6c05f05c496380f1172106550b0d

**office pc -** cef31a527da24b97aaf06da21175efb7

location - C:\Users\ksanj\.jenkins\secrets\initialAdminPassword

**username-** admin

**password** - 123456789

jenkins war command - to see the steps to create local host

open cmd at jenkins war download location and type --- **java -jar jenkins.war**

[**http://localhost:8080**](http://localhost:8080)

**After installation of jenkins**

1. manage jenkins**-->**plugins-->available plugin**-->**search maven**-->**select Maven Integration

**Steps to run maven program through Git-hub path**

**step** **1** - create new project-->freestyle project

**step** **2** - select Git-->paste url-->give credential

**step 3** - check branch specifier -->master is seleted or (select the other branch in which pom.xml is located)

**step 4** - Build steps-->Invoke top level maven target-->

Goals-->clean test

Advanced-->pom.xml in (POM)

**Step -** to generate email notifications click on post buid-🡪Editable email notification-🡪enter mail id of project recipient list-🡪content type-🡪 Html-🡪 status

<https://www.youtube.com/watch?v=OdqnzsAHp5I&list=PL5fOKT7XR42Po4zh8nHCozrcsMboLNXjF&index=13>

**step 5** - Apply & save.

<https://www.youtube.com/watch?v=4N7oGh1-rXo&list=PL6flErFppaj35spJjPy41-lruDjw2kRV-&index=11>

to run Jenkins periodically check above video link

**Steps to run maven program through CMD**

**step 1** - create new project

**step 2** - go to General-->advanced-->Use custom workspace-->paste pom.xml path in Directory

**step 3** - Build steps-->Execute windows batch command--> cd space path of pom.xml & mvn test in next line

**eg:-** cd C:\Users\Dell\eclipse-Sanjay\Ehome

mvn test

**step 4** - Apply & save -🡪 build now

**For Jenkins Pipeline**

[**https://www.youtube.com/watch?v=AqITZLJ5eZ4&list=PL6flErFppaj35spJjPy41-lruDjw2kRV-&index=13**](https://www.youtube.com/watch?v=AqITZLJ5eZ4&list=PL6flErFppaj35spJjPy41-lruDjw2kRV-&index=13)pipeline setup link

Setup-🡪 manage jenkins-->plugins-->available plugin-->search pipeline-->select Maven Integration

**step 1** - create new project-->pipeline

**Pipeline Script**

pipeline {

agent any

stages{

stage("hello"){

steps{

echo "welcome to jenkins pipeline"

}

}

}

}

**Steps for creating pipeline through github(to clone the project)** [**https://www.youtube.com/watch?v=DCY530UL0as**](https://www.youtube.com/watch?v=DCY530UL0as)

Step 2 – click on pipeline syntax-🡪 sample steps-🡪git:Git-🡪paste github url-🡪check branch-🡪credentials-🡪click on generate pipeline script

Copy the generated script and paste in the **pipeline script**

pipeline {

agent any

stages{

**stage("git"){**

**steps{**

**git credentialsId: 'b33a4149-8c8b-438c-aff2-8fbeada656a5', url: 'https://github.com/ksanjay815/Ehome.git'**

**}**

**}**

}

}

Step 3 – apply & save -🡪 build now

**Note :** In The above script the stage { } part is to clone git-hub project to local repo only.

**Steps for creating pipeline through github(to clone the project and run through maven command)**

**To run maven test we have to add one more stage for maven command.(as mentioned below)**

[**https://www.youtube.com/watch?v=kO7wrtY2b3E**](https://www.youtube.com/watch?v=kO7wrtY2b3E)

pipeline {

agent any

environment{

PATH= "/opt/apache-maven-3.9.6/bin/:$PATH"

}

stages{

stage("git clone"){

steps{

git credentialsId: 'b33a4149-8c8b-438c-aff2-8fbeada656a5', url: 'https://github.com/ksanjay815/Ehome.git'

}

}

stage("build code"){

steps{

sh "mvn clean install"

}

}

}

}