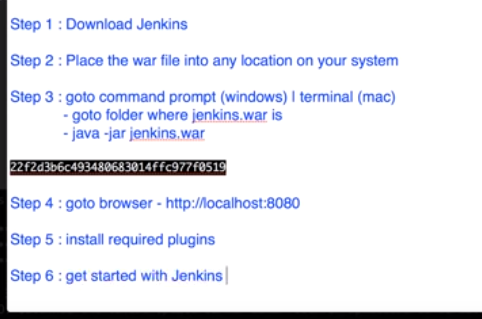
Jenkins

**What is Jenkins?**

* Jenkins is java application
* Used for continuous integration and continuous delivery



Admin password : 2354c8337d3841ce9def7b2a40ff259c

**How to setup Jenkins on Tomcat :-**

**Why we need to deploy Jenkins on Tomcat ?**

Jenkins comes by default with its own servlet container **Jetty/Winstone,** and we can also start and deploy our Jenkins on different servlet container like Tomcat. The main reason is we can start our all application on a single server, so that all our web application as well as Jenkins will be on the same server.

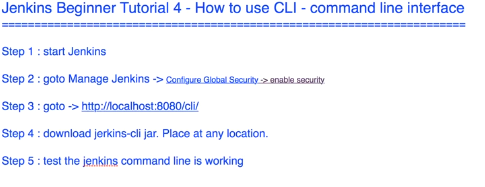
**Note :** It is not necessary to deploy Jenkins on Tomcat or any other server.it could be on its by default server Jetty/Winstone.



**How To Use Command line Interface ?**

**Why we should go with CLI as we already have its UI ?**

1. Easier
2. Faster
3. Memory management (efficient)
4. Continuous Integration



# How to create Users + Manage + Assign Roles :

# 

# 

# Jenkins Basic Configurations:

# Jenkins Getting started with JOBS:

# 

# Jenkins integration with GIT (SCM)

# 

# How to use CATLIGHT using Jenkins :

# What is CATLIGHT?

# Catlight is notifier for developer.

# It is a notification app for developers. It shows the current status of continuous delivery, tasks & bugs in the project and informs when attention is needed.

# Automated Deployment :

# 

# 

# Step 1 : Start Jenkins

# Step 2 : Install Plugin : we have to install Deploy Plugin for Jenkins

# Jenkins-> manage Jenkins -> manage plugin -> Available tab -> search for Deploy to container plugin -> install and restart button

# Step 3 : Create a build job in Jenkins : This build will create a simple war file or ear file

# Step 4 : Add post build action (Deply War/Ear in container) : To do so add values to the field.

# 

# 

# Notifications - How to send Email from Jenkins:

# What is Pipeline in Jenkins :

# 

# 

# How to setup DELIVERY PIPELINE in Jenkins :

# Step1 : Chain required jobs in sequence: Add upstream/downstream jobs

# Eg: First Job is build job 🡪 deploy jib 🡪 Test job will be triggered sequencially

# Step 2 : Install Delivery pipeline plugin:

# Jenkins-> manage Jenkins -> manage plugin -> Available tab -> search for Delivery pipeline -> install and restart button

# Step 3 : Add Delivery pipeline view Configure the view : Configure the view

# Press + icon and select Delivery pipeline view radio button

# Step 4 : run and Validate

# How to setup BUILD PIPELINE in Jenkins:

# Step1 : Chain required jobs in sequence: Add upstream/downstream jobs

# Eg: First Job is build job 🡪 deploy jib 🡪 Test job will be triggered sequencially

# Step 2 : Install Build pipeline plugin:

# Jenkins-> manage Jenkins -> manage plugin -> Available tab -> search for Build pipeline -> install and restart button

# Step3: Add Build Pipeline view in Jenkins : Configure the view

# Press + icon and select Delivery pipeline view radio button

# Step 4 : run and Validate

# Jenkins Blue Ocean ? How to get started?

# What is BLUE OCEAN ?

# Blue Ocean is new experience for Jenkins which is design to reduce the clutter and increases the clarity

# IN Simple words : Blue Ocean is a new user interfacefor Jenkins and provides an interactive view for Jenkin pipelines ( and jobs).

# How to get Blue Ocean?

# Prerequisite:

# Jenkins must be 2.7 version or more

# Step 1 : Install Blue Ocean:

# User can switch any time from Blue Ocean to Jenkins classic view

# Jenkins How to Trigger Job with Email | Poll Mailbox Trigger Plugin:

# Based on certain mail subject a job is triggered.

# Jenkins How to create Build Monitor View: