Installing and Running Jenkins as a Standalone Application. *

Jenkins is an open source automation server that helps to streamline and centralize the build process and maintain the continuous integration process of a code base. If you want to set it up and play around to test its capabilities you can do it in few simple steps!

• Download the Jenkins WAR.

Go to the <u>Jenkins download page</u> and download the "Generic Java package (.war)".

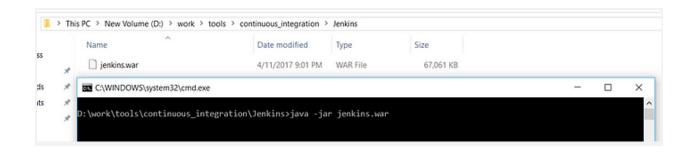
Download Jenkins 2.46.1 for:	
Docker	
FreeBSD	
Gentoo	
Mac OS X	
OpenBSD	
openSUSE	
Red Hat/Fedora/CentOS	
Ubuntu/Debian	
Windows	
Generic Java package (.war)	

• Start Jenkins.

Jenkins comes with an embedded <u>Winstone</u> server; therefore enabling it to run as a standalone application. For this tutorial I'm going to use it in the standalone form. However, you could place the .WAR file in an application server of your choice and use it if you wish to do so. To run as a standalone application, first copy the "*jenkins.war*" file in to a suitable location in your system and open a command line window

from there (SHIFT + Right Click => Open command window here) and run the following command;

java -jar jenkins.war



Now you should see the initial setups being run in the command line. There is one important thing to note at this stage. As seen in the below picture, the setup will generate a random password for you to use on the initial login. Note this one down.

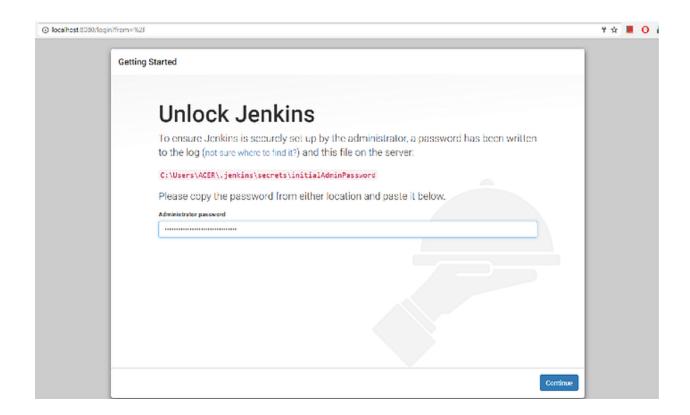
	a java -jar jenkins.war		-		×
	licationContext]; startup date [Fri Apr 14 13:48:31 IST 2017]; root of context hierarchy Apr 14, 2017 1:48:31 PM org.springframework.context.support.AbstractApplicationContext obtains INFO: Bean factory for application context [org.springframework.web.context.support.StaticWeb/]: org.springframework.beans.factory.support.DefaultListableBeanFactory@30483487 Apr 14, 2017 1:48:31 PM org.springframework.beans.factory.support.DefaultListableBeanFactory iNFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableining beans [filter,legacy]; root of factory hierarchy Apr 14, 2017 1:48:31 PM jenkins.install.SetupWizard init INFO:	Application(oreInstantia	ontex iteSin	gleton	s

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	Jenkins initial setup is required. An admin user has been created and a password generated. Please use the following password to proceed to installation:				
	e415d7bd535f4ba79ac13587fbd10549				
	This may also be found at: C:\Users\ACER\.jenkins\secrets\initialAdminPassword				
	Apr 14, 2017 1:48:37 PM hudson.model.UpdateSite updateData INFO: Obtained the latest update center data file for UpdateSource default Apr 14, 2017 1:48:37 PM hudson.WebAppMain\$3 run INFO: Jenkins is fully up and running				
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Wait for the console output to print 'Jenkins is fully up and running' and that's it! You have successfully started the Jenkins server! Now go to your browser and type the url:

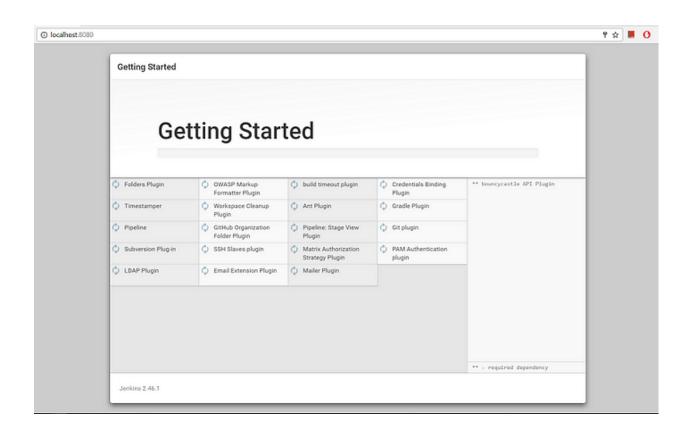
http://localhost:8080/ and you should see a screen similar to the one below, prompting for the initial administrator password that was generated in the previous step. Input the password and click 'Continue'.

Jenkins starts on the port **8080** by default. To override the default settings follow instructions provided in this <u>link</u>.

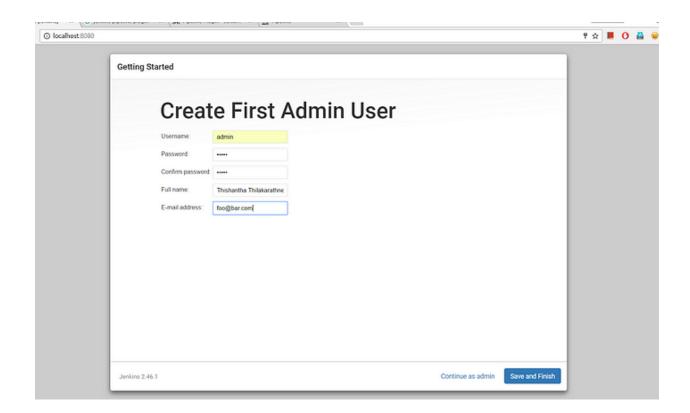


In the next screen you will be asked to install necessary plugins for Jenkins. These plugins are the ones that actually help Jenkins do its magic! They enable the integration of various platforms with Jenkins. You could choose to let Jenkins download most basic plugins by itself or customize as you prefer. There's myriad of plugins available for all the popular build tools and version control systems.





You will be prompted to create an Admin user in the next screen once the plugin installation is complete.



Once finished, click *Save and Finish* and now you can proceed to the Jenkins dashboard where you can start creating jobs for your projects.



That's all folks! simple as that!