**Notes on Jenkins Features**

* A Continuous Integration Continuous Delivery (CICD) tool
* Enables DevOps developers
* Speedy delivery in Agile
* Developers can integrate and test their changes quickly. Jenkins triggers a build and run any tests and send notification. Build is available on the Dashboard. If all tests pass it can invoke Deployment tool to get the software deployed on staging server/production server
* Huge no. of plugins allow it to get integrated to a huge number of test and deployment technologies (e.g. Cucumber, Selenium. Watir, Ruby etc.) & U-Deploy as Deployment tool from IBM. . It can integrate with code analysis, code coverage tools like Sonar Cube etc
* It can work with Git Repositories and a no of build tools e.g. Ant, Maven to name a few

It works with IDE Eclipse

* It works with JUnit
* -Jenkins Hudson linkage
* -Jenkins can be run in any container which runs Servlet 2.4/JSP 2.0 or later like Tomcat 5
* In software engineering, a WAR file (Web Application Resource or Web application ARchive) is a file used to distribute a collection of JAR-files, JavaServer Pages, Java Servlets, Java classes, XML files, tag libraries, static web pages (HTML and related files) and other resources that together constitute a web ...
* A servlet is a Java programming language class that is used to extend the capabilities of servers that host applications accessed by means of a request-response programming model. Although servlets can respond to any type of request, they are commonly used to extend the applications hosted by web servers.
* The accurate title for Tomcat would be either “web server” or “servlet container”. But even though Tomcat doesn't support some Java EE features out of the box, you can still use most of these features. ... So Tomcat is mature, well-documented, and the most widely used Java application server.
* A Spring MVC is a Java framework which is used to build web applications. It follows the Model-View-Controller design pattern. It implements all the basic features of a core spring framework like Inversion of Control, Dependency Injection.
* Install Apache Tomcat Version 9 – Tomcat is required to deploy Jenkins war file.
* Apache tomcat is a web container you cannot deploy a jar in tomcat server. If you created a web application then export your application as war file and put it in tomcat webapp directory, start the server and your war will be deployed.
* Jar files (Java ARchive files) can contain Java class files that will run when the jar is executed. A jar is an archiving format that not only stores directories and source files, but can be run as an executable as well.
* Jar file is the combination of compiled java classes. Executable jar file is also a combination of compiled java classes with Main class. But while creating executable jar file we have to specify the Main-Class in a manifest file. Following are the steps to follow while creating the executable jar file.
* The jar (Java Archive) tool of JDK provides the facility to create the executable jar file. An executable jar file calls the main method of the class if you double click it. To create the executable jar file, you need to create . mf file, also known as manifest file.