

Jenkins

- Jenkins
- Hudson
- Bamboo

Installation

- Download jenkins package from <https://jenkins.io/index.html>
- Double click pkg
- Follow the wizard
- Browse jenkins UI @ <http://localhost:8080/>
- Retrieve password from logs @ /var/log/jenkins/jenkins.log “look for Please use the following password to proceed to installation:”
- Enter password in UI
- Instructions for other OS - <https://wiki.jenkins-ci.org/display/JENKINS/Installing+Jenkins>

Set Up

- Browse jenkins UI
- Proceed to install suggested plugin
- Create first user: provide
 - Username
 - Password
 - Full name
 - Email address
- Jenkins is ready for use

Features

- Plugins: Over 800 open source plugins available
- Integrations: Can be integrated with
 - Scm – git, svn, cvs
 - Build tools – maven, ant and more
 - Shell scripts
 - Emails
- REST Api

Components

- Jobs: create jobs by selecting “new Item” from left menu.
 - Pre Build
 - Build -> tasks
 - Post build -> tasks
 - Emails
 - Trigger other jobs
- Admin: manage plugin and more via “manage jenkins” from left menu
 - Configure system
 - scm integration
 - Sonar integration
 - Custom plugins
 - Manage node
 - Add slave using manage nodes
 - Create a vm -> install slave.jar -> attach to master via manage nodes
 - Manage plugin
 - Install plugins
 - Upgrade plugins
 - Safe restart
 - Manage User
 - Add users
 - LDAP integrations

Demo

- Jenkins UI
- Create jobs
- Plugins

Exercises

- Install jenkins master
- Install string parameter plugin
- Install build pipeline plugin
- Create a job with shell scripts
 - Echo env variable -> \$WORKSPACE, \$JOB_NAME and more
- Bonus
 - Create a vm
 - Install slave.jar
 - Configure slave from manage nodes
- References:
 - PDF in gitlab: jenkins-the-definitive-guide.pdf
 - <https://jenkins.io/doc/>