

# Module 3- Installing & Configuring Jenkins

# Installing Jenkins

- Jenkins is typically run as a standalone application in its own process with the built-in Java servlet container/application server (Jetty).
- Jenkins can also be run as a servlet in different Java servlet containers such as Apache Tomcat or GlassFish.

## Prerequisites:

- Minimum hardware requirements:
  - 256 MB of RAM
  - 1 GB of drive space (although 10 GB is a recommended minimum if running Jenkins as a [Docker](#) container)
- Recommended hardware configuration for a small team:
  - 1 GB+ of RAM
  - 50 GB+ of drive space

# Jenkins Releases

- The Jenkins project produces two release lines, LTS and weekly. Depending on your organization's needs, one may be preferred over the other.
- Both release lines are distributed as .war files, native packages, installers, and Docker containers.
- LTS (Long-Term Support) releases are chosen every 12 weeks from the stream of regular releases as the stable release for that time period.
- Weekly -A new release is produced to deliver bug fixes and features to users and plugin developers.

# Platforms Supported

Jenkins could be installed and configured on the below platforms:

- Docker Platform
- Linux OS – Debian, Centos and Fedora
- Windows OS
- Mac OS
- Solaris, OmniOS, SmartOS, and other siblings

# Jenkins Dashboard

## Jenkins

Jenkins > Dashboard >

ENABLE AUTO REFRESH

add description

New Item

People

Build History

Edit View

Delete View

Manage Jenkins

Credentials

Build Queue

No builds in the queue.

Build Executor Status

#	Status
1	Idle
2	Idle

Logger Console Expand

### Release Dashboard

#### Artefact Versions

Available Releases for worblehat-web

Please select the version of your application and the environment you want to deploy to.

Version 1.4.416 Environment TEST Deploy App

Build job [Deploy] execution successful.

#### Server Environments

Name	State	Link	Version	Tag	Server Information
PRODUCTION	running Started last: Fri Oct 10 16:15:44 CEST 2014	54.220.236.176	1.4.416	ALE_PROD_B	Instance Id: i-72adc930 Instance Type: t1.micro
STAGING	stopped Started last: Wed Aug 20 13:32:44 CEST 2014	Server not running	1.4.416	ALE_STAGING	Instance Id: i-25493c67 Instance Type: m3.large
TEST	stopped Started last: Wed Aug 20 13:32:48 CEST 2014	Server not running	1.4.410	ALE_TEST	Instance Id: i-294e3b6b Instance Type: m3.large

Help us localize this page

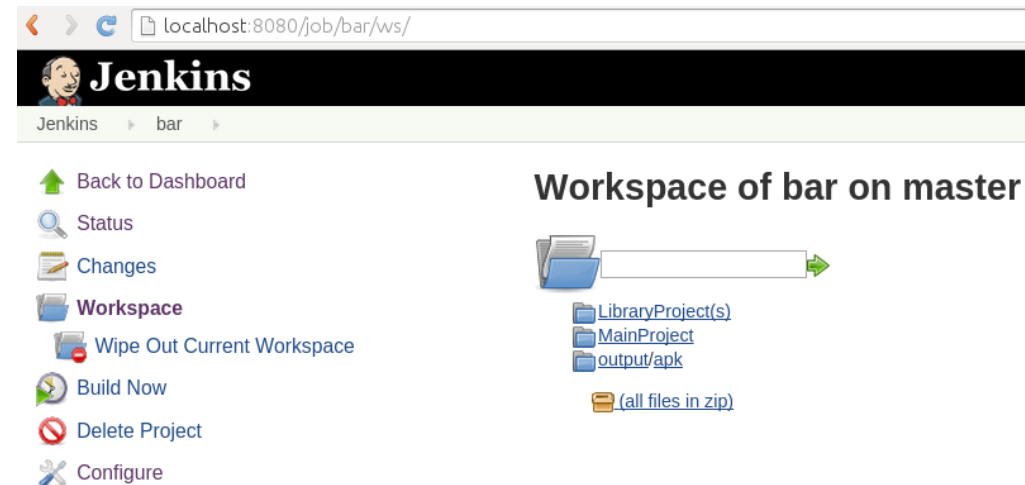
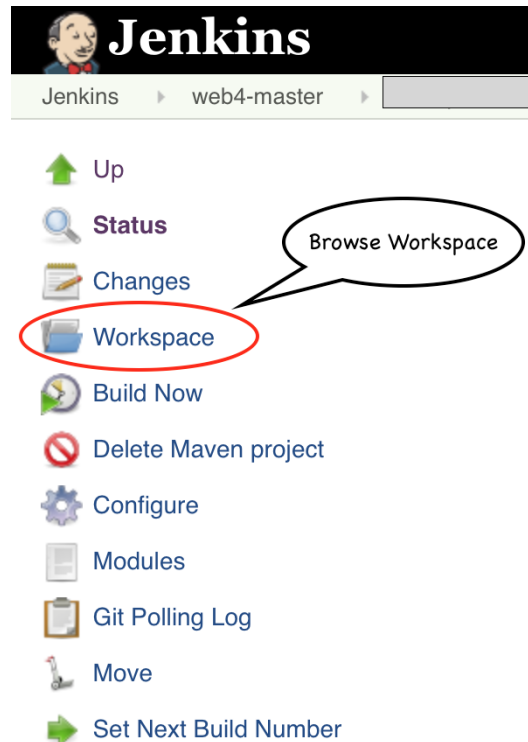
Page generated: Oct 10, 2014 4:19:26 PM

REST API

Jenkins ver. 1.570

# Jenkins Workspace

- The **workspace** directory is where **Jenkins** builds your project
- It contains the source code **Jenkins** checks out, plus any files generated by the build itself.



# Managing Plugins

- Plugins are the primary means of enhancing the functionality of a Jenkins environment to suit organization- or user-specific needs. There are over a thousand different plugins which can be installed on a Jenkins master and to integrate various build tools, cloud providers, analysis tools, and much more.
- Plugins can be automatically downloaded, with their dependencies, from the Update Center. The Update Center is a service operated by the Jenkins project which provides an inventory of open source plugins which have been developed and maintained by various members of the Jenkins community.
- This section will cover everything from the basics of managing plugins within the Jenkins web UI, to making changes on the master's file system.

# Installing & Updating Plugins

Filter:

Updates

Available

Installed

Advanced

Install	Name	Version
<input type="checkbox"/>	<a href="#">Violations plugin</a> This plug-in generates reports static code violation detectors such as checkstyle, pmd, cpd, findbugs, codenarc, fxcop, stylecop and simian.	0.7.11
<input type="checkbox"/>	<a href="#">Static Analysis Collector Plug-in</a> This plug-in is an add-on for the plug-ins <a href="#">Checkstyle</a> , <a href="#">Dry</a> , <a href="#">FindBugs</a> , <a href="#">PMD</a> , <a href="#">Task Scanner</a> , and <a href="#">Warnings</a> : the plug-in collects the different analysis results and shows the results in a combined trend graph. Additionally, the plug-in provides health reporting and build stability based on these combined results.	1.49
<input type="checkbox"/>	<a href="#">FindBugs Plug-in</a> This plugin generates the trend report for <a href="#">FindBugs</a> , an open source program which uses static analysis to look for bugs in Java code.&nbsp;	4.69

Install without restart

Download now and install after restart

Update information obtained: 1 hr 11 min ago

Check now

Filter:

Updates

Available

Installed

Advanced

Install	Name	Version	Installed
<input type="checkbox"/>	<a href="#">Blue Ocean beta</a> A new user experience for Jenkins	1.0.0-b14	1.0.0-b13

Download now and install after restart

Update information obtained: 1 day 19 hr ago

Check now



# Uninstalling & Disabling Plugin

Updates Available Installed Advanced					
Enabled	Name ↓	Version	Previously installed version	Pinned	Uninstall
<input checked="" type="checkbox"/>	<a href="#">Ant Plugin</a> This plugin adds <a href="#">Apache Ant</a> support to Jenkins.	<a href="#">1.4</a>			<b>Uninstall</b>
<input checked="" type="checkbox"/>	<a href="#">bouncycastle API Plugin</a> Provides an stable API to Bouncy Castle related tasks. Plugins using Bouncy Castle should depend on this plugin and not directly on Bouncy Castle	<a href="#">2.16.0</a>			Uninstall
<input checked="" type="checkbox"/>	<a href="#">Structs Plugin</a> Library plugin for DSL plugins that need names for Jenkins objects.	<a href="#">1.5</a>			Uninstall

Updates Available Installed Advanced					
Enabled	Name ↓	Version	Previously installed version	Pinned	Uninstall
<input checked="" type="checkbox"/>	<a href="#">Ant Plugin</a> This plugin adds <a href="#">Apache Ant</a> support to Jenkins.	<a href="#">1.4</a>			<b>Uninstall</b>
<input checked="" type="checkbox"/>	<a href="#">bouncycastle API Plugin</a> Provides an stable API to Bouncy Castle related tasks. Plugins using Bouncy Castle should depend on this plugin and not directly on Bouncy Castle	<a href="#">2.16.0</a>			Uninstall
<input checked="" type="checkbox"/>	<a href="#">Structs Plugin</a> Library plugin for DSL plugins that need names for Jenkins objects.	<a href="#">1.5</a>			Uninstall

THANKS