Jenkins

Steps to install Jenkins:

1. Install Java Development Kit (JDK) :

Download [**JDK 8**](https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html) and choose windows 32-bit or 64-bit according to your system configuration.

Link - <https://www.oracle.com/in/java/technologies/javase/javase-jdk8-downloads.html>

1. Set the Path for the Environmental Variable for JDK :

* Go to System Properties. Under the "Advanced" tab, select "Environment Variables."
* Under system variables, set up a bin folder for JDK in PATH variables
* Under system variables, select "new." Then copy the path of the JDK folder and paste it in the variable value field and variable name-JAVA\_HOME.

1. Download and Install Jenkins:

* Download Jenkins link - <https://www.jenkins.io/download/>

Under LTS, click on windows.

* After the file is downloaded, unzip it. Double click the folder to install.
* Click next
* Select Run service as localsystem and click next
* Click finish once done.

1. Run Jenkins on Localhost 8088:

* Once Jenkins is installed, you will automatically be redirected to a local Jenkins page, or you can paste the URL http://localhost:8080 in a browser.
* To unlock Jenkins, copy the password from the file at**C:\Windows\System32\config\systemprofile\AppData\Local\Jenkins\.jenkins\secrets\initialAdminPassword** and paste it in the **Administratorpassword** field. Then, click the **"Continue"** button.
* You can install either the suggested plugins or selected plugins you choose.
* Create an admin user for Jenkins, enter details and click on “Save and continue” button and click "Save and Finish" to complete the Jenkins installation.

Error : “Unable to find valid certification path to requested target” while installing plugin in Jenkins

Solution :

* Download skip-certificate-check plugin from <https://plugins.jenkins.io/>
* Go to Manage Jenkins -> Manage plugin -> Advanced -> Upload plugin
* Restart Jenkins

Jenkins Integration with Git

* Install Git plugin
* Refrence -<https://www.blazemeter.com/blog/how-to-integrate-your-github-repository-to-your-jenkins-project>

[“Failed to connect to repository” Error while setting up GitHub Jenkins Plugin](https://stackoverflow.com/questions/12681308/failed-to-connect-to-repository-error-while-setting-up-github-jenkins-plugin)

Solution :

* Download certificate from <https://github.com/>
* In Git Bash -> $ git config –list –show-origin
* Copy and paste it in Jenkins Git ca-bundle.crt file
* Restart Jenkins

[Ask Question](https://stackoverflow.com/questions/ask)

Running Jobs in Command line

* Login to Jenkins
* Go to Manage Jenkins -> Jenkins CLI
* Download Jenkins-cli.jar file
* Paste Jenkins-cli.jar inside Jenkins folder where your war file is present
* Go to Manage Jenkins -> configure global security - > Authorization -> select Anyone can do anything –> Save
* Open command prompt
* cd C:\Program Files\Jenkins
* java -jar jenkins-cli.jar -s http://localhost:9090/ build Helloworld
* Running jobs with authenticated users – Go to Manage Jenkins -> configure global security - > Authorization -> Logged-in users can do anything and select allow anonymous read access
* In command prompt -> java -jar jenkins-cli.jar -s http://localhost:9090/ -auth Akshitha:Akshitha build Helloworld
* Running parameterized jobs in command line -> In command prompt -> java -jar jenkins-cli.jar -s http://localhost:9090/ -auth Akshitha:Akshitha build Parameterized\_Job -s -v -p name="Akshitha"

Parameterized Jobs : Checkbox, Radio buttons, Drop down

* Install -> Extended choice parameter plugin

References

* <https://www.youtube.com/watch?v=pPCTeJmVYOU&t=388s>
* <https://www.youtube.com/watch?v=yz3tyeA3Fe0&list=PLS1QulWo1RIbY8xXPqz6ad_sNHkIP3IXI>
* <https://www.youtube.com/watch?v=89yWXXIOisk&list=PLhW3qG5bs-L_ZCOA4zNPSoGbnVQ-rp_dG>
* <https://www.youtube.com/watch?v=jBAaxv49_tM&list=PLhW3qG5bs-L8T-0JT464rkIvnUz5q4CQC&index=4>