**Jenkins** is a continuous integration tool. It is used for development, execution and deployment etc.

**Start Jenkins with Tomcat Server: -**

1. Download Tomcat Server
2. Put **Jenkins.war** file in **Webapps folder**
3. Make all files of **bin** folder executable by using command **chmod +x \*.sh**
4. Open browser and put URL as **localhost:8080/Jenkins**

**To start Jenkins on other port rather than 8080 used command as “java –jar Jenkins.war –httpPort = 9090”**

**Change Jenkins Home Directory: -**

1. To change Jenkins home directory, copy all files from **.jenkins** folder to new folder (including .war).
2. Then change path of **JENKINS\_HOME** to the new folder path.

**Build Deployment in Jenkins: -**

1. Download **DeployToContainer** plugin.
2. To deploy build create **.war/.ear** file of that build.
3. Create a freestyle project on Jenkins and put the same file in the workspace of that freestyle project.
4. Download **Tomcat** and start it.
5. If you want to change the tomcat port then go to **Tomcat -> config -> Setting.xml -> Make change at Connector Port and change it.**
6. Add a user in **Tomcat-users.xml** like **<role username=” “ password=” “>**
7. Go to Jenkins created freestyle project. In that go to **Post Build Actions.**
8. Select **Deploy war/ear to a container** and enter as **\*\*/\*.war** and write **name of the file**
9. After that add **Tomcat** as a **container**  with username and password.
10. Enter URL of Tomcat
11. Click **Apply -> Save -> Build Now**

**Create a Pipeline in Jenkins: -**

1. Download **DeployPipeline** plugin
2. Click on **+** icon present on **Dashboard**
3. Before that create few jobs and make chaining of jobs (i.e. specify dependency of each jobs on each other)
4. Then in created pipeline (2nd step) give the name of **initial job/project**
5. Select pipeline options as per our requirement
6. Download **BuildPipeline** for good view of jobs

**Trigger Build from Mailbox: -**

1. To trigger build from mailbox use **PollMailboxTrigger** plugin
2. Search on google **JenkinsMailbox** plugin where in **GIT** section will get all the **config** for each mailbox

**Ways to trigger Build in Jenkins: -**

1. Trigger build remotely.
2. Build after other project build.
3. Build periodically.
4. Build when a changed push to gitbucket.
5. Maven dependency update trigger.
6. Poll mailbox trigger.
7. Poll SCM.