

# Chapter 01: Getting Started with Jenkins



The screenshot shows the Jenkins homepage at <https://jenkins.io>. The page features a navigation bar with links for Blog, Documentation, Plugins, Use-cases, Participate, Sub-projects, Resources, and About, along with a Download button. The main content area includes the Jenkins logo (a cartoon character in a tuxedo), the title "Jenkins", and the tagline "Build great things at any scale". Below this, a paragraph describes Jenkins as the leading open source automation server. There are buttons for "Documentation" and "Download". A banner for "Register for Jenkins World 2017" is also visible, along with a promotional image of the Golden Gate Bridge.

**Jenkins**  
Build great things at any scale

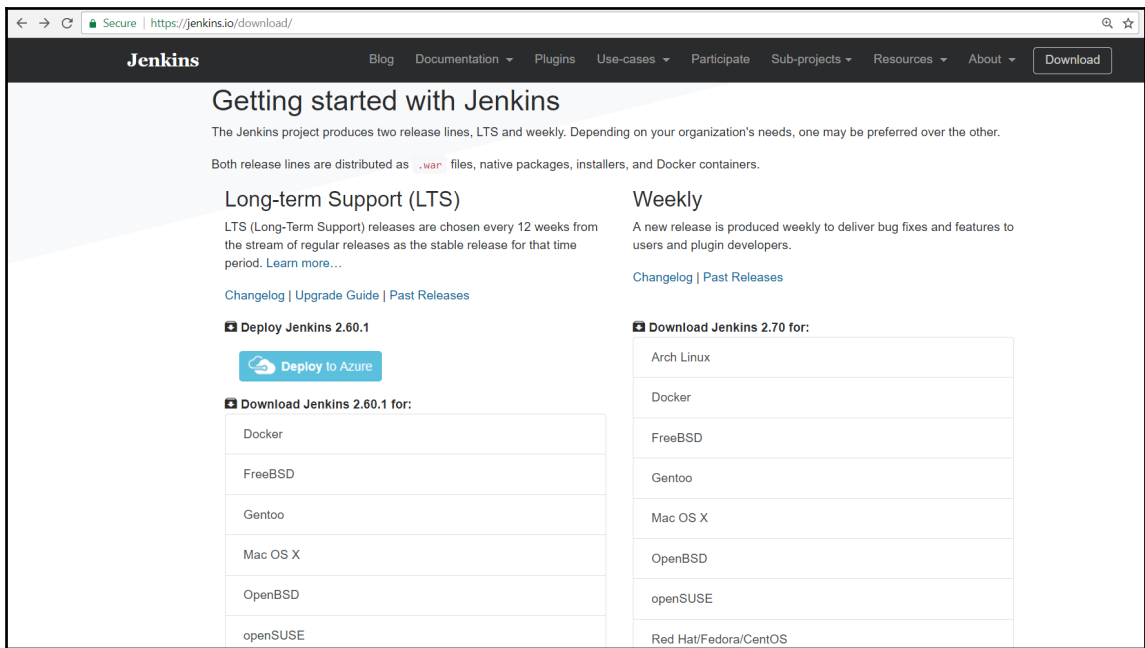
The leading open source automation server, Jenkins provides hundreds of plugins to support building, deploying and automating any project.

[Documentation](#) [Download](#)

Register for Jenkins World 2017

Jenkins World is the largest gathering of Jenkins users in the world, including Jenkins experts, continuous delivery practitioners, and companies offering complementary technologies to Jenkins. Join us in San Francisco, CA, from August 28-31.

THE Event for Everything Jenkins & DevOps



The screenshot shows the "Getting started with Jenkins" page at <https://jenkins.io/download/>. The page provides information about the Jenkins project's release lines (LTS and weekly) and offers download links for various operating systems.

## Getting started with Jenkins

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.

### Long-term Support (LTS)

LTS (Long-Term Support) releases are chosen every 12 weeks from the stream of regular releases as the stable release for that time period. [Learn more...](#)

[Changelog](#) | [Upgrade Guide](#) | [Past Releases](#)

### Weekly

A new release is produced weekly to deliver bug fixes and features to users and plugin developers.

[Changelog](#) | [Past Releases](#)

**Deploy Jenkins 2.60.1**

[Deploy to Azure](#)

**Download Jenkins 2.60.1 for:**

Docker
FreeBSD
Gentoo
Mac OS X
OpenBSD
openSUSE

**Download Jenkins 2.70 for:**

Arch Linux
Docker
FreeBSD
Gentoo
Mac OS X
OpenBSD
openSUSE
Red Hat/Fedora/CentOS

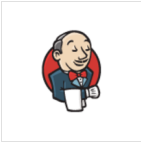
Secure | https://azuremarketplace.microsoft.com/en-us/marketplace/apps/azure-oss.jenkins

Microsoft Azure

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Azure Marketplace Browse Sell Learn Search Marketplace Mitesh

Products > Jenkins



# Jenkins

Microsoft

Overview Plans

Microsoft published Jenkins Master on a Linux (Ubuntu) VM

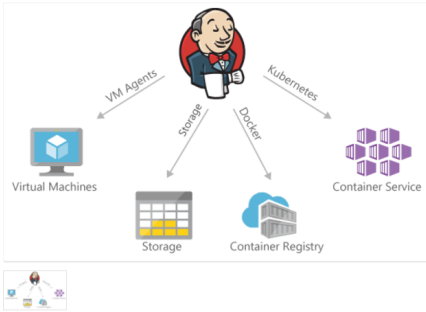
We are excited to bring the next phase of our support for Jenkins on Microsoft Azure with the launch of a secure, stable and production ready version of Jenkins.

**Note:** For instructions on connecting to this Jenkins instance once deployed, please browse to the URL or public IP of this instance. The URL is the Domain name label you enter in Settings and the suffix shown below this field.

This solution template will install the latest stable Jenkins version on a Linux (Ubuntu 14.04 LTS) VM along with tools and plugins configured to work with Azure. This includes –

- git for source control
- Azure Credentials plugin for connecting securely
- Azure VM Agents plugin for elastic build, test and continuous integration
- Azure Storage plugin for storing artifacts
- Azure CLI to deploy apps using scripts

For a detailed walkthrough of the steps this solution automates for you, please visit our [blog post](#).




Microsoft Azure

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Products > Jenkins



# Je

Microsoft

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Create this app in Azure



**Jenkins**  
By Microsoft

Software plan

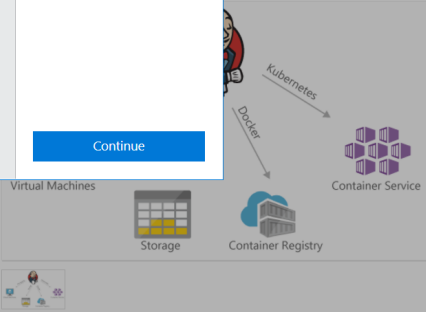
**Jenkins**

Pricing: This solution template deploys software components and Azure infrastructure components. The price is the cost of those components.

Details: Microsoft published Jenkins Master on a Linux (Ubuntu) VM

Continue

I agree to the provider's [terms of use](#) and [privacy policy](#) and understand that the rights to use this product do not come from Microsoft, unless Microsoft is the provider. Use of Azure Marketplace is governed by separate [terms](#).





Secure | https://portal.azure.com

## Microsoft Azure Jenkins

Jenkins  
Microsoft

We are excited to bring the next phase of our support for Jenkins on Microsoft Azure with the launch of a secure, stable and production ready version of Jenkins.

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- git for source control
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This solution template is designed to configure a Jenkins instance following best practices with minimal Azure knowledge. With a handful of user inputs and a simple single-click deployment through the Azure portal, you can provision a fully configured Jenkins instance in minutes, which can

Select a deployment model ⓘ

Resource Manager

Create

Secure | <https://portal.azure.com/#create/azure-oss.jenkinsjenkins>

Microsoft Azure Jenkins > Create Jenkins > Basics

### Create Jenkins

- 1** Basics  
Configure basic settings >
- 2 Settings  
Configure additional options >
- 3 Summary  
Jenkins >
- 4 Buy >

### Basics

\* Name

VM disk type ⓘ

\* User name

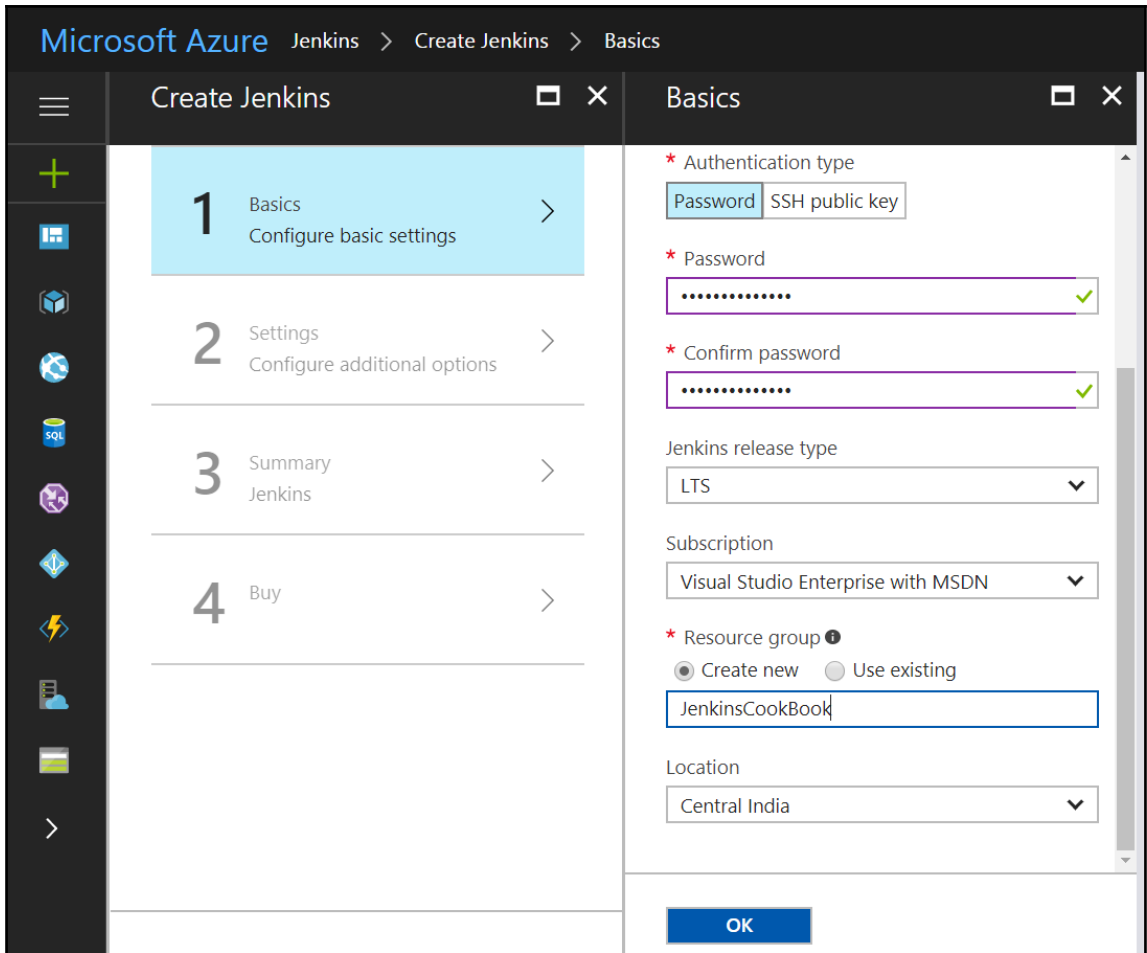
\* Authentication type  
 Password  SSH public key

\* Password

\* Confirm password

Jenkins release type

Subscription



Microsoft Azure Jenkins > Create Jenkins > Settings

### Create Jenkins

- 1 Basics Done ✓
- 2 Settings** Configure additional options >
- 3 Summary Jenkins >
- 4 Buy >

### Settings

- \* Size  
1x Standard DS1 v2 >
- \* Storage account ⓘ  
(new) jenkinsnmm3nwnlytqtot811 >
- \* Public IP address ⓘ  
(new) JenkinsIP >
- \* Domain name label  
msjbjenkins ✓  
centralindia.cloudapp.azure.com

OK

Microsoft Azure Jenkins > Create Jenkins > Summary

### Create Jenkins

- 1 Basics Done ✓
- 2 Settings Done ✓
- 3 Summary Jenkins >
- 4 Buy >

### Summary

**i** Running final validation...

Basics	
Subscription	Visual Studio Enterprise with MSDN
Resource group	JenkinsCookBook
Location	Central India
Name	
VM disk type	SSD
User name	mitesh51
Password	*****
Jenkins release type	LTS
Settings	
Size	Standard DS1 v2
Storage account	jenkinsnmm3rnwlytqtot811
Public IP address	JenkinsIP
Domain name label	msjbjenkins

OK

Template

Download Add to library Deploy

**i** Automate deploying resources with Azure Resource Manager templates in a single, coordinated operation. Define resources and configurable input parameters and deploy with script or code. [Learn more about template deployment.](#)

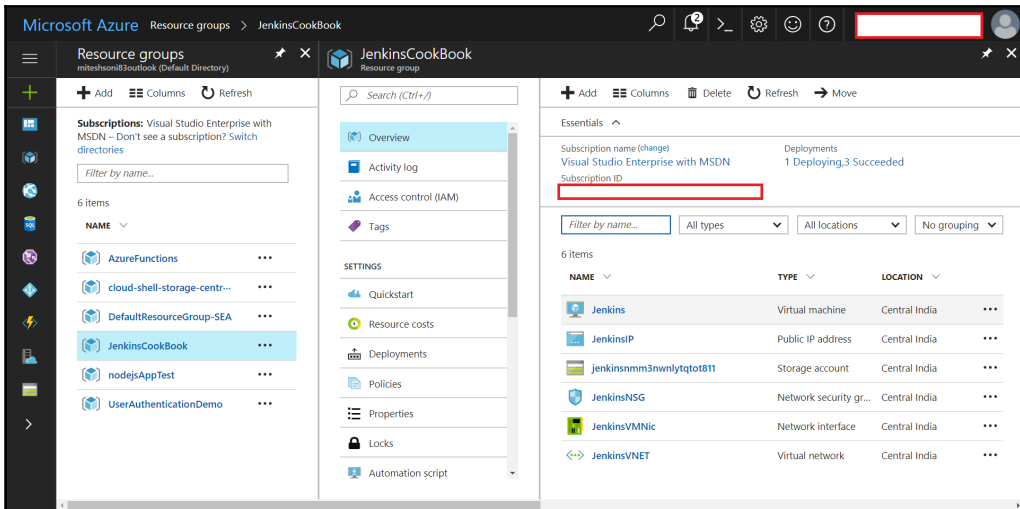
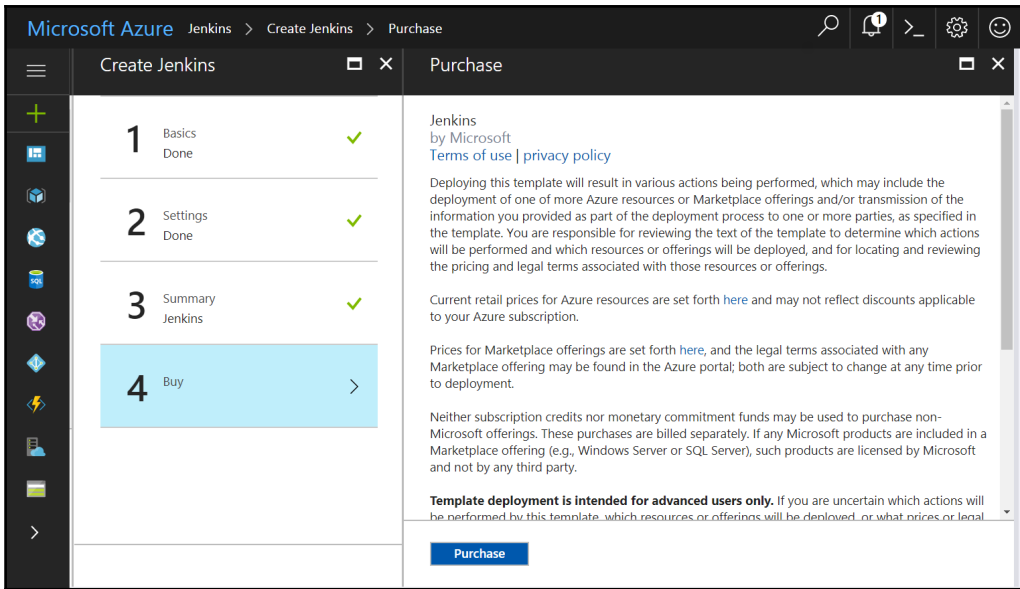
Template Parameters CLI CLI 2.0 PowerShell .NET Ruby

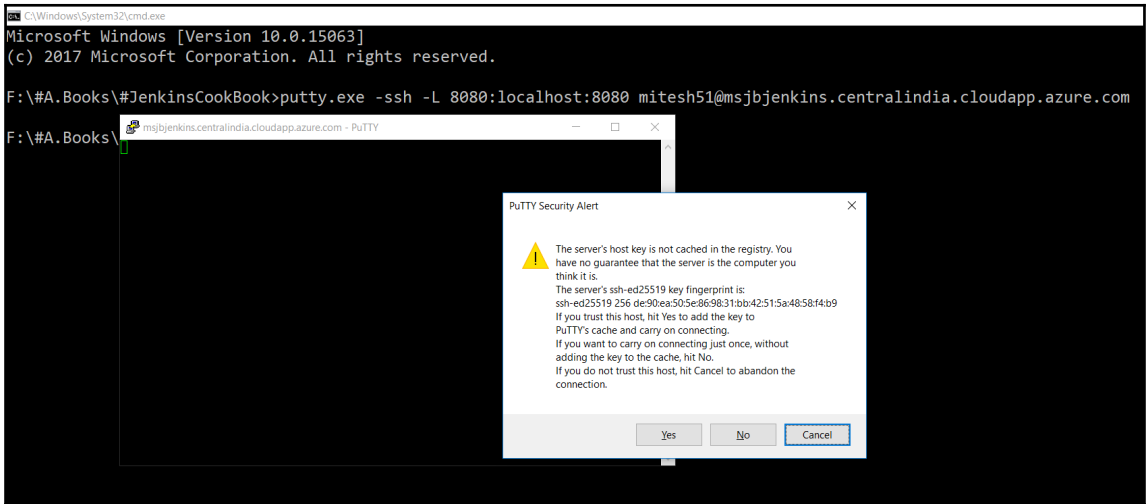
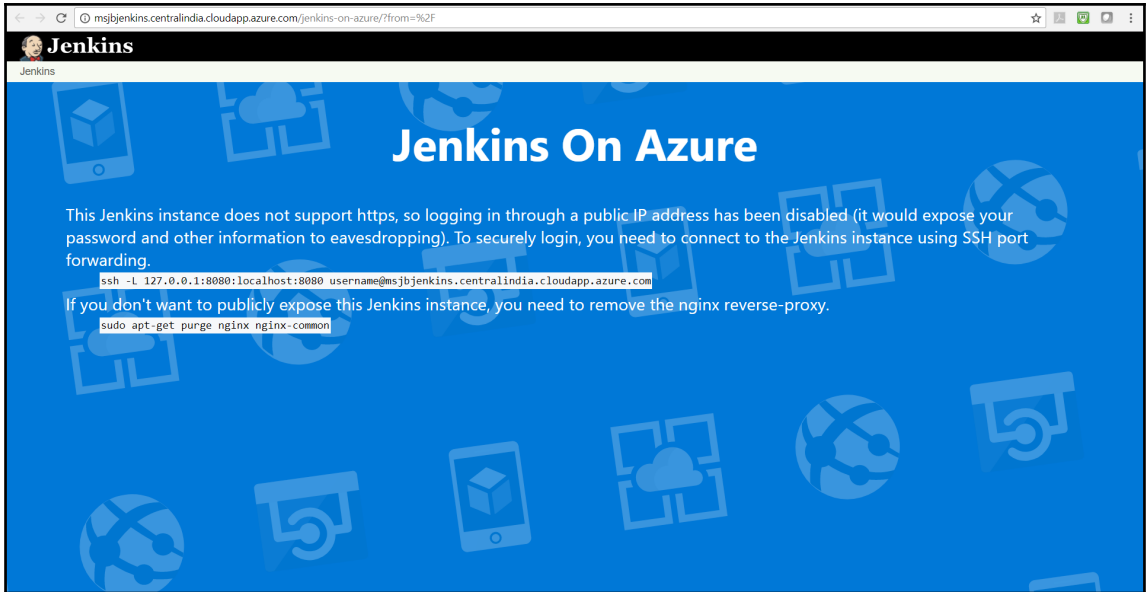
- Parameters (18)
- Variables (18)
- Resources (7)
  - [variables('storageDeploymentNa...]
  - [variables('publicIPDeploymentNa...]
  - NSG - Front End (Microsoft.Netwo...]
  - [variables('virtualNetworkName') ...]
  - [variables('nicName')] (Microsoft.N...]
  - [variables('vmDeploymentName')]...
  - [concat(parameters('vmName'), /]...

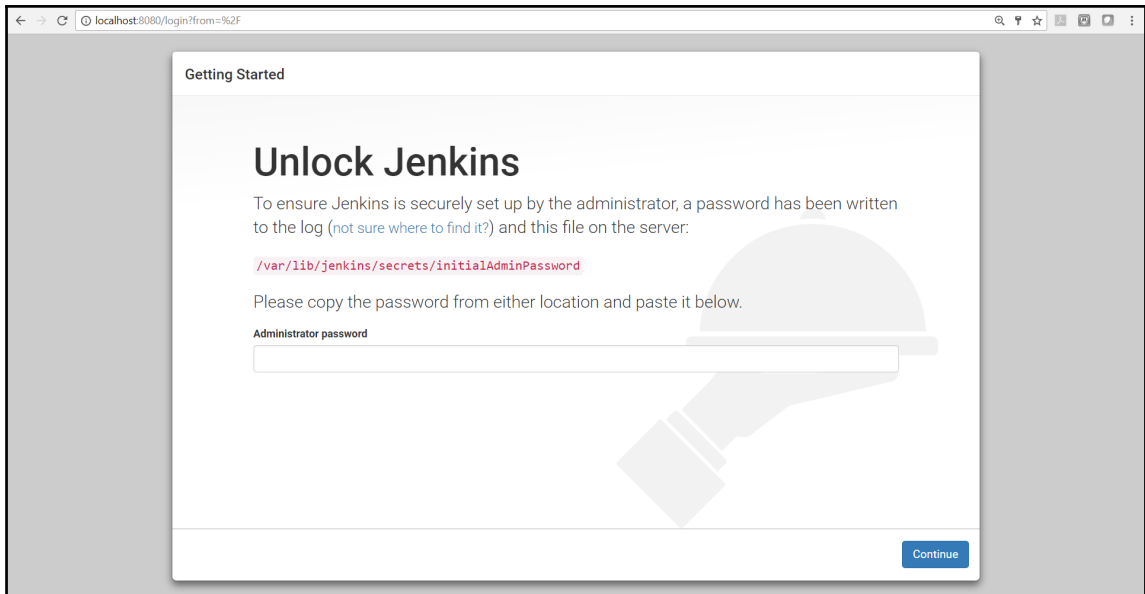
```

1 {
2   "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "_artifactsLocation": {
6       "metadata": {
7         "description": "Artifacts location"
8       },
9       "defaultValue": "https://raw.githubusercontent.com/Azure/azure-devops-utils/v0.25.0/",
10      "type": "string"
11    },
12    "_artifactsLocationSasToken": {
13      "metadata": {
14        "description": "Artifacts Sas token"
15      },
16      "defaultValue": "",

```







```
mitesh51@Jenkins:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
e0a0e477a2234e7bb45061173512eef
mitesh51@Jenkins:~$
```



← → localhost:8080

### Getting Started

# Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

#### Install suggested plugins

Install plugins the Jenkins community finds most useful.

#### Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.60.1

### Getting Started

# Create First Admin User

Username:

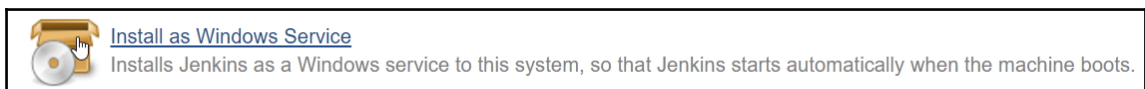
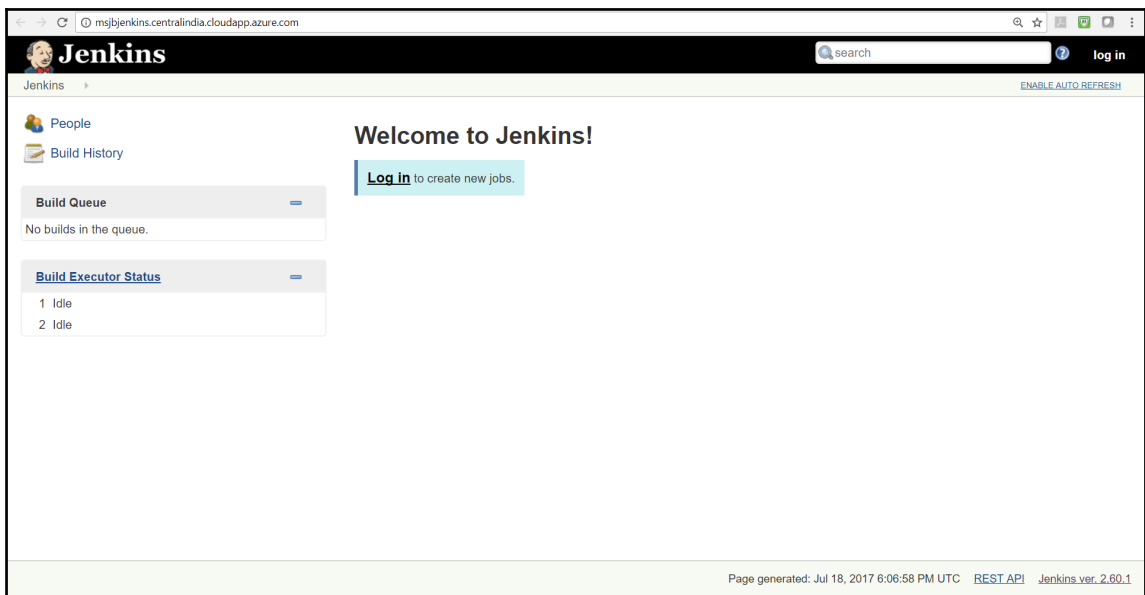
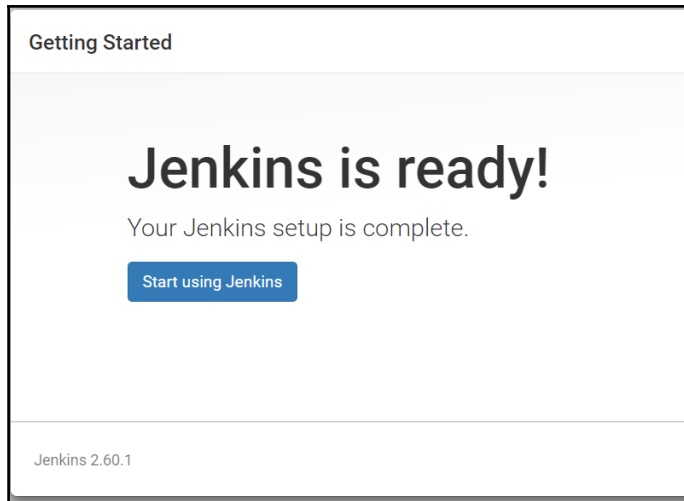
Password:

Confirm password:

Full name:

E-mail address:

Jenkins 2.60.1 [Continue as admin](#) [Save and Finish](#)





## Install as Windows Service

Installing Jenkins as a Windows service allows you to start Jenkins as soon as the machine starts, and regardless of who is interactively using Jenkins.

Installation Directory

**Install**



## Installation Complete

Installation is successfully completed. Do you want to stop this Jenkins and start a newly installed Windows service?

**Yes**

The screenshot shows the Windows Services console window. The 'jenkins' service is highlighted in the list. The service is running and has an automatic startup type. The description for the service is 'This service runs Jenkins automation server.'

Name	Description	Status	Startup Type	Log On As
Infrared monitor service	Detects othe...		Manual	Local System
Intel Security PEF Service	Intel Securit...	Running	Automatic	Local System
Intel(R) Content Protection H...	Intel(R) Cont...	Running	Automatic	Local System
Intel(R) Content Protection H...	Intel(R) Cont...	Running	Manual	Local System
Intel(R) HD Graphics Control ...	Service for l...	Running	Automatic (Tri...	Local System
Intel(R) Rapid Storage Techn...	Provides sto...	Running	Automatic (De...	Local System
Interactive Services Detection	Enables user...		Manual	Local System
Internet Connection Sharing...	Provides net...		Manual (Trigg...	Local System
IP Helper	Provides tun...	Running	Automatic	Local System
IP Translation Configuration ...	Configures a...		Manual (Trigg...	Local System
IPsec Policy Agent	Internet Prot...	Running	Manual (Trigg...	Network Se...
<b>jenkins</b>	This service r...	Running	Automatic	Local System
KtmRm for Distributed Trans...	Coordinates ...		Manual (Trigg...	Network Se...
Link-Layer Topology Discove...	Creates a Ne...		Manual	Local Service
Local Session Manager	Core Windo...	Running	Automatic	Local System
LPA Service	This service ...		Manual (Trigg...	Local Service
McAfee Anti-Spam Service	This service f...	Running	Manual	Local System
McAfee AP Service	McAfee AP S...	Running	Automatic	Local System
McAfee Application Installer ...			Automatic	Local System
McAfee Boot Delay Start Ser...	McAfee Boo...	Running	Automatic	Local System
McAfee CSP Service	McAfee Clou...	Running	Automatic (De...	Local System
McAfee Firewall Core Service	Provides fire...	Running	Manual	Local System
McAfee Home Network	McAfee Ho...	Running	Automatic	Local System
McAfee Module Core Service	McAfee Mo...	Running	Automatic	Local System

Jenkins search ? Mitesh P | log out

Jenkins [ENABLE AUTO REFRESH](#)

- New Item
- People
- Build History
- Manage Jenkins**
- My Views
- Credentials

**Build Queue** -

No builds in the queue.

**Build Executor Status** -

1 Idle

2 Idle

## Manage Jenkins

- [Configure System](#)  
Configure global settings and paths.
- [Configure Global Security](#)  
Secure Jenkins; define who is allowed to access/use the system.
- [Configure Credentials](#)  
Configure the credential providers and types
- [Global Tool Configuration](#)  
Configure tools, their locations and automatic installers.
- [Reload Configuration from Disk](#)  
Discard all the loaded data in memory and reload everything from file system. Useful when you modified config files directly on disk.
- [Manage Plugins](#)  
Add, remove, disable or enable plugins that can extend the functionality of Jenkins.
- [System Information](#)  
Displays various environmental information to assist trouble-shooting.
- [System Log](#)  
System log captures output from `java.util.logging` output related to Jenkins.
- [Load Statistics](#)  
Check your resource utilization and see if you need more computers for your builds.

Jenkins search ? Mitesh P | log out

Jenkins Plugin Manager

- [Back to Dashboard](#)
- [Manage Jenkins](#)
- [Update Center](#)

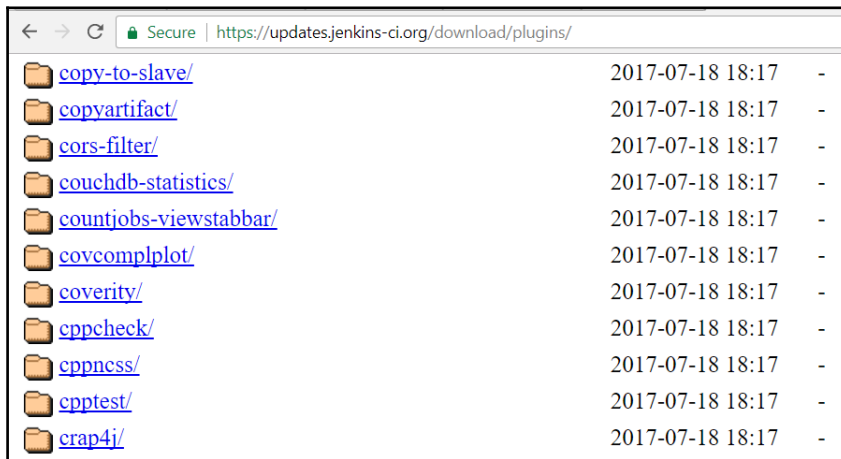
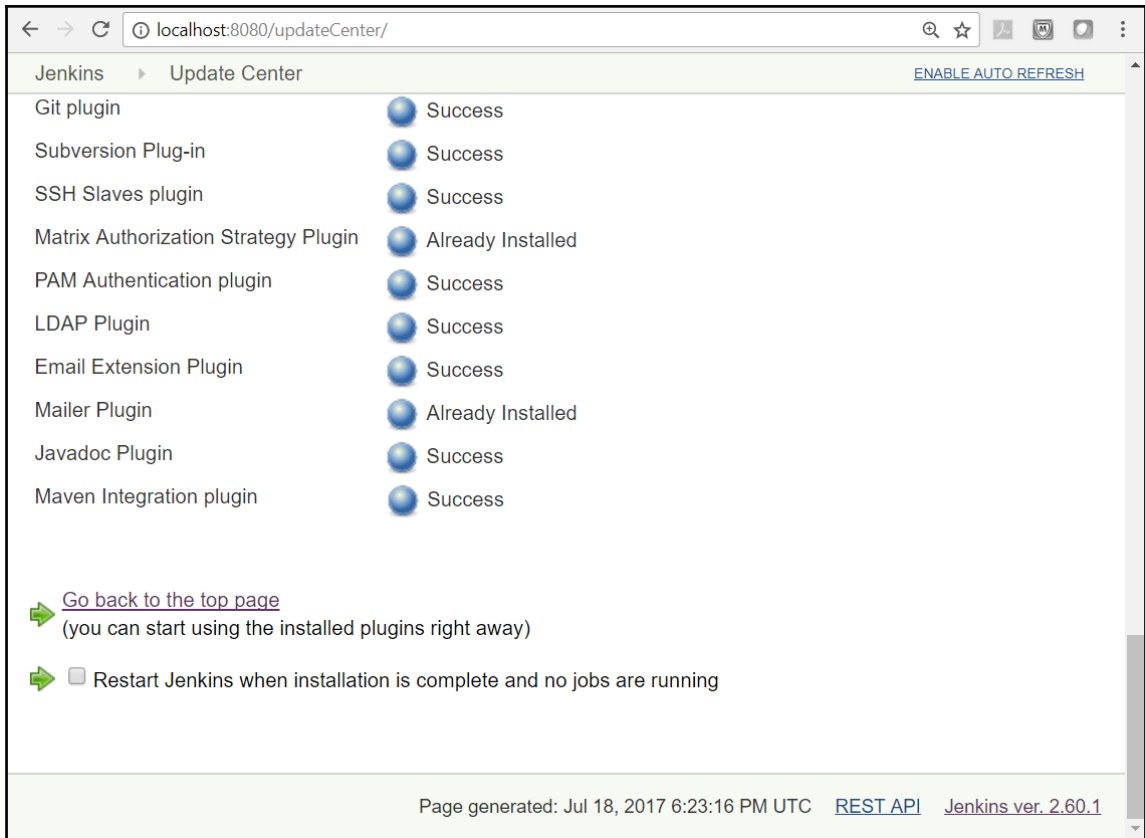
Filter:

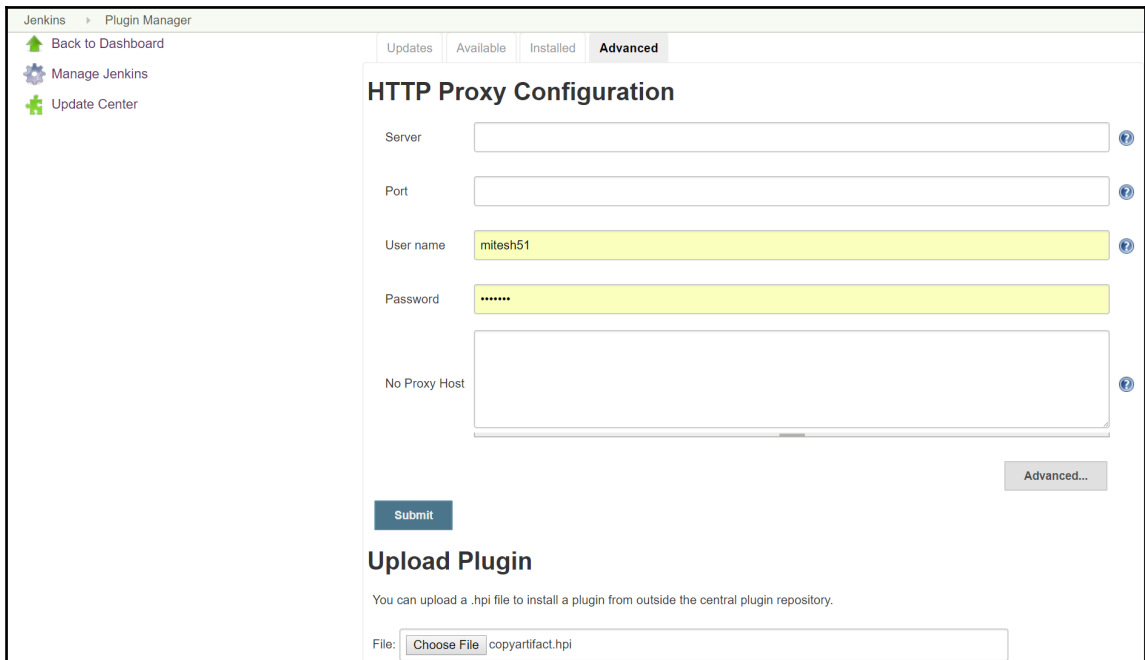
Updates
Available
Installed
Advanced

	Name	Version
<input checked="" type="checkbox"/>	<a href="#">Maven Integration plugin</a> This plug-in provides, for better and for worse, a deep integration of Jenkins and Maven: Automatic triggers between projects depending on SNAPSHOTS, automated configuration of various Jenkins publishers (JUnit, ...).	2.17
<input type="checkbox"/>	<a href="#">Maven Invoker plugin</a> Reports on Maven Invoker it tests	1.3
<input type="checkbox"/>	<a href="#">Maven Info Plugin</a>	0.2.0
<input type="checkbox"/>	<a href="#">Pipeline Maven Integration Plugin</a> This plugin provides integration with Pipeline, configures maven environment to use within a pipeline job by calling <code>sh mvn</code> or <code>bat mvn</code> . The selected maven installation will be configured and prepended to the path.	2.5.1

Install without restart
Download now and install after restart
Update information obtained: 39 min ago
Check now

Page generated: Jul 18, 2017 6:22:52 PM UTC [REST API](#) [Jenkins ver. 2.60.1](#)





Jenkins search  Mitesh P | log out

Jenkins > Plugin Manager

[Back to Dashboard](#)  
[Manage Jenkins](#)  
[Update Center](#)

Updates Available Installed **Advanced**

### HTTP Proxy Configuration

Server:  ?

Port:  ?

User name:  ?

Password:  ?

No Proxy Host:  ?

[Advanced...](#)

[Submit](#)

Jenkins search  Mitesh P | log out

Jenkins > configuration

[New Item](#)  
[People](#)  
[Build History](#)  
[Manage Jenkins](#)  
[My Views](#)  
[Credentials](#)

Build Queue: No builds in the queue.

Build Executor Status: 1 Idle, 2 Idle

Home directory: /var/lib/jenkins ?

System Message:  ?

[Plain text] [Preview](#)

### Maven Project Configuration

Global MAVEN\_OPTS:  ?

Local Maven Repository:  ?

# of executors:  ?

Labels:  ?

Usage:  ?

Quiet period:  ?

[Save](#) [Apply](#)

**Global properties**

Environment variables

List of variables

Name

Value

**Jenkins Location**

Jenkins URL

System Admin e-mail address

The screenshot shows the Windows 10 Control Panel 'System' window. Two windows are open: 'System Properties' and 'Environment Variables'. The 'System Properties' window is on the 'Advanced' tab, showing the 'Environment Variables...' button. The 'Environment Variables' window shows two sections: 'User variables for Mitesh' and 'System variables'. The 'User variables for Mitesh' section contains the following table:

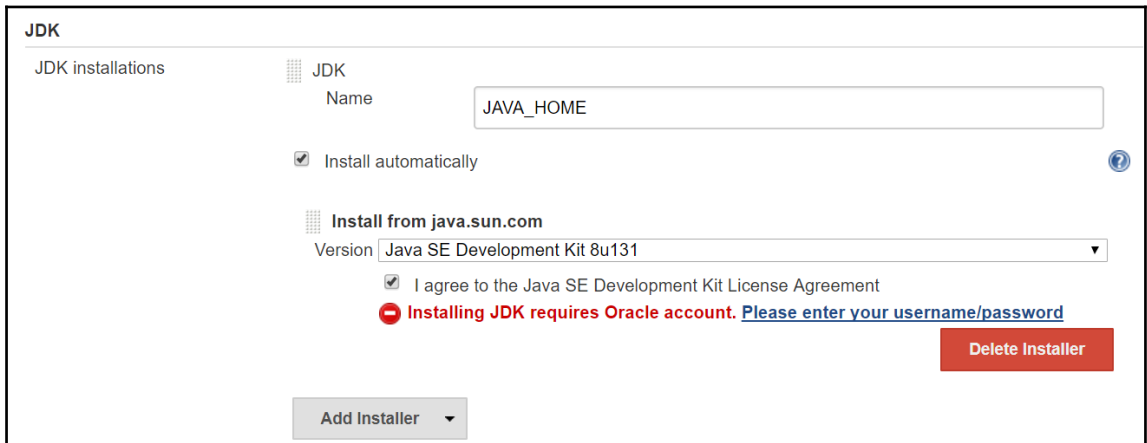
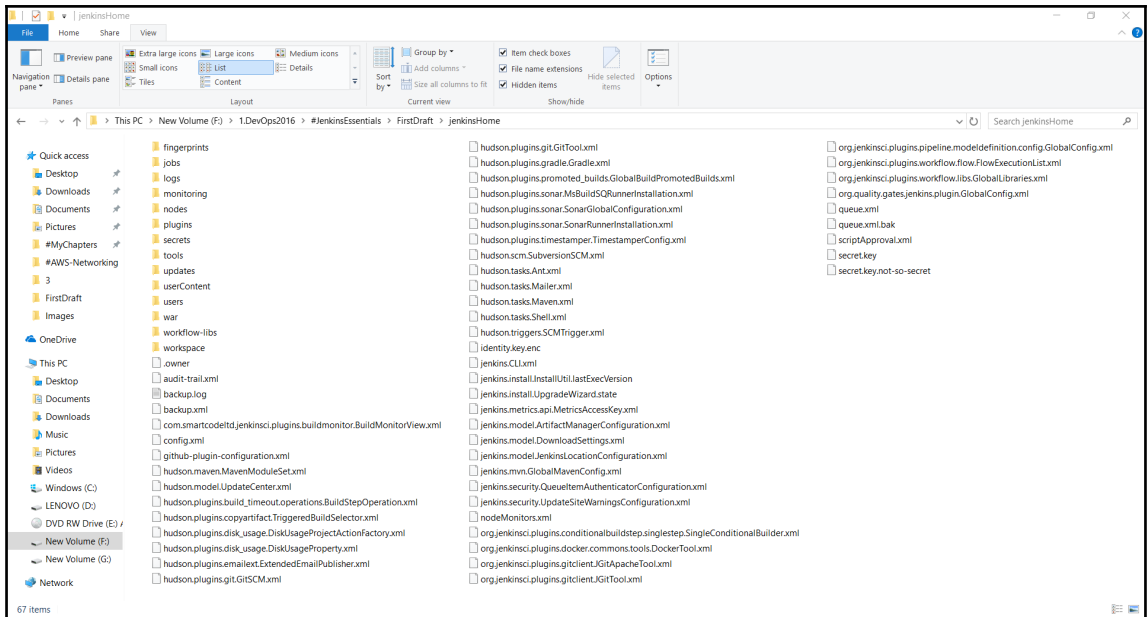
Variable	Value
DOCKER_TOOLBOX_INSTA...	C:\Program Files\ Docker Toolbox
JENKINS_HOME	F:\#JenkinsEssentials\FirstDraft\jenkinsHome
OneDrive	C:\Users\Mitesh\OneDrive
Path	C:\Users\Mitesh\AppData\Local\Microsoft\WindowsApps\C...
TEMP	C:\Users\Mitesh\AppData\Local\Temp
TMP	C:\Users\Mitesh\AppData\Local\Temp

The 'System variables' section contains the following table:

Variable	Value
ComSpec	C:\WINDOWS\system32\cmd.exe
configsetroot	C:\WINDOWS\ConfigSetRoot
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_111
NUMBER_OF_PROCESSORS	4
OS	Windows_NT
Path	C:\ProgramData\Oracle\Java\javapath;C:\WINDOWS\system32...



```
mitesh51@Jenkins: ~  
mitesh51@Jenkins:~$ vi /etc/default/jenkins  
# defaults for Jenkins automation server  
  
# pulled in from the init script; makes things easier.  
NAME=jenkins  
  
# location of java  
JAVA=/usr/bin/java  
  
# arguments to pass to java  
  
# Allow graphs etc. to work even when an X server is present  
JAVA_ARGS="-Djava.awt.headless=true"  
  
#JAVA_ARGS="-Xmx256m"  
  
# make jenkins listen on IPv4 address  
#JAVA_ARGS="-Djava.net.preferIPv4Stack=true"  
  
PIDFILE=/var/run/$NAME/$NAME.pid  
  
# user and group to be invoked as (default to jenkins)  
JENKINS_USER=$NAME  
JENKINS_GROUP=$NAME  
  
# location of the jenkins war file  
JENKINS_WAR=/usr/share/$NAME/$NAME.war  
  
# jenkins home location  
JENKINS_HOME=/var/lib/$NAME  
  
# set this to false if you don't want Jenkins to run by itself  
# in this set up, you are expected to provide a servlet container  
# to host jenkins.  
RUN_STANDALONE=true  
  
# log location. this may be a syslog facility.priority  
JENKINS_LOG=/var/log/$NAME/$NAME.log  
#JENKINS_LOG=daemon.info
```



**Git**

Git installations

**Git**

Name

Path to Git executable  ?

Install automatically ?

**Delete Git**

**Add Git** ▾

**Ant**

Ant installations

**Ant**

Name

Install automatically ?

**Install from Apache**

Version  ▾

**Delete Installer**

**Add Installer** ▾

**Maven**

Maven installations

**Maven**

Name

Install automatically ?

**Install from Apache**

Version  ▾

**Delete Installer**

**Add Installer** ▾

**Delete Maven**

**Gradle**

Gradle installations

Gradle

name

Install automatically

**Install from Gradle.org**

Version

List of Gradle installations on this system

**Jenkins**  Mitesh P | log out

Jenkins > All >

**Enter an item name**

» Required field

**Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

**Pipeline**  
Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**External Job**  
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.

**Multi-configuration project**

Jenkins > MyFirstAntExample >

General **Source Code Management** Build Triggers Build Environment Build Post-build Actions

Git

Repositories

Repository URL

Credentials

Branches to build

Branch Specifier (blank for 'any')

Repository browser

Additional Behaviours

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

### Build

Ant Version

Targets

Jenkins » All »  Mitesh P | log out

**Enter an Item name**

*» Required field*

- Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**  
Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- External Job**  
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.
- Multi-configuration project**  
Available for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

General Source Code Management Build Triggers Build Environment Pre Steps **Build** Post Steps Build Settings

Post-build Actions

**Build**

Root POM  ⓘ

Goals and options  ⓘ

Advanced...

# Chapter 02: Management and Monitoring of Jenkins

The screenshot shows the Jenkins 'Nodes' page. On the left, there are navigation links: 'Back to Dashboard', 'Manage Jenkins', 'New Node', and 'Configure'. Below these are two expandable sections: 'Build Queue' (showing 'No builds in the queue.') and 'Build Executor Status' (showing '1 Idle' and '2 Idle'). The main area contains a table with the following data:

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	master	Windows 10 (amd64)	In sync	230.57 GB	1.98 GB	238.77 GB	0ms
	Data obtained	10 min	10 min	10 min	10 min	10 min	10 min

A 'Refresh status' button is located at the bottom right of the table.

The screenshot shows the 'New Node' configuration page in Jenkins. The 'Node name' field contains 'WindowsNode'. The 'Permanent Agent' radio button is selected. Below this, there is a descriptive text: 'Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.' An 'OK' button is visible to the right of the text. The left sidebar is identical to the previous screenshot, showing 'Build Queue' and 'Build Executor Status' sections.

Jenkins 1 search admin | log out

Jenkins > Nodes >

- Back to Dashboard
- Manage Jenkins
- New Node
- Configure

**Build Queue** -

No builds in the queue.

**Build Executor Status** -

1 Idle  
2 Idle

Name:

Description:

# of executors:

Remote root directory:

Labels:

Usage:

Launch method:

Launch command:

Availability:

**Node Properties**

Environment variables

Tool Locations

**Save**

Name:

Description:

# of executors:

Remote root directory:

Labels:

Usage:

Launch method:

Launch command:

Availability:

**Node Properties**

Environment variables

Tool Locations

**Save**

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	<a href="#">master</a>	Windows 10 (amd64)	In sync	230.57 GB	1.98 GB	238.77 GB	0ms
	<a href="#">WindowsNode</a>		N/A	N/A	N/A	N/A	N/A
	<b>Data obtained</b>	13 ms	2 ms	12 min	12 min	12 min	12 min

**Refresh status**

Jenkins 1 search admin | log out

Jenkins > Nodes > WindowsNode ENABLE AUTO REFRESH

- Back to List
- Status
- Delete Agent
- Configure
- Build History
- Load Statistics
- Log
- Build Executor Status** -

**Mark this node temporarily offline**

**Agent WindowsNode**

- This agent is offline because Jenkins failed to launch the agent process on it. [See log for more details](#)

**Launch agent**


**Labels**

[Android](#) [Test](#) [Windows](#)

**Projects tied to WindowsNode**

None





## Configure Global Security

Enable security

TCP port for JNLP agents  Fixed :   Random  Disable


Disable remember me

Jenkins
1  admin | log out

Jenkins > Nodes > WindowsNode
ENABLE AUTO REFRESH

- Back to List
- Status
- Delete Agent
- Configure
- Build History
- Load Statistics
- Log

[Build Executor Status](#)



### Agent WindowsNode

This agent is offline because Jenkins failed to launch the agent process on it. [See log for more details](#)

Connect agent to Jenkins one of these ways:

- Launch agent from browser
- Run from agent command line:

```
java -jar slave.jar -jnlpUrl http://localhost:8080/computer/WindowsNode/slave-agent.jnlp -secret
3c0443e6a97a503ba24b1f6b2ca4727462d785a64990c7f61e6033fe29ef0498
```

**Labels**

[Android](#) [Test](#) [Windows](#)

**Projects tied to WindowsNode**

None

Jenkins > PetClinic-Code >

**General** Source Code Management Build Triggers Build Environment Build Post-build Actions

Days to keep builds

if not empty, build records are only kept up to this number of days

Max # of builds to keep

if not empty, only up to this number of build records are kept

GitHub project

This project is parameterized

Throttle builds

Disable this project

Execute concurrent builds if necessary

Restrict where this project can be run

Label Expression

[Label WindowsNode](#) is serviced by 1 node

Jenkins **1** search admin | log out

Jenkins > Nodes > WindowsNode ENABLE AUTO REFRESH

[Back to List](#)

[Status](#)

[Delete Agent](#)

[Configure](#)

[Build History](#)

[Load Statistics](#)

[Log](#)

**Build Executor Status**

**Agent WindowsNode**

**Offline** This agent is offline because Jenkins failed to launch the agent process on it. [See log for more details](#)

Connect agent to Jenkins one of these ways:

- Launch agent from browser
- Run from agent command line:
 

```
java -jar slave.jar -jnlpUrl http://localhost:8080/computer/WindowsNode/slave-agent.jnlp -secret 3c0443e6a97a503ba24b1f6b2ca4727462d785a64990c7f61e6033fe29ef0498
```

**Labels**

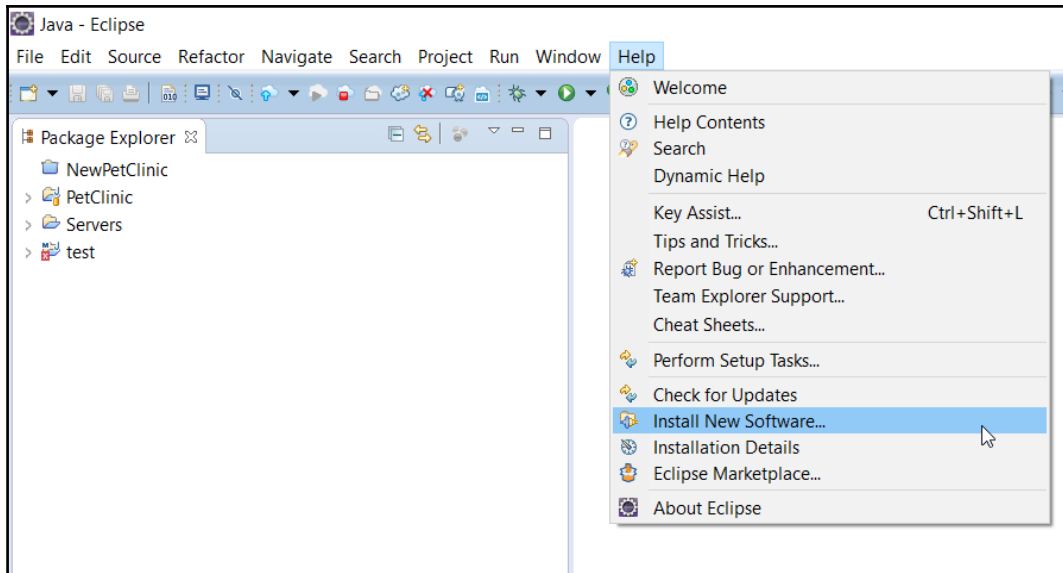
[Android](#) [Test](#) [Windows](#)

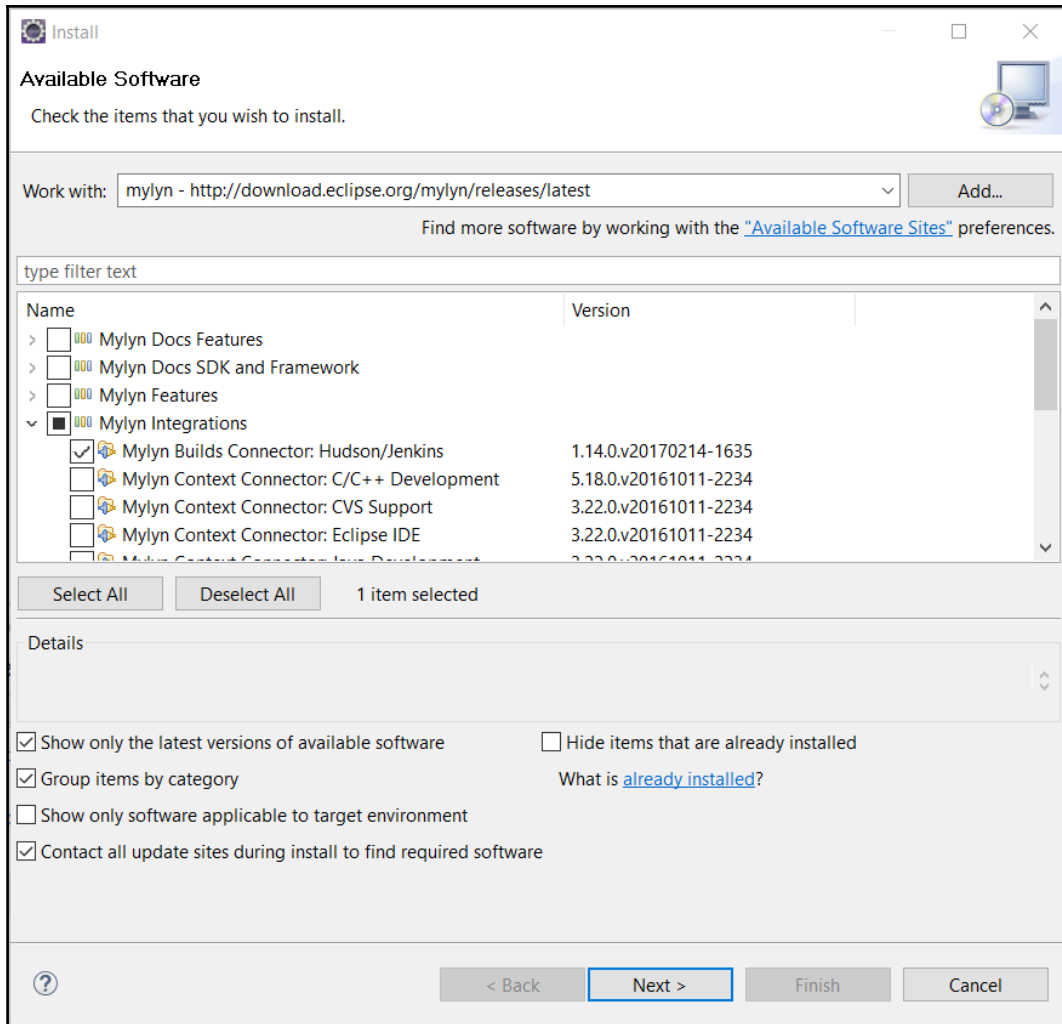
**Projects tied to WindowsNode**

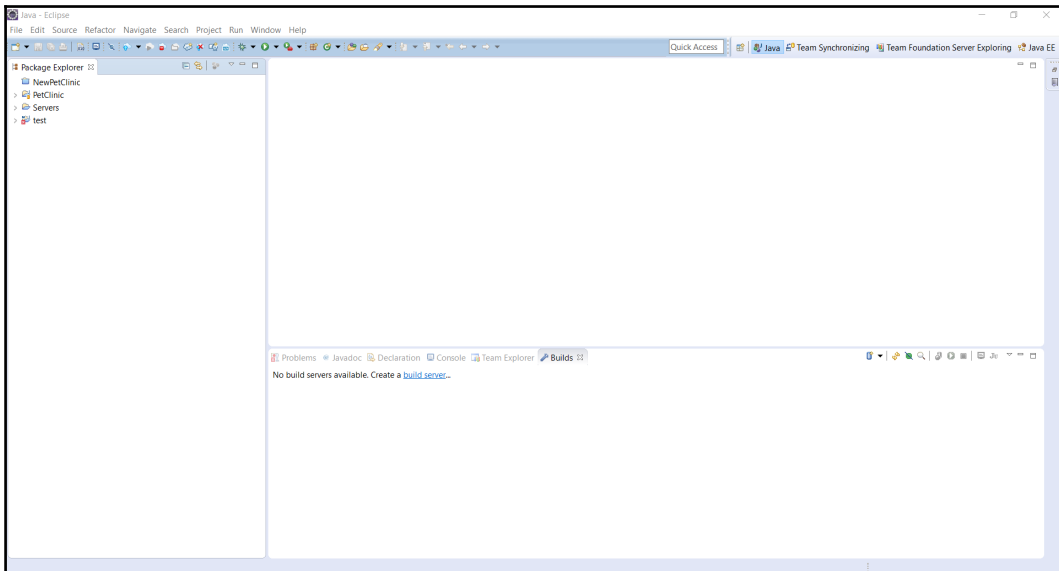
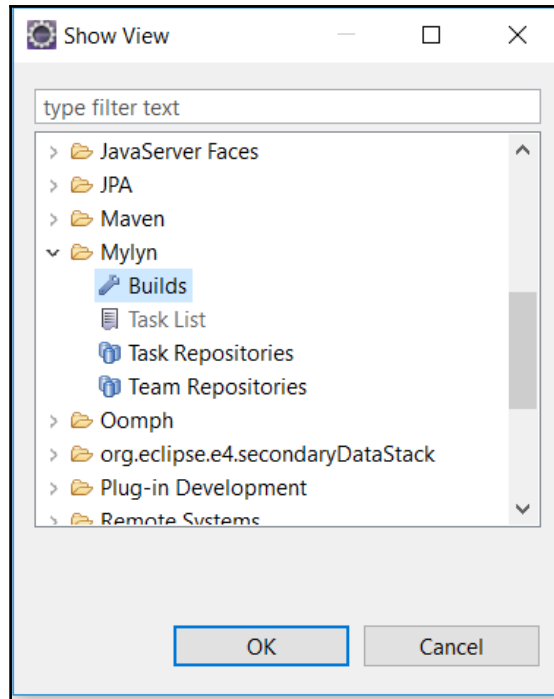
S	W	Name ↓	Last Success	Last Failure	Last Duration
		<a href="#">PetClinic-Code</a>	1 day 3 hr - #18	16 hr - #20	1 min 34 sec

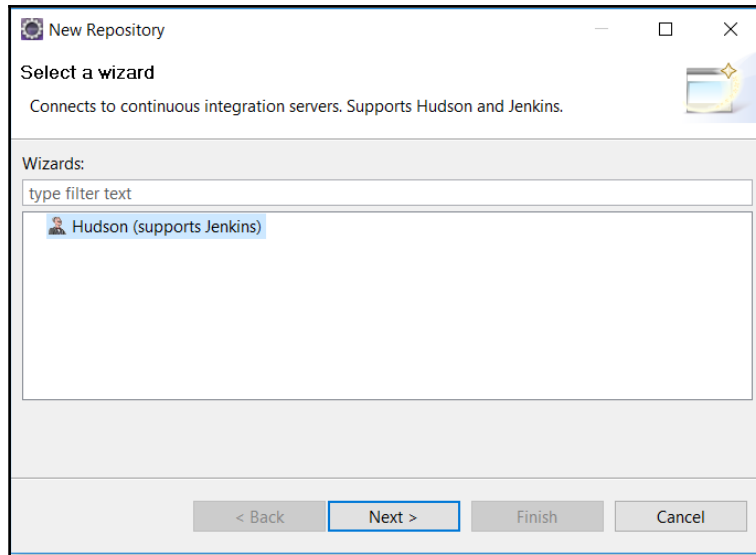
Icon: [S](#) [M](#) [L](#)

[Legend](#) [RSS for all](#) [RSS for failures](#) [RSS for just latest builds](#)









**Build Server Properties**

Repository is valid.

Server:

Label:   Disconnected

User:   Anonymous

Password:   Save Password

**Build Plans**

- PetClinic
- PetClinic-CloudProvisioning
- PetClinic-Code
- PetClinic-Deploy
- PetClinic-Docker
- PetClinic-FuncTest
- PetClinic-LoadTest
- PetClinic-Prod

**HTTP Authentication**

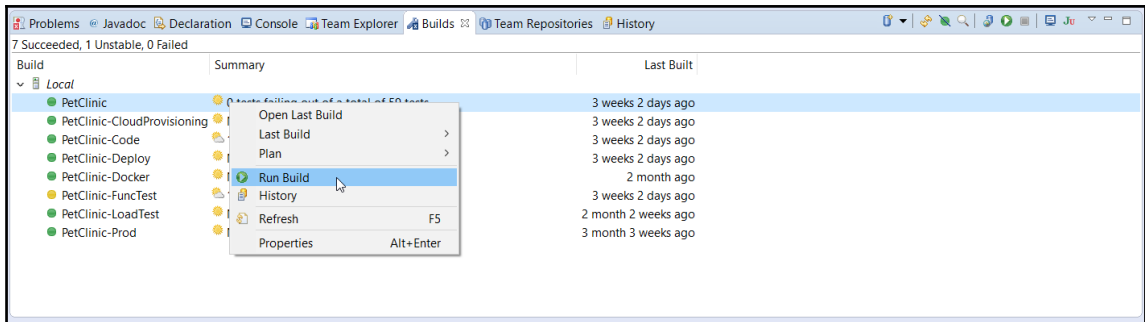
Enable HTTP Authentication

User:

Password:   Save Password

**Certificate Authentication**

**Proxy Server Configuration**



## Installing Plugins/Upgrades

### Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

### Dashboard View

● Success

### Deploy to container Plugin

● Success

### Monitoring

● Success

### Audit Trail

● Success

### disk-usage plugin

● Success

### Backup plugin







● Success


➡ [Go back to the top page](#)

(you can start using the installed plugins right away)

➡ Restart Jenkins when installation is complete and no jobs are running












- 
[Disk Usage](#)  
 Displays per-project disk usage
- 
[Manage Users](#)  
 Create/delete/modify users that can log in to this Jenkins
- 
[In-process Script Approval](#)  
 Allows a Jenkins administrator to review proposed scripts (written e.g. in Groovy) which run inside the Jenkins process and so could bypass security restrictions.
- 
[Backup manager](#)  
 Backup or Restore Jenkins configuration files
- 
[Monitoring of Jenkins master](#)  
 Monitoring of memory, cpu, http requests and more in Jenkins master.  
 You can also view the monitoring of [Jenkins nodes](#).
- 
[Prepare for Shutdown](#)  
 Stops executing new builds, so that the system can be eventually shut down safely.





# Jenkins

Jenkins > Backup manager

-  [New Item](#)
-  [People](#)
-  [Build History](#)
-  [Project Relationship](#)
-  [Check File Fingerprint](#)
-  [Manage Jenkins](#)
-  [My Views](#)
-  [Credentials](#)
-  [Disk Usage](#)

## Backup manager

-  [Setup](#)
-  [Backup Hudson configuration](#)
-  [Restore Hudson configuration](#)



# Backup config files

## Backup configuration

Hudson root directory F:\#JenkinsEssentials\FirstDraftjenkinsHome

Backup directory  ?

Format

File name template  ?

Custom exclusions  ?

- Verbose mode ?
- Configuration files (.xml) only ?
- No shutdown ?

## Backup content

Backup job workspace

Includes  ?

Excludes  ?

Case-sensitive

- Backup builds history
- Backup maven artifacts archives

Jenkins
1  admin | log

Jenkins > Backup manager

- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Credentials
- Disk Usage

Jenkins is going to shut down

```

[ INFO] Backup started at [05/27/17 15:01:27]
[ INFO] Setting hudson in shutdown mode to avoid files corruptions.
[ INFO] Waiting all jobs end...
[ INFO] Number of running jobs detected : 0
[ INFO] All jobs finished.
[ INFO] Full backup file name : d:\backup\YYYYDDMM_hhmm

```

**Build Queue** -

Jenkins is going to shut down. No further builds will be performed. ([cancel](#))

**Build Executor Status** -

1 Idle

2 Idle

**Jenkins is going to shut down**

```
[ INFO] Backup started at [05/27/17 15:01:27]
[ INFO] Setting hudson in shutdown mode to avoid files corruptions.
[ INFO] Waiting all jobs end...
[ INFO] Number of running jobs detected : 0
[ INFO] All jobs finished.
[ INFO] Full backup file name : d:\backup\YYYYDDMM_hhmm
[ INFO] Saved files : 12482
[ INFO] Number of errors : 0
[ INFO] Cancel hudson shutdown mode
[ INFO] Backup end at [05/27/17 15:03:51]
[ INFO] [143.935s]
```

**Jenkins** 1 search

Jenkins > Backup manager

**Backup manager**

Available backup in d:\backup :

m

Launch restore

**Build Queue** -

No builds in the queue.

**Build Executor Status** -

1	Idle
2	Idle

```
Command Prompt
C:\Users\Mitesh\Downloads>java -jar jenkins-cli.jar -s http://localhost:8080/ help
add-job-to-view
  Adds jobs to view.
build
  Builds a job, and optionally waits until its completion.
cancel-quiet-down
  Cancel the effect of the "quiet-down" command.
clear-queue
  Clears the build queue.
connect-node
  Reconnect to a node(s)
console
  Retrieves console output of a build.
copy-job
  Copies a job.
create-credentials-by-xml
  Create Credential by XML
create-credentials-domain-by-xml
  Create Credentials Domain by XML
create-job
  Creates a new job by reading stdin as a configuration XML file.
create-node
  Creates a new node by reading stdin as a XML configuration.
create-view
  Creates a new view by reading stdin as a XML configuration.
declarative-linter
  Validate a Jenkinsfile containing a Declarative Pipeline
delete-builds
  Deletes build record(s).
delete-credentials
  Delete a Credential
delete-credentials-domain
  Delete a Credentials Domain
delete-job
  Deletes job(s).
delete-node
  Deletes node(s)
delete-view
  Deletes view(s).
```

```
Command Prompt
C:\Users\Mitesh\Downloads>java -jar jenkins-cli.jar -s http://localhost:8080/ version
2.73

C:\Users\Mitesh\Downloads>java -jar jenkins-cli.jar -s http://localhost:8080/ who-am-i
Authenticated as: anonymous
Authorities:
  anonymous

C:\Users\Mitesh\Downloads>java -jar jenkins-cli.jar -s http://localhost:8080/ list-jobs
AzureAppDeploy
CucumberProject
CucumberProject2
FirstAndroidProject
FirstAntExample
FirstJob
FirstPipeline
Main-PetClinic
Maven-Sample
mitesh51
PetClinic-Code
PetClinic-Deploy
PetClinic-FuncTest
PetClinic-LoadTest
PetClinic-Package
PetClinic-Prod
PetClinicWebHook
SonarHTMLCSSJS
SpringBoot
Test
TestPipeline
ZapTest
ZapTestBackup

C:\Users\Mitesh\Downloads>
```

Jenkins 1 search admin | log out

Jenkins ENABLE AUTO REFRESH

[Back to Dashboard](#)

### Disk usage

Jobs:-, Builds:-, Locked builds:-, All workspace:-, Not current workspace:-

Builds older than

day ago ▾ Builds younger than

day ago ▾ Filter

### Disk Usage Trend

Legend: space for jobs directory (grey), all jobs (green), all builds (blue), slave workspaces (red), non slave workspaces (yellow)

Project name	Jobs	Builds all	Builds locked	All workspace	Not current slave workspace
Total	-	-	-	-	-

Next Disk usage calculation of builds will be in 2 hours 56 minutes.

[Record Builds Disk Usage](#)

Next Disk usage calculation of jobs will be in 2 hours 56 minutes.

[Record Jobs Disk Usage](#)

#### Disk usage

- Enable calculation of builds  
Time interval for calculation
- Enable calculation of jobs  
Time interval for calculation
- Enable calculation of workspace  
Time interval for calculation
- Warn if some size is exceeded
- Show disk usage trend graph on the project page
- Show free space of jobs directory in global graph
- Length of global disk usage history
- Time out for calculation of slave workspace in minutes
- Control workspace from slave side too
- Jobs excluded for disk usage calculation

Jenkins > PetClinic-Package

## Maven project PetClinic-Package

Back to Dashboard | Status | Changes | Workspace | Build Now | Delete Maven project | Configure | Modules | Favorite

Build History: #2 Jun 4, 2017 5:32 PM 548 KB | #1 May 26, 2017 10:51 PM

Disk Usage: Job | All builds | Locked builds | All workspaces | Slave workspaces | Non-slave workspaces

### Disk Usage Trend

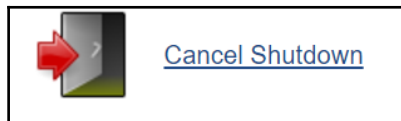
### Test Result Trend

Jenkins > [3] search

Jenkins is going to shut down

Build Queue: Jenkins is going to shut down. No further builds will be performed. [cancel]











S	W	Name ↓	Last Success	Last Failure	Last Duration
	☀	<a href="#">AzureAppDeploy</a>	N/A	N/A	N/A
	☀	<a href="#">CucumberProject</a>	13 days - #6	13 days - #2	14 sec
	☀	<a href="#">CucumberProject2</a>	13 days - #2	N/A	3 min 37 sec
	☀	<a href="#">FirstAndroidProject</a>	N/A	N/A	N/A
	☀	<a href="#">FirstAntExample</a>	1 day 2 hr - #6	N/A	43 sec
	☀	<a href="#">FirstJob</a>	11 hr - #42	N/A	12 sec
	☀	<a href="#">FirstPipeline</a>	2 mo 23 days - #20	2 mo 23 days - #19	8 min 19 sec
	☀	<a href="#">Main-PetClinic</a>	3 mo 7 days - #1	N/A	30 min
	☀	<a href="#">Maven-Sample</a>	3 mo 7 days - #1	N/A	59 sec
	👤	<a href="#">mitesh51</a>	N/A	2 days 0 hr - log	4.4 sec
	☀	<a href="#">Multi-level-module-project</a>	19 min - #1	N/A	2 min 55 sec



Filter:

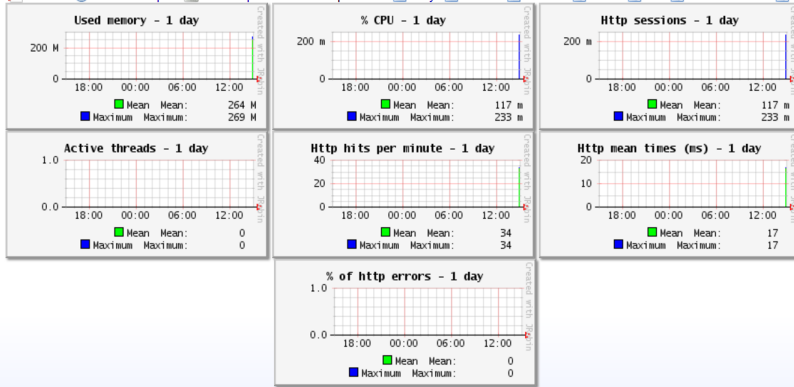
Install ↓	Name	Version
<input type="checkbox"/>	<a href="#">Dynatrace Application Monitoring Plugin</a>	2.0.5
<input checked="" type="checkbox"/>	<a href="#">Monitoring</a> Monitoring of Jenkins	1.67.0
<input type="checkbox"/>	<a href="#">Job/Queue/Slaves Monitoring Plugin</a>	1.4

Update information obtained: 1 day 4 hr ago

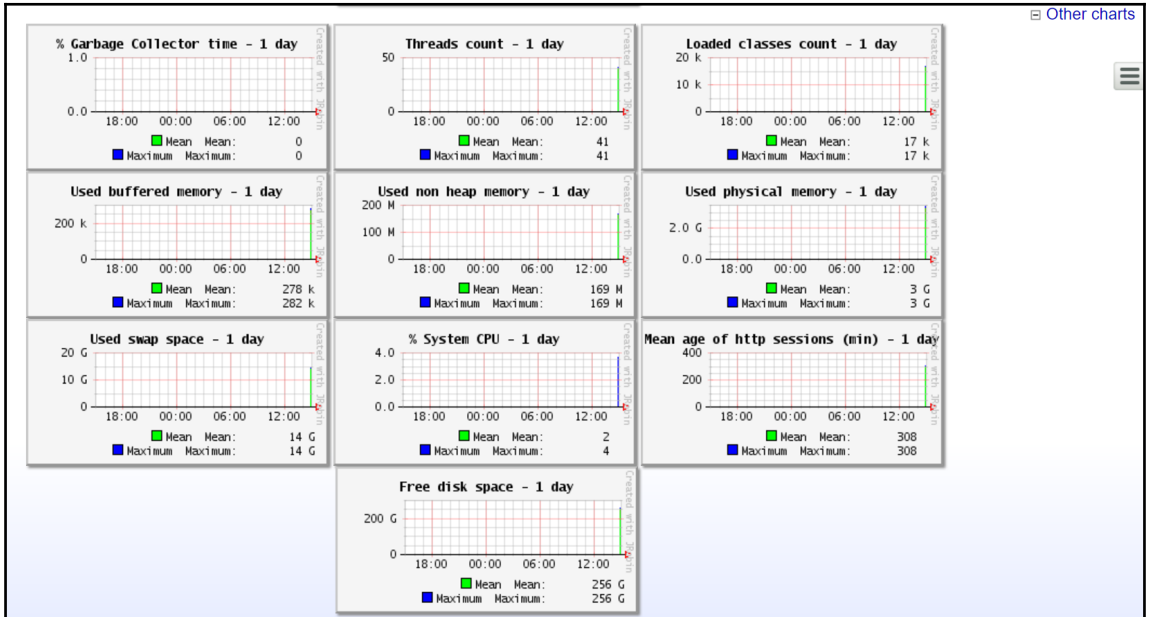
- 
[Jenkins CLI](#)  
 Access/manage Jenkins from your shell, or from your script.
- 
[Script Console](#)  
 Executes arbitrary script for administration/trouble-shooting/diagnostics.
- 
[Manage Nodes](#)  
 Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- 
[About Jenkins](#)  
 See the version and license information.
- 
[Manage Old Data](#)  
 Scrub configuration files to remove remnants from old plugins and earlier versions.
- 
[Install as Windows Service](#)  
 Installs Jenkins as a Windows service to this system, so that Jenkins starts automatically when the machine boots.
- 
[Manage Users](#)  
 Create/delete/modify users that can log in to this Jenkins
- 
[In-process Script Approval](#)  
 Allows a Jenkins administrator to review proposed scripts (written e.g. in Groovy) which run inside the Jenkins process and so could bypass security restrictions.
- 
[Monitoring of Jenkins master](#)  
 Monitoring of memory, cpu, http requests and more in Jenkins master.  
 You can also view the monitoring of [Jenkins nodes](#).
- 
[Prepare for Shutdown](#)  
 Stops executing new builds, so that the system can be eventually shut down safely.



[Update](#)
[PDF](#)
[Online help](#)
[Desktop](#)
 Choice of period : [Day](#) [Week](#) [Month](#) [Year](#) [All](#) [Customized](#) [By deployment](#)



[Other charts](#)



[Other charts](#)

### Statistics http - 1 day

Request	% of cumulative time	Hits	Mean time (ms)	Max time (ms)	Standard deviation	% of cumulative cpu time	Mean cpu time (ms)	% of system error	Mean size (Kb)
http global	100	34	17	128	34	100	5	0.00	
http warning	50	5	66	114	52	24	0	0.00	54
http severe	0	0	-1	0	-1	0	-1	0.00	0

41 hits/min on 18 requests [Details](#)

### Statistics http system errors - 1 day

None

### Statistics system errors logs - 1 day

None

### Current requests

None

### System information

- Execute the garbage collector
- Generate a heap dump
- View memory histogram
- Invalidate http sessions
- View http sessions
- View deployment descriptor
- MBeans
- View OS processes
- JNDI tree

Host: LAPTOP-FQ8JSR2E@192.168.99.1

Java memory used: 290 Mb / 889 Mb

Nb of http sessions: 1

Nb of active threads (current http requests): 0

% System CPU: 16.97

[Details](#)

### Threads

Threads on LAPTOP-FQ8JSR2E@192.168.99.1: Number = 42, Maximum = 51, Total started = 789 [Details](#)

Thread	Daemon ?	Priority	State	Executed method	Cpu time (ms)	User time (ms)	Kill
Attach Listener	yes	5	RUNNABLE		0	0	
AWT-Window	yes	6	RUNNABLE	sun.awt.windows.WToolkit.eventLoop(Native Method)	93	31	
DestroyJavaVM	no	5	RUNNABLE		3,515	2,203	
FilePath.localPool [#56]	yes	5	TIMED_WAITING	sun.misc.Unsafe park(Native Method)	15	0	
Finalizer	yes	8	WAITING	java.lang.Object.wait(Native Method)	328	109	
Handling GET /monitoring from 0:0:0:0:0:0:1 - RequestHandlerThread[#309]	yes	5	RUNNABLE	java.lang.Thread.dumpThreads(Native Method)	1,546	1,187	
IOHub#1: Selector[keys 0, gen 0] / Computer.threadPoolForRemoting [#9]	yes	5	RUNNABLE	sun.nio.ch.WindowsSelectorImpl\$SubSelector.poll0(Native Method)	0	0	
Java2D Disposer	yes	10	WAITING	java.lang.Object.wait(Native Method)	15	0	
javamelody	yes	5	TIMED_WAITING	java.lang.Object.wait(Native Method)	140	15	
Jenkins cron thread	no	5	WAITING	java.lang.Object.wait(Native Method)	0	0	
Jenkins UDP 33848 monitoring thread	no	5	RUNNABLE	java.net.TwoStacksPlainDatagramSocketImpl.receive0(Native Method)	0	0	
jenkins.util.Timer [#10]	yes	5	TIMED_WAITING	sun.misc.Unsafe park(Native Method)	500	93	
jenkins.util.Timer [#1]	yes	5	WAITING	sun.misc.Unsafe park(Native Method)	359	125	
jenkins.util.Timer [#2]	yes	5	WAITING	sun.misc.Unsafe park(Native Method)	328	109	
jenkins.util.Timer [#3]	yes	5	WAITING	sun.misc.Unsafe park(Native Method)	578	218	
jenkins.util.Timer [#4]	yes	5	WAITING	sun.misc.Unsafe park(Native Method)	484	156	
jenkins.util.Timer [#5]	yes	5	WAITING	sun.misc.Unsafe park(Native Method)	328	156	
jenkins.util.Timer [#6]	yes	5	WAITING	sun.misc.Unsafe park(Native Method)	546	171	
jenkins.util.Timer [#7]	yes	5	WAITING	sun.misc.Unsafe park(Native Method)	593	265	

Updates **Available** Installed Advanced

Install ↓	Name	Version
<input checked="" type="checkbox"/>	<a href="#">Build Monitor View</a> Provides a highly visible view of the status of selected Jenkins jobs. It easily accommodates different computer screen sizes and is ideal as an Extreme Feedback Device to be displayed on a screen on your office wall.	1.11+build.201701152243

Update information obtained: 50 min ago

Jenkins Open Blue Ocean 2 search admin | log out

Jenkins > ENABLE AUTO REFRESH +add description

- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Disk Usage
- Credentials

**Build Queue** -

No builds in the queue.

**Build Executor Status** -

1 Idle  
2 Idle

S	W	Name ↓	Last Success	Last Failure	Last Duration	Fav
		FirstAntiExample	11 days - #2	11 days - #1	14 sec	
		FirstJob	3 days 1 hr - #12	N/A	3.3 sec	
		FirstPipeline	2 days 21 hr - #20	2 days 22 hr - #19	8 min 19 sec	
		Main-PetClinic	16 days - #1	N/A	30 min	
		Maven-Sample	16 days - #1	N/A	59 sec	
		mitesh51	2 days 21 hr - log	N/A	5 min 38 sec	
		PetClinic-Code	2 days 16 hr - #21	11 days - #20	2 min 50 sec	
		PetClinic-Deploy	2 days 16 hr - #7	2 days 22 hr - #4	3 min 19 sec	
		PetClinic-FuncTest	2 days 16 hr - #5	N/A	37 sec	
		PetClinic-LoadTest	2 days 16 hr - #4	N/A	1 min 0 sec	
		PetClinic-Package	2 days 16 hr - #2	N/A	5 min 7 sec	
		PetClinic-Prod	2 days 16 hr - #1	N/A	1 min 52 sec	
		SpringBoot	N/A	16 days - #2	4.2 sec	

Jenkins Open Blue Ocean 2 search admin | log out

Jenkins >

- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Disk Usage
- Credentials

**Build Queue** -

No builds in the queue.

**Build Executor Status** -

1 Idle  
2 Idle

View name

- Build Monitor View**  
Shows a highly visible status of selected jobs. Ideal as an Extreme Feedback Device to be displayed on a screen on your office wall.
- Build Pipeline View**  
Shows the jobs in a build pipeline view. The complete pipeline of jobs that a version propagates through are shown as a row in the view.
- Dashboard**  
Customizable view that contains various portlets containing information about your job(s)
- List View**  
Shows items in a simple list format. You can choose which jobs are to be displayed in which view.
- My View**  
This view automatically displays all the jobs that the current user has an access to.

Jenkins > PetClinic-M

**New Item**

- People
- Build History
- Edit View**
- Delete View
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Disk Usage
- Credentials

**Build Queue**

No builds in the queue.

**Build Executor Status**

1 Idle

Name: PetClinic-M

Description: [Plain text] [Preview](#)

Filter build queue

Filter build executors

**Job Filters**

Status Filter: All selected jobs

Recurse in subfolders

Jobs

- FirstAntExample
- FirstJob
- FirstPipeline
- Main-PetClinic
- Maven-Sample
- mitesh51
- PetClinic-Code
- PetClinic-Deploy
- PetClinic-FuncTest

localhost:8080/view/PetClinic-M

## PetClinic-M

**PetClinic-Code**

Back in the green!

#21 3 days ago

**PetClinic-Deploy**

#7 3 days ago

**PetClinic-FuncTest**

4 builds have failed

#5 3 days ago

**PetClinic-LoadTest**

#4 3 days ago

**PetClinic-Package**

#2 3 days ago

**PetClinic-Prod**

#1 3 days ago

Build Monitor version 1.11+build.201701152243 brought to you by Jan Melak

**E-mail Notification**

SMTP server  ?

Default user e-mail suffix  ?

Use SMTP Authentication ?

User Name  ?

Password  ?

Use SSL  ?

SMTP Port  ?

Reply-To Address  ?

Charset  ?

Test configuration by sending test e-mail

Jenkins > PetClinic-Prod >

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

Credentials  Add

Tomcat URL

Add Container

Deploy on failure

**E-mail Notification** [X] ?

Recipients

Whitespace-separated list of recipient addresses. May reference build parameters like \$PARAM. E-mail will be sent when a build fails, becomes unstable or returns to stable.

Send e-mail for every unstable build

Send separate e-mails to individuals who broke the build ?

Add post-build action

Save Apply

Jenkins > PetClinic-Prod >

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

### Editable Email Notification X ?

Disable Extended Email Publisher  ?

Allows the user to disable the publisher, while maintaining the settings

Project Recipient List  ?

Comma-separated list of email address that should receive notifications for this project.

Project Reply-To List  ?

Comma-separated list of email address that should be in the Reply-To header for this project.

Content Type  ?

Default Subject  ?

Default Content  ?

Attachments  ?

Can use wildcards like 'module/dist/\*\*/\*.zip'. See the [@includes of Ant fileset](#) for the exact format. The base directory is the [workspace](#).

Attach Build Log  ?

Content Token Reference  ?

[Advanced Settings...](#)

Jenkins >

- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- Disk Usage
- Open Blue Ocean
- Credentials

**Build Queue** -

No builds in the queue.

**Build Executor Status** -

1 Idle

2 Idle

## Script Console

Type in an arbitrary [Groovy script](#) and execute it on the server. Useful for trouble-shooting and diagnostics. Use the 'println' command to see the output (if you use `System.out`, it will go to the server's stdout, which is harder to see.) Example:

```
println(Jenkins.instance.pluginManager.plugins)
```

All the classes from all the plugins are visible. `jenkins.*`, `jenkins.model.*`, `hudson.*`, and `hudson.model.*` are pre-imported.

```

1 def warning='[You can ARCHIVE this Job]!'
2 def now=new Date()
3
4 for (job in hudson.model.Hudson.instance.items) {
5   println "\nName: ${job.name}"
6   Run lastSuccessfulBuild = job.getLastSuccessfulBuild()
7   if (lastSuccessfulBuild != null) {
8     def time = lastSuccessfulBuild.getTimestamp().getTime()
9     if (now.month.equals(time.month)){
10    println "Project has same month as build";
11   }else {
12   if (job.description.startsWith(warning)){
13   println "Description has already been changed";
14   }else{
15   job.setDescription("${warning}")
16   }
17   }
18   }
19 }

```

## Result

Name: AzureAppDeploy

Name: CucumberProject  
Project has same month as build

Name: CucumberProject2  
Project has same month as build

Name: FirstAndroidProject

Name: FirstAntExample  
Project has same month as build

Name: FirstJob  
Project has same month as build

Name: FirstPipeline

Name: Main-PetClinic

Name: Maven-Sample

Name: mitesh51

Name: PetClinic-Code

Name: PetClinic-Deploy

Name: PetClinic-FuncTest

**Jenkins** 3 search

Jenkins > PetClinic-Deploy > DISABLE AUTO REFRESH

## Project PetClinic-Deploy

[You can ARCHIVE this Job!]

- [Back to Dashboard](#)
- [Status](#)
- [Changes](#)
- [Workspace](#)
- [Build Now](#)
- [Delete Project](#)
- [Configure](#)
- [Open Blue Ocean](#)

[edit description](#)  
[Disable Project](#)

**Build History** [trend](#)

find

#	Time	Size
#7	Jun 4, 2017 5:38 PM	5 KB
#6	Jun 4, 2017 12:01 PM	5 KB
#5	Jun 4, 2017 11:44 AM	5 KB
#4	Jun 4, 2017 11:39 AM	4 KB
#3	Jun 4, 2017 11:25 AM	5 KB

**Disk Usage**

- Job 32 KB
- All builds 32 KB
- Locked builds 40 MB
- All workspaces 40 MB
- Slave workspaces -
- Non-slave workspaces 40 MB

**Disk Usage Trend**

job, builds [MB] (left axis)  
workspaces [MB] (right axis)

Legend: job (green), builds (blue), slave workspaces (red), non-slave workspaces (yellow)

**Downstream Projects**

- [PetClinic-FuncTest](#)

**Permalinks**

**Jenkins** 3 search

Jenkins > PetClinic-Deploy >

**General** | Source Code Management | Build Triggers | Build Environment | Build | Post-build Actions

Project name:

Description:   
[Plain text] [Preview](#)












- Discard old builds
- GitHub project
- Permission to Copy Artifact
- Promote builds when...
- This project is parameterized
- Throttle builds
- Prepare an environment for the run
- Disable this project

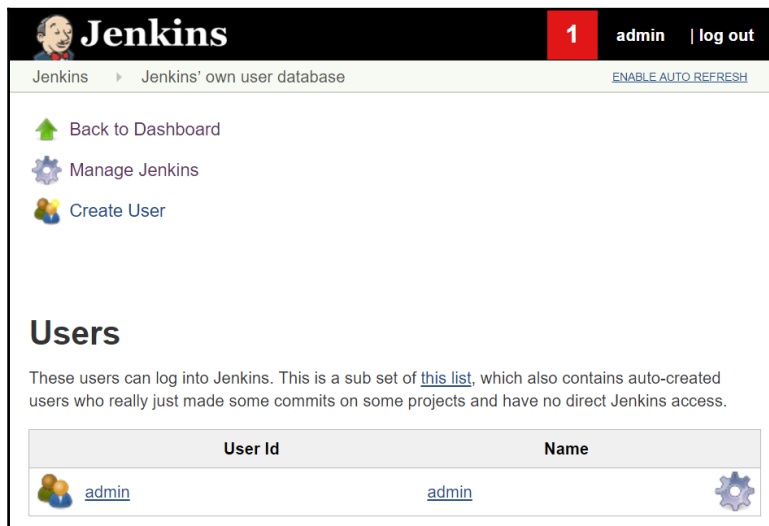
if necessary

[Advanced...](#)






# Chapter 03: Managing Security

-  [System Log](#)  
System log captures output from `java.util.logging` output related to Jenkins.
-  [Load Statistics](#)  
Check your resource utilization and see if you need more computers for your builds.
-  [Jenkins CLI](#)  
Access/manage Jenkins from your shell, or from your script.
-  [Script Console](#)  
Executes arbitrary script for administration/trouble-shooting/diagnostics.
-  [Manage Nodes](#)  
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
-  [About Jenkins](#)  
See the version and license information.
-  [Manage Old Data](#)  
Scrub configuration files to remove remnants from old plugins and earlier versions.
-  [Install as Windows Service](#)  
Installs Jenkins as a Windows service to this system, so that Jenkins starts automatically when the machine boots.
-  [Manage Users](#)  
Create/delete/modify users that can log in to this Jenkins
-  [In-process Script Approval](#)  
Allows a Jenkins administrator to review proposed scripts (written e.g. in Groovy) which run inside the Jenkins process and so could bypass security restrictions.
-  [Prepare for Shutdown](#)  
Stops executing new builds, so that the system can be eventually shut down safely.



The screenshot shows the Jenkins web interface. At the top, the Jenkins logo is on the left, and a red notification badge with the number '1' is next to the 'admin' user name, with a 'log out' link. The breadcrumb trail shows 'Jenkins' > 'Jenkins' own user database'. Below this, there are three navigation links: 'Back to Dashboard', 'Manage Jenkins', and 'Create User'. The main heading is 'Users', followed by a paragraph explaining that these users can log into Jenkins and are a subset of a larger list. Below the text is a table with two columns: 'User Id' and 'Name'. The table contains one entry for the 'admin' user, with a gear icon for configuration to the right.

User Id	Name
 <a href="#">admin</a>	<a href="#">admin</a> 



# Jenkins

Jenkins > Jenkins' own user database

- [Back to Dashboard](#)
- [Manage Jenkins](#)
- [Create User](#)

## Create User


Username:

Password:

Confirm password:

Full name:

E-mail address:



# Jenkins





1 admin | log out

Jenkins > Jenkins' own user database [ENABLE AUTO REFRESH](#)

- [Back to Dashboard](#)
- [Manage Jenkins](#)
- [Create User](#)

## Users

These users can log into Jenkins. This is a sub set of [this list](#), which also contains auto-created users who really just made some commits on some projects and have no direct Jenkins access.

User Id	Name	
 <a href="#">admin</a>	<a href="#">admin</a>	
 <a href="#">Shreyansh</a>	<a href="#">Shreyansh Soni</a>	

Configure Global Security

Enable security

TCP port for JNLP agents  Fixed :   Random  Disable

Agent protocols...

Disable remember me

Access Control

**Security Realm**

- Delegate to servlet container
- Jenkins' own user database
  - Allow users to sign up
- LDAP

**Authorization**

- Anyone can do anything
- Legacy mode
- Logged-in users can do anything
  - Allow anonymous read access

Save Apply

Jenkins > Configure Global Security

Access Control

**Security Realm**

- Delegate to servlet container
- Jenkins' own user database
  - Allow users to sign up
- LDAP

**Authorization**

- Anyone can do anything
- Legacy mode
- Logged-in users can do anything
- Matrix-based security

User/group	Overall	Credentials				Agent				Job													
		Administer	Read	Create	Delete	Manage	Domains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provision	Build	Cancel	Configure	Create	Delete	Discover	Move
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

User/group to add:

- Project-based Matrix Authorization Strategy

Markup Formatter:

Jenkins > Configure Global Security

Access Control

**Security Realm**

- Delegate to servlet container
- Jenkins' own user database
  - Allow users to sign up
- LDAP

**Authorization**

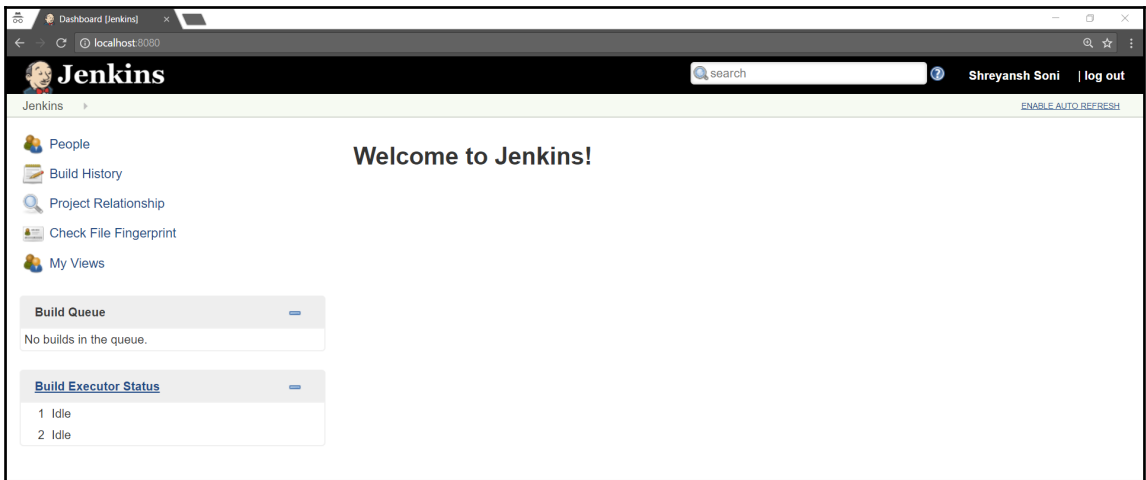
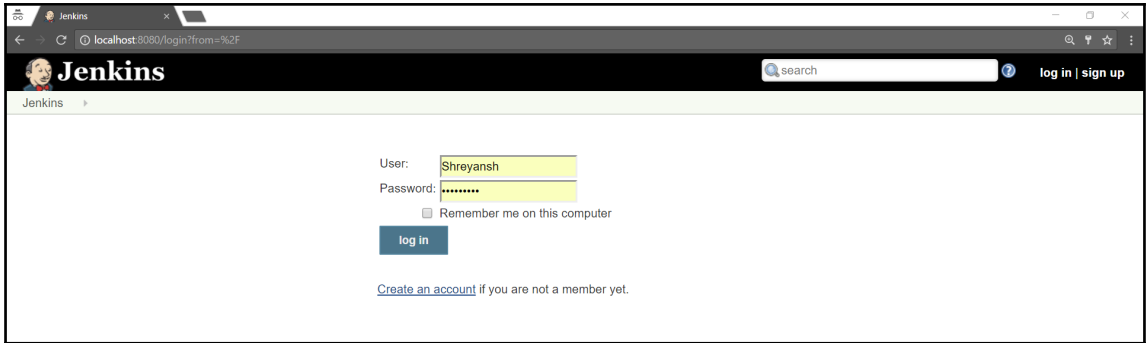
- Anyone can do anything
- Legacy mode
- Logged-in users can do anything
- Matrix-based security

User/group	Overall	Credentials				Agent				Job													
		Administer	Read	Create	Delete	Manage	Domains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provision	Build	Cancel	Configure	Create	Delete	Discover	Move
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shreyansh	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add:

- Project-based Matrix Authorization Strategy

Markup Formatter:



Jenkins > Configure Global Security

User/group	Overall				Credentials				Agent				Job													
	Administer	Read	Create	Delete	Manage	Domains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provision	Build	Cancel	Configure	Create	Delete	Discover	Move	Read	Workspace	Delete	
Shreyansh	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add:

Project-based Matrix Authorization Strategy

Plain text

Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.

Request Forgery exploits

**Crumb Algorithm**

Default Crumb Issuer

Enable proxy compatibility

Enable CLI over Remoting

Use browser for metadata download

Jenkins

search Shreyansh Soni | log out

Jenkins > ENABLE AUTO REFRESH

People

Build History

Project Relationship

Check File Fingerprint

My Views

**Build Queue**

No builds in the queue.

**Build Executor Status**

1 Idle

2 Idle

All | My Dashboard

S	W	Name ↓	Last Success	Last Failure	Last Duration
		<a href="#">FirstAntExample</a>	14 hr - #2	14 hr - #1	14 sec
		<a href="#">FirstJob</a>	3 hr 41 min - #9	N/A	18 sec
		<a href="#">Main-PetClinic</a>	6 days 0 hr - #1	N/A	30 min
		<a href="#">Maven-Sample</a>	6 days 1 hr - #1	N/A	59 sec
		<a href="#">PetClinic-Code</a>	1 day 2 hr - #18	14 hr - #20	1 min 34 sec
		<a href="#">PetClinic-Package</a>	14 hr - #1	N/A	4 min 51 sec
		<a href="#">SpringBoot</a>	N/A	6 days 1 hr - #2	4.2 sec

Icon: [S](#) [M](#) [L](#)

[Legend](#)
[RSS for all](#)
[RSS for failures](#)
[RSS for just latest builds](#)

**Jenkins**

Jenkins > PetClinic-Code >

[Back to Dashboard](#)  
[Status](#)  
[Changes](#)  
[SonarQube](#)

## Project PetClinic-Code

[SonarQube](#)  
[Recent Changes](#)

### Build History

trend ==

find

#20	May 26, 2017 10:14 PM	
#19	May 26, 2017 11:05 AM	
#18	May 26, 2017 10:59 AM	

[RSS for all](#) [RSS for failures](#)

### Permalinks

- [Last build \(#20\), 14 hr ago](#)
- [Last stable build \(#18\), 1 day 2 hr ago](#)
- [Last successful build \(#18\), 1 day 2 hr ago](#)
- [Last failed build \(#20\), 14 hr ago](#)
- [Last unsuccessful build \(#20\), 14 hr ago](#)
- [Last completed build \(#20\), 14 hr ago](#)

Jenkins > Configure Global Security

### Authorization

Anyone can do anything  
 Legacy mode  
 Logged-in users can do anything  
 Matrix-based security  
 Project-based Matrix Authorization Strategy

User/group	Overall	Credentials				Agent				Job													
		Administer	Read	Create	Delete	Manage	Domains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provision	Build	Cancel	Configure	Create	Delete	Discover	Move
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

User/group to add:


Markup Formatter:   
Treats all input as plain text. HTML unsafe characters like - and & are escaped to their respective character entities.

Prevent Cross Site Request Forgery exploits

Crumbs

### Crumb Algorithm


Default Crumb Issuer  
 Enable proxy compatibility




**Jenkins** Shreyansh Soni | log out

Jenkins >

# Access Denied

 Shreyansh is missing the Overall/Read permission



**Jenkins** 1 search admin | log out

Jenkins > PetClinic-Code >

**General** Source Code Management Build Triggers Build Environment Build Post-build Actions

Project name: PetClinic-Code

Description: [Text area]

[Plain text] [Preview](#)

Enable project-based security

Block inheritance of global authorization matrix

User/group	Credentials				Job							Run	SCM					
	Create	Delete	Manage	Domains	Update	View	Build	Cancel	Configure	Delete	Discover	Move	Read	Workspace	Delete	Replay	Update	Tag
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shreyansh	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

User/group to add: Shreyansh



Jenkins > Configure Global Security

**Authorization**

- Anyone can do anything
- Legacy mode
- Logged-in users can do anything
- Matrix-based security
- Project-based Matrix Authorization Strategy

User/group	Overall	Credentials				Agent				Job													
		Administer	Read	Create	Delete	Manage	Domains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provision	Build	Cancel	Configure	Create	Delete	Discover	M
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shreyansh	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add:

Markup Formatter:   
Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.

Prevent Cross Site Request Forgery exploits

Crumbs

**Crumb Algorithm**

- Default Crumb Issuer

Jenkins > Configure Global Security

**Authorization**

- Anyone can do anything
- Legacy mode
- Logged-in users can do anything
- Matrix-based security
- Project-based Matrix Authorization Strategy

User/group	Overall	Credentials				Agent				Job													
		Administer	Read	Create	Delete	Manage	Domains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provision	Build	Cancel	Configure	Create	Delete	Discover	M
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shreyansh	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add:

Markup Formatter:   
Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.

Prevent Cross Site Request Forgery exploits

Crumbs

**Crumb Algorithm**

- Default Crumb Issuer

**Jenkins** search  Shreyansh Soni | log out

Jenkins ENABLE AUTO REFRESH

- People
- Build History
- Project Relationship
- Check File Fingerprint
- My Views

All My Dashboard

S	W	Name ↓	Last Success	Last Failure	Last Duration
		PetClinic-Code	1 day 3 hr - #18	16 hr - #20	1 min 34 sec

Icon: [S](#) [M](#) [L](#) Legend RSS for all RSS for failures RSS for just latest builds

**Build Queue** -

No builds in the queue.

**Build Executor Status** -

1 Idle

2 Idle

**Jenkins** search  Shreyansh Soni | log out

Jenkins ENABLE AUTO REFRESH

Jenkins > PetClinic-Code

- Back to Dashboard
- Status
- Changes
- Workspace
- Build Now
- Delete Project
- Configure
- SonarQube

## Project PetClinic-Code

[SonarQube](#)

[Workspace](#)

[Recent Changes](#)

[add description](#)  
Disable Project

**Build History** trend -

find

	<b>#20</b>	May 26, 2017 10:14 PM
	<b>#19</b>	May 26, 2017 11:05 AM
	<b>#18</b>	May 26, 2017 10:59 AM

RSS for all RSS for failures

**Permalinks**

- [Last build \(#20\), 16 hr ago](#)
- [Last stable build \(#18\), 1 day 3 hr ago](#)
- [Last successful build \(#18\), 1 day 3 hr ago](#)
- [Last failed build \(#20\), 16 hr ago](#)
- [Last unsuccessful build \(#20\), 16 hr ago](#)
- [Last completed build \(#20\), 16 hr ago](#)

Microsoft Azure Virtual machines > Compute > Ubuntu Server 14.04 LTS

Compute

Filter

ubuntu 15

Windows Server  
Microsoft

Red Hat Enterprise Linux  
RedHat

Ubuntu Server  
Canonical

SQL Server 2016 SP1 Enterprise on  
Microsoft

Virtual machine scale set  
Microsoft

SharePoint Server 2016 Trial  
Microsoft

Virtual Machine Images

Data Science Virtual Machine  
Microsoft

Dynamics AX 2012 R3 (preview)  
Microsoft

VoipNow 3.6.0  
4PSA

SiouxApp Business Suite  
7ISolutions

Ubuntu Server 12.04.5 LTS  
Canonical

Ubuntu Server 14.04 LTS  
Canonical

What's new

More

Ubuntu Server 14.04 LTS  
Canonical

Ubuntu Server 14.04.5 LTS amd64 20170803 Public Azure, 20170803 Azure China, 20170803 Germany, 20170629 Azure Gov. Ubuntu Server is the world's most popular Linux for cloud environments. Updates and patches for Ubuntu 14.04 LTS will be available until 2019-04-30. Server is the perfect virtual machine (VM) platform for all workloads from web application databases and Hadoop. For more information see Ubuntu on Azure and using Juju to deploy workloads.

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PUBLISHER Canonical

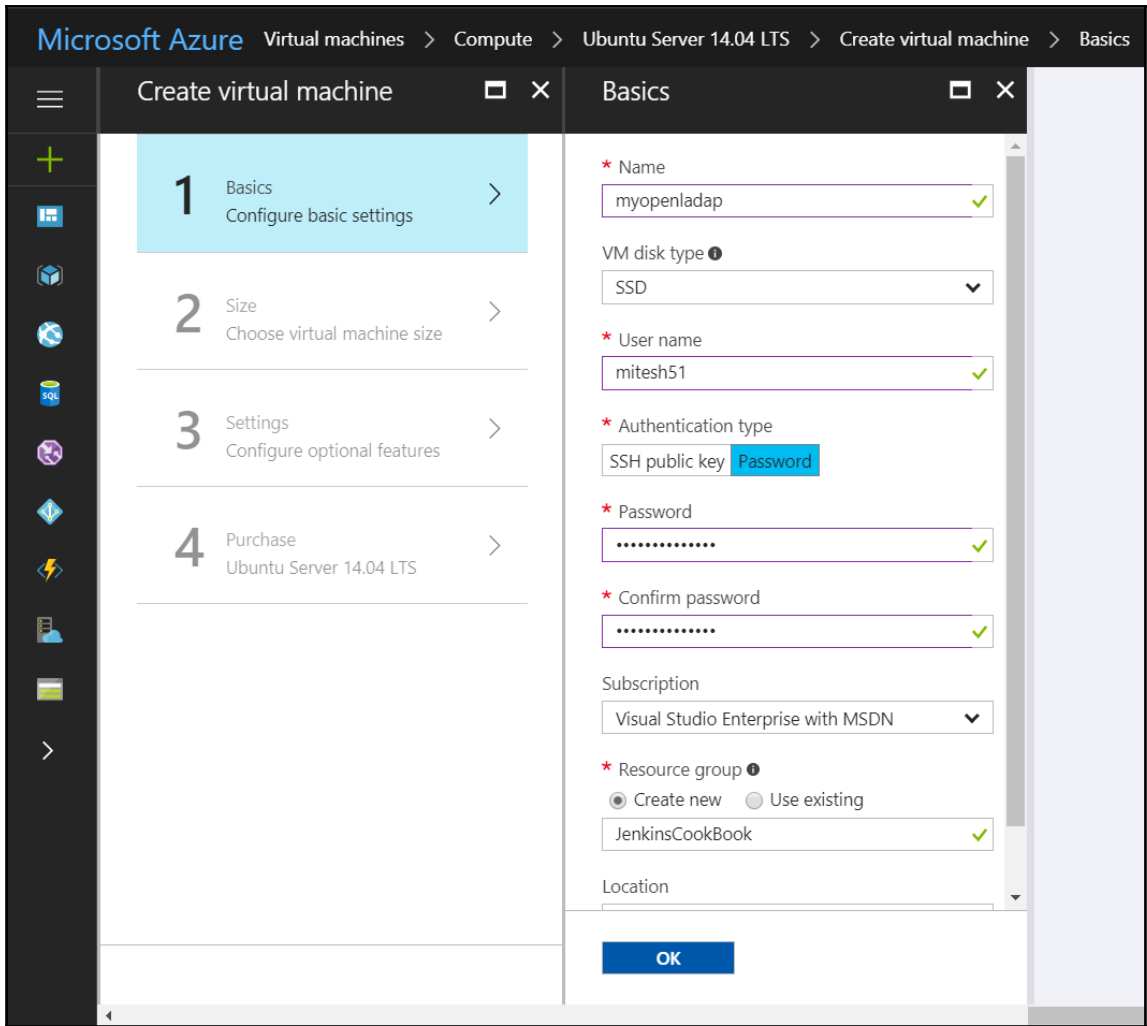
USEFUL LINKS

Documentation  
FAQ  
Pricing details

Select a deployment model

Resource Manager

Create



Microsoft Azure Virtual machines > Compute > Ubuntu Server 14.04 LTS > Create virtual machine > Choose a size

### Create virtual machine

- 1 Basics ✓  
Done
- 2 Size  
Choose virtual machine size >
- 3 Settings  
Configure optional features >
- 4 Purchase  
Ubuntu Server 14.04 LTS >

### Choose a size

Browse the available sizes and their features

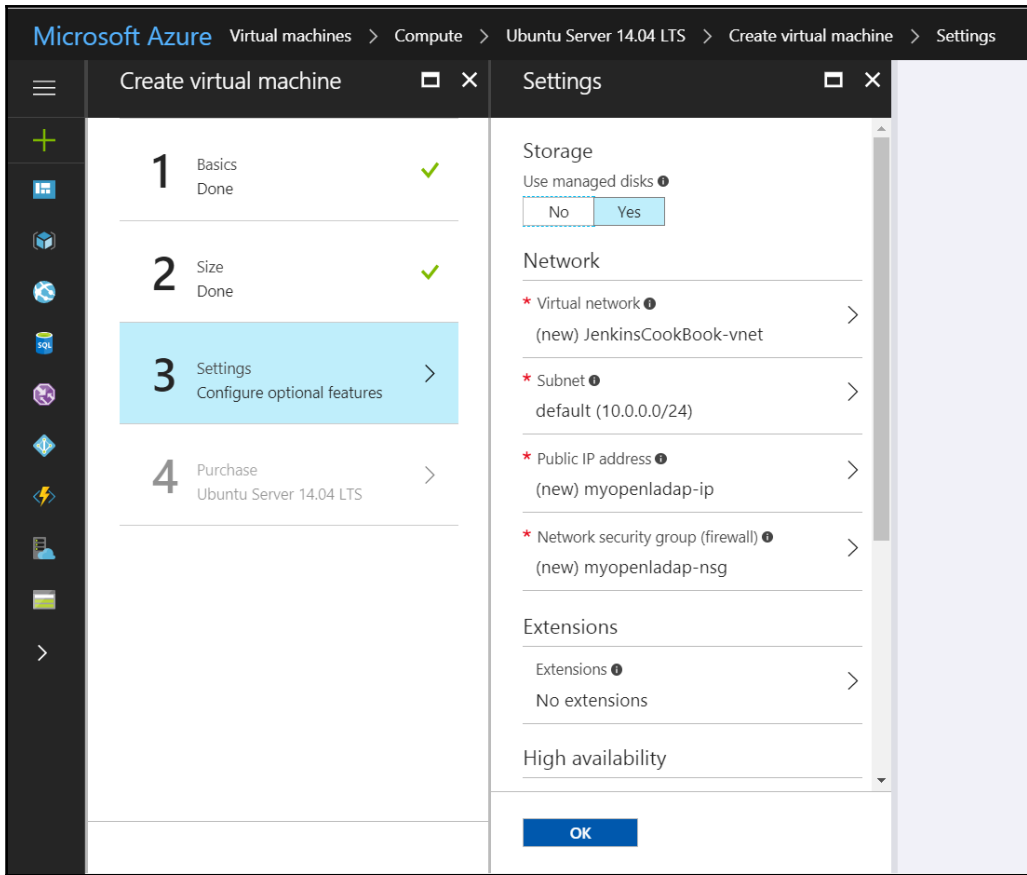
Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Recommended sizes are determined by the publisher of the selected image based on hardware and software requirements.

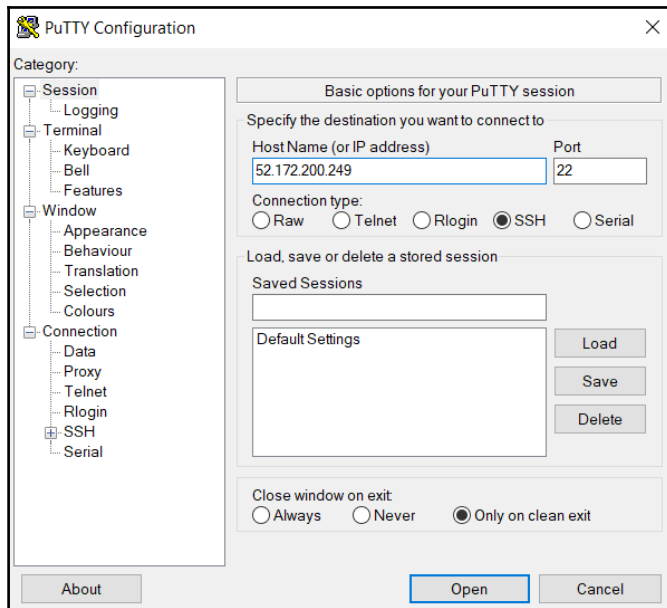
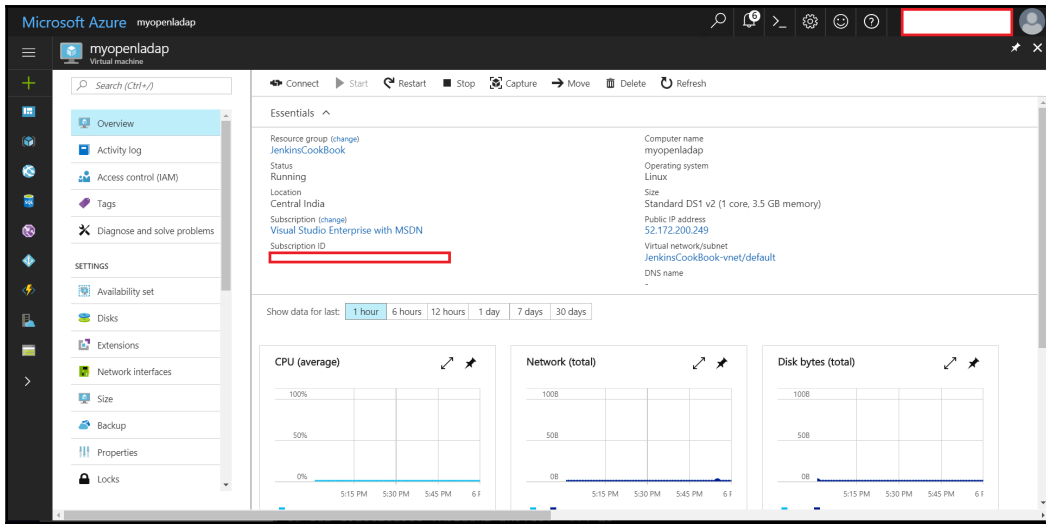
Supported disk type: SSD | Minimum cores: 1 | Minimum memory (GiB): 0

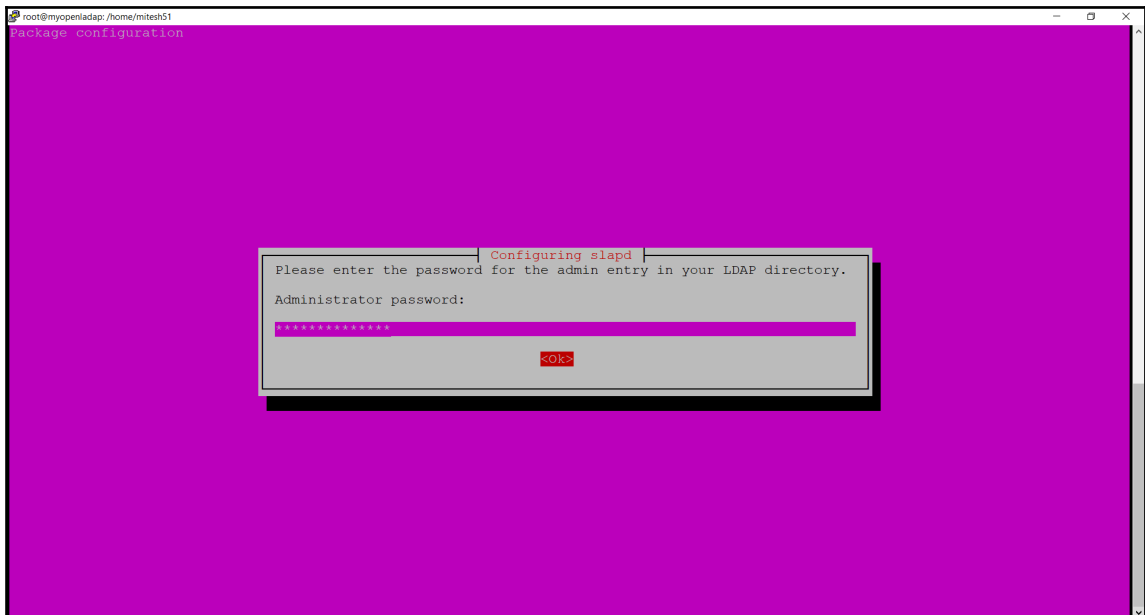
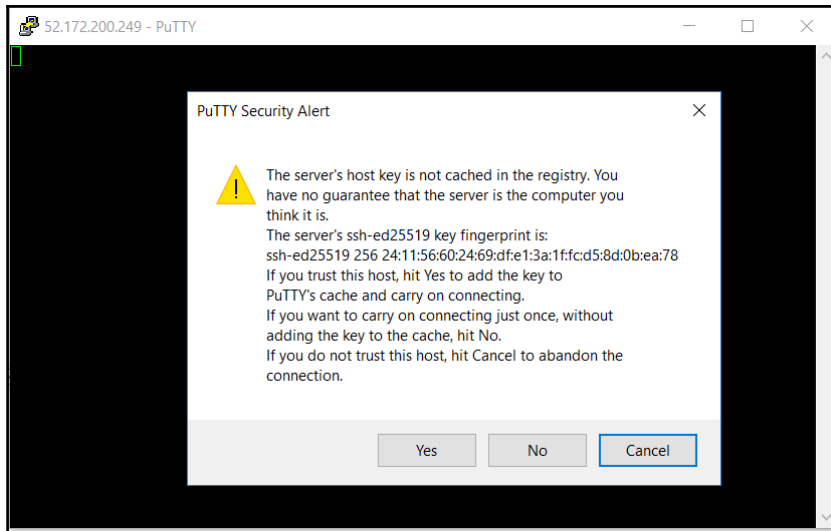
★ Recommended | View all

DS1_V2 Standard ★	DS2_V2 Standard ★	DS3_V2 Standard
1 Core	2 Cores	4 Cores
3.5 GB	7 GB	14 GB
2 Data disks	4 Data disks	8 Data disks
3200 Max IOPS	6400 Max IOPS	12800 Max IOPS
7 GB Local SSD	14 GB Local SSD	28 GB Local SSD
Load balancing	Load balancing	Load balancing
Premium disk support	Premium disk support	Premium disk support
<b>4,179.93</b> <small>INR/MONTH (ESTIMATED)</small>	<b>8,310.68</b> <small>INR/MONTH (ESTIMATED)</small>	<b>16,572.18</b> <small>INR/MONTH (ESTIMATED)</small>

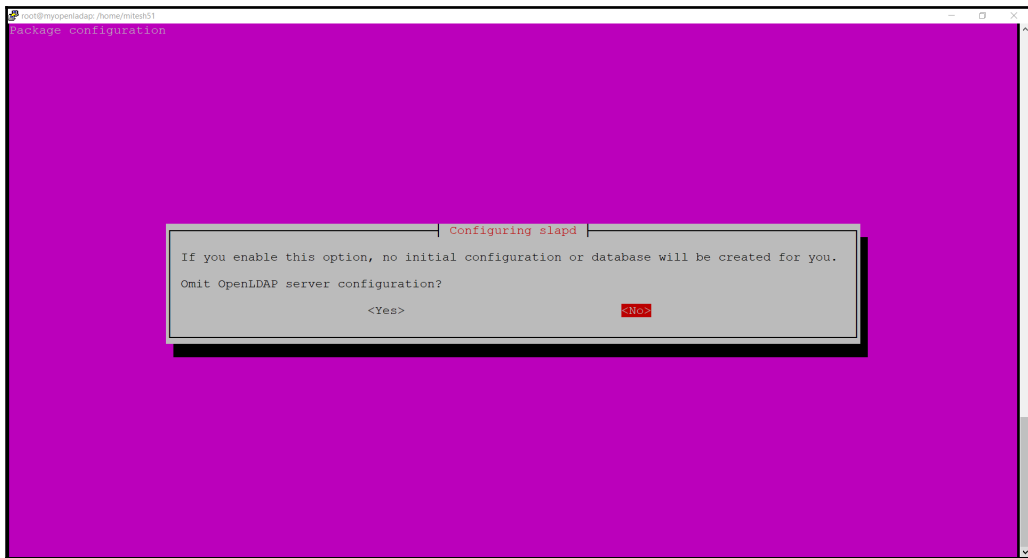
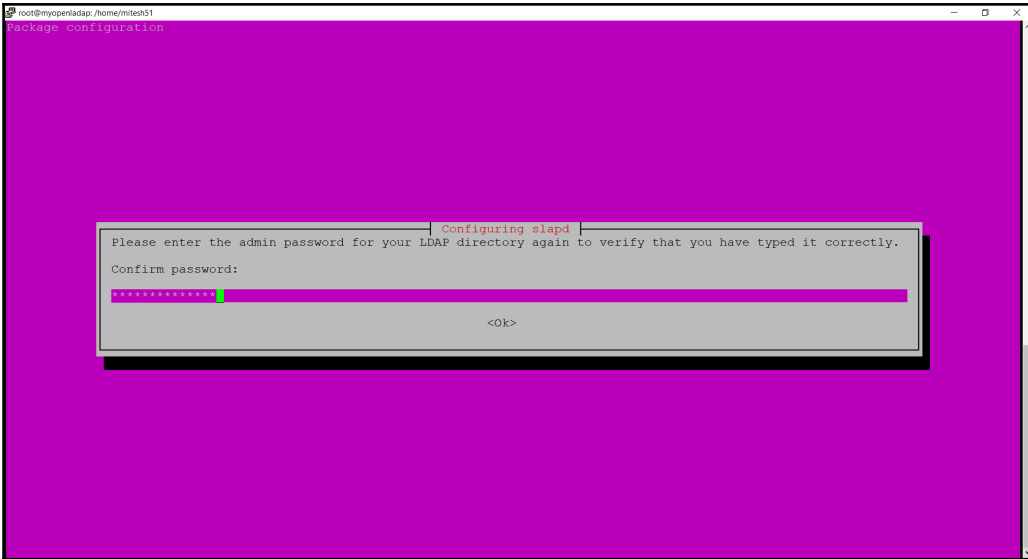
[Select](#)

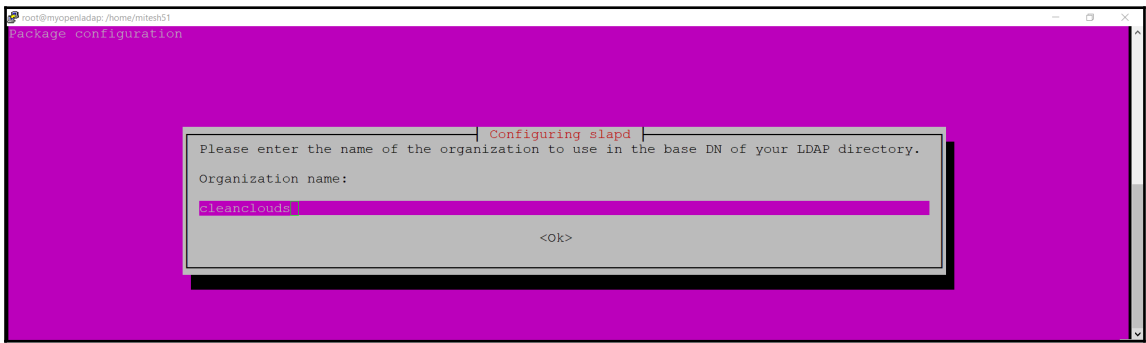
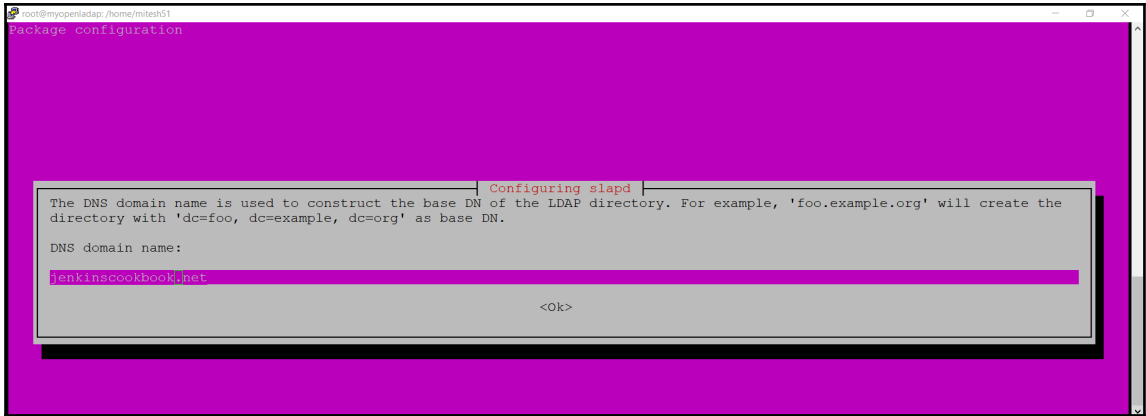


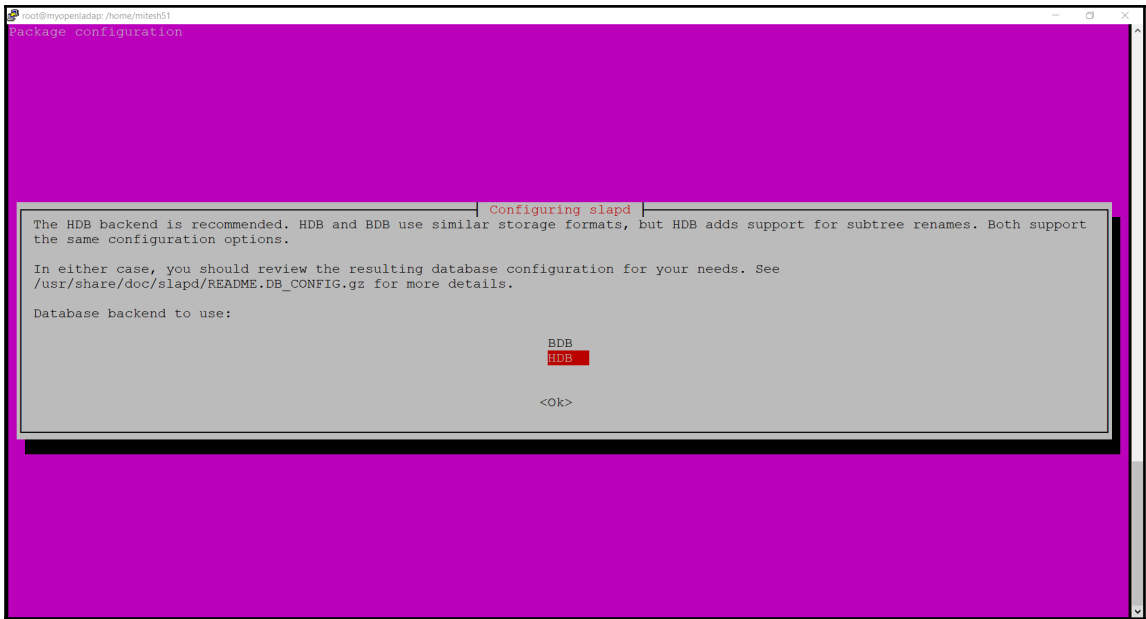


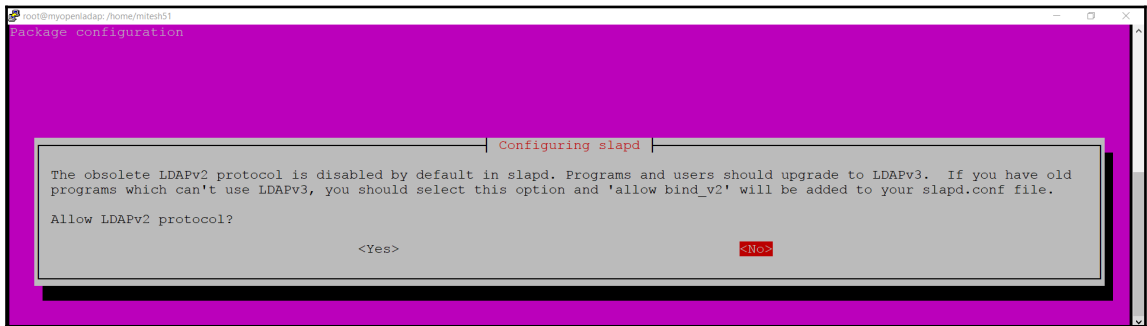
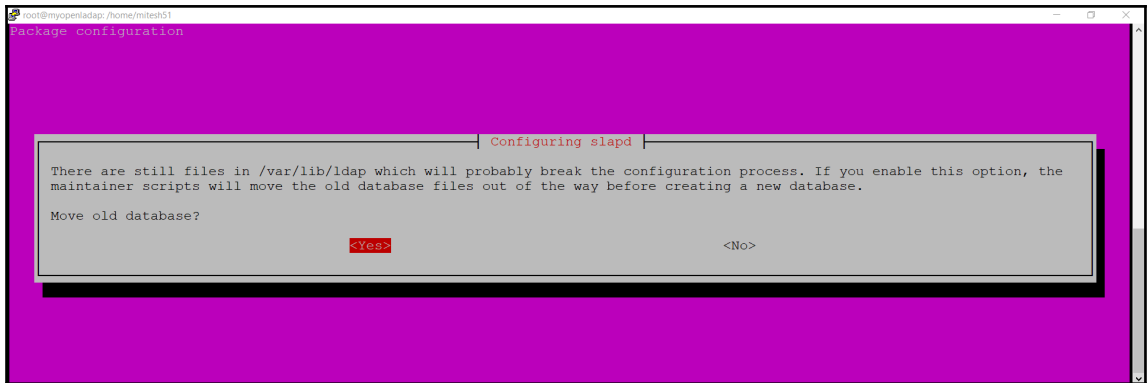












### Add inbound security rule

myopenladap-nsg

Advanced

\* Name  
HTTP ✓

\* Priority ⓘ  
1010

\* Source ⓘ  
Any CIDR block Tag

Service ⓘ  
HTTP ▼

\* Protocol  
Any TCP UDP

\* Port range ⓘ  
80

\* Action  
Deny Allow

OK

Microsoft Azure myopenldap-nsg - Inbound security rules

myopenldap-nsg - Inbound security rules

Network security group

Search (Ctrl+F)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Automation script

MONITORING

Default rules

Search inbound security rules

PRIORITY	NAME	SOURCE	DESTINATION	SERVICE	ACTION
1000	default-allow-ssh	Any	Any	SSH (TCP/22)	Allow
1010	HTTP	Any	Any	HTTP (TCP/80)	Allow
1020	Ping	Any	Any	ICMP (TCP/143)	Allow
2000	LDAP	Any	Any	LDAP (TCP/389)	Allow
65000	AllowVnetInBound	VirtualNetwork	VirtualNetwork	Custom (Any/Any)	Allow
65001	AllowAzureLoadBalancerInBound	AzureLoadBalancer	Any	Custom (Any/Any)	Allow
65500	DenyAllInBound	Any	Any	Custom (Any/Any)	Deny

52.172.200.249/phpldpadmin/

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

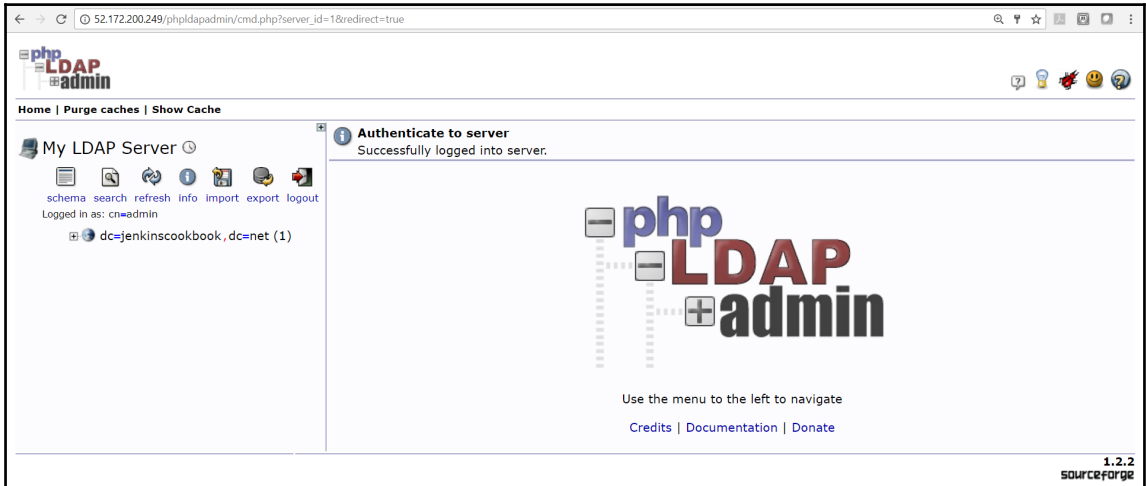
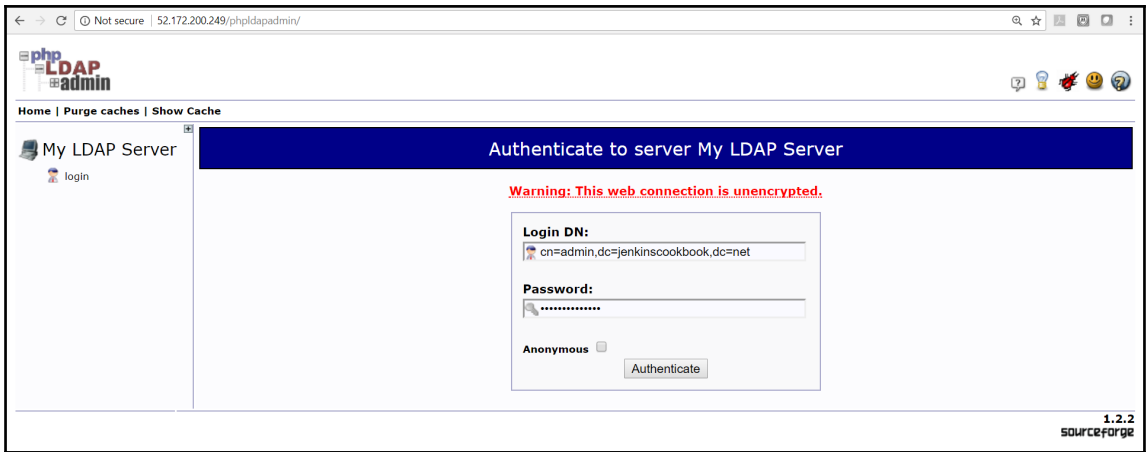
login

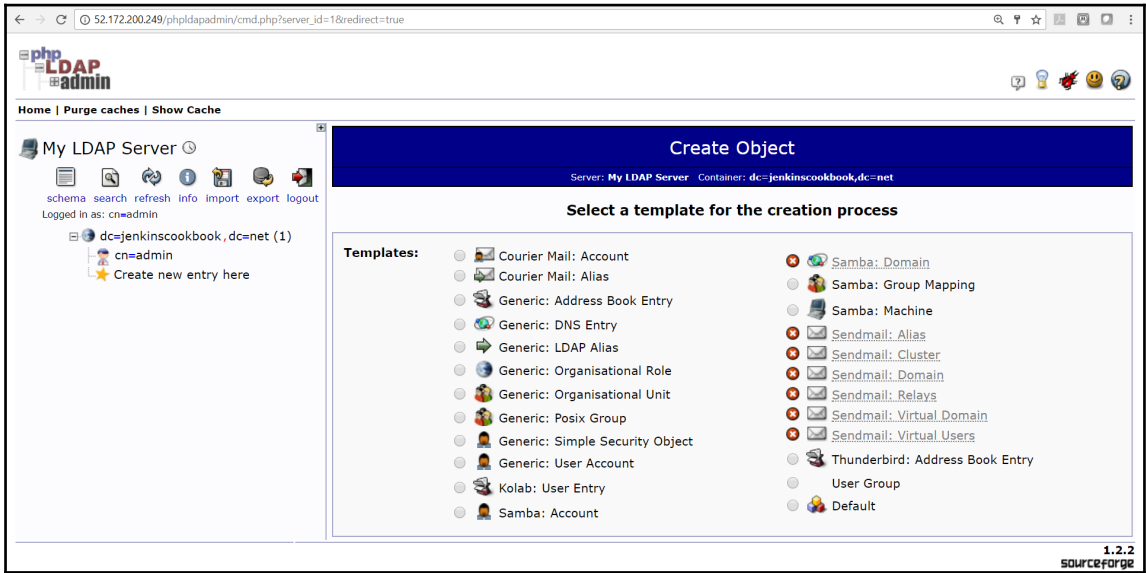
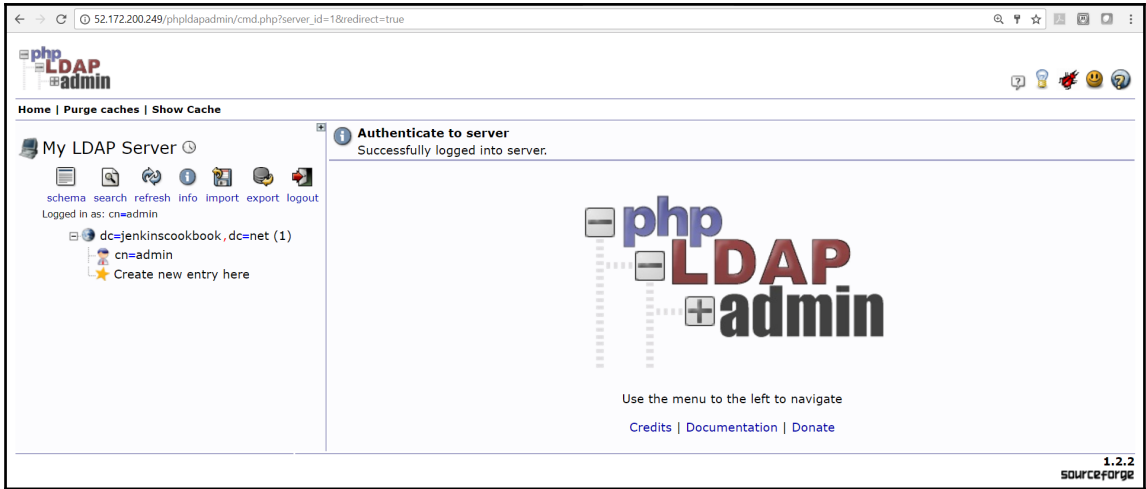
phpLDAPadmin

Use the menu to the left to navigate

[Credits](#) | [Documentation](#) | [Donate](#)

1.2.2  
SOURCEFORGE







phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (1)
  - cn=admin
  - Create new entry here

## Create Object

Server: My LDAP Server Container: dc=jenkinscookbook,dc=net  
Template: Generic: Organisational Unit (ou)

### New Organisational Unit (Step 1 of 1)

Organisational Unit alias, required, rdn, hint

groups \*

Create Object

1.2.2 SOURCEFORGE

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (1)
  - cn=admin
  - Create new entry here

## Create LDAP Entry

Server: My LDAP Server Container: dc=jenkinscookbook,dc=net

Do you want to create this entry?

Attribute	New Value	Skip
ou=groups,dc=jenkinscookbook,dc=net		
objectClass	organizationalUnit	<input type="checkbox"/>
Organisational Unit	groups	<input type="checkbox"/>

Commit Cancel

1.2.2 SOURCEFORGE

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (2)
  - cn=admin
  - ou=groups
  - Create new entry here

## Create Entry

Creation successful! DN: ou=groups,dc=jenkinscookbook,dc=net has been created.

### ou=groups

Server: My LDAP Server Distinguished Name: ou=groups,dc=jenkinscookbook,dc=net  
Template: Default

- Refresh
- Switch Template
- Copy or move this entry
- Rename
- Create a child entry
- Show internal attributes
- Export
- Delete this entry
- Compare with another entry
- Add new attribute

Hint: To delete an attribute, empty the text field and click save.  
Hint: To view the schema for an attribute, click the attribute name.

**objectClass** required

- organizationalUnit (structural)
- top

(add value)

**ou** required, rdn

- groups \*

(add value) (rename)

Update Object

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout

Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (2)
  - cn=admin
  - ou=groups
  - Create new entry here

## Create Object

Server: My LDAP Server Container: dc=jenkinscookbook,dc=net  
Template: Generic: Organisational Unit (ou)

### New Organisational Unit (Step 1 of 1)

Organisational Unit alias, required, rdn, hint

users \*

Create Object

1.2.2  
SOURCEFORGE

My LDAP Server

schema search refresh info import export logout

Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups
  - ou=users
  - Create new entry here

## Create Entry

Creation successful! DN: ou=users,dc=jenkinscookbook,dc=net has been created.

### OU = users

Server: My LDAP Server Distinguished Name: ou=users,dc=jenkinscookbook,dc=net  
Template: Default

- Refresh
- Switch Template
- Copy or move this entry
- Rename
- Create a child entry
- Hint: To delete an attribute, empty the text field and click save.
- Hint: To view the schema for an attribute, click the attribute name.
- Show internal attributes
- Export
- Delete this entry
- Compare with another entry
- Add new attribute

**objectClass** required

- organizationalUnit (structural)
- top  (add value)

**ou** required, rdn

- users  \*
- (add value)
- (rename)

Update Object

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups
  - ou=users
  - Create new entry here

Refresh

Switch Template

Copy or move this entry

Rename

Create a child entry

Show internal attributes

Export

Delete this entry

Compare with another entry

Add new attribute

Hint: To delete [Create a child entry] empty the text field and click save.

Hint: To view the schema for an attribute, click the attribute name.

objectClass required

- organizationalUnit (structural)
- top (add value)

ou required; rdn

- groups (add value) (rename)

52.172.200.240/phpLDAPadmin/cmd.php?cmd=template\_engine&server\_id=1&container=ou%3Dgroups%2Cdc%3Djenkinscookbook%2Cdc%3Dnet

## Create Object

Server: My LDAP Server Container: ou=groups,dc=jenkinscookbook,dc=net

### Select a template for the creation process

**Templates:**

- Courier Mail: Account
- Courier Mail: Alias
- Generic: Address Book Entry
- Generic: DNS Entry
- Generic: LDAP Alias
- Generic: Organisational Role
- Generic: Organisational Unit
- Generic: Posix Group
- Generic: Simple Security Object
- Generic: User Account
- Kolab: User Entry
- Samba: Account
- Samba: Domain
- Samba: Group Mapping
- Samba: Machine
- Sendmail: Alias
- Sendmail: Cluster
- Sendmail: Domain
- Sendmail: Relays
- Sendmail: Virtual Domain
- Sendmail: Virtual Users
- Thunderbird: Address Book Entry
- User Group
- Default

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (2)
  - cn=admin
  - ou=groups
    - Create new entry here

### Create Object

Server: My LDAP Server Container: ou=groups,dc=jenkinscookbook,dc=net  
Template: Generic: Posix Group (posixGroup)

#### New Posix Group (Step 1 of 1)

**GID Number** alias, required, hint, rd  
500

**Group** alias, required, rdn  
jenkinsadmin \*

**Users** alias, hint

Create Object

1.2.2  
SOURCEFORGE

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups
    - ou=users
    - Create new entry here

### Create LDAP Entry

Server: My LDAP Server Container: ou=groups,dc=jenkinscookbook,dc=net

Do you want to create this entry?

Attribute	New Value	Skip
cn=jenkinsadmin,ou=groups,dc=jenkinscookbook,dc=net		
GID Number	500	<input type="checkbox"/>
Group	jenkinsadmin	<input type="checkbox"/>
objectClass	posixGroup	<input type="checkbox"/>

Commit Cancel

1.2.2  
SOURCEFORGE

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (1)
    - cn=jenkinsadmin
    - ou=users
    - Create new entry here

### Create Object

Server: My LDAP Server Container: ou=groups,dc=jenkinscookbook,dc=net  
Template: Generic: Posix Group (posixGroup)

#### New Posix Group (Step 1 of 1)

**GID Number** alias, required, hint, rd  
501

**Group** alias, required, rd  
jenkinsusers \*

**Users** alias, hint

Create Object

1.2.2  
sourceforge

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
    - cn=jenkinsadmin
    - cn=jenkinsusers
    - ou=users
    - Create new entry here

### Search Results

Server: My LDAP Server  
Query: Default

ou=groups,dc=jenkinscookbook,dc=net

Entries found: 2  
(0.01 seconds)

[ export results ] [ Format: list table ]  
Base DN: ou=groups,dc=jenkinscookbook,dc=net  
Filter performed: objectClass=\*

	<b>cn=jenkinsadmin</b>
dn	cn=jenkinsadmin,ou=groups,dc=jenkinscookbook,dc=net
cn	jenkinsadmin
gidNumber	500
objectClass	posixGroup top
	<b>cn=jenkinsusers</b>
dn	cn=jenkinsusers,ou=groups,dc=jenkinscookbook,dc=net
cn	jenkinsusers
gidNumber	501
objectClass	posixGroup top

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
    - cn=jenkinsadmin
    - cn=jenkinsusers
  - ou=users
    - Create new entry here

OU=users

Server: My LDAP Server Distinguished Name: ou=users,dc=jenkinscookbook,dc=net  
Template: Default

- Refresh
- Switch Template
- Copy or move this entry
- Rename
- Create a child entry
- Show internal attributes
- Export
- Delete this entry
- Compare with another entry
- Add new attribute

Hint: To [Create a child entry](#), empty the text field and click save.  
Hint: To view the schema for an attribute, click the attribute name.

**objectClass** required

- organizationalUnit (structural)
- top  (add value)

**ou** required, rdn

- users  \*
- (add value)

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
    - cn=jenkinsadmin
    - cn=jenkinsusers
  - ou=users
    - Create new entry here

Create Object

Server: My LDAP Server Container: ou=users,dc=jenkinscookbook,dc=net

Select a template for the creation process

**Templates:**

- Courier Mail: Account
- Courier Mail: Alias
- Generic: Address Book Entry
- Generic: DNS Entry
- Generic: LDAP Alias
- Generic: Organisational Role
- Generic: Organisational Unit
- Generic: Posix Group
- Generic: Simple Security Object
- Generic: User Account
- Kolab: User Entry
- Samba: Account
- Samba: Domain
- Samba: Group Mapping
- Samba: Machine
- Sendmail: Alias
- Sendmail: Cluster
- Sendmail: Domain
- Sendmail: Relays
- Sendmail: Virtual Domain
- Sendmail: Virtual Users
- Thunderbird: Address Book Entry
- User Group
- Default

1.2.2  
SOURCEFORGE

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout

Logged in as: cn=admin

dc=jenkinscookbook,dc=net (3)

- cn=admin
- ou=groups (2)
  - cn=jenkinsadmin
  - cn=jenkinsusers
- ou=users

Create new entry here

### Create Object

Server: My LDAP Server Container: ou=users,dc=jenkinscookbook,dc=net  
Template: Generic: User Account (posixAccount)

New User Account (Step 1 of 1)

**Common Name**

**First name**

**GID Number**

**Home directory**

**Last name**

Login shell

```

root@myopenldap:/home/miteah51
echo ' |','-\n';
echo ' 1++','-\n';
printf('          component = document.getElementById(\'new_values_%s\'+i);',$attribute->getName());
echo "\n";
# It seems that JS gets stuck in a loop if there isnt a command here? - normally this alert isnt shown.
printf('alert("It seems another element was found, PLA hasnt been configured for this situation Component: "+component.
value+" I:"+i);',$attribute->getName());
echo "\n";
echo '|','-\n';
echo '</script>';
printf("\n<!-- END: %s -->\n",__METHOD__);
}

protected function drawDefaultHelperPasswordAttribute($attribute,$i) {
    $id = 'enc';

    if ($val = $attribute->getValue($i))
        $default = get_enc_type($val);
    else
        $default = $this->getServer()->getValue('appearance','password_hash_custom');

    if (!$attribute->getPostValue())
        printf('<input type="hidden" name="post_value[%s][]" value="%s" />',$attribute->getName(),$i);

    printf('<select name="%s[%s][]" id="%s %s %s">',
        $id,htmlspecialchars($attribute->getName()),$i,
        $id,htmlspecialchars($attribute->getName()),$i);

    foreach (password_types() as $v => $display)
        printf('<option value="%s" %s>%s</option>',$v,($v == $default) ? 'selected="selected"': '',$display);

    echo '</select>';
}

protected function drawDefaultHelperSambaPasswordAttribute($attribute,$i) {
    $id = 'enc';

    if (!$attribute->getPostValue())
        printf('<input type="hidden" name="post_value[%s][]" value="%s" />',$attribute->getName(),$i);
}
-- INSERT --
2469,77-98 98%

```

**My LDAP Server**

schema search refresh info import export logout

Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
    - cn=jenkinsadmin
    - cn=jenkinsusers
    - ★ Create new entry here
  - ou=users
  - ★ Create new entry here

**Create Object**

Server: My LDAP Server    Container: ou=users,dc=jenkinscookbook,dc=net  
Template: Generic: User Account (posixAccount)

**New User Account (Step 1 of 1)**

**Common Name** alias, required, rdn  
 \*

**First name** alias

**GID Number** alias, required, hint  
 \*

**Home directory** alias, required  
 \*

**Last name** alias, required  
 \*

**Login shell** alias

**Password** alias, hint  

md5

(confirm)

Check password...

**UID Number** alias, required, hint, rs

**User ID** alias, required  
 \*

**phpLDAPadmin**

Home | Purge caches | Show Cache

**My LDAP Server**

schema search refresh info import export logout

Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)

**Create LDAP Entry**

Server: My LDAP Server    Container: ou=users,dc=jenkinscookbook,dc=net

Do you want to create this entry?

Attribute	New Value	Skip
cn=Mitesh Soni,ou=users,dc=jenkinscookbook,dc=net		
Common Name	Mitesh Soni	<input type="checkbox"/>
First name	Mitesh	<input type="checkbox"/>
GID Number	500	<input type="checkbox"/>
Home directory	/home/users/msoni	<input type="checkbox"/>
Last name	Soni	<input type="checkbox"/>
Login shell	/bin/sh	<input type="checkbox"/>
objectClass	inetOrgPerson posixAccount	<input type="checkbox"/>
Password	*****	<input type="checkbox"/>
UID Number	1000	<input type="checkbox"/>
User ID	msoni	<input type="checkbox"/>



phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
  - ou=users (1+)
    - cn=Mitesh Soni
    - Create new entry here

### Create Object

Server: My LDAP Server Container: ou=users,dc=jenkinscookbook,dc=net  
Template: Generic: User Account (posixAccount)

#### New User Account (Step 1 of 1)

**Common Name** alias, required, rdn  
Shreyu Soni \*

**First name** alias  
Shreyu

**GID Number** alias, required, hint  
jenkinsusers \*

**Home directory** alias, required  
/home/users/ssoni \*

**Last name** alias, required  
Soni \*

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
  - ou=users (1)
    - cn=Mitesh Soni
    - Create new entry here

### Create LDAP Entry

Server: My LDAP Server Container: ou=users,dc=jenkinscookbook,dc=net

Do you want to create this entry?

Attribute	New Value	Skip
cn=Shreyu Soni,ou=users,dc=jenkinscookbook,dc=net		
Common Name	Shreyu Soni	<input type="checkbox"/>
First name	Shreyu	<input type="checkbox"/>
GID Number	501	<input type="checkbox"/>
Home directory	/home/users/ssoni	<input type="checkbox"/>
Last name	Soni	<input type="checkbox"/>
Login shell	/bin/sh	<input type="checkbox"/>
objectClass	inetOrgPerson posixAccount	<input type="checkbox"/>
Password	*****	<input type="checkbox"/>
UID Number	1001	<input type="checkbox"/>
User ID	ssoni	<input type="checkbox"/>

Commit Cancel

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
    - cn=jenkinsadmin
    - cn=jenkinsusers
    - ★ Create new entry here
  - ou=users (2)
    - cn=Mitesh Soni
    - cn=Shreyu Soni
    - ★ Create new entry here

cn=jenkinsadmin

Server: My LDAP Server Distinguished Name: cn=jenkinsadmin,ou=groups,dc=jenkinscookbook,dc=net  
Template: Default

- Refresh
- Switch Template
- Copy or move this entry
- Rename
- ★ Create a child entry
- Hint: To delete an attribute, empty the text field and click save.
- Hint: To view the schema for an attribute, click the attribute name.
- Show internal attributes
- Export
- Delete this entry
- Compare with another entry
- Add new attribute

Add Attribute

memberUid

jcadmin1

cn required, rdn

jenkinsadmin \*

(add value)  
(rename)

gidNumber required

500

php LDAP admin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
    - cn=jenkinsadmin
    - cn=jenkinsusers
    - ★ Create new entry here
  - ou=users (2)
    - cn=Mitesh Soni
    - cn=Shreyu Soni
    - ★ Create new entry here

cn=jenkinsadmin

Server: My LDAP Server Distinguished Name: cn=jenkinsadmin,ou=groups,dc=jenkinscookbook,dc=net

Do you want to make these changes?

Attribute	Old Value	New Value	Skip
memberUid	[attribute doesnt exist]	jcadmin1	<input type="checkbox"/>

Update Object Cancel

1.2.2  
sourceforge

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
    - cn=jenkinsadmin
    - cn=jenkinsusers
    - Create new entry here
  - ou=users (2)
    - cn=Mitesh Soni
    - cn=Shreyu Soni
    - Create new entry here

### Modify group cn=jenkinsadmin

Server: My LDAP Server Distinguished Name: cn=jenkinsadmin,ou=groups,dc=jenkinscookbook,dc=net  
Template: Default

There are 1 members in group cn=jenkinsadmin:

Available members	Group members
ssoni msoni	jcadmin1

1.2.2 sourceforge

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh info import export logout  
Logged in as: cn=admin

- dc=jenkinscookbook, dc=net (3)
  - cn=admin
  - ou=groups (2)
    - cn=jenkinsadmin
    - cn=jenkinsusers
    - Create new entry here
  - ou=users (2)
    - cn=Mitesh Soni
    - cn=Shreyu Soni
    - Create new entry here

### Modify group cn=jenkinsadmin

Server: My LDAP Server Distinguished Name: cn=jenkinsadmin,ou=groups,dc=jenkinscookbook,dc=net  
Template: Default

There are 1 members in group cn=jenkinsadmin:

Available members	Group members
ssoni	jcadmin1 msoni

1.2.2 sourceforge

phpLDAPadmin

Home | Purge caches | Show Cache

My LDAP Server

schema search refresh Info Import export logout  
Logged in as: cn=admin

dc=jenkinscookbook, dc=net (3)

- cn=admin
- ou=groups (2)
  - cn=jenkinsadmin
  - cn=jenkinsusers
  - Create new entry here
- ou=users (2)
  - cn=Mitesh Soni
  - cn=Shreyu Soni
  - Create new entry here

cn=jenkinsadmin

Server: My LDAP Server Distinguished Name: cn=jenkinsadmin,ou=groups,dc=jenkinscookbook,dc=net

Do you want to make these changes?

Attribute	Old Value	New Value	Skip
memberUid	jcadmin1	jcadmin1 msoni	<input type="checkbox"/>

Update Object Cancel

1.2.2  
SOURCEFORGE

Jenkins > Configure Global Security

52.172.200.249 ?

Test LDAP settings

dc=jenkinscookbook,dc=net ?

Allow blank rootDN

ou=users ?

uid={0} ?

Case sensitivity...

ou=groups ?

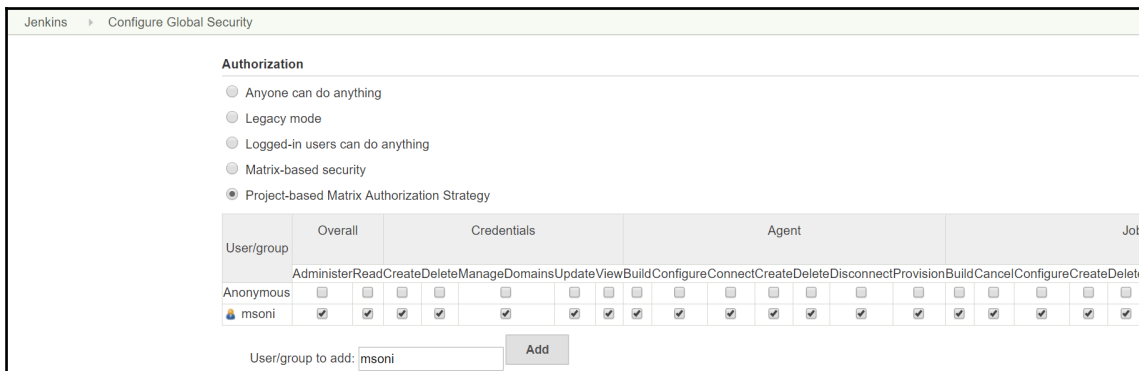
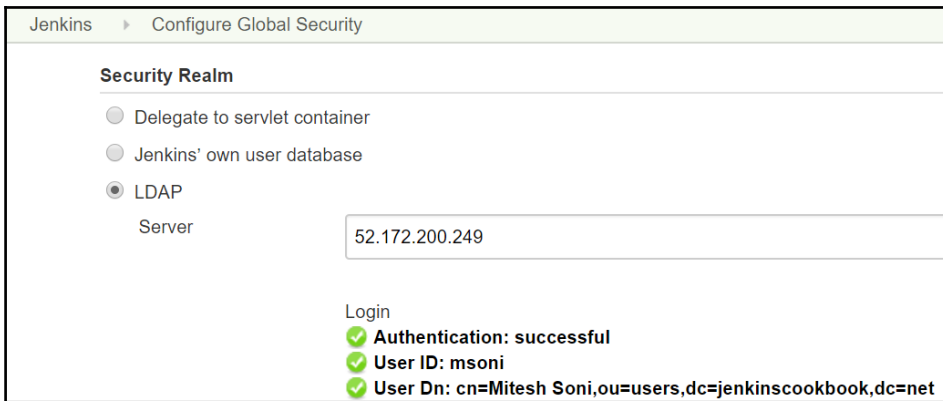
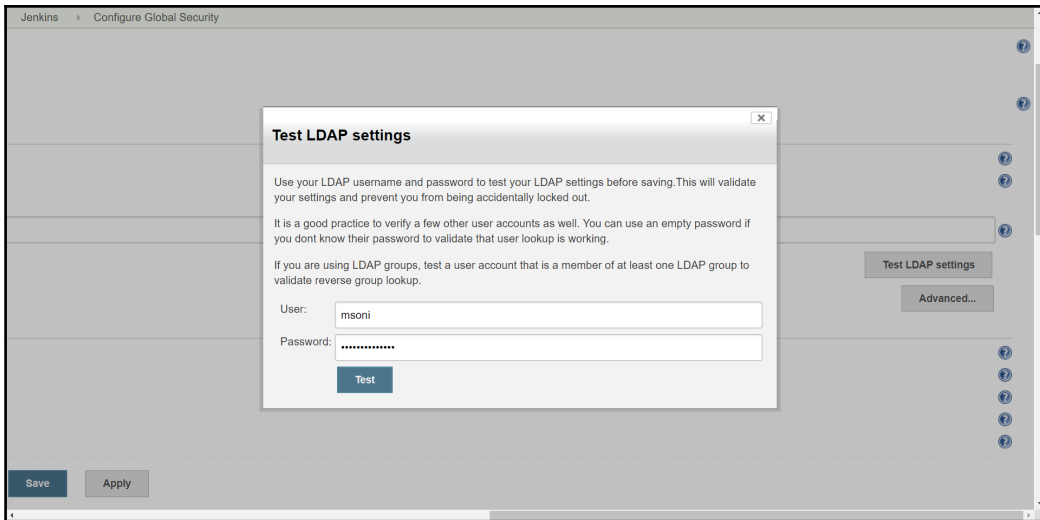
?

Parse user attribute for list of LDAP groups

Search for LDAP groups containing user

Group membership filter

?



**Jenkins** Open Blue Ocean 2  msoni | [log out](#)

Jenkins DISABLE AUTO REFRESH [add description](#)

- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Disk Usage
- Credentials

**Build Queue** —

No builds in the queue.

**Build Executor Status** —

1 Idle  
2 Idle

S	W	Name ↓	Last Success	Last Failure	Last Duration	Fav
		<a href="#">FirstAndroidProject</a>	N/A	N/A	N/A	
		<a href="#">FirstAntExample</a>	1 day 9 hr - <a href="#">#5</a>	16 days - <a href="#">#3</a>	31 sec	
		<a href="#">FirstJob</a>	11 hr - <a href="#">#30</a>	N/A	38 sec	
		<a href="#">FirstPipeline</a>	2 mo 9 days - <a href="#">#20</a>	2 mo 9 days - <a href="#">#19</a>	8 min 19 sec	
		<a href="#">Main-PetClinic</a>	2 mo 23 days - <a href="#">#1</a>	N/A	30 min	
		<a href="#">Maven-Sample</a>	2 mo 23 days - <a href="#">#1</a>	N/A	59 sec	
		<a href="#">mitesh51</a>	2 days 22 hr - <a href="#">log</a>	N/A	1 min 1 sec	
		<a href="#">PetClinic-Code</a>	2 mo 9 days - <a href="#">#21</a>	10 days - <a href="#">#40</a>	2 min 50 sec	
		<a href="#">PetClinic-Deploy</a>	2 mo 9 days - <a href="#">#7</a>	2 mo 9 days - <a href="#">#4</a>	3 min 19 sec	
		<a href="#">PetClinic-FuncTest</a>	2 mo 9 days - <a href="#">#5</a>	N/A	37 sec	
		<a href="#">PetClinic-LoadTest</a>	2 mo 9 days - <a href="#">#4</a>	N/A	1 min 0 sec	
		<a href="#">PetClinic-Package</a>	1 day 9 hr - <a href="#">#7</a>	N/A	4 min 37 sec	

**Authorization**

- Anyone can do anything
- Legacy mode
- Logged-in users can do anything
- Matrix-based security
- Project-based Matrix Authorization Strategy

User/group	Overall	Credentials				Agent						Job												
	Administer	Read	Create	Delete	Manage	Domains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provision	Build	Cancel	Configure	Create	Delete	Discover	Move	Read	Workspace
msoni	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ssoni	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Jenkins Open Blue Ocean  [ssoni](#) | [log out](#) ENABLE AUTO REFRESH

Jenkins People Build History Project Relationship Check File Fingerprint My Views Disk Usage

**Build Queue** —  
No builds in the queue.

**Build Executor Status** —  
1 Idle  
2 Idle

S	W	Name ↓	Last Success	Last Failure	Last Duration	Fav
		<a href="#">FirstAndroidProject</a>	N/A	N/A	N/A	
		<a href="#">FirstAntExample</a>	1 day 9 hr - <a href="#">#5</a>	16 days - <a href="#">#3</a>	31 sec	
		<a href="#">FirstJob</a>	11 hr - <a href="#">#30</a>	N/A	38 sec	
		<a href="#">FirstPipeline</a>	2 mo 9 days - <a href="#">#20</a>	2 mo 9 days - <a href="#">#19</a>	8 min 19 sec	
		<a href="#">Main-PetClinic</a>	2 mo 23 days - <a href="#">#1</a>	N/A	30 min	
		<a href="#">Maven-Sample</a>	2 mo 23 days - <a href="#">#1</a>	N/A	59 sec	
		<a href="#">mitesh51</a>	2 days 22 hr - <a href="#">log</a>	N/A	1 min 1 sec	
		<a href="#">PetClinic-Code</a>	2 mo 9 days - <a href="#">#21</a>	10 days - <a href="#">#40</a>	2 min 50 sec	
		<a href="#">PetClinic-Deploy</a>	2 mo 9 days - <a href="#">#7</a>	2 mo 9 days - <a href="#">#4</a>	3 min 19 sec	
		<a href="#">PetClinic-FuncTest</a>	2 mo 9 days - <a href="#">#5</a>	N/A	37 sec	
		<a href="#">PetClinic-LoadTest</a>	2 mo 9 days - <a href="#">#4</a>	N/A	1 min 0 sec	
		<a href="#">PetClinic-Package</a>	1 day 9 hr - <a href="#">#7</a>	N/A	4 min 37 sec	

Jenkins Open Blue Ocean  [ssoni](#) | [log out](#) ENABLE AUTO REFRESH

Jenkins FirstAndroidProject

[Back to Dashboard](#) [Status](#) [Changes](#) [Favorite](#)

**Build History** trend —  
 x  
[RSS for all](#) [RSS for failures](#)

## Project FirstAndroidProject

[Recent Changes](#)

### Permalinks

Page generated: Aug 12, 2017 8:11:02 PM IST [REST API](#) [Jenkins ver. 2.61](#)

Filter:

Updates **Available** Installed Advanced

Install ↓	Name	Version
<input checked="" type="checkbox"/>	<a href="#">Active Directory plugin</a> Enables authentication through Active Directory	2.6

Update information obtained: 35 min ago

## Configure Global Security

Enable security

Disable remember me

Access Control

**Security Realm**

Active Directory

Specify custom Active Directory domain name

## Configure Global Security

Enable security

Disable remember me

Access Control

**Security Realm**

Active Directory

Specify custom Active Directory domain name

Domains

Domain Name

Domain controller

Site

Bind DN

Bind Password



> New Volume (F:) > 1.DevOps2016 > #JenkinsEssentials > FirstDraft > jenkinsHome > workspace > ZapTest >

Name	Date modified	Type	Size
logs	27-07-2017 10:02	File folder	
reports	27-07-2017 10:02	File folder	
TestZ.session	27-07-2017 10:01	SESSION File	1 KB
TestZ.session.data	27-07-2017 10:02	DATA File	8,192 KB
TestZ.session.properties	27-07-2017 10:02	PROPERTIES File	1 KB
TestZ.session.script	27-07-2017 10:02	SCRIPT File	7 KB

localhost:8080/configure

Jenkins > configuration

**Global properties**

Environment variables

List of variables

Name: ZAPROXY\_HOME

Value: C:\Program Files\OWASP\Zed Attack Proxy

Delete

Add

Prepare jobs environment

Tool Locations

Jenkins > ZapTest >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

Execute ZAP

**Admin Configurations**

Workspace: F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\ZapTest

Override Host: localhost

Default Host is : localhost (Configured under Manage Jenkins > Configure System)

Override Port: 8090

Default Port is : 8090 (Configured under Manage Jenkins > Configure System)

**Startup**

Run as Pre-Build Step

Java

Save Apply

JDK 8

Jenkins > ZapTest >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

### Startup

Run as Pre-Build Step ?

### Java

JDK  ?

### Installation Method

Custom Tools Installation  
 System Installed: ZAP Installation Directory

Environment Variable  ?

### Run Configurations

Jenkins > ZapTest >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

### ZAP Home Directory

Path  ?

### Session Management

Load Session  
 Persist Session

Filename  ?

Remove External Sites ?

### Session Properties

Context Name  ?

Include in Context  ?

Jenkins > ZapTest >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

### Attack Mode

Starting Point  ?

Spider Scan ?

- Recurse ?
- Subtree Only ?
- Max Children to Crawl  ?

AJAX Spider ?

- In Scope Only ?

Active Scan ?

- Policy  ?
- Recurse ?

### Finalize Run

?

Jenkins > ZapTest >

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

### Finalize Run

Generate Reports ?

-----

- Clean Workspace Reports ?
- Filename  ?
- Generate Report ?
- Format    
  ?

**HTTP ERROR 404**

Problem accessing /job/ZapTest/null. Reason:  
Not Found

[Powered by Jetty:// 9.4.z-SNAPSHOT](#)

Export Report

-----

?

Create JIRA Issues - SEE WARNING ?

Jenkins > ZapTest >

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

### Post-build Actions

**Publish HTML reports**
X
?

Reports X

HTML directory to archive	<input type="text" value="reports"/>	?
Index page[s]	<input type="text" value="*.html"/>	?
Index page title[s] (Optional)	<input type="text"/>	?
Report title	<input type="text" value="HTML Report"/>	?

[Publishing options...](#)

[Add](#)

[Add post-build action](#) ▼

Save
Apply

### ZAP Scanning Report

#### Summary of Alerts

Risk Level	Number of Alerts
<a href="#">High</a>	1
<a href="#">Medium</a>	1
<a href="#">Low</a>	2
<a href="#">Informational</a>	0

#### Alert Detail

High (Medium)	SQL Injection
Description	
SQL injection may be possible.	
URL	http://localhost:9999/petclinic/oups.html;jsessionid=E47011BD0E9AC2E848D2F180797D2E7E?query=query%22+AND+%221%22%3D%221
Method	GET
Parameter	query
Attack	query" AND "1"="1
URL	http://localhost:9999/petclinic/oups.html;jsessionid=E47011BD0E9AC2E848D2F180797D2E7E?query=query+AND+1%3D1+--+
Method	GET
Parameter	query
Attack	query AND 1=1 --
URL	http://localhost:9999/petclinic/;jsessionid=E47011BD0E9AC2E848D2F180797D2E7E?query=query+AND+1%3D1+--+
Method	GET

# Chapter 04: Improving Code Quality

Name	Date modified	Type	Size
lib	01-08-2017 08:31	File folder	
InstallNTService.bat	11-04-2017 13:55	Windows Batch File	2 KB
StartNTService.bat	11-04-2017 13:55	Windows Batch File	2 KB
StartSonar.bat	11-04-2017 13:55	Windows Batch File	2 KB
StopNTService.bat	11-04-2017 13:55	Windows Batch File	2 KB
UninstallNTService.bat	11-04-2017 13:55	Windows Batch File	2 KB
wrapper.exe	11-04-2017 13:39	Application	216 KB

```

F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\bin\windows-x86-64>StartSonar.bat
wrapper --> Wrapper Started as Console
wrapper Launching a JVM...
jvm 1 Wrapper (Version 3.2.3) http://wrapper.tanukisoftware.org
jvm 1 Copyright 1999-2006 Tanuki Software, Inc. All Rights Reserved.
jvm 1
jvm 1 | 2017.08.01 08:35:31 INFO app[][o.s.a.AppFileSystem] Cleaning or creating temp directory F:\#A.Books\#JenkinsCookBook\sonarq
ube-6.3.1\temp
jvm 1 | 2017.08.01 08:35:33 INFO app[][o.s.p.m.JavaProcessLauncher] Launch process[es]: C:\Program Files\Java\jre1.8.0_111\bin\java
-Djava.awt.headless=true -Xmx1G -Xms256m -Xss256k -Djna.nosys=true -XX:+UseParNewGC -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancy
Fraction=75 -XX:+UseCMSInitiatingOccupancyOnly -XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=F:\#A.Books\#JenkinsCookBook\sonarqube-
6.3.1\temp -javaagent:C:\Program Files\Java\jre1.8.0_111\lib\management-agent.jar -cp ./lib/common/*;./lib/search/* org.sonar.search.Se
archServer F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\temp\sq-process2517221991847779607properties
jvm 1 | 2017.08.01 08:36:48 INFO app[][o.s.p.m.Monitor] Process[es] is up
jvm 1 | 2017.08.01 08:36:48 INFO app[][o.s.p.m.JavaProcessLauncher] Launch process[web]: C:\Program Files\Java\jre1.8.0_111\bin\jav
a -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=F:\#A.Books\#Jenkin
sCookBook\sonarqube-6.3.1\temp -javaagent:C:\Program Files\Java\jre1.8.0_111\lib\management-agent.jar -cp ./lib/common/*;./lib/server/*
;F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\lib\jdbc\h2\h2-1.3.176.jar org.sonar.server.app.WebServer F:\#A.Books\#JenkinsCookBook\so
narqube-6.3.1\temp\sq-process5028793299341722258properties
jvm 1 | 2017.08.01 08:37:34 INFO app[][o.s.p.m.Monitor] Process[web] is up
jvm 1 | 2017.08.01 08:37:34 INFO app[][o.s.p.m.JavaProcessLauncher] Launch process[ce]: C:\Program Files\Java\jre1.8.0_111\bin\java
-Djava.awt.headless=true -Dfile.encoding=UTF-8 -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=F:\#A.Books\#Jenkins
CookBook\sonarqube-6.3.1\temp -javaagent:C:\Program Files\Java\jre1.8.0_111\lib\management-agent.jar -cp ./lib/common/*;./lib/server/*;
./lib/ce/*;F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\lib\jdbc\h2\h2-1.3.176.jar org.sonar.ce.app.CeServer F:\#A.Books\#JenkinsCookBo
ok\sonarqube-6.3.1\temp\sq-process7639749035419204337properties
jvm 1 | 2017.08.01 08:37:51 INFO app[][o.s.p.m.Monitor] Process[ce] is up
jvm 1 | 2017.08.01 08:37:51 INFO app[][o.s.application.App] SonarQube is up
```

		Updates	Available	Installed	Advanced		
Enabled	Name ↓	Version	Previously installed version	Uninstall			
<input checked="" type="checkbox"/>	<a href="#">jQuery plugin</a> This allows other plugins to use jQuery in UI.	<a href="#">1.11.2-0</a>		Uninstall			
<input checked="" type="checkbox"/>	<a href="#">Maven Integration plugin</a> This plug-in provides, for better and for worse, a deep integration of Jenkins and Maven: Automatic triggers between projects depending on SNAPSHOTS, automated configuration of various Jenkins publishers (Junit, ...).	<a href="#">2.15.1</a>		Uninstall			
<input checked="" type="checkbox"/>	<a href="#">Pipeline: Groovy</a> Pipeline execution engine based on continuation passing style transformation of Groovy scripts.	<a href="#">2.34</a>	Downgrade to 2.30	Uninstall			
<input checked="" type="checkbox"/>	<a href="#">Sonar Quality Gates Plugin</a> Fails the build whenever the Quality Gates criteria in the Sonar 5.6+ analysis aren't met (the project Quality Gates status is different than "Passed")	<a href="#">1.0.4</a>		Uninstall			
<input checked="" type="checkbox"/>	<a href="#">SonarQube Scanner for Jenkins</a> This plugin allows an easy integration of <a href="#">SonarQube</a> , the open source platform for Continuous Inspection of code quality.	<a href="#">2.6.1</a>		Uninstall			

sonarqube
Projects Issues Rules Quality Profiles Quality Gates
Log in

## Continuous Code Quality

Log in
Read documentation

# 2

Projects Analyzed

**66** 🐛 Bugs

**0** 🛡️ Vulnerabilities

**70** 🐛 Code Smells

---

Multi-Language

20+ programming languages are supported by SonarQube thanks to our in-house code analyzers, including:

Java	C/C++	C#	COBOL	ABAP	HTML	RPG	JavaScript	Objective C	XML
VB.NET	PL/SQL	Flex	Python	Groovy	PHP	Swift	Visual Basic	PL/I	

### Quality Model

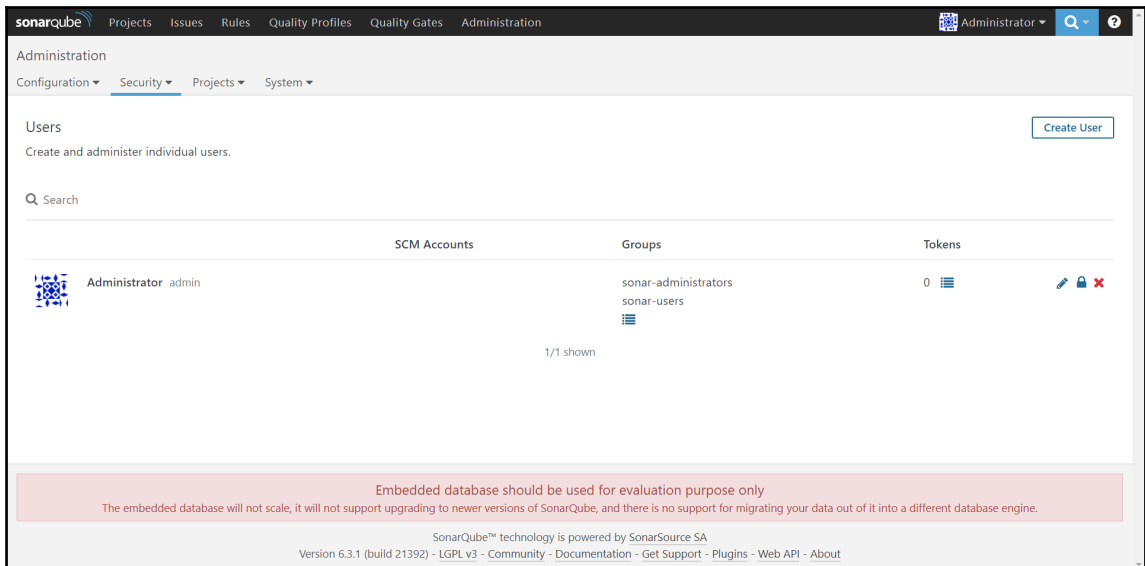
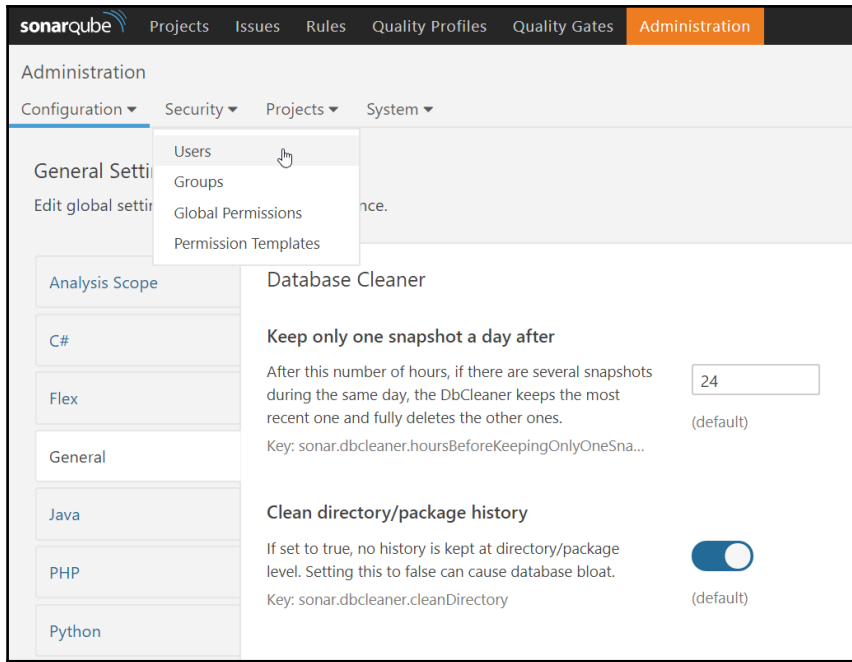
🐛 **Bugs** track code that is demonstrably wrong or highly likely to yield unexpected behavior.

🛡️ **Vulnerabilities** are raised on code that is potentially vulnerable to exploitation by hackers.

🐛 **Code Smells** will confuse maintainers or give them pause. They are measured primarily in terms of the time they will take to fix.

### Log In to SonarQube

Log in
Cancel



SCM Accounts      Groups      Tokens

Administrator admin      sonar-administrators      0      Update Tokens

sonar-users

sonarqube Administration

Administration

Configuration Security Projects System

Users

Create and administer individual users.

Search

Administrator admin

Tokens

Name	Created
No tokens	

Generate Tokens

JenkinsCookBook

Done

1/1 shown

Embedded database should be used for evaluation purpose only  
The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

SonarQube™ technology is powered by SonarSource SA  
Version 6.3.1 (build 21392) - LGPL v3 - Community - Documentation - Get Support - Plugins - Web API - About

Tokens

Name	Created	
JenkinsCookBook	August 1, 2017	<input type="button" value="Revoke"/>

Generate Tokens





Enter Token Name

New token "JenkinsCookBook" has been created. Make sure you copy it now, you won't be able to see it again!

ebddac5a396b4c25b3e5209dee32fe20aaacb23c

Done



	SCM Accounts	Groups	Tokens	
	Administrator admin	sonar-administrators sonar-users	1	  

### SonarQube servers

Environment variables  Enable injection of SonarQube server configuration as build environment variables

If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

SonarQube installations

Name

Server URL

Server version

Server authentication token

SonarQube account login

SonarQube account password

**SonarQube Scanner**

SonarQube Scanner installations

SonarQube Scanner

Name

Install automatically ?

**Install from Maven Central**

Version

**Delete Installer**

**Add Installer** ▾

**Delete SonarQube Scanner**

**Add SonarQube Scanner**

List of SonarQube Scanner installations on this system

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

Administration

Configuration ▾ Security ▾ Projects ▾ System ▾

**General Settings**

Edit global settings for this SonarQube instance.

Analysis Scope

C#

Flex

General

Java

PHP

Python

Scanner for MSBuild

SCM

**SCM**

**Disable the SCM Sensor**

Disable the retrieval of blame information from Source Control Manager

Key: sonar.scm.disabled **Reset** Default: False

---

**SVN**

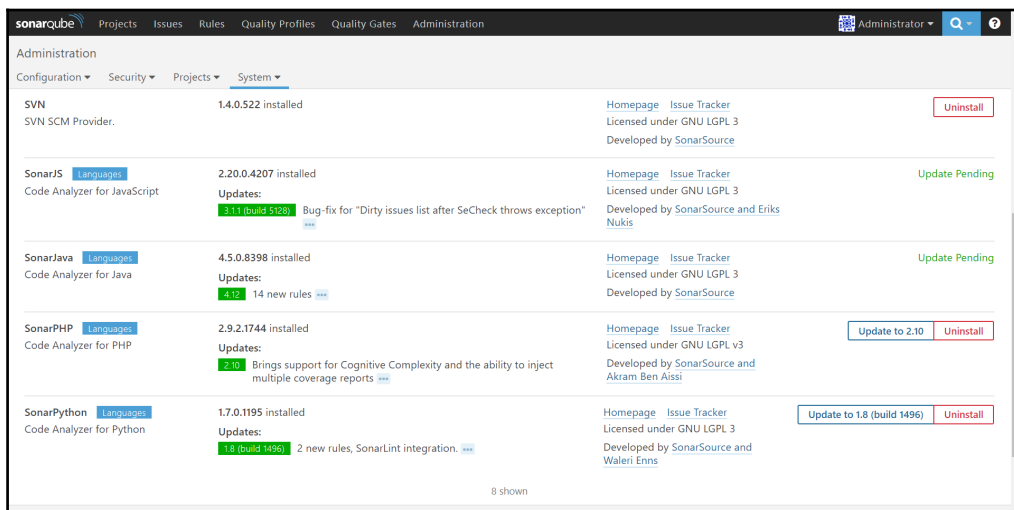
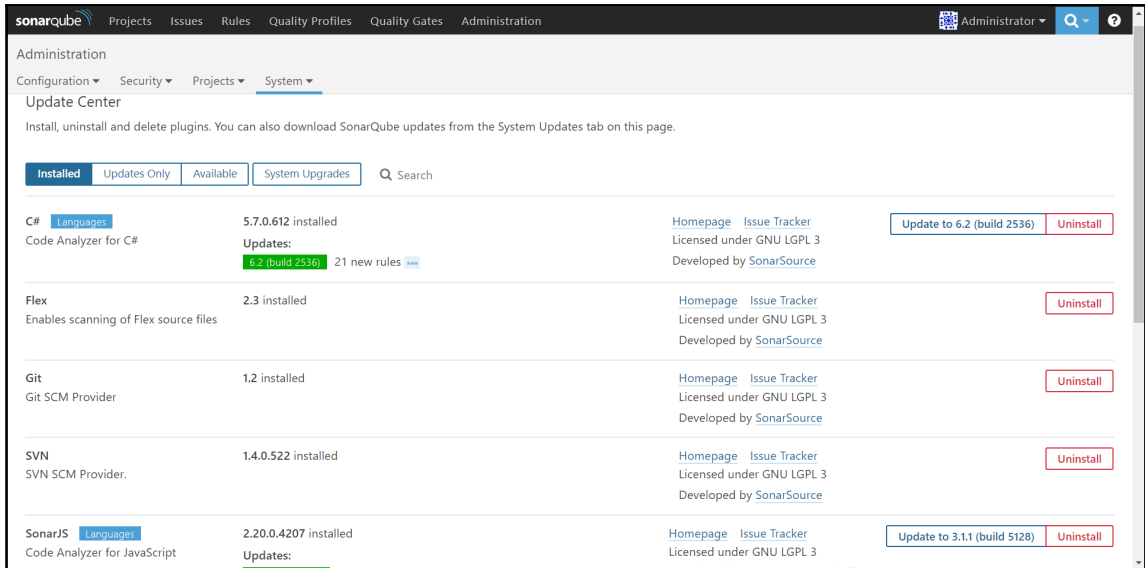
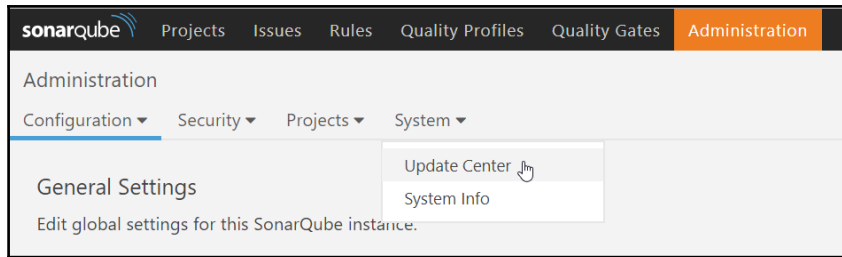
**Passphrase**

Optional passphrase of your private key file **Set**

Key: sonar.svn.passphrase.secured

**Username**

Username to be used for SVN server or SVN+SSH authentication



sonarqube Administration

Configuration Security Projects System

### Update Center

Install, uninstall and delete plugins. You can also download SonarQube updates from the System Updates tab on this page.

SonarQube needs to be restarted in order to

- update 2 plugins

Restart Revert

Installed Updates Only Available System Upgrades Search

C#	5.7.0.612 installed	Homepage Issue Tracker	Update to 6.2 (build 2536) Uninstall
Code Analyzer for C#	Updates: 6.2 (build 2536) 21 new rules	Licensed under GNU LGPL 3 Developed by SonarSource	
SonarJS	2.20.0.4207 installed	Homepage Issue Tracker	Update Pending
Code Analyzer for JavaScript	Updates: 3.11 (build 5126) Bug-fix for "Dirty issues list after SeCheck throws exception"	Licensed under GNU LGPL 3 Developed by SonarSource and Eriks Nukis	
SonarJava	4.5.0.8398 installed	Homepage Issue Tracker	Update Pending
Code Analyzer for Java	Updates: 4.12 14 new rules	Licensed under GNU LGPL 3 Developed by SonarSource	

sonarqube Administration

Configuration Security Projects System

Installed Updates Only Available System Upgrades Search

ABAP	3.3 New rules, compatibility with SQ 5.6 and bug fixes	Homepage Issue Tracker	I accept the Terms and Conditions	Install
Code Analyzer for ABAP		Licensed under Commercial Developed by SonarSource		
AEM Rules for SonarQube	0.9 Compatibility with SonarJava 4.10	Homepage Issue Tracker		Install
External Analysers	Installing this plugin will also install: SonarJava	Licensed under The Apache Soft...		
Adds rules for AEM Java development		Developed by Cognifide Limited		
Android	1.11 This plugin has been renamed "Android Lint" to prevent any misunderstanding about its purpose: an Android project can be analysed with the standard SonarQube Java plugin and this plugin just allows to import Android Lint reports if needed. This new version provides a default sqale mapping for the Android Lint rules and the ability to automatically execute lint has been dropped.	Homepage Issue Tracker		Install
Provide the ability to import Android Lint reports	Installing this plugin will also install: SonarJava	Licensed under GNU LGPL 3 Developed by SonarSource and Jerome Van Der Linden, Stephane Nicolas, Florian Roncari, Thomas Bores		
Azure Active Directory (AAD) Authentication Plug-in for SonarQube	1.0 Initial release	Homepage Issue Tracker		Install
Integration		Licensed under The Apache Soft... Developed by Visual Studio ALM Rangers		
Enables Azure Active Directory (AAD) users to automatically be sign up (a login is created if they don't have one already) and authenticated on a SonarQube server.				

Web	2.5 Upgrade to SQ 5.6 LTS and Java 8, SonarLint compliant, bug fixes	Homepage Issue Tracker		Install
Code analyzer for Web (HTML, JSP, JSF, ..)		Licensed under The Apache Soft... Developed by SonarSource and Matthijs Galesloot		

sonarqube Administration

Projects Issues Rules Quality Profiles Quality Gates Administration

Administrator

Administration

Configuration Security Projects System

### Update Center

Install, uninstall and delete plugins. You can also download SonarQube updates from the System Updates tab on this page.

SonarQube needs to be restarted in order to

- install 3 plugins
- update 2 plugins

Restart Revert

### Restart Server

Are you sure you want to restart the server?

Restart Cancel

sonarqube Administration

Projects Issues Rules Quality Profiles Quality Gates Administration

Administrator

Administration

Configuration Security Projects System

### Update Center

Install, uninstall and delete plugins. You can also download SonarQube updates from the System Updates tab on this page.

Installed Updates Only Available System Upgrades Search

<b>Android</b> Import Android Lint reports.	1.1 installed	Homepage Issue Tracker Licensed under GNU LGPL 3 Developed by SonarSource and Jerome Van Der Linden, Stephane Nicolas, Florian Roncari, Thomas Bores	Uninstall
<b>C#</b> Languages Code Analyzer for C#	5.7.0.612 installed Updates: 6.2 (build 2536) 21 new rules	Homepage Issue Tracker Licensed under GNU LGPL 3 Developed by SonarSource	Update to 6.2 (build 2536) Uninstall
<b>CSS / SCSS / Less</b> Enables analysis of CSS and Less files	3.1 installed	Homepage Issue Tracker Licensed under GNU LGPL 3 Developed by Tamas Kende and David RACODON	Uninstall
<b>Flex</b> Enables scanning of Flex source files	2.3 installed	Homepage Issue Tracker Licensed under GNU LGPL 3	Uninstall

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration Administrator

My Favorites All 0 projects

**Filters**

**Quality Gate**

- Passed 0
- Warning 0
- Failed 0

**Reliability**

- A 0
- B and worse 0
- C and worse 0
- D and worse 0
- E 0

**Security**

- A 0
- B and worse 0
- C and worse 0
- D and worse 0
- E 0

You don't have any favorite projects yet.  
Discover and mark as favorites projects you are interested in to have a quick access to them.

[Explore Projects](#)

sonarqube Projects Issues Rules Quality Profiles **Quality Gates** Administration Administrator

Quality Gates [Create](#) SonarQube way [Rename](#) [Copy](#) [Unset as Default](#) [Delete](#)

[SonarQube way](#) [Default](#)

**Conditions**  
Only project measures are checked against thresholds. Sub-projects, directories and files are ignored. [More](#)

Metric	Over Leak Period	Operator	Warning	Error		
Coverage on New Code	Always	is less than	<input type="text"/>	80	<a href="#">Update</a>	<a href="#">Delete</a>
Issues	<input type="checkbox"/>	is greater than	<input type="text"/>	10	<a href="#">Update</a>	<a href="#">Delete</a>
Maintainability Rating on New Code	Always	is worse than	<input type="text"/>	A X	<a href="#">Update</a>	<a href="#">Delete</a>
Reliability Rating on New Code	Always	is worse than	<input type="text"/>	A X	<a href="#">Update</a>	<a href="#">Delete</a>
Security Rating on New Code	Always	is worse than	<input type="text"/>	A X	<a href="#">Update</a>	<a href="#">Delete</a>

[Add Condition](#)

**Projects**  
You must not select specific projects for the default quality gate.

SonarQube Quality Profiles Administration

Profile Name	Projects	Rules	Updated	Used
<b>CSS, 1 profile(s)</b>				
SonarQube Way	Default	71	Never	Never
<b>Flex, 1 profile(s)</b>				
Sonar way	Default	60	Never	Never
<b>Java, 3 profile(s)</b>				
Android Lint	0	147	Never	Never
PetClinic	0	2 277	2 months ago	2 months ago
Sonar way	Default	2 277	Never	2 months ago
<b>JavaScript, 2 profile(s)</b>				
Sonar way	Default	1 111	Never	Never
Sonar way Recommended	0	113	Never	Never

**Recently Added Rules**

- Boolean expressions should not be gratuitous  
Java, not yet activated
- Value-based classes should not be used for l...  
Java, not yet activated
- "collect" should be used with "Streams" inste...  
Java, not yet activated
- Types should be used in lambdas  
Java, not yet activated
- Ternary operators should not be nested  
Java, not yet activated
- "java.time" classes should be used for dates a...  
Java, not yet activated
- Classes should not access their own subclass...  
Java, not yet activated
- Printf-style format strings should be used cor...  
Java, not yet activated
- Intermediate Stream methods should not be l...  
Java, not yet activated
- Consumed Stream pipelines should not be re...  
Java, not yet activated

See All 1.7k

SonarQube Rules Administration

1 / 588 rules Reload New Search Bulk Change

Search

**Language**

- Java 588
- Python 238
- C# 189
- JavaScript 187
- PHP 126
- SCSS 97
- Less 87
- CSS 86
- Flex 79
- Web 59

Search

**Type**

- Bug 102
- Vulnerability 33
- Code Smell 453

Tag

Repository

"equals()" should not be used to test the values of "Atomic" classes	Java	Bug	multi-threading
"=" should not be used instead of "+="	Java	Bug	
"==" and "!=" should not be used when "equals" is overridden	Java	Code Smell	cert, cwe, suspicious
"@Deprecated" code should not be used	Java	Code Smell	cert, cwe, obsolete
"@NonNull" values should not be set to null	Java	Bug	cert, cwe
"@Override" should be used on overriding and implementing methods	Java	Code Smell	bad-practice
"@RequestMapping" methods should be "public"	Java	Vulnerability	spring
"action" mappings should not have too many "forward" entries	Java	Code Smell	brain-overload, struts
"Arrays.stream" should be used for primitive arrays	Java	Code Smell	performance
"BigDecimal(double)" should not be used	Java	Bug	cert
"catch" clauses should do more than rethrow	Java	Code Smell	cert, clumsy, finding, unused
"clone" should not be overridden	Java	Code Smell	suspicious
"Cloneables" should implement "clone"	Java	Code Smell	api-design, convention
"collect" should be used with "Streams" instead of "list::add"	Java	Code Smell	java8

sonarcube Projects Issues **Rules** Quality Profiles Quality Gates Administration Administrator 2 / 588 rules Reload New Search Bulk Change

Return to List

**"=+" should not be used instead of "+="** squid:S2757

🐛 Bug Major No tags Available Since August 1, 2017 SonarAnalyzer (Java) Constant/issue: 2min

The use of operators pairs ( `+=`, `-=` or `!=` ) where the reversed, single operator was meant ( `+`, `-` or `!` ) will compile and run, but not produce the expected results.

This rule raises an issue when `+=`, `-=`, or `!=` is used without any spacing between the two operators and when there is at least one whitespace character after.

**Noncompliant Code Example**

```
int target = -5;
int num = 3;

target -= num; // Noncompliant; target = -3. Is that really what's meant?
target += num; // Noncompliant; target = 3
```

**Compliant Solution**

```
int target = -5;
int num = 3;

target = -num; // Compliant; intent to assign inverse value of num is clear
target += num;
```

**Rules**

Search

Language

Java	588
Python	238
C#	189
JavaScript	187
PHP	126
SCSS	97
Less	87
CSS	86
Flex	79
Web	59

Search

Type

🐛 Bug	102
🔒 Vulnerability	33
🕒 Code Smell	453

Tag

Repository

Jenkins Open Blue Ocean 2 search admin | log out

Jenkins > All >

**Enter an item name**

SonarHTMLCSSJS

*» Required field*

**Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

**Pipeline**  
Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**External Job**  
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.

**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK



Jenkins > SonarHTMLCSSJS >

General **Source Code Management** Build Triggers Build Environment Build Post-build Actions

### Source Code Management

None  
 File System  
 Git

Repositories

Repository URL  ?

Credentials  Add ?

Advanced...  
Add Repository

Branches to build

Branch Specifier (blank for 'any')  ?

Add Branch


Repository browser  ?

Save Apply Add

subversion

### Build

Add build step ▾

- Conditional step (single)
- Conditional steps (multiple)
- Copy artifacts from another project
- Execute SonarQube Scanner** 
- Execute Windows batch command
- Execute ZAP
- Execute shell
- GitHub PR: set 'pending' status
- Inject environment variables
- Invoke Ant
- Invoke Gradle script

Jenkins > SonarHTMLCSSJS >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

### Build

**Execute SonarQube Scanner** X

Task to run

JDK  ?

JDK to be used for this SonarQube analysis

Path to project properties  ?

Analysis properties  ?

Additional arguments  ?

JVM Options  ?

sonarqube **Projects** Issues Rules Quality Profiles Quality Gates Administration Administrator

My Favorites All 1 projects

**Filters**

**Quality Gate**

Passed 0 |

Warning 0 |

Failed 1 |

★ Simple HTML CSS JS project analyzed with the SonarQube Quality Gate: Failed

Reliability E

Security B

Maintainability D

Coverage 0.0%

Duplications 0.0%

Web, CSS 3k

1 of 1 shown

**Reliability**

A 0 |

B and worse 1 |

C and worse 1 |

D and worse 1 |

E 1 |

**Security**

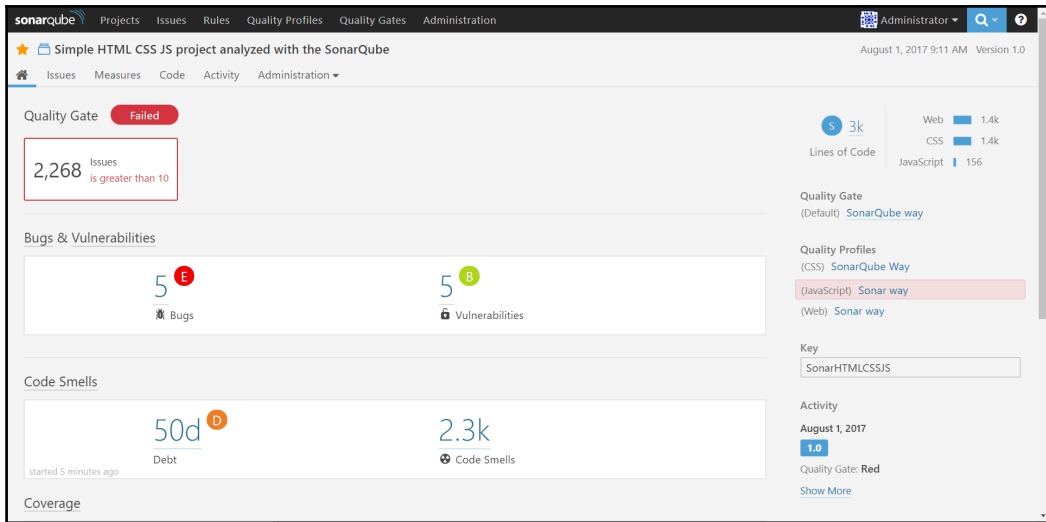
A 0 |

B and worse 1 |

C and worse 0 |

D and worse 0 |

E 0 |



Simple HTML CSS JS project analyzed with the SonarQube

	Lines of Code	Bugs	Vulnerabilities	Code Smells	Coverage	Duplications
Simple HTML CSS JS project analyzed with the SonarQube	3k	5	5	2.3k	0.0%	0.0%
docs.css	114	0	0	9		0.0%
index.html	1.4k	0	0	1		0.0%
shoelace.js	141	1	5	9	0.0%	0.0%
dist	12	2	0	1.9k		0.0%
source/css	1.3k	2	0	369		0.0%
source/js	15	0	0	0	0.0%	0.0%

6 of 6 shown

Embedded database should be used for evaluation purpose only

The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

SonarQube™ Technology is powered by SonarSource SA  
Version 6.3.1 (build 21392) - LGPL v3 - Community - Documentation - Get Support - Plugins - Web API - About

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration Administrator August 1, 2017 9:11 AM Version 1.0

★ Simple HTML CSS JS project analyzed with the SonarQube

Issues Measures Code Activity Administration

The page shows the history of project analyses. Filter...

**August 1, 2017**

9:11 AM 1.0 Quality Gate: Red Create

1 of 1 shown

Embedded database should be used for evaluation purpose only  
The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

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sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration Administrator August 1, 2017 9:11 AM Version 1.0

★ Simple HTML CSS JS project analyzed with the SonarQube

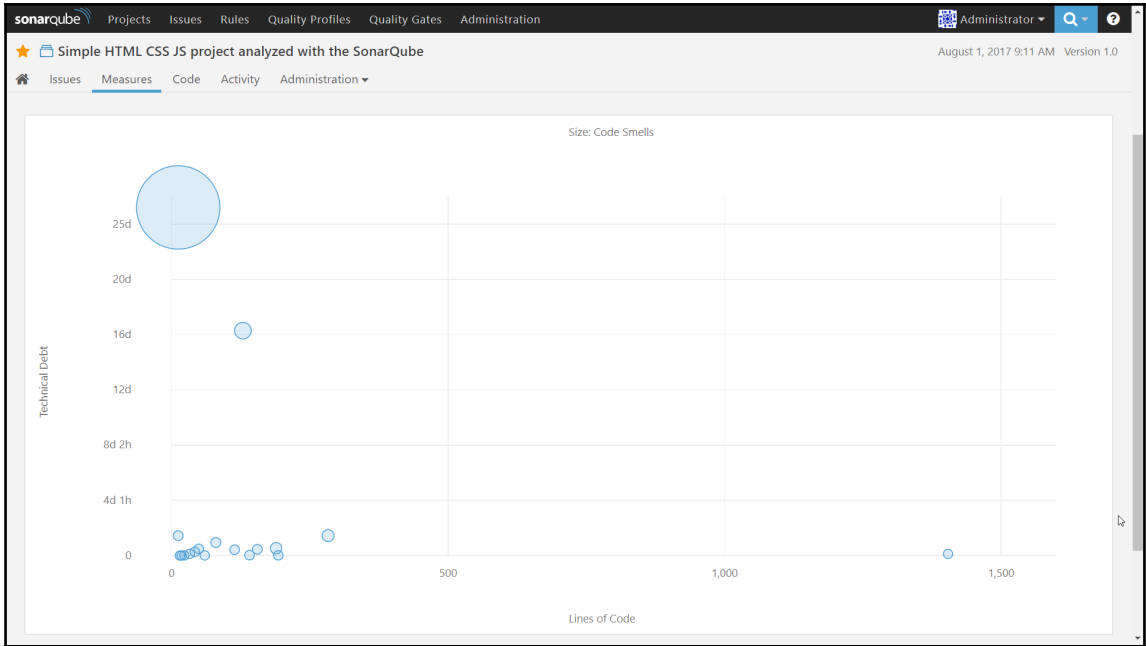
Issues Measures Code Activity Administration

All Reliability Security Maintainability Coverage Duplications Size Complexity Issues

2,258 Code Smells

Maintainability Rating D

Technical Debt	49d
Technical Debt Ratio	27.0%
Effort to Reach Maintainability Rating A	40d



Simple HTML CSS JS project analyzed with the SonarQube

August 1, 2017 9:11 AM Version 1.0

Issues Measures Code Activity Administration

Display Mode: Issues Effort

ordered by creation date 1 / 2,268 issues

Type	Count	Effort
Bug	5	
Vulnerability	5	
Code Smell	2,258	
Resolution		
Unresolved	2,268	Fixed: 0
False Positive	0	Won't fix: 0
Removed	0	

dist/shoelace.css

Issue Description	Severity	Resolution	Effort	Created	Actions
Add an empty new line at the end of this file. ...	Code Smell	Minor	1min	5 minutes ago	convention
Define this declaration on a separate line. ...	Code Smell	Minor	2min	5 minutes ago	format
Define this declaration on a separate line. ...	Code Smell	Minor	2min	5 minutes ago	format
Define this declaration on a separate line. ...	Code Smell	Minor	2min	5 minutes ago	format
Define this declaration on a separate line. ...	Code Smell	Minor	2min	5 minutes ago	format
Define this declaration on a separate line. ...	Code Smell	Minor	2min	5 minutes ago	format
Define this declaration on a separate line. ...	Code Smell	Minor	2min	5 minutes ago	format
Define this declaration on a separate line. ...	Code Smell	Minor	2min	5 minutes ago	format

sonarqube						
	Projects	Issues	Rules	Quality Profiles	Quality Gates	Administration
CSS, 1 profile(s)						
SonarQube Way	Default		71	Never	a day ago	▼
Flex, 1 profile(s)						
Sonar way	Default		60	Never	Never	▼
Java, 2 profile(s)						
Android Lint	0		147	Never	Never	▼
Sonar way	Default	2	277	Never	2 months ago	▼
JavaScript, 2 profile(s)						
Sonar way	Default	1	111	Never		
Sonar way Recommended	0		113	Never	Never	▼

- Activate More Rules
- Back up
- Compare
- Copy
- Rename

Copy Profile Sonar way - Java

New name\*

Copy Cancel

sonarqube Projects Issues Rules **Quality Profiles** Quality Gates Administration Administrator

Quality Profiles / Java

PetClinic Updated: a few seconds ago Used: Never Changelog Actions

Rules	Active	Inactive
<b>Total</b>	<b>277</b>	<b>311</b>
🐛 Bugs	86	16
🔒 Vulnerabilities	18	15
🕒 Code Smells	173	280
<a href="#">Activate More</a>		
Deprecated Rules 2		

**Inheritance** [Change Parent](#)

PetClinic 277 active rules

**Projects** [Change Projects](#)

No projects are explicitly associated to the profile.

**Exporters**

[Android Lint](#)

Embedded database should be used for evaluation purpose only  
The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

SonarQube™ technology is powered by SonarSource SA

Jenkins > PetClinic-Code >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

### Build

**Execute SonarQube Scanner** ✕

Task to run

JDK  ?

JDK to be used for this SonarQube analysis

Path to project properties

Analysis properties

```
# Language
sonar.language=java

# Encoding of the source files
sonar.sourceEncoding=UTF-8
```

Additional arguments

JVM Options

[Add build step](#)

### Post-build Actions

[Save](#) [Apply](#)

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration Administrator August 2, 2017 10:35 AM Version 1.0

Java project analyzed with the SonarQube Runner

Issues Measures Code Activity Administration

Quality Gate **Failed**

66 Issues is greater than 10

5 2k Lines of Code Java 2k

Quality Gate (Default) SonarQube way

Quality Profiles (Java) Sonar way

Key java-sonar-runner-simple

Activity August 2, 2017 1.0

June 4, 2017 Quality Gate: Red Show More

Bugs & Vulnerabilities

Leak Period: since previous version started 2 months ago

33 Bugs 0 Vulnerabilities 0 New Bugs 0 New Vulnerabilities

Code Smells

7h Debt 33 Code Smells 0 New Debt 0 New Code Smells

started 2 months ago

Coverage

0.0% Coverage

Coverage on New Code

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration Administrator August 2, 2017 10:35 AM Version 1.0

Quality Profiles / Java

PetClinic Updated: an hour ago Used: Never Changelog Actions

Rules Active Inactive

Rules	Active	Inactive
Total	277	311
Bugs	86	16
Vulnerabilities	18	15
Code Smells	173	280

Activate More

Deprecated Rules 2

Exporters

Android Lint

The embedded database will not scale, it will be migrated out of it into a different database engine.

Projects

With Without All Search

- Java project analyzed with the SonarQube Runner
- Simple HTML CSS JS project analyzed with the SonarQube

Change Parent

Change Projects

Close

SonarQube™ technology is powered by SonarSource SA

Version 6.3.1 (build 21392) - LGPL v3 - Community - Documentation - Get Support - Plugins - Web API - About



sonarqube Projects Issues Rules **Quality Profiles** Quality Gates Administration

Quality Profiles / Java

PetClinic Updated: an hour ago Used: 2 minutes ago [Changelog](#) [Actions](#)

Rules	Active	Inactive
<b>Total</b>	<b>277</b>	<b>311</b>
🐛 Bugs	86	16
🔒 Vulnerabilities	18	15
👤 Code Smells	173	280

[Activate More](#)

Deprecated Rules 2

Exporters  
[Android Lint](#)

Inheritance [Change Parent](#)

PetClinic 277 active rules

Projects [Change Projects](#)

Java project analyzed with the SonarQube Runner

Embedded database should be used for evaluation purpose only  
The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

SonarQube™ technology is powered by SonarSource SA

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

Java project analyzed with the SonarQube Runner August 2, 2017 10:39 AM Version 1.0

Issues Measures Code Activity Administration

Quality Gate **Failed**

66 Issues is greater than 10

Bugs & Vulnerabilities

33 <b>C</b> Bugs	0 <b>A</b> Vulnerabilities	Leak Period: since previous version started 2 months ago	
0 <b>A</b> New Bugs	0 <b>A</b> New Vulnerabilities		

Code Smells

7h <b>A</b> Debt	33 Code Smells	0 <b>A</b> New Debt	0 New Code Smells
---------------------	-------------------	------------------------	----------------------

Coverage

0.0% Coverage	— Coverage on New Code
------------------	---------------------------

2k Lines of Code Java 2k

Quality Gate (Default) SonarQube way

Quality Profiles (Java) PetClinic

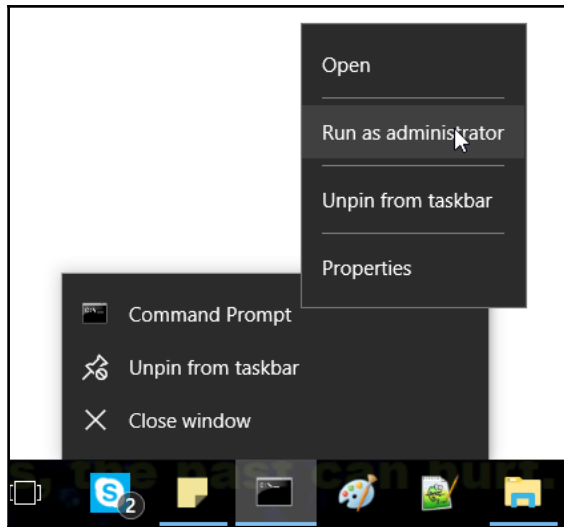
Key java-sonar-runner-simple

Activity

August 2, 2017 **1.0**  
Quality Profile: Stop using 'Sonar way' (Java)  
Quality Profile: Use 'PetClinic' (Java)

August 2, 2017 Project Analyzed

June 4, 2017 Quality Gate: Red  
[Show More](#)



```
Administrator: Command Prompt
F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\bin\windows-x86-64>dir
Volume in drive F is New Volume
Volume Serial Number is 6A72-42C1

Directory of F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\bin\windows-x86-64

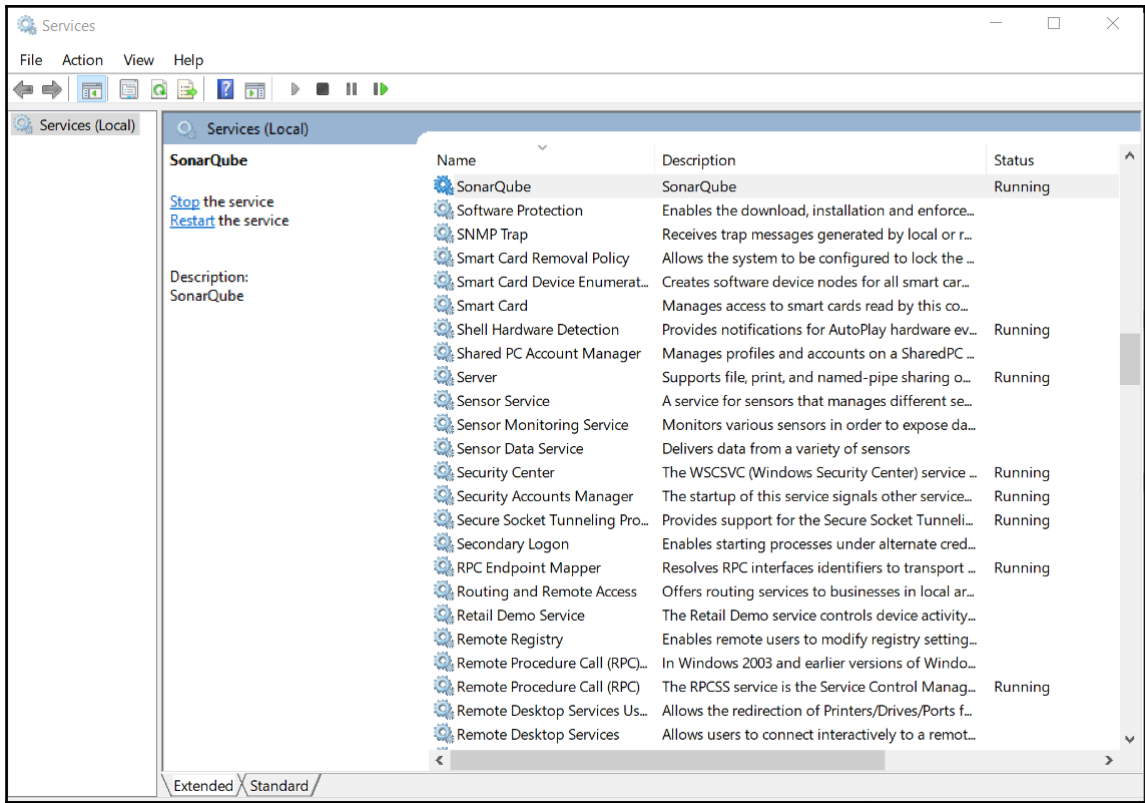
01-08-2017  08:31    <DIR>          .
01-08-2017  08:31    <DIR>          ..
11-04-2017  13:55             1,272 InstallNTService.bat
01-08-2017  08:31    <DIR>          lib
11-04-2017  13:55             1,262 StartNTService.bat
11-04-2017  13:55             1,424 StartSonar.bat
11-04-2017  13:55             1,260 StopNTService.bat
11-04-2017  13:55             1,276 UninstallNTService.bat
11-04-2017  13:39             220,672 wrapper.exe
           6 File(s)              227,166 bytes
           3 Dir(s)  242,244,472,832 bytes free

F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\bin\windows-x86-64>StartNTService.bat
wrapper | The SonarQube service is not installed - The specified service does not exist
as an installed service. (0x424)
Press any key to continue . . .

F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\bin\windows-x86-64>InstallNTService.bat
wrapper | SonarQube installed.

F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\bin\windows-x86-64>StartNTService.bat
wrapper | Starting the SonarQube service...
wrapper | Waiting to start...
wrapper | SonarQube started.

F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\bin\windows-x86-64>
```



# Chapter 05: Building Applications in Jenkins

The screenshot shows the Jenkins configuration page for a job named 'FirstAntExample'. The 'General' tab is selected, and the 'Project name' is 'FirstAntExample'. The 'Description' field is empty. The 'Discard old builds' checkbox is checked, and the 'Strategy' is set to 'Log Rotation'. The 'Days to keep builds' field is empty, and the 'Max # of builds to keep' is set to 3. There are 'Save' and 'Apply' buttons at the bottom left, and an 'Advanced...' button at the bottom right.

Jenkins Open Blue Ocean 2  admin | [log out](#)

Jenkins > FirstAntExample >

**General** Source Code Management Build Triggers Build Environment Build Post-build Actions

Project name

Description

[Plain text] [Preview](#)

Enable project-based security

Discard old builds ?

Strategy

Days to keep builds

if not empty, build records are only kept up to this number of days

Max # of builds to keep

if not empty, only up to this number of build records are kept

The screenshot shows the Jenkins configuration page for a job named 'FirstAntExample', with the 'Build' tab selected. The 'Invoke Ant' step is configured with 'Ant Version' set to 'apache-ant-1.9.4' and 'Targets' set to 'war'. There are 'Add build step' and 'Add post-build action' buttons. There are 'Save' and 'Apply' buttons at the bottom left, and an 'Advanced...' button at the bottom right of the 'Invoke Ant' step.

Jenkins > FirstAntExample >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

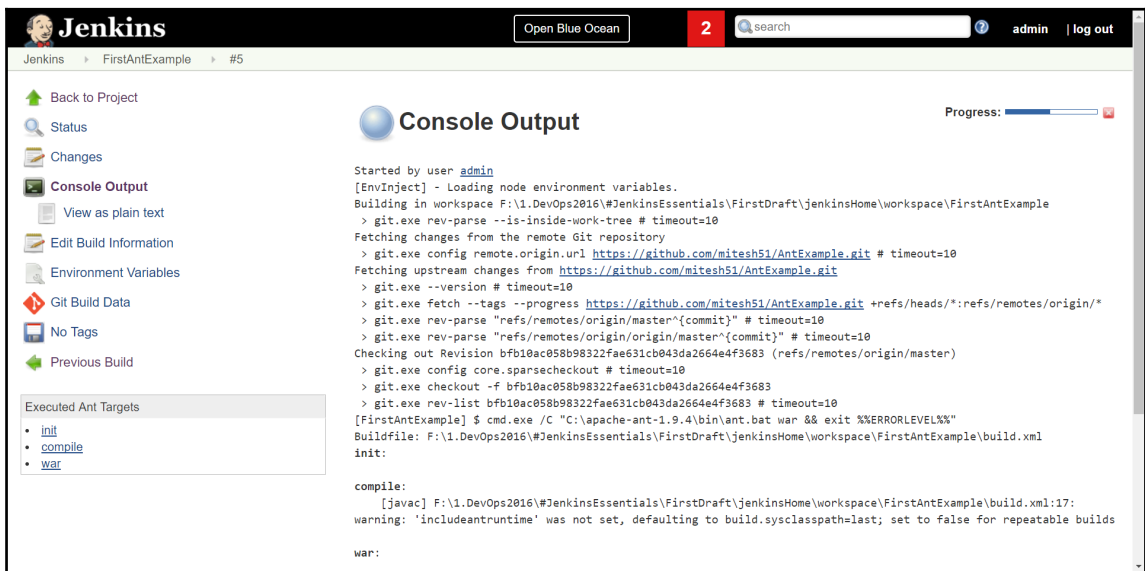
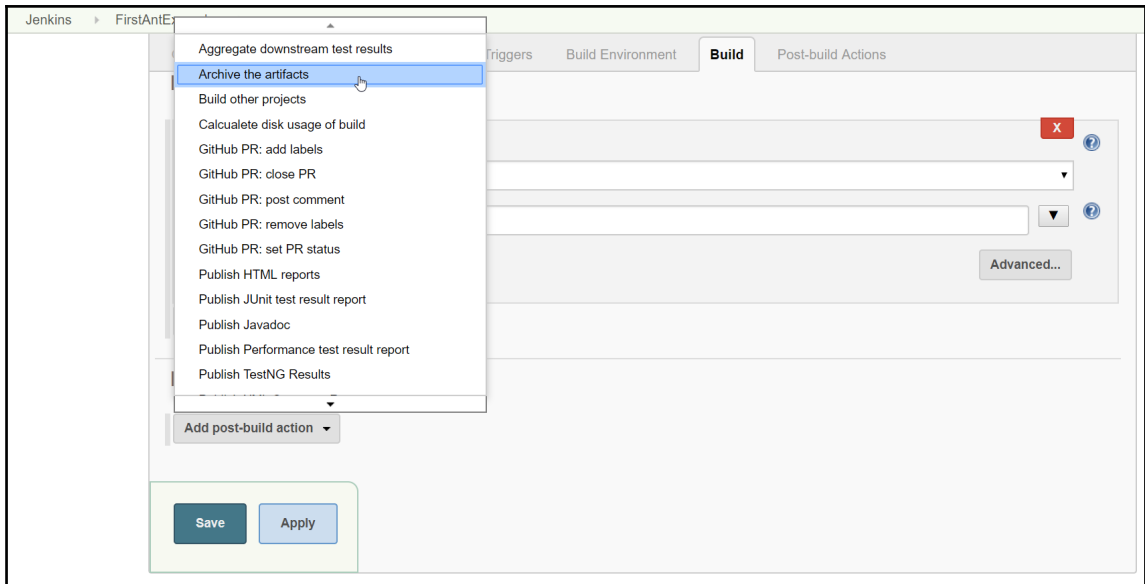
**Build**

**Invoke Ant** X ?

Ant Version

Targets

**Post-build Actions**



**Jenkins** 2 search admin | log out

Jenkins > FirstAntExample > [DISABLE AUTO REFRESH](#)

Back to Dashboard  
 Status  
 Changes  
 Workspace  
 Build Now  
 Delete Project  
 Configure  
 Favorite

## Project FirstAntExample

[add description](#)  
[Disable Project](#)

**Workspace**

**Last Successful Artifacts**  
 AntExample.war 4.19 MB [view](#)

**Recent Changes**

**Disk Usage**

Job	4 MB
All builds	4 MB
Locked builds	-
All workspaces	9 MB
Slave workspaces	9 MB
Non-slave workspaces	-

**Disk Usage Trend**

**Build History** [trend](#)

#	Time	Size
#5	Aug 11, 2017 10:41 AM	4 MB
#4	Jul 27, 2017 8:57 AM	9 KB
#3	Jul 27, 2017 8:53 AM	7 KB

[RSS for all](#) [RSS for failures](#)

Waiting for localhost...

**Permalinks**

- Last build (#5), 2 min 40 sec ago
- Last stable build (#5), 2 min 40 sec ago
- Last successful build (#5), 2 min 40 sec ago

**Jenkins** Open Blue Ocean 2 search admin | log out

Jenkins > PetClinic-Package > [DISABLE AUTO REFRESH](#)

Back to Dashboard  
 Status  
 Changes  
 Workspace  
 Build Now  
 Delete Maven project  
 Configure  
 Modules  
 Favorite  
 SonarQube

## Maven project PetClinic-Package

[add description](#)  
[Disable Project](#)

**SonarQube**

**Workspace**

**Last Successful Artifacts**  
 petclinic.war 39.99 MB [view](#)

**Recent Changes**

**Latest Test Result** (no failures)

**Disk Usage**

Job	41 MB
All builds	41 MB
Locked builds	-
All workspaces	193 MB
Slave workspaces	193 MB

**Disk Usage Trend**

Jenkins Open Blue Ocean 2  admin | [log out](#)

Jenkins > Plugin Manager

[Back to Dashboard](#) Filter: lint

[Manage Jenkins](#)

Updates **Available** Installed Advanced

Install	Name	Version
<input checked="" type="checkbox"/>	<a href="#">Android Lint Plugin</a> Parses Android Lint output and displays the results for analysis.	2.4
<input type="checkbox"/>	<a href="#">CFLint Plugin</a> Parses CFLint output and displays the results for analysis.	0.5.2
<input type="checkbox"/>	<a href="#">JenkinsLint Plugin</a> Checks Jenkins Jobs for practices and behaviour that could potentially be improved.	0.10.1
<input type="checkbox"/>	<a href="#">Box UK - JSLint</a> Lint JavaScript files using a sensible ruleset - outputs to checkstyle format	0.8.2

[Install without restart](#) [Download now and install after restart](#) Update information obtained: 14 hr ago [Check now](#)

Page generated: Aug 11, 2017 11:40:21 AM IST [REST API](#) [Jenkins\\_ver\\_2.61](#)

## Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Static Analysis Utilities ● Success

Android Lint Plugin ● Success

➡ [Go back to the top page](#)  
(you can start using the installed plugins right away)

➡ Restart Jenkins when installation is complete and no jobs are running



Jenkins > Global Tool Configuration

### Gradle

Gradle installations

Gradle

name

Install automatically

Install from **Gradle.org**

Version

List of Gradle installations on this system

---

### SonarQube Scanner for MSBuild

SonarQube Scanner for MSBuild installations

List of SonarQube Scanner for MSBuild installations on this system

---

### SonarQube Scanner

Jenkins > configuration

### Global properties

Environment variables

List of variables

Name

Value

Name

Value

Prepare jobs environment

Tool Locations

---

### SonarQube servers

Environment variables

Enable injection of SonarQube server configuration as build environment variables

If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build


Name


Jenkins Open Blue Ocean 2  admin | log out


Jenkins > All >


### Enter an item name


*» Required field*

 **Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

 **Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

 **Pipeline**  
Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

 **External Job**  
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.

 **Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Jenkins > FirstAndroidProject >

General Source Code Management Build Triggers **Build Environment** Build Post-build Actions

- Abort the build if it's stuck
- Add timestamps to the Console Output
- Inject environment variables to the build process ?
- Inject passwords to the build as environment variables ?
- Use secret text(s) or file(s) ?

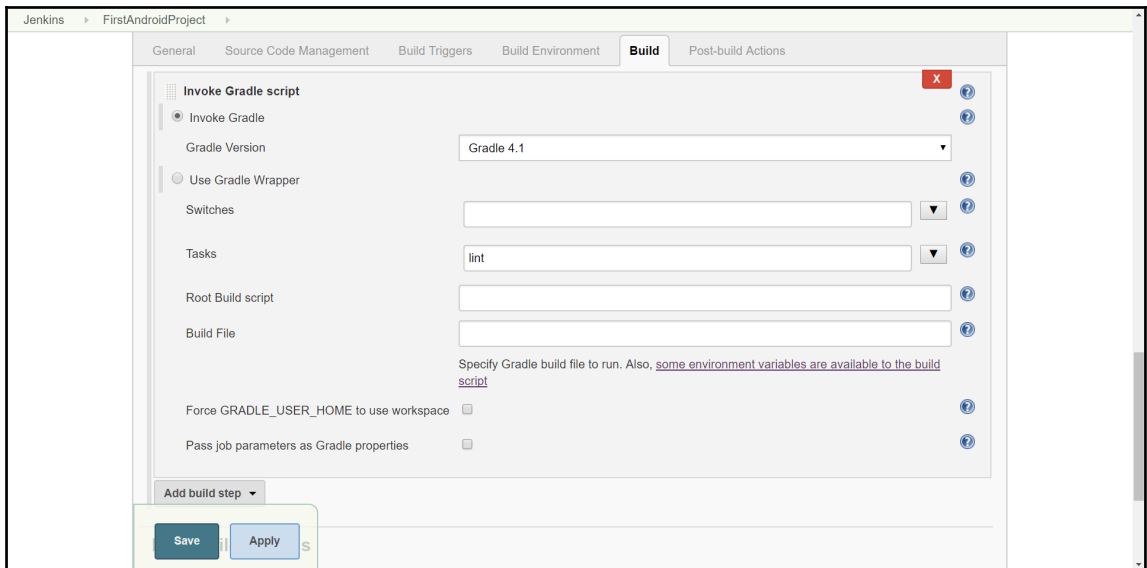
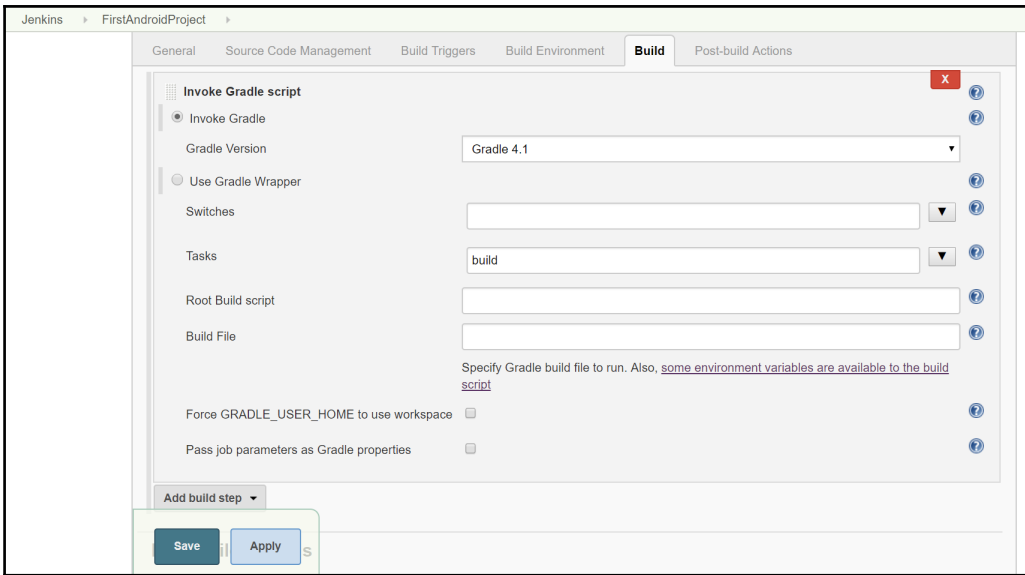
### Build

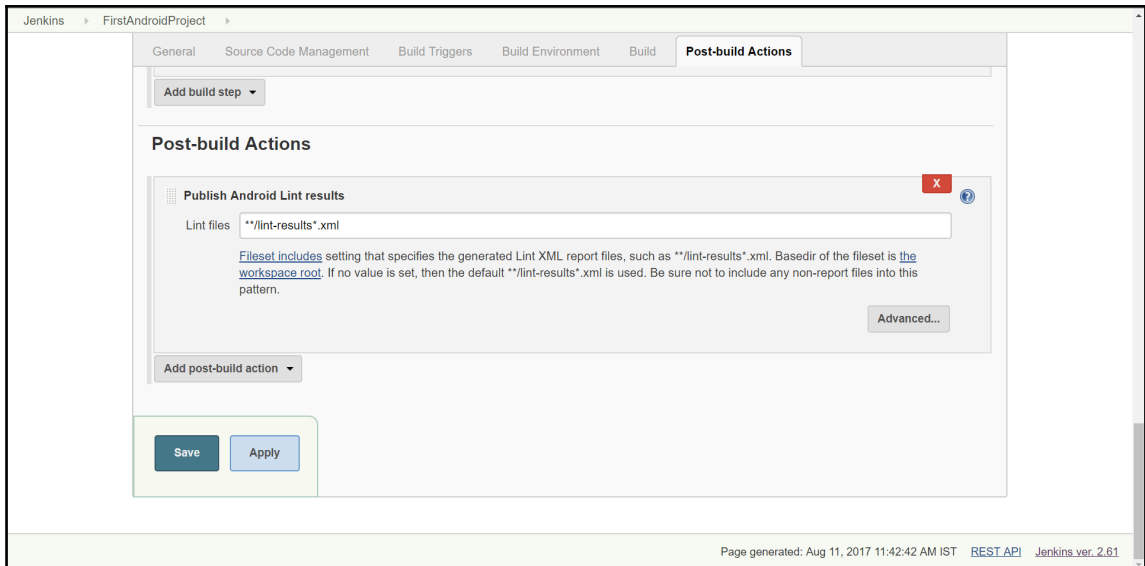
Add build step ▾

- Conditional step (single)
- Conditional steps (multiple)
- Copy artifacts from another project
- Execute SonarQube Scanner
- Execute Windows batch command
- Execute ZAP
- Execute shell
- GitHub PR: set 'pending' status
- Inject environment variables
- Invoke Ant
- Invoke Gradle script

localhost:8080/job/FirstAndroidProject/configure#

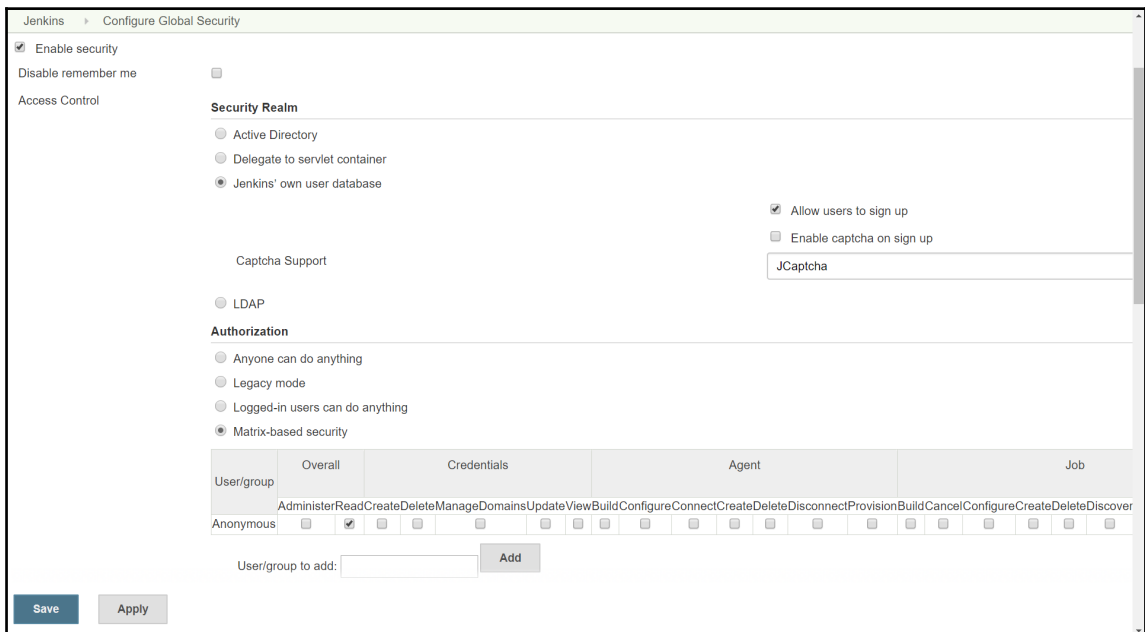
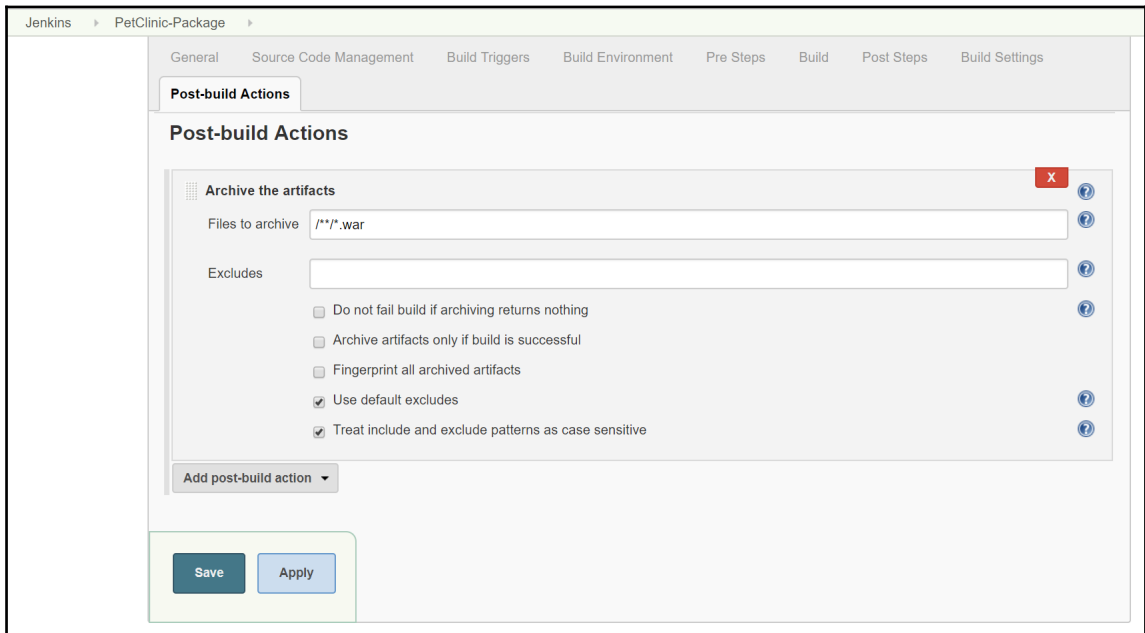
Page generated: Aug 11, 2017 11:35:00 AM IST [REST API](#) Jenkins ver. 2.61





```
-----  
T E S T S  
-----  
  
Results :  
  
Tests run: 0, Failures: 0, Errors: 0, Skipped: 0  
  
[INFO]  
[INFO] --- gmaven-plugin:1.3:execute (run-myGroovy-test) @ ch3.jenkins.builds ---  
[echo]  
[echo]  
[echo] Tested ----> With Groovy  
[INFO]  
[INFO] --- maven-jar-plugin:2.2:jar (default-jar) @ ch3.jenkins.builds ---  
[WARNING] JAR will be empty - no content was marked for inclusion!  
[INFO] Building jar: /home/user/antbuilder/target/ch3.jenkins.builds-1.0-SNAPSHOT.jar  
[INFO]  
[INFO] --- gmaven-plugin:1.3:execute (run-myGroovy-verify) @ ch3.jenkins.builds ---  
[echo]  
[echo]  
[echo] Verified at Fri Nov 21 17:04:59 CET 2014  
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 3.601s  
[INFO] Finished at: Fri Nov 21 17:04:59 CET 2014  
[INFO] Final Memory: 14M/177M  
[INFO] -----
```

# Chapter 06: Continuous Delivery



Which build	Copy from WORKSPACE of latest completed build	?
	Latest successful build	?
	Latest saved build (marked "keep forever")	?
	Upstream build that triggered this job	?
	Downstream build of	?
Artifacts to copy	Last completed build (ignoring build status)	?
	Specified by permalink	?
	Specific build	?
Artifacts not to copy	Copy from WORKSPACE of latest completed build	?
	Specified by a build parameter	?
Target directory		?
Parameter filters		?
	<input type="checkbox"/> Flatten directories	?
	<input type="checkbox"/> Optional	?
	<input checked="" type="checkbox"/> Fingerprint Artifacts	?

Jenkins > PetClinic-Deploy >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

### Build

**Copy artifacts from another project** X

Project name  ?

Which build  ?

Limitation Note ?

Artifacts to copy  ?

Artifacts not to copy  ?

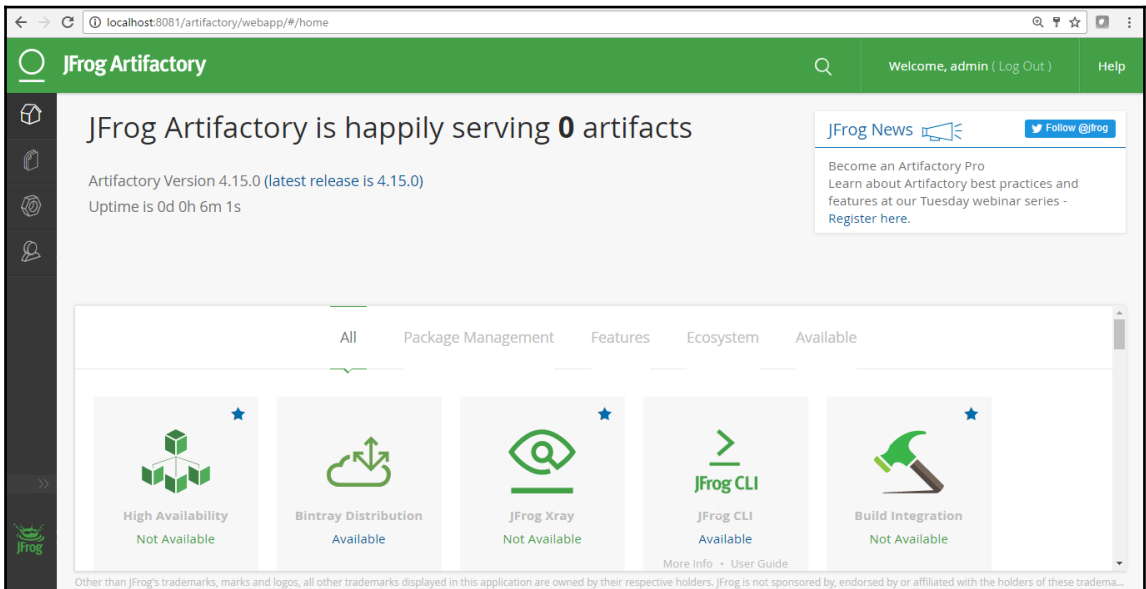
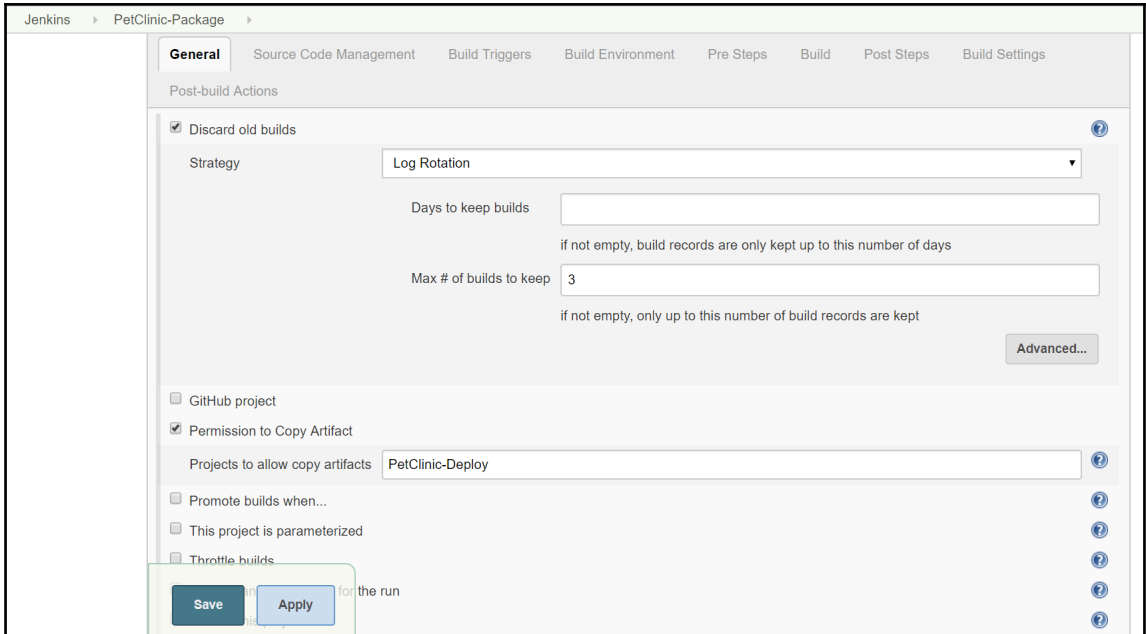
Target directory  ?

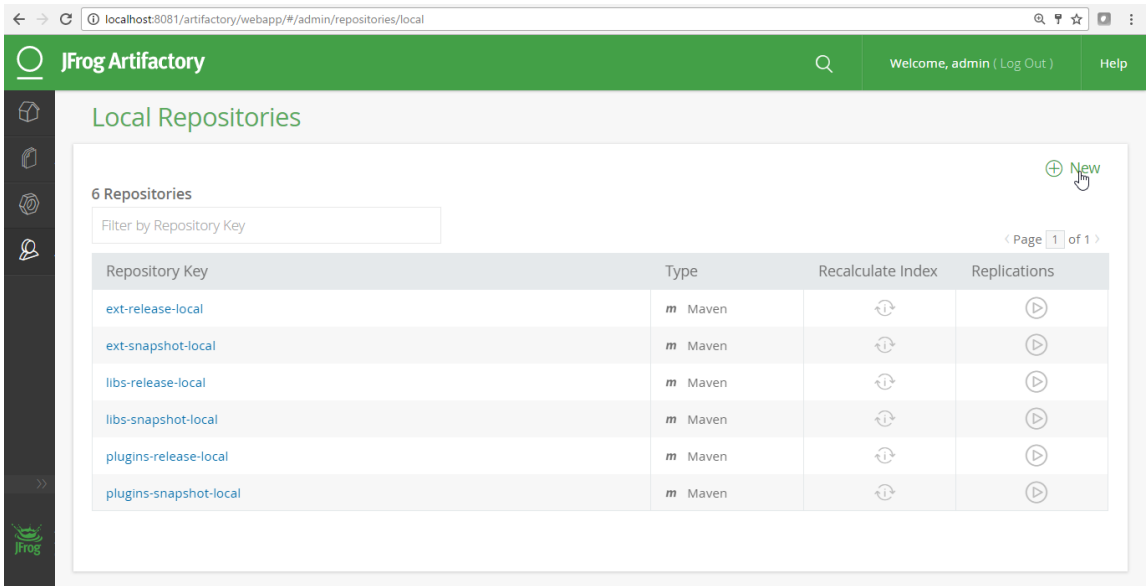
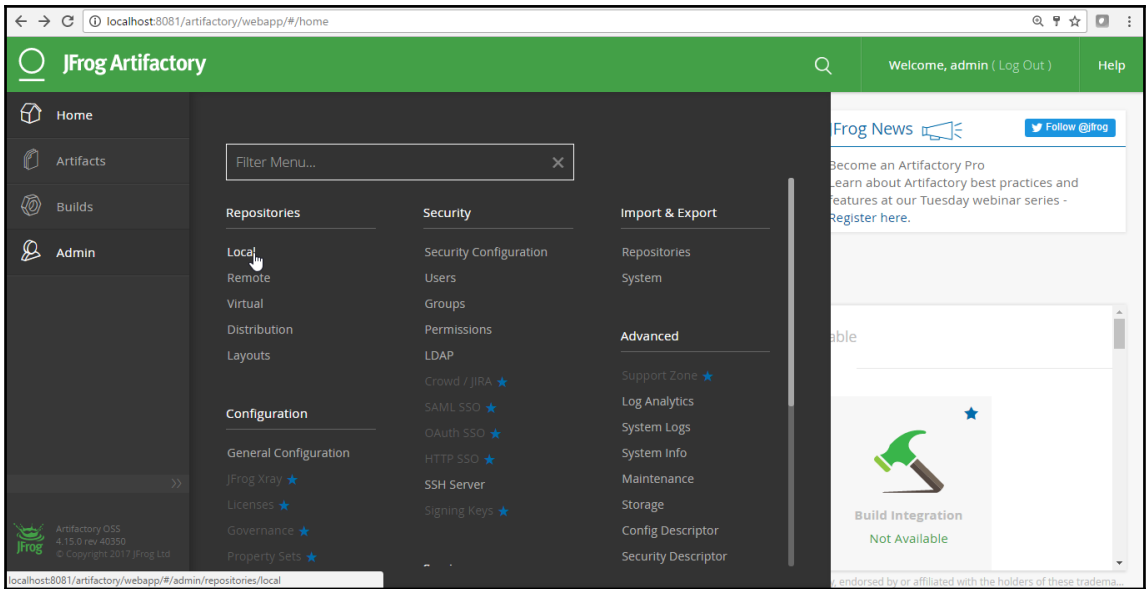
Parameter filters  ?

Flatten directories  Optional  Fingerprint Artifacts ?

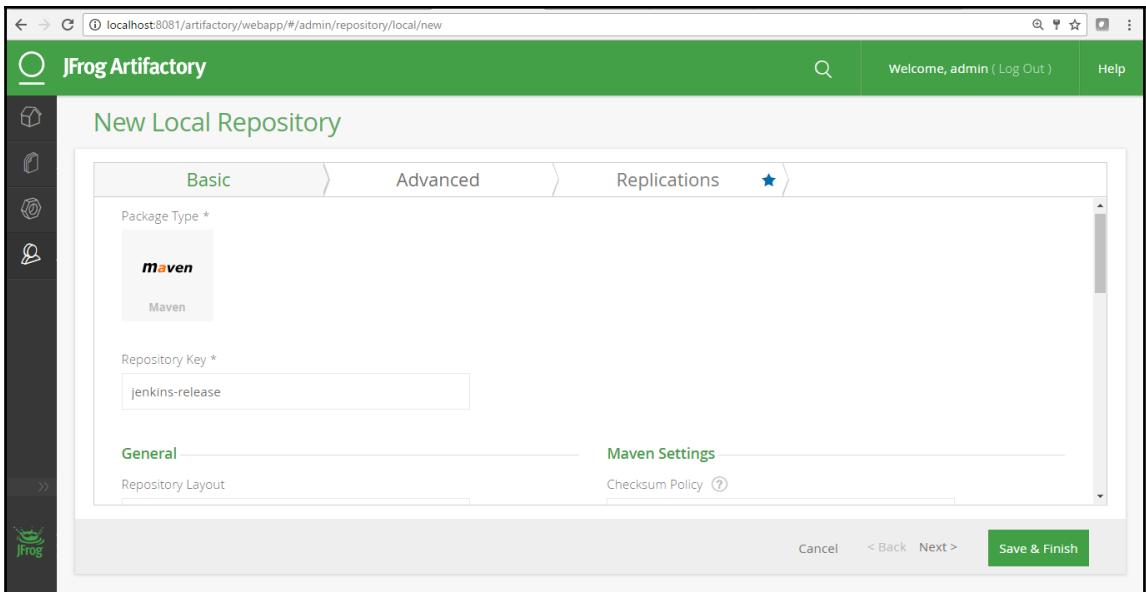
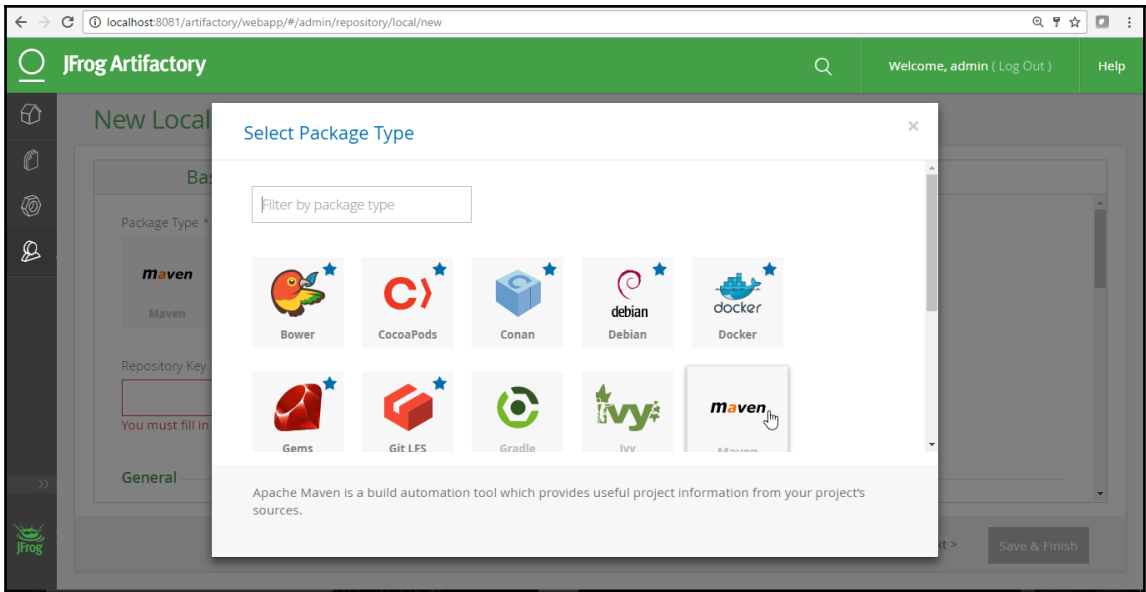
[Advanced...](#)

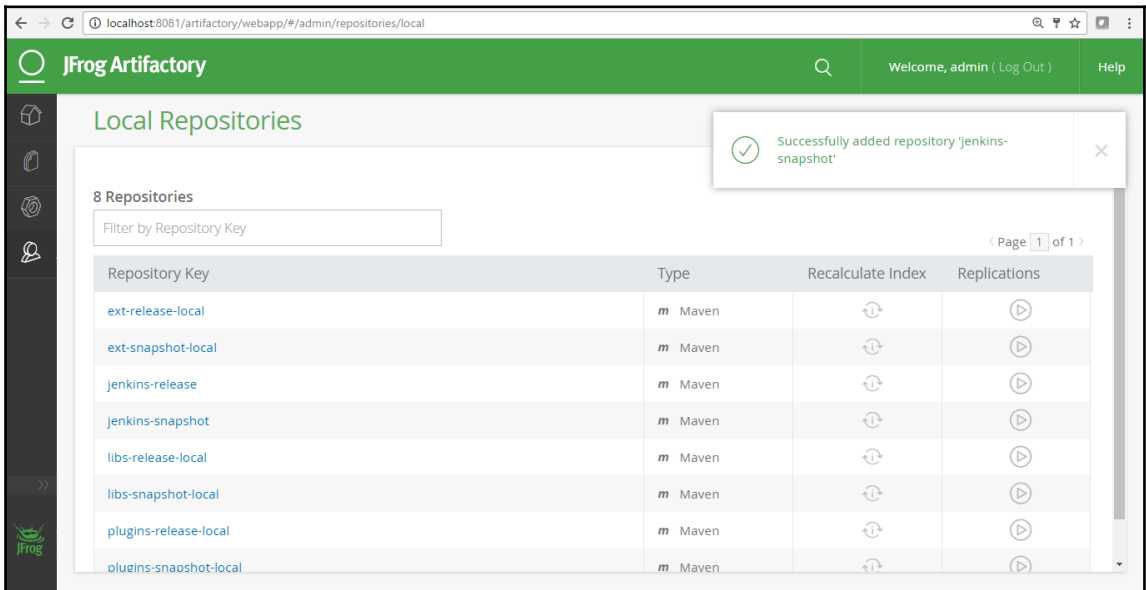
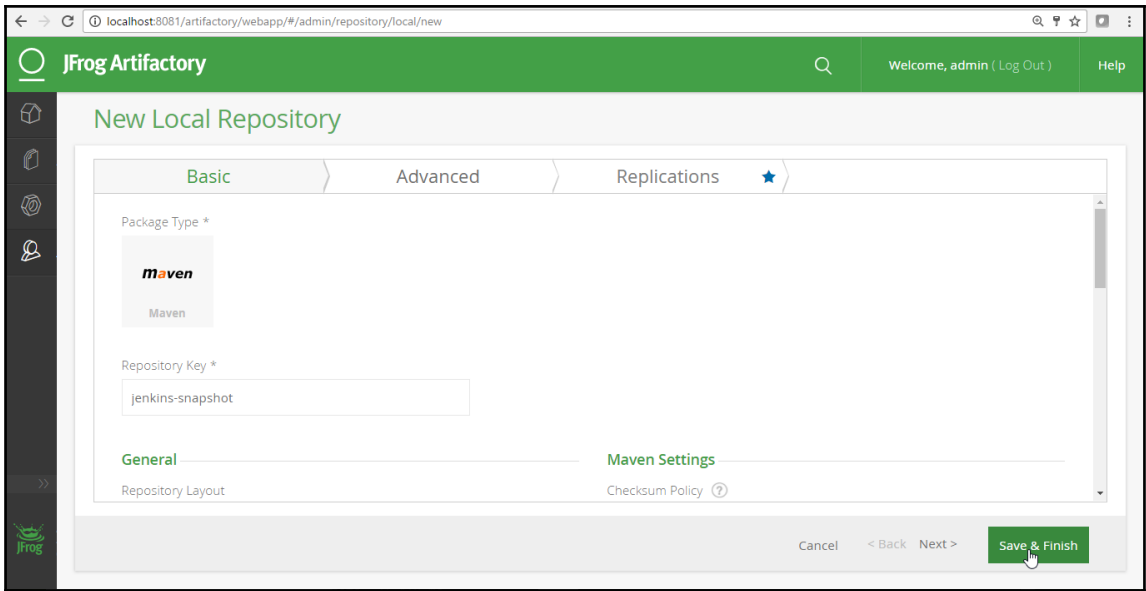
Add build step

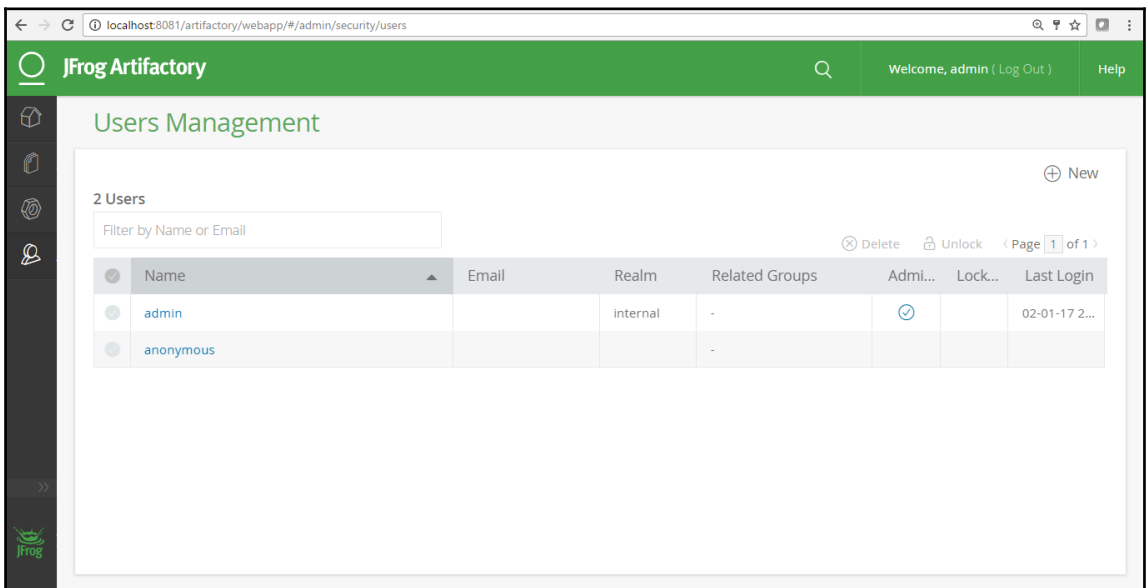
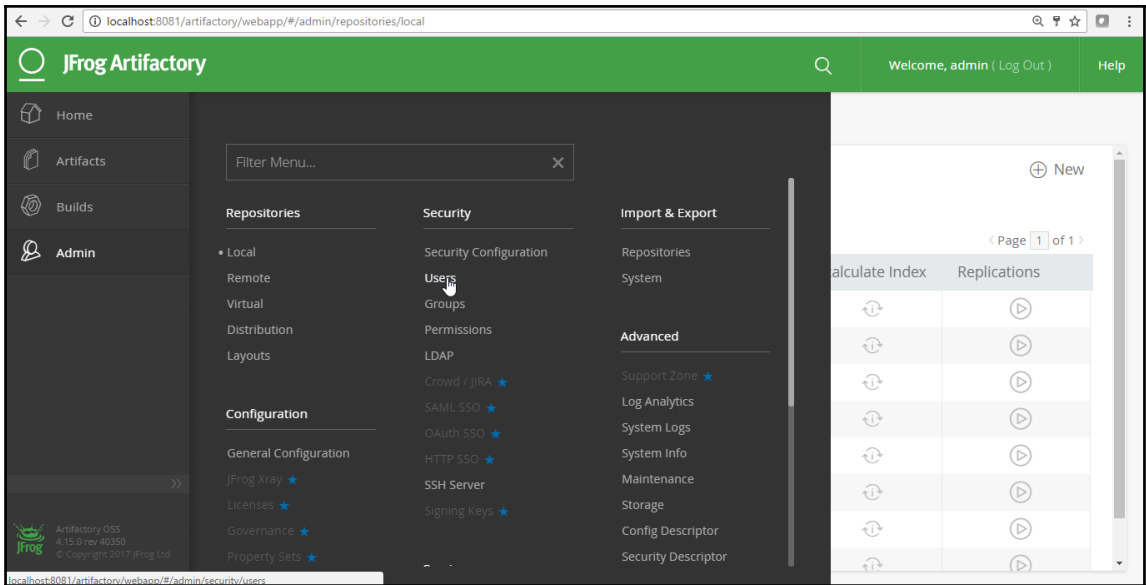












localhost:8081/artifactory/webapp/#/admin/security/users/new

**JFrog Artifactory** Welcome, admin (Log Out) Help

### Add New User

**User Settings**

User Name \*  Email Address \*

Admin  
 Disable UI Access  
 Can Update Profile  
 Disable Internal Password ?

**Set Password**

Password \*  Password Strength

Cancel **Save**

localhost:8081/artifactory/webapp/#/admin/security/users

**JFrog Artifactory** Welcome, admin (Log Out) Help

### Users Management

✓ Successfully created user 'jenkins'

3 Users

Filter by Name or Email

✕ Delete 🔒 Unlock < Page 1 of 1 >

<input checked="" type="checkbox"/>	Name	Email	Realm	Related Groups	Admi...	Lock..	Last Login
<input type="checkbox"/>	admin		internal	-	<input checked="" type="checkbox"/>		02-01-17 2...
<input type="checkbox"/>	anonymous			-			
<input type="checkbox"/>	jenkins	mitesh.soni83@gm...		1   readers	<input checked="" type="checkbox"/>		

localhost:8081/artifactory/webapp/#/admin/security/permissions

**JFrog Artifactory** Welcome, admin (Log Out) Help

Home  
Artifacts  
Builds  
Admin

Filter Menu...

**Repositories**  
Local  
Remote  
Virtual  
Distribution  
Layouts

**Configuration**  
General Configuration  
JFrog Xray  
Licenses  
Governance  
Property Sets

**Security**  
Security Configuration  
Users  
Groups  
• **Permissions**  
LDAP  
Crowd / JIRA  
SAML SSO  
OAuth SSO  
HTTP SSO  
SSH Server  
Signing Keys

**Import & Export**  
Repositories  
System

**Advanced**  
Support Zone  
Log Analytics  
System Logs  
System Info  
Maintenance  
Storage  
Config Descriptor  
Security Descriptor

+ New  
Delete Page 1 of 1  
Users  
1 | anonymous  
1 | anonymous

Artifactory OSS  
4.15.0 rev.46350  
© Copyright 2017 JFrog Ltd.

localhost:8081/artifactory/webapp/#/admin/security/permissions

localhost:8081/artifactory/webapp/#/admin/security/permission/new

**JFrog Artifactory** Welcome, admin (Log Out) Help

New Permission

Name \*  
jenkins-permission

Repositories Groups Users

Available Repositories Selected Repositories

ext-release-local		jenkins-release	X
ext-snapshot-local		jenkins-snapshot	X
libs-release-local	<<		
libs-snapshot-local	<		
plugins-release-local	>		
plugins-snapshot-local	>>		

Cancel < Back Next > Save & Finish

localhost:8081/artifactory/webapp/#/admin/security/permissions

**JFrog Artifactory** Welcome, admin (Log Out) Help

## Permissions Management

3 Permissions + New

Filter by Permission Target Name or Repositories ⊗ Delete < Page 1 of 1 >

Permission Target Name	Repositories	Groups	Users
Any Remote	1   ANY REMOTE	-	1   anonymous
Anything	9   ANY	1   readers	1   anonymous
jenkins-permission	2   jenkins-release, jenkins-snapshot	-	-

localhost:8081/artifactory/webapp/#/admin/security/permissions/jenkins-permission/edit

**JFrog Artifactory** Welcome, admin (Log Out) Help

## Edit jenkins-permission Permission

Name \*  
jenkins-permission

Repositories > Groups > **Users**

Filter...  
anonymous >  
jenkins >

0 Records  
Filter by User ⊗ Remove < Page 1 of 1 >

User	Mana...	Delete/Overw...	Deploy/Cache	Annot...	Read

Cancel < Back Next > **Save & Finish**

localhost:8081/artifactory/webapp/#/admin/security/permissions/jenkins-permission/edit

**JFrog Artifactory** Welcome, admin (Log Out) Help

### Edit jenkins-permission Permission

Name \*  
jenkins-permission

Repositories Groups **Users**

Filter...  
anonymous

1 Record  
Filter by User

Remove < Page 1 of 1 >

User	Mana...	Delete/Overw...	Deploy/Cache	Annot...	Read
jenkins	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Cancel < Back Next > **Save & Finish**

localhost:8081/artifactory/webapp/#/admin/security/permissions

**JFrog Artifactory** Welcome, admin (Log Out) Help

### Permissions Management

3 Permissions

Filter by Permission Target Name or Repositories

Delete < Page 1 of 1 >

Permission Target Name	Repositories	Groups	Users
Any Remote	1   ANY REMOTE	-	1   anonymous
Anything	9   ANY	1   readers	1   anonymous
jenkins-permission	2   jenkins-release, jenkins-snapshot	-	1   jenkins

Successfully updated permission target 'jenkins-permission'

Updates **Available** Installed Advanced


Install ↓	Name	Version
<input checked="" type="checkbox"/>	<a href="#">Artifactory Plugin</a> Integrates Artifactory to Jenkins	2.12.2

[Install without restart](#)
[Download now and install after restart](#)
Update information obtained: 23 hr ago
[Check now](#)

## Installing Plugins/Upgrades

### Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Config File Provider Plugin  Success

Ivy Plugin  Success

Artifactory Plugin  Success

➡ [Go back to the top page](#)  
(you can start using the installed plugins right away)

➡ Restart Jenkins when installation is complete and no jobs are running



**Artifactory**

Artifactory servers

Enable Push to Bintray

Use the Credentials Plugin

Artifactory

Server ID

URL

**Default Deployer Credentials**

Username

Password

Found Artifactory 4.15.0

Use Different Resolver Credentials

[Advanced...](#)

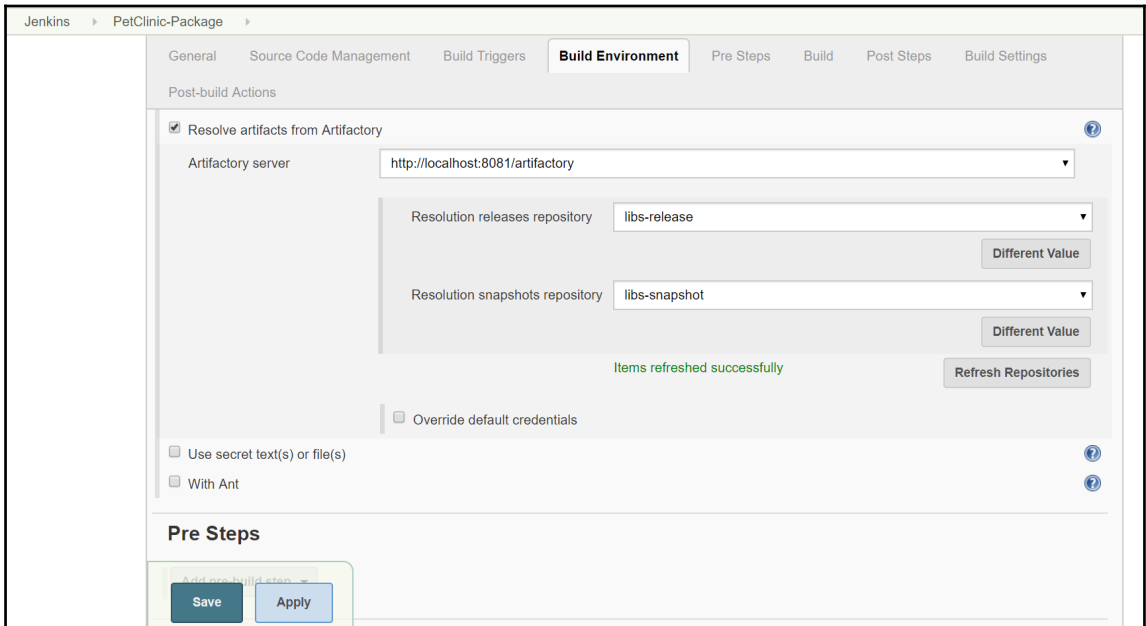
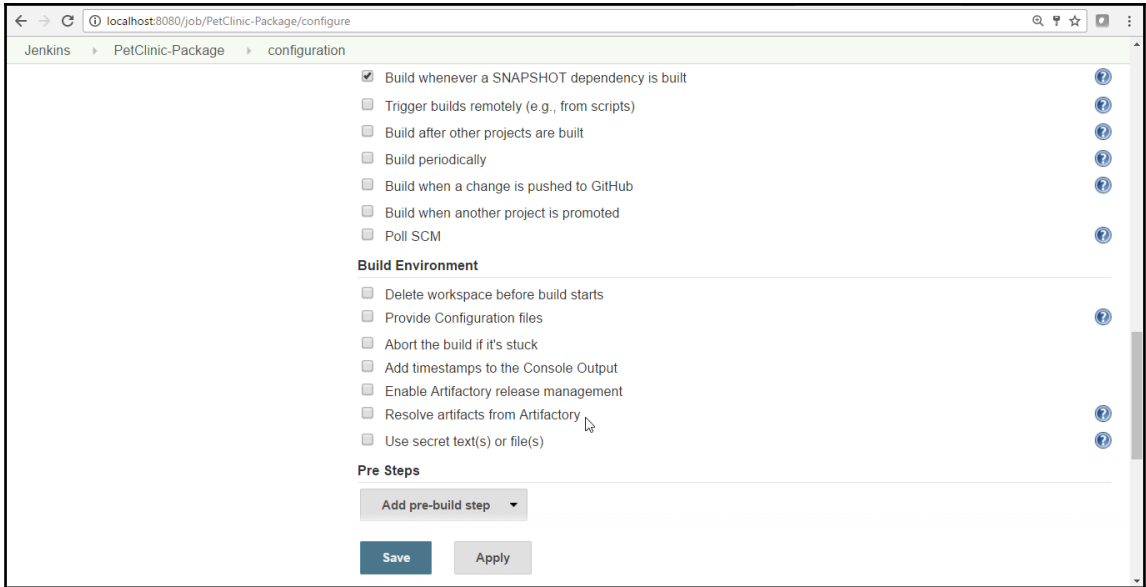
[Test Connection](#)

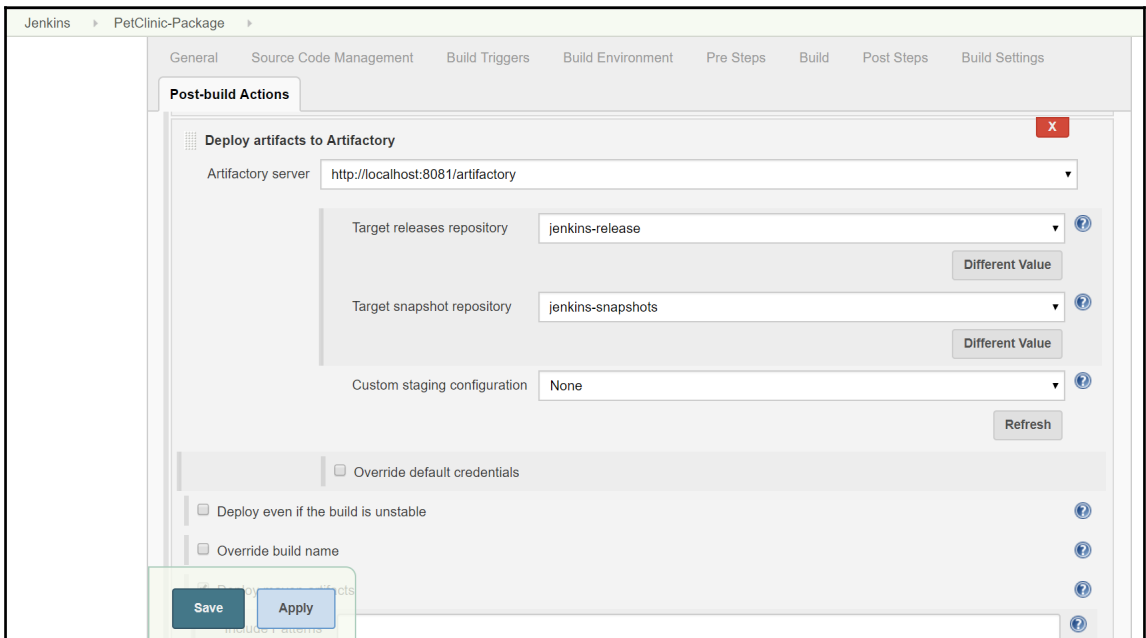
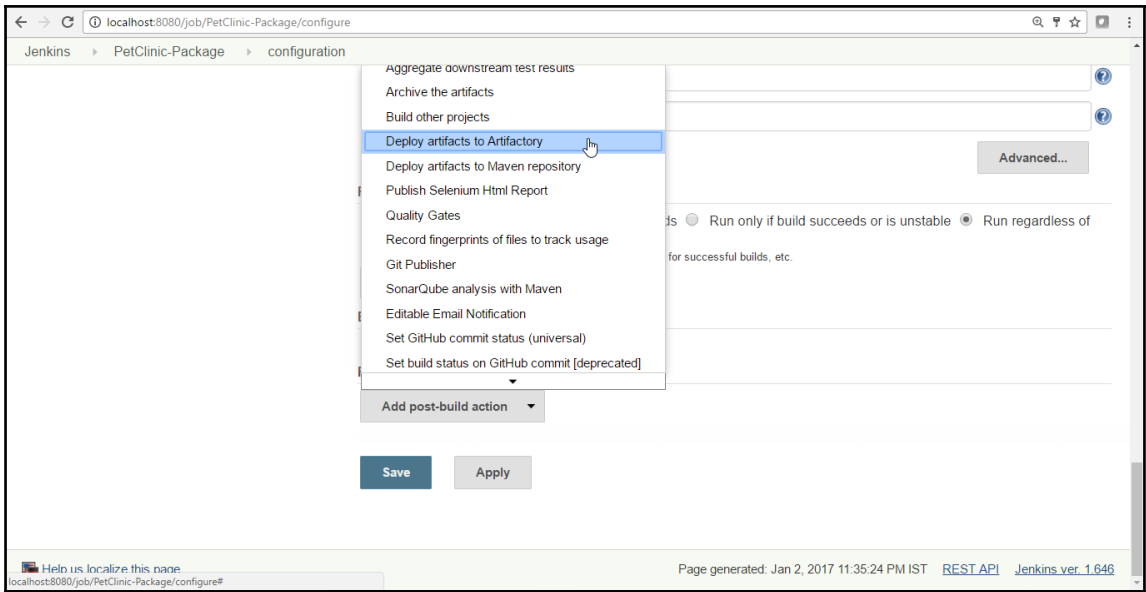
[Delete](#)

[Add Artifactory Server](#)

> Windows (C:) > Users > Mitesh > .m2 >

Name	Date modified
repository	14-08-2017 14:30
repository1	13-08-2017 19:00





```
[INFO] Scanning for projects...
[INFO] Initializing Artifactory Build-Info Recording
[HUDSON] Collecting dependencies info
[INFO]
[INFO] -----
[INFO] Building petclinic 4.2.5-SNAPSHOT
[INFO] -----
[INFO] Downloading: http://localhost:8081/artifactory/libs-release/com/itextpdf/itextpdf/5.4.5/itextpdf-5.4.5.pom
log4j:WARN No appenders could be found for logger
(org.apache.maven.wagon.providers.http.httpclient.client.protocol.RequestAddCookies).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
[INFO] Downloaded: http://localhost:8081/artifactory/libs-release/com/itextpdf/itextpdf/5.4.5/itextpdf-5.4.5.pom (9 KB at 3.7 KB/sec)
[INFO] Downloading: http://localhost:8081/artifactory/libs-release/com/itextpdf/itext-parent/1.0.0/itext-parent-1.0.0.pom
[INFO] Downloaded: http://localhost:8081/artifactory/libs-release/com/itextpdf/itext-parent/1.0.0/itext-parent-1.0.0.pom (4 KB at 9.3 KB/sec)
[INFO] Downloading: http://localhost:8081/artifactory/libs-release/com/itextpdf/itextpdf/5.4.5/itextpdf-5.4.5.jar
[INFO] Downloaded: http://localhost:8081/artifactory/libs-release/com/itextpdf/itextpdf/5.4.5/itextpdf-5.4.5.jar (2054 KB at 137.0 KB/sec)
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ spring-petclinic ---
[INFO] Downloading: http://localhost:8081/artifactory/libs-release/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom
[INFO] Downloaded: http://localhost:8081/artifactory/libs-release/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom (2 KB at 0.4 KB/sec)
[INFO] Downloading: http://localhost:8081/artifactory/libs-release/org/apache/maven/maven/2.0.6/maven-2.0.6.pom
```

```

Finished Calculation of disk usage of workspace in 2 second
[INFO] Artifactory Build Info Recorder: Saving Build Info to
'F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-Package\target\build-info.json'
[INFO] Deploying artifact: http://localhost:8081/artifactory/jenkins-snapshots/org/springframework/samples/spring-petclinic/4.2.5-SNAPSHOT/spring-petclinic-4.2.5-SNAPSHOT.war
log4j:WARN No appenders could be found for logger (org.apache.http.client.protocol.RequestAddCookies).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
[INFO] Artifactory Build Info Recorder: Deploying build info ...
[INFO] Deploying build descriptor to: http://localhost:8081/artifactory/api/build
[INFO] Build successfully deployed. Browse it in Artifactory under
http://localhost:8081/artifactory/webapp/builds/PetClinic-Package/14
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 03:53 min
[INFO] Finished at: 2017-08-14T17:03:32+05:30
[INFO] Final Memory: 35M/245M
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-Package\pom.xml
to org.springframework.samples/spring-petclinic/4.2.5-SNAPSHOT/spring-petclinic-4.2.5-SNAPSHOT.pom
[JENKINS] Archiving F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-
Package\target\petclinic.war to org.springframework.samples/spring-petclinic/4.2.5-SNAPSHOT/spring-petclinic-4.2.5-
SNAPSHOT.war
channel stopped
Archiving artifacts
Started calculate disk usage of build
Finished Calculation of disk usage of build in 0 seconds
Started calculate disk usage of workspace
Finished Calculation of disk usage of workspace in 2 second
Finished: SUCCESS

```

The screenshot shows the Jfrog Artifactory web interface. At the top, there is a navigation bar with the Jfrog logo, the text 'Jfrog Artifactory', a search icon, and user information 'Welcome, admin ( Log Out )' and a 'Help' link. Below the navigation bar is a search type selector with options: Quick, Package, Archive, Property (selected), Checksum, and Remote. The main content area is titled 'Artifact Repository Browser' and includes a 'Set Me Up' and 'Deploy' button. On the left, there is a tree view showing the repository structure: 'ext-release-local', 'ext-snapshot-local', 'jenkins-release', 'jenkins-snapshots', and 'org/springframework/samples/spr...'. The selected artifact is 'spring-petclinic-4.2.5-20170814.112849-1.war'. The right pane shows the 'General' tab for this artifact, with a 'Download' button and 'Actions' menu. The 'Info' section displays the following details:

Name:	spring-petclinic-4.2.5-20170814.112849-1.war
Repository Path:	jenkins-snapshots/org/springframework/samples/spring-petclinic/4.2.5-SNAPSHOT/spring-petclinic-4.2.5-20170814.112849-1.war
Module ID:	org.springframework.samples:spring-petclinic:4.2.5-20170814.112849-1
Deployed by:	admin
Size:	39.99 MB
Created:	14-08-17 17:01:56 +05:30
Last Modified:	14-08-17 17:01:45 +05:30

Filter:

Updates **Available** Installed Advanced

Install ↓	Name	Version
<input type="checkbox"/>	<a href="#">Deploy to container Plugin</a>	1.10
<input type="checkbox"/>	<a href="#">Deploy to Websphere container Plugin</a>	1.0

Update information obtained: 1 day 2 hr ago

```

<?xml version='1.0' encoding='utf-8'?>
<!--
<tomcat-users>
<!--
<!--
NOTE: The sample user and role entries below are intended for use with the
examples web application. They are wrapped in a comment and thus are ignored
when reading this file. If you wish to configure these users for use with the
examples web application, do not forget to remove the <!-- ..> that surrounds
them. You will also need to set the passwords to something appropriate.
-->
<role rolename="manager-script"/>
<user username="admin" password="admin@123" roles="manager-script"/>
</tomcat-users>

```

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

## Build

**Copy artifacts from another project** X

Project name  ?

⚠ Artifacts will be copied from all modules of this Maven project; click the help icon to learn about selecting a particular module.

Which build  ?

Stable build only

Artifacts to copy  ?

Artifacts not to copy  ?

Target directory  ?

Parameter filters  ?

Flatten directories  Optional  Fingerprint Artifacts ?

[Advanced...](#)

[Add build step](#)

[Save](#) [Apply](#)

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

## Post-build Actions

**Deploy war/ear to a container** X

WAR/EAR files  ?

Context path  ?

Containers

**Tomcat 7.x** X

Manager user name

Manager password

Tomcat URL

[Add Container](#)

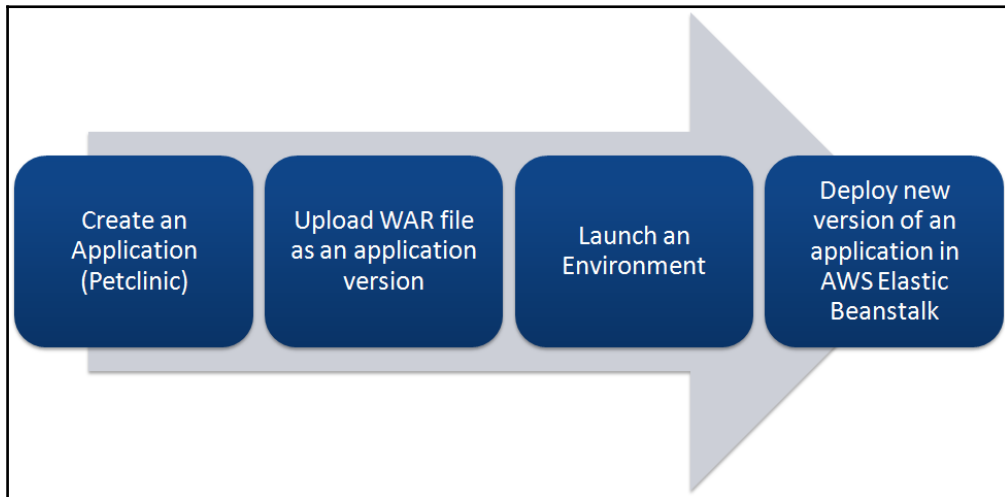
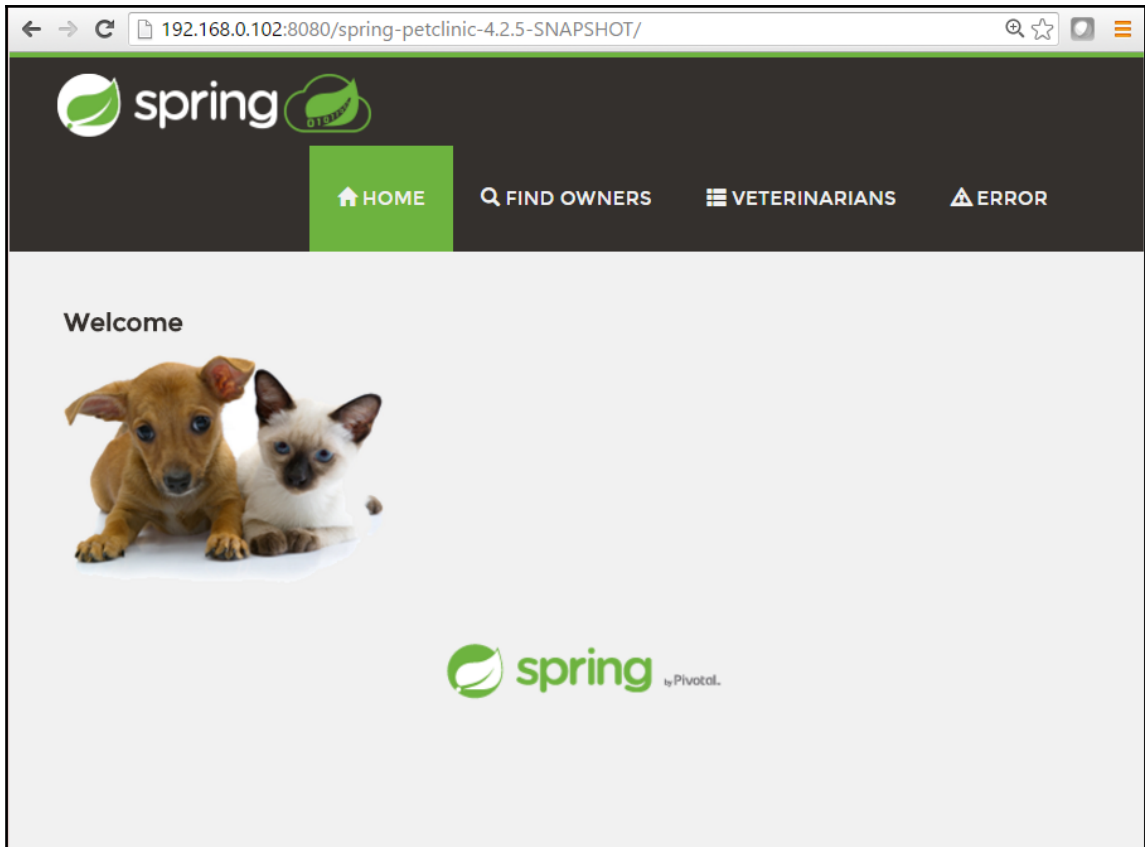
Deploy on failure

Results :

Tests run: 59, Failures: 0, Errors: 0, Skipped: 0

```
[INFO]
[INFO] --- maven-war-plugin:2.3:war (default-war) @ spring-petclinic ---
[INFO] Packaging webapp
[INFO] Assembling webapp [spring-petclinic] in [d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT]
[INFO] Processing war project
[INFO] Copying webapp resources [d:\jenkins\workspace\PetClinic-Test\src\main\webapp]
[INFO] Webapp assembled in [1669 msecs]
[INFO] Building war: d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 28.772 s
[INFO] Finished at: 2016-07-06T22:59:37+05:30
[INFO] Final Memory: 29M/261M
[INFO] -----
Deploying d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT.war to container Tomcat 7.x Remote
[d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT.war] is not deployed.
Doing a fresh deployment.
  Deploying [d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT.war]
Finished: SUCCESS
```





Elastic Beanstalk petclinic [Create New Application](#)

## Create a web app

Choose a name and a platform for your app. You can start with a sample app or upload your own code. Then, you can configure more options before you deploy your app. By creating an app, you allow AWS Elastic Beanstalk to administer AWS resources and necessary permissions on your behalf. [Learn more.](#)

**Application name**

Maximum length of 100 characters, not including forward slash (/).

**Platform**

Tomcat 8 Java 8 (this can be updated after initial setup)

**App code**

- Sample application
 

Comes with instructions on how to configure your application. You can upload a new source code for this app later.
- Upload your own code
 

You can upload a file or provide a URL to your app code in Amazon S3.

Elastic Beanstalk petclinic [Create New Application](#)

All Applications > petclinic > petclinic (Environment ID: e-y2fmwvri3n, URL: ) Actions

**Creating petclinic**  
This will take a few minutes

```

11:04pm Waiting for EC2 instances to launch. This may take a few minutes.
11:02pm Created EIP: 52.73.142.147
11:02pm Environment health has transitioned to Pending. Initialization in progress (running for 8 seconds). There are no instances.
11:02pm Created security group named:
awseb-e-y2fmwvri3n-stack-AWSEBSecurityGroup-E1E762FFSL5Q
11:01pm Using elasticbeanstalk-us-east-1-685239287657 as Amazon S3 storage bucket for environment data.
11:01pm createEnvironment is starting.

```

**Learn More**

- [Get started using Elastic Beanstalk](#)
- [Modify the code](#)
- [Create and connect to a database](#)
- [Add a custom domain](#)

**Command Line Interface (v3)**

- [Installing the AWS EB CLI](#)
- [EB CLI Command Reference](#)

AWS Services Edit Mitesh N. Virginia Support

Elastic Beanstalk petclinic Create New Application

All Applications > petclinic Actions

Environments

- Application Versions
- Saved Configurations

petclinic

**Environment tier:** Web Server

**Running versions:** Sample Application

**Last modified:** 2016-07-07 23:05:19 UTC+0530

**URL:** petclinic.mjzcu3cvp.us-east-1.elasticbe...


AWS Services Edit Mitesh N. Virginia Support

Elastic Beanstalk petclinic Create New Application

All Applications > petclinic > petclinic ( Environment ID: e-y2fmvwi3n, URL: petclinic.mjzcu3cvp.us-east-1.elasticbeanstalk.com ) Actions

Dashboard Overview Refresh

- Configuration
- Logs
- Health
- Monitoring
- Alarms
- Managed Updates <sup>NEW</sup>
- Events




**Health**  
**OK**

Causes

**Running Version**

Sample Application

Upload and Deploy



**Configuration**

64bit Amazon Linux 2016.03  
v2.1.3 running Tomcat 8 Java 8

Change

petclinic.mjczcu3cvp.us-east-1.elasticbeanstalk.com

# Congratulations

Your first AWS Elastic Beanstalk Application is now running on your own dedicated environment in the AWS Cloud

## What's Next?

- [Learn how to build, deploy and manage your own applications using AWS Elastic Beanstalk](#)
- [AWS Elastic Beanstalk concepts](#)
- [Learn how to create new application versions](#)
- [Learn how to manage your application environments](#)

## Download the AWS Reference Application

- [Explore a fully-featured reference application using the AWS SDK for Java](#)

## AWS Toolkit for Eclipse

- [Developers may build and deploy AWS Elastic Beanstalk applications directly from Eclipse](#)
- [Get started with Eclipse and AWS Elastic Beanstalk by watching this video](#)
- [View all AWS Elastic Beanstalk documentation](#)

192.168.0.104:8080/job/PetClinic-Test/configure

Jenkins > PetClinic-Test

- Publish Checkstyle analysis results
- Publish FindBugs analysis results
- Publish combined analysis results
- Aggregate downstream test results
- Archive the artifacts
- Build other projects
- **Deploy into AWS Elastic Beanstalk**
- Publish JUnit test result report
- Publish Javadoc
- Record fingerprints of files to track usage
- Report Violations
- Git Publisher
- Deploy an application to AWS CodeDeploy
- SonarQube analysis with Maven
- Build other projects (manual step)
- Deploy war/ear to a container
- E-mail Notification
- Editable Email Notification
- Set build status on GitHub commit

Add post-build action

Save Apply

192.168.0.104:8080/job/PetClinic-Test/configure#

23:41 07-07-2016

**Elastic Beanstalk Application** X

AWS Credentials

AWS Credentials lookup by name

AWS Region

AWS Region Text

Application Name


petclinic

EnvironmentLookup


**Get Environments By Name** X

Environment Names

petclinic

 **AWS** ▼ **Services** ▼ **Edit** ▼

**All Buckets (1)**

	Name
	elasticbeanstalk-us-east-1-685239287657

AWS Services Edit Mitesh Global Sup

Upload Create Folder Actions Search by prefix None Properties Transfers

All Buckets / elasticbeanstalk-us-east-1-685239287657

Name	Storage Class	Size	Last Modified
.elasticbeanstalk	Standard	0 bytes	Thu Jul 07 23:01:35 GMT+5
petclinic-jenkins-PetClinic-Test-39.zip	Standard	39.9 MB	Fri Jul 08 00:52:04 GMT+53
resources	--	--	--

AWS Services Edit Mitesh N. Virginia

Elastic Beanstalk petclinic Create New Application

Learn More All Applications Filter by Application Name:

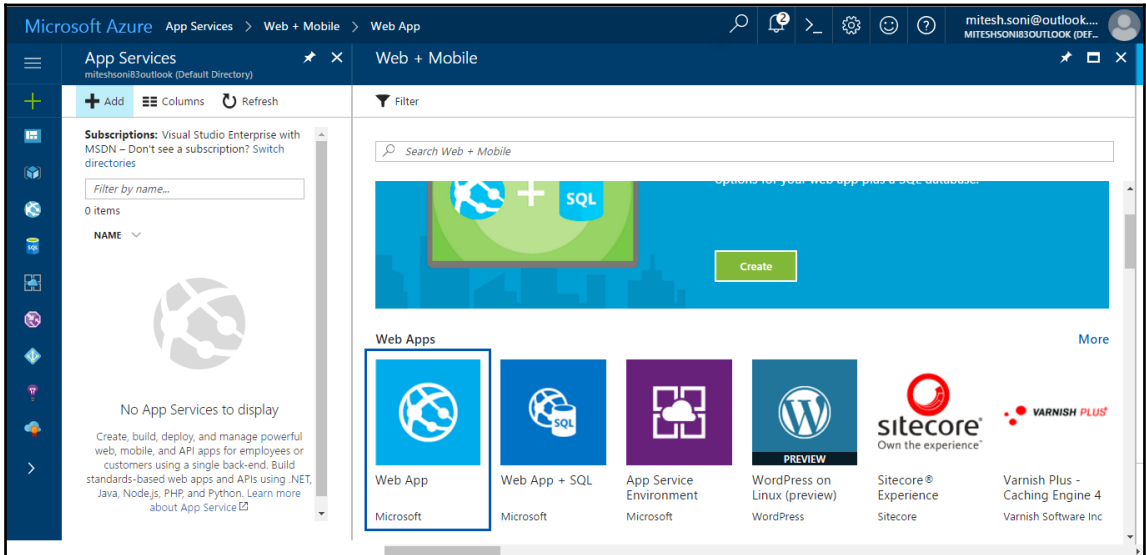
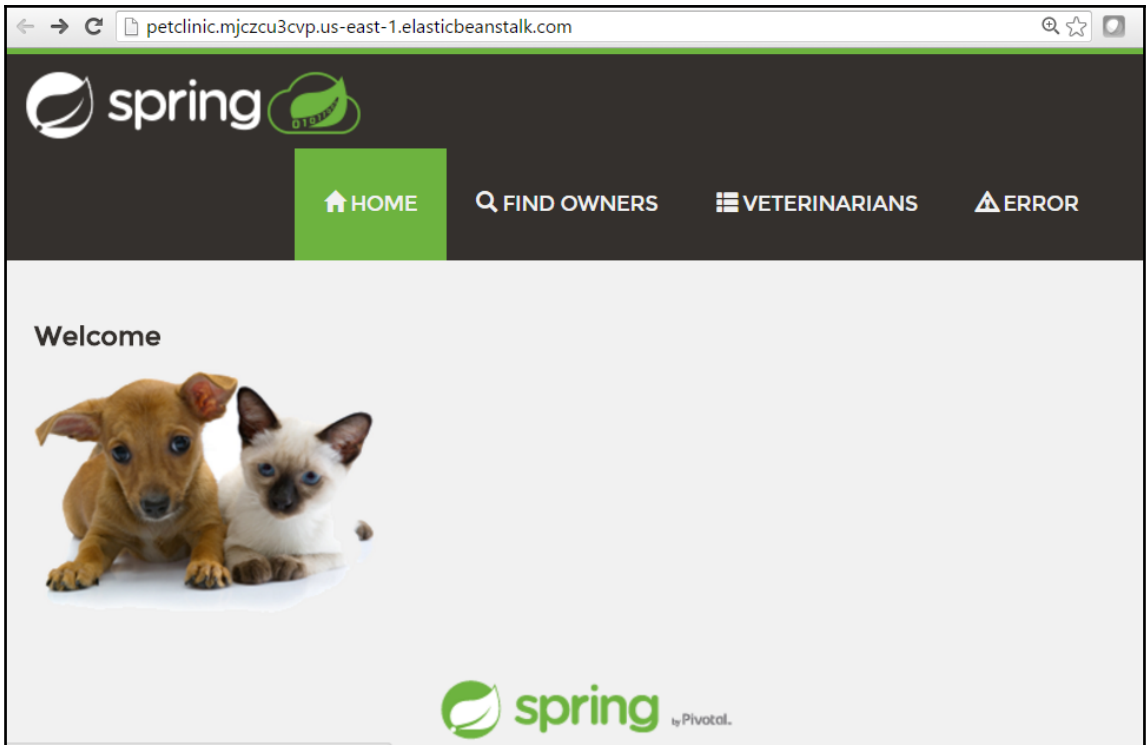
Get started using Elastic Beanstalk  
 Modify the code  
 Create and connect to a database  
 Add a custom domain

Command Line Interface (v3)  
 Installing the AWS EB CLI  
 EB CLI Command Reference

petclinic Actions

petclinic

Environment tier: Web Server  
 Running versions: jenkins-PetClinic-Test-39  
 Last modified: 2016-07-08 01:04:41 UTC+0530  
 URL: petclinic.mjzcu3cvc.us-east-1.elasticbeanstalk...





## Web App

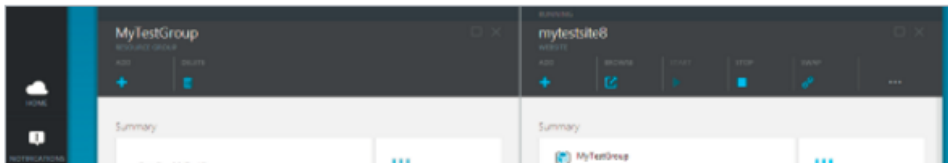
Microsoft



Create and deploy web sites in seconds, as powerful as you need them

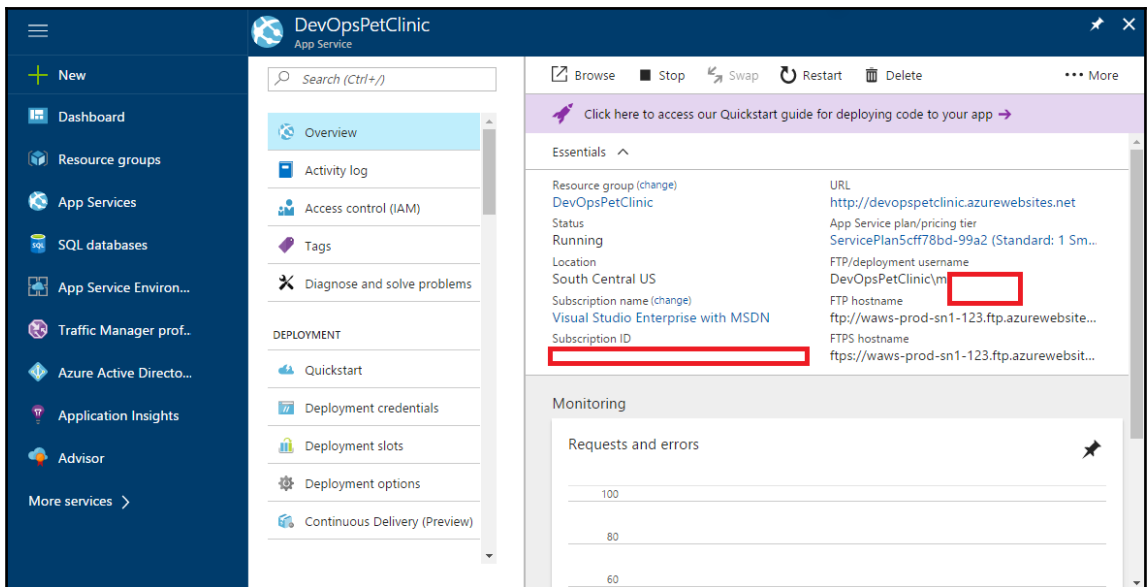
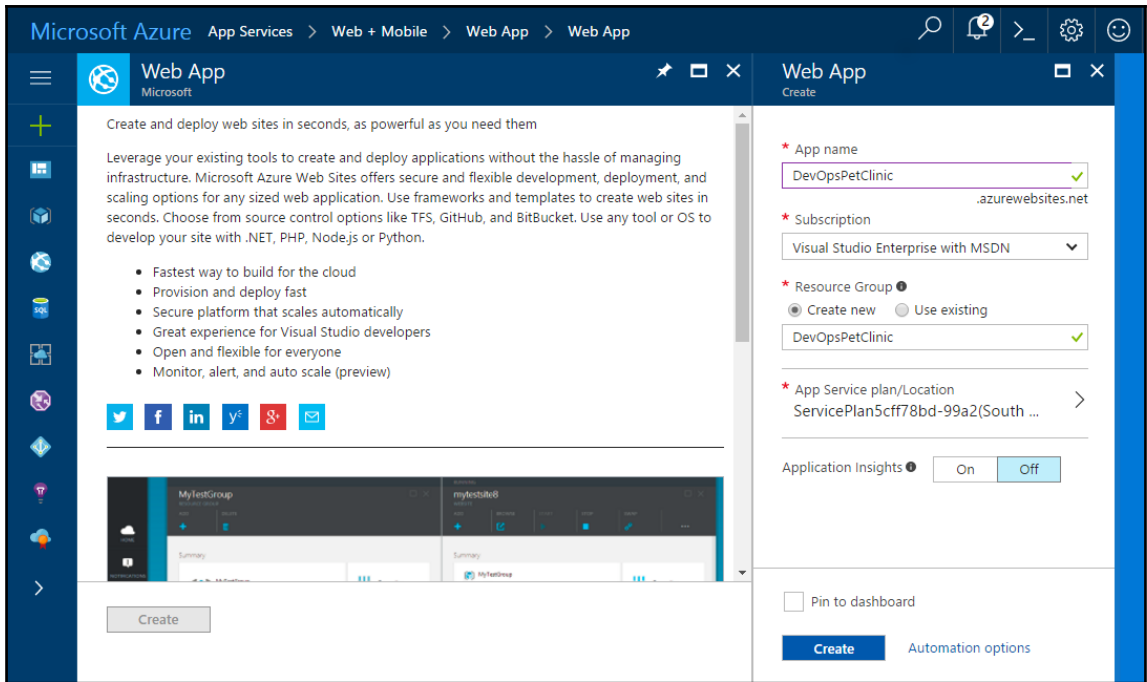
Leverage your existing tools to create and deploy applications without the hassle of managing infrastructure. Microsoft Azure Web Sites offers secure and flexible development, deployment, and scaling options for any sized web application. Use frameworks and templates to create web sites in seconds. Choose from source control options like TFS, GitHub, and BitBucket. Use any tool or OS to develop your site with .NET, PHP, Node.js or Python.

- Fastest way to build for the cloud
- Provision and deploy fast
- Secure platform that scales automatically
- Great experience for Visual Studio developers
- Open and flexible for everyone
- Monitor, alert, and auto scale (preview)



Create





Microsoft Azure App Services

App Services  
miteshsoni83outlook (Default Directory)

+ Add Columns Refresh

Subscriptions: Visual Studio Enterprise with MSDN – Don't see a subscription? [Switch directories](#)

Filter by name... All locations No grouping

1 items

NAME	STATUS	LOCATION	APP TYPE	APP SERVICE PLAN
DevOpsPetClinic	Running	South Central US	Web app	ServicePlan5cff78bd-...

DevOpsPetClinic - Application settings  
App Service

Save Discard

Search (Ctrl+/)

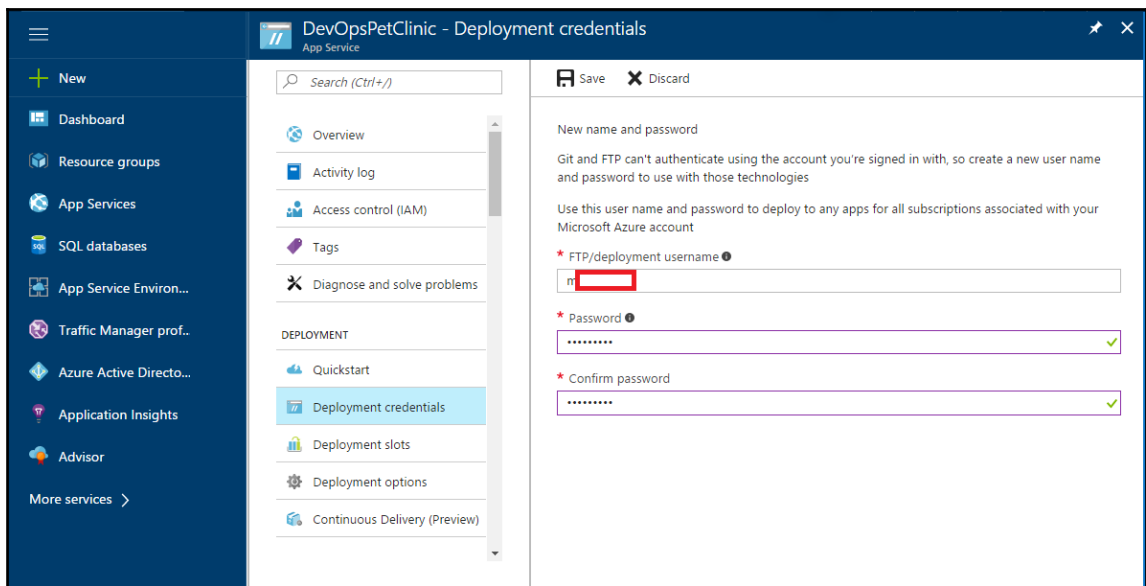
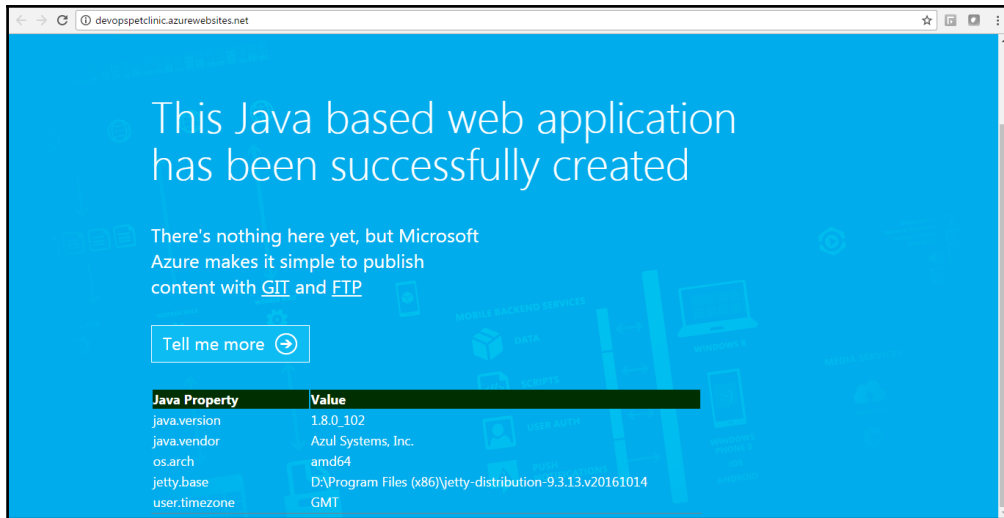
Deployment options  
Continuous Delivery (Preview)

SETTINGS

- Application settings
- Authentication / Authorization
- Backups
- Custom domains
- SSL certificates
- Networking
- Scale up (App Service plan)
- Scale out (App Service plan)
- WebJobs

General settings

- .NET Framework version: v4.6
- PHP version: 5.6
- Java version: Java 8
- Java Minor version: Newest
- Web container: Newest Jetty 9.3
- Python version: Off
- Platform: 32-bit 64-bit
- Web sockets: Off On
- Always On: Off On
- Managed Pipeline Version: Integrated Classic



### Publish over FTP

FTP Servers

FTP Server	
Name	<input type="text" value="AzureWebApps"/> ?
Hostname	<input type="text" value="waws-prod-sn1-039.ftp.azurewebsites.1"/> ?
Username	<input type="text" value="DevOpsPetClinic\m12539666"/> ?
Password	<input type="password" value="....."/> ?
Remote Directory	<input type="text" value="\\site\wwwroot\webapps"/> ?

Success

General Source Code Management Build Triggers **Build Environment** Build Post-build Actions

### Post-build Actions

**Send build artifacts over FTP** X ?

FTP Publishers

FTP Server	
Name	<input type="text" value="AzureWebApps"/> ?
<input type="button" value="Advanced..."/>	

Transfers

Transfer Set	
Source files	<input type="text" value="**/*.war"/> ?
Remove prefix	<input type="text" value="target"/> ?
Remote directory	<input type="text"/> ?

https://devopspetclinic.scm.azurewebsites.net/DebugConsole

Kudu Environment Debug console Process explorer Tools Site extensions Mitesh Soni

... / webapps + | 3 items

	Name	Modified	Size
	ROOT	7/31/2016, 12:34:13 PM	
	spring-petclinic-4.2.5-SNAPSHOT	7/31/2016, 3:11:54 PM	
	spring-petclinic-4.2.5-SNAPSHOT.war	7/31/2016, 3:11:50 PM	40946 KB

Use old console

```

Kudu Remote Execution Console
Type 'exit' then hit 'enter' to get a new CMD process.
Type 'cls' to clear the console

Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

D:\home>

```

Jenkins > PetClinic-FuncTest >

General Source Code Management Build Triggers Build Environment Pre Steps Build Post Steps Build Settings

Post-build Actions

Promotion process

Name

Visible

Icon

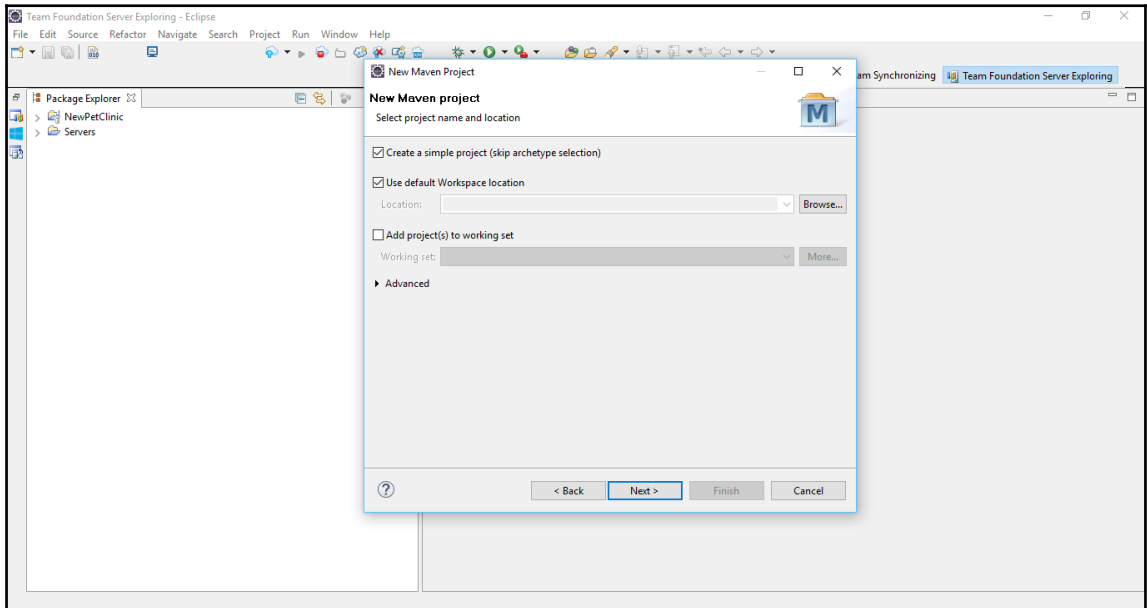
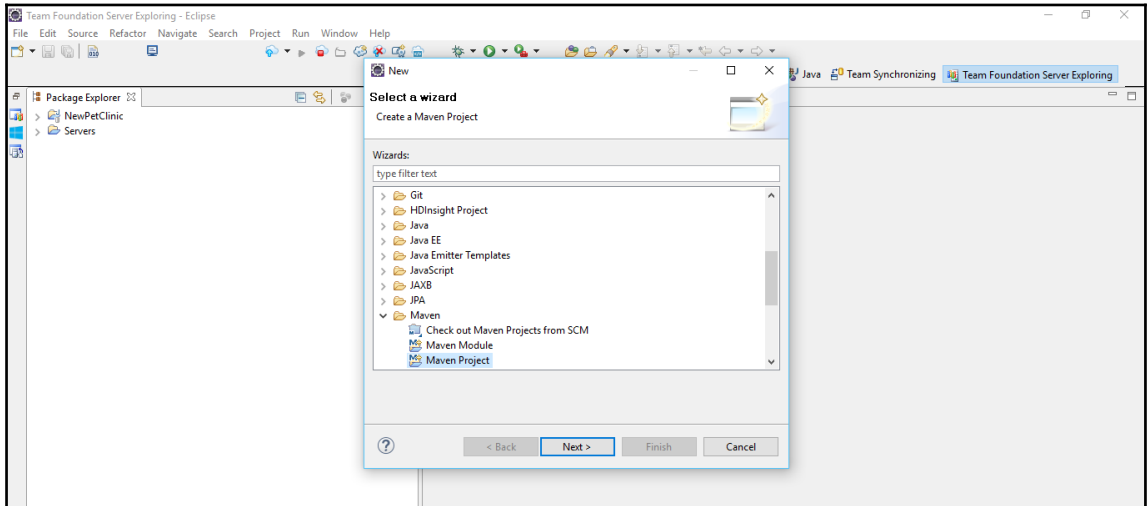
Restrict where this promotion process can be run

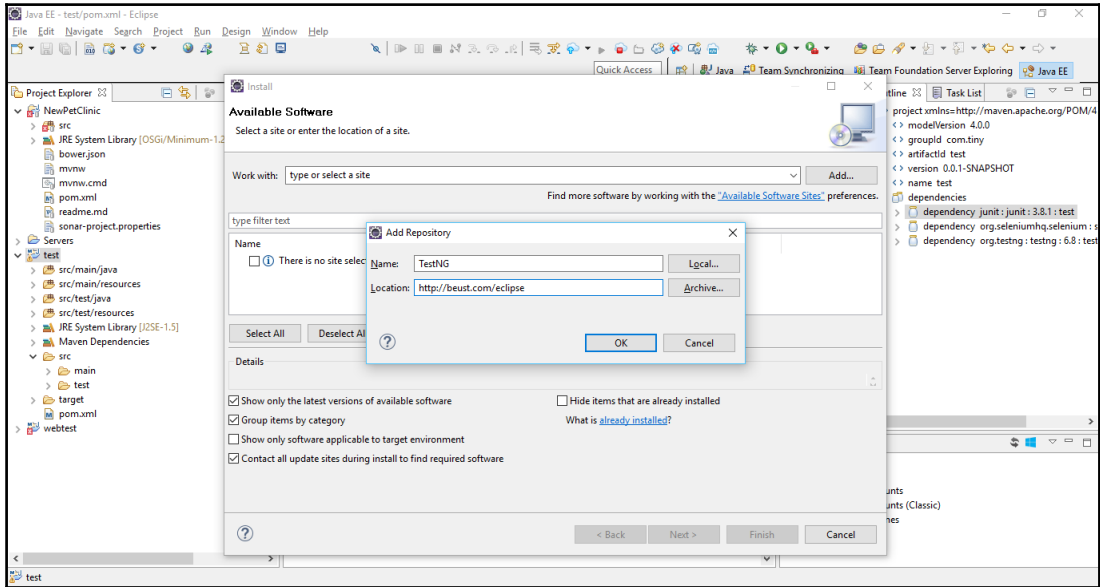
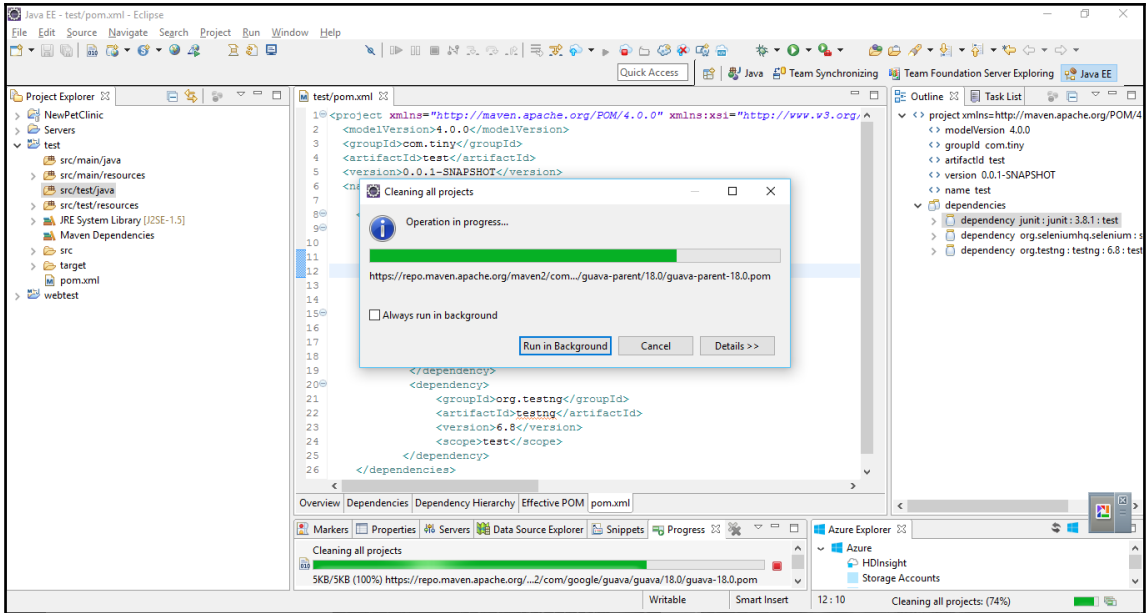
Criteria

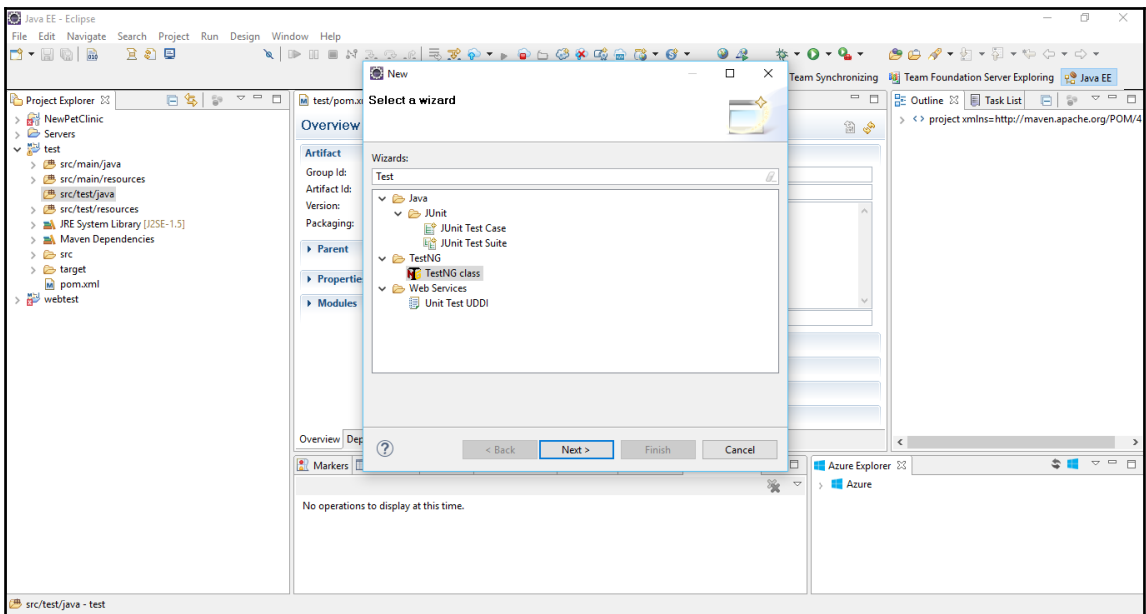
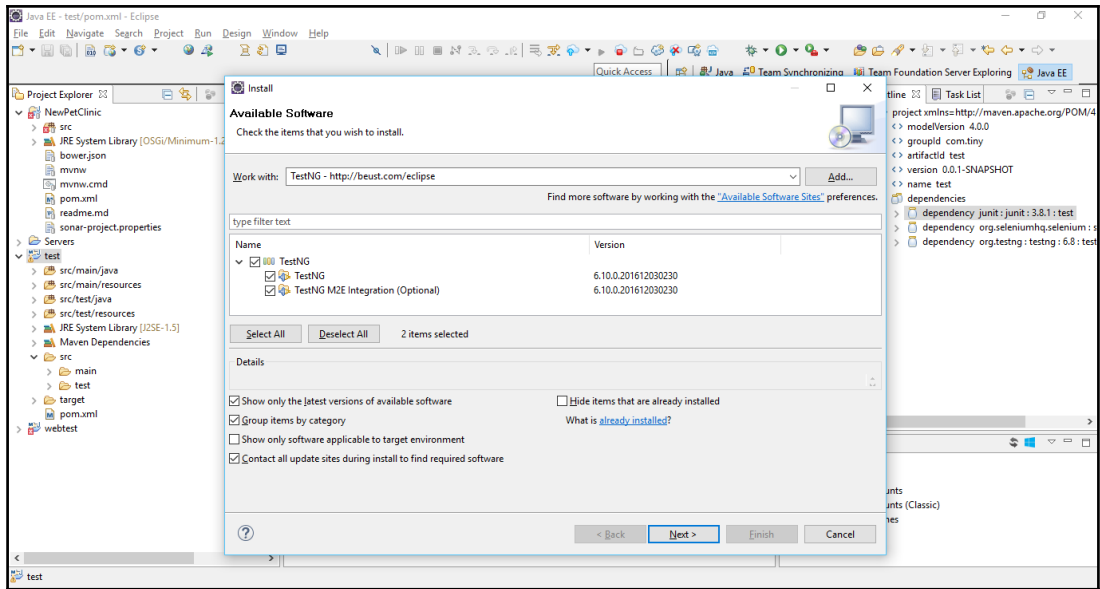
- Custom Groovy script
- Only when manually approved
- Promote immediately once the build is complete
  - Trigger even if the build is unstable
- Promote immediately once the build is complete based on build parameters
- When the following downstream projects build successfully
- When the following upstream promotions are promoted

Save Apply

# Chapter 07: Continuous Testing









**New TestNG class**

Specify additional information about the test class.

Source folder:

Package name:

Class name:

Annotations

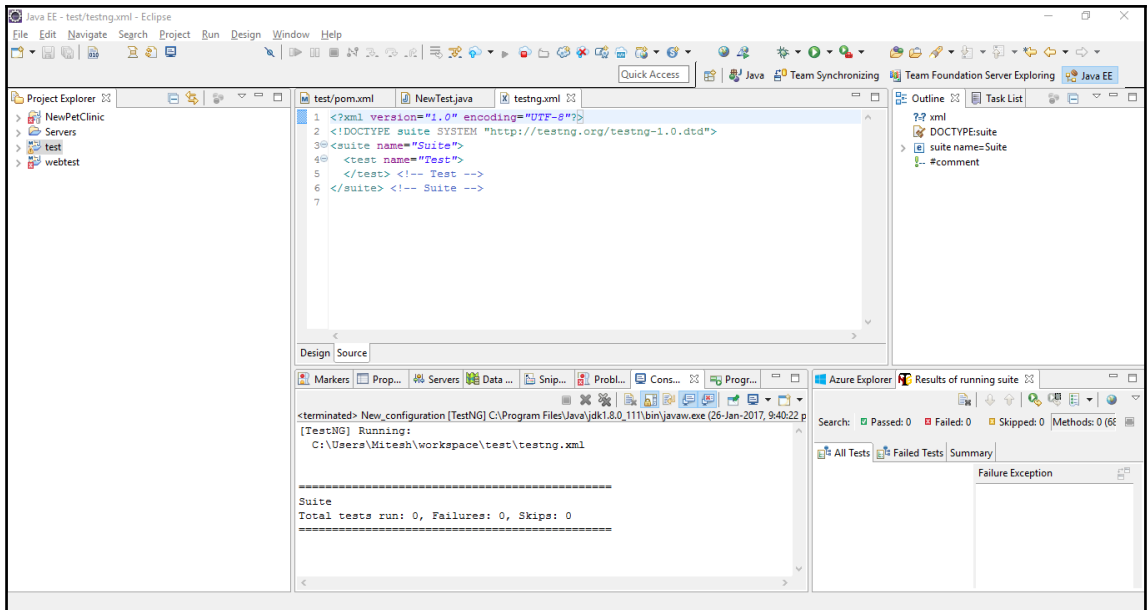
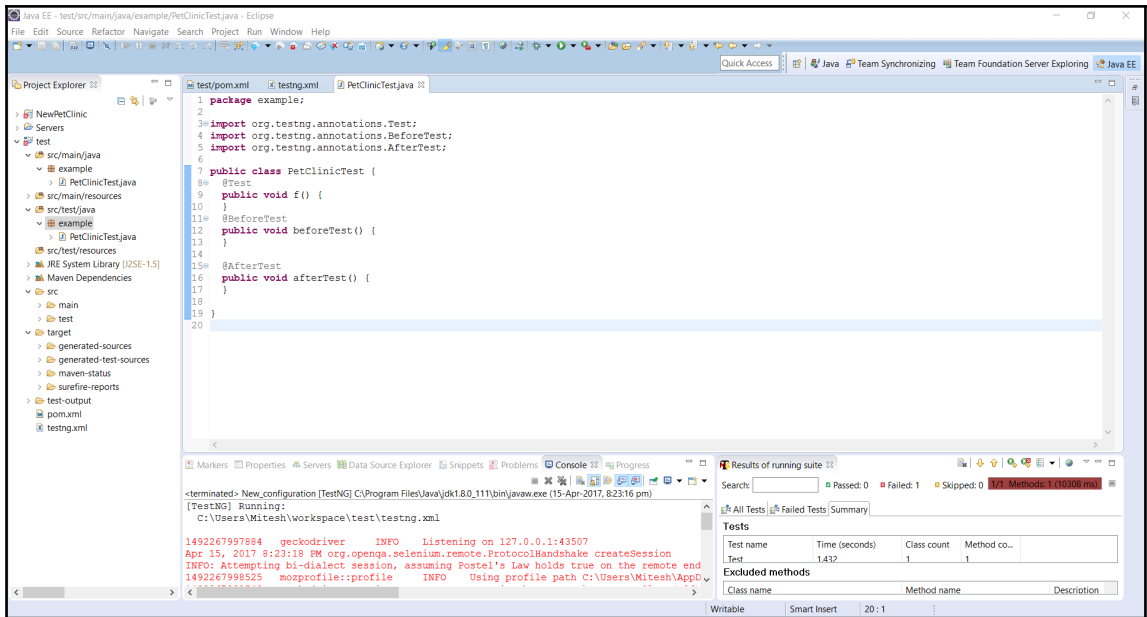
@BeforeMethod    @AfterMethod    @DataProvider

@BeforeClass    @AfterClass

@BeforeTest    @AfterTest

@BeforeSuite    @AfterSuite

XML suite file:



```

Java EE - test\src\test\java\example\PetClinicTest.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access Java Team Synchronizing Team Foundation Server Exploring Java EE
Markers Properties Servers Data Source Explorer Snippets Problems Console Progress
<terminated> New configuration [TestNG] C:\Program Files\Java\jdk1.8.0_111\bin\javaw.exe (15-Apr-2017, 8:59:38 pm)
[TestNG] Running:
  C:\Users\Mitesh\workspace\test\testng.xml
1492270179365 geckodriver INFO Listening on 127.0.0.1:29343
Apr 15, 2017 8:59:39 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end
1492270179982 mozprofile:profile INFO Using profile path C:\Users\Mitesh\AppData\Local\Temp\mozprofile.X8rdJ5Tc0m7
1492270179986 geckodriver:marionette INFO Starting browser C:\Program Files (x86)\Mozilla Firefox\firefox.exe
1492270179991 geckodriver:marionette INFO Connecting to Marionette on localhost:49623
[ORX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
1492270181969 Marionette INFO Listening on port 49623
[ORX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
Apr 15, 2017 8:59:51 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
JavaScript warning: http://localhost:8090/petclinic/vendors/jquery/jquery.min.js:sessionId=CD705AD79644BC5D2E602600C627A4, line 1: Using //& to indicate sourceMappingURL pragmas is deprecated
1492270209963 Marionette INFO New connections will no longer be accepted
[Child 15156] ##### ABORT: Aborting on channel error.: file c:\builds\moz2_slave/m-rel-w32-0000000000000000/build/src/ipc/glue/MessageChannel.cpp, line 2143

Suite
Total tests run: 1, Failures: 0, Skips: 0
=====

```

```

Java EE - test\src\test\java\example\PetClinicTest.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access Java Team Synchronizing Team Foundation Server Exploring Java EE
Project Explorer
  test\pom.xml
  test\testng.xml
  PetClinicTest.java
  NewPetClinic
  Servers
  test
    src/main/java
    src/main/resources
    src/test/java
      example
        PetClinicTest.java
          PetClinicTest
            driver
            afterTest() void
            beforeTest() void
            testPetClinic() void
    src/test/resources
  WE System Library [J2SE-1.5]
  Maven Dependencies
  src
  main
  test
  target
    generated-sources
    generated-test-sources
    maven-status
    surefire-reports
    test-output
    pom.xml
    testng.xml
test\pom.xml
test\testng.xml
1 package example;
2 import java.io.File;
3
4 public class PetClinicTest {
5     private WebDriver driver;
6
7     @Test
8     public void testPetClinic() {
9         driver.get("http://localhost:8090/petclinic/");
10        String title = driver.getTitle();
11        Assert.assertTrue(title.contains(" Spring Framework"));
12    }
13
14    @BeforeTest
15    public void beforeTest() {
16        File file = new File("F:\\##DevOpsBootCamp\\geckodriver-w0.13.0-win64\\geckodriver.exe");
17        System.setProperty("webdriver.gecko.driver", file.getAbsolutePath());
18        driver = new FirefoxDriver();
19    }
20
21    @AfterTest
22    public void afterTest() {
23        driver.quit();
24    }
25
26
27
28
}
Results of running suite
Search:
Passed: 1 Failed: 0 Skipped 0 [7: Method: 1 (3386ms)]
All Tests [0 Failed Tests] Summary
Suite ( 1/0/0 ) (17.237 s)
Failure Exception
Test ( 17.237 s)
example\PetClinicTest
testPetClinic (17.237 s)
<terminated> New configuration [TestNG] C:\Program Files\Java\jdk1.8.0_111\bin\javaw.exe (15-Apr-2017, 8:59:38 pm)
[TestNG] Running:
  C:\Users\Mitesh\workspace\test\testng.xml
1492270179365 geckodriver INFO Listening on 127.0.0.1:29343
Apr 15, 2017 8:59:39 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end
1492270179982 mozprofile:profile INFO Using profile path C:\Users\Mitesh\AppData
1492270179986 geckodriver:marionette INFO Starting browser C:\Program Files (x86)
1492270179991 geckodriver:marionette INFO Connecting to Marionette on localhost:4
[ORX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0
1492270181969 Marionette INFO Listening on port 49623
[ORX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0
Apr 15, 2017 8:59:51 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C

```

```

Java EE - test/src/test/java/example/PetClinicTest.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access Java Team Synchronizing Team Foundation Server Exploring Java EE
Markers Properties Servers Data Source Explorer Snippets Problems Console Progress
<terminated> New_configuration [TestNG] C:\Program Files\Java\jdk1.8.0_111\bin\javaw.exe (15-Apr-2017, 9:01:31 pm)
[TestNG] Running:
C:\Users\Mitesh\workspace\test\testng.xml

1492270293305 geckodriver INFO Listening on 127.0.0.1:48101
Apr 15, 2017 9:01:33 PM org.opengau.selenium.remote.ProtocolHandshake createSession
INFO: Attempting bi-dialect session, assuming Foxtel's Law holds true on the remote end
1492270294014 mozprofile:profile INFO Using profile path C:\Users\Mitesh\AppData\Local\Temp\rust_mozprofile.7DuMK9qMoby
1492270294018 geckodriver:marionette INFO Starting browser C:\Program Files\Mozilla Firefox\Firefox.exe
1492270294100 geckodriver:marionette INFO Connecting to Marionette on localhost:49679
[GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
1492270301548 Marionette INFO Listening on port 49679
[GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
Apr 15, 2017 9:01:54 PM org.opengau.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
JavaScript warning: http://localhost:8090/petclinic/vendors/jquery/jquery.min.js:jsessionid=C30BB777FF19B0D7CF60409E9C6E7601, line 1: Using //& to indicate sourceMappingURL pragmas i
1492270326107 Marionette INFO New connections will no longer be accepted
[Child 4368] ##### ABORT: Aborting on channel error.: file c:/builds/moz2_slave/m-rel-w32-0000000000000000/build/src/IPC/glue/MessageChannel.cpp, line 2143

=====
Suite
Total tests run: 1, Failures: 1, Skips: 0
=====

```

```

Java EE - test/src/test/java/example/PetClinicTest.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access Java Team Synchronizing Team Foundation Server Exploring Java EE
Project Explorer test/pom.xml testng.xml PetClinicTest.java
NewPetClinic
Servers
test
src/main/java
src/main/resources
src/test/java
example
PetClinicTest.java
PetClinicTest
driver
afterTest0() void
beforeTest0() void
testPetClinic0() void
src/test/resources
JRE System Library (J2SE-1.5)
Maven Dependencies
src
main
test
target
generated-sources
generated-test-sources
maven-status
surefire-reports
test-output
pom.xml
testng.xml
Markers Properties Servers Data Source Explorer Snippets Problems Console Progress
Results of running suite
Search: Passed: 0 Failed: 1 Skipped: 0 1/1 Methods (1/37444 ms)
All Tests Failed Tests Summary
Suite (0/1/0/0) (9.86 s) Failure Exception
Test (9.86 s)
example.PetClinicTest
testPetClinic (9.86 s)
<terminated> New_configuration [TestNG] C:\Program Files\Java\jdk1.8.0_111\bin\javaw.exe (15-Apr-2017, 9:01:31 pm)
14922702901548 Marionette INFO Listening on port 49679
[GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
Apr 15, 2017 9:01:54 PM org.opengau.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
JavaScript warning: http://localhost:8090/petclinic/vendors/jquery/jquery.min.js:jsessi
1492270326107 Marionette INFO New connections will no longer be accepted
[Child 4368] ##### ABORT: Aborting on channel error.: file c:/builds/moz2_slave/m-rel-
=====
Suite
Total tests run: 1, Failures: 1, Skips: 0
=====

```

Filter:

Updates **Available** Installed Advanced

Install ↓	Name	Version
<input checked="" type="checkbox"/>	<a href="#">TestNG Results Plugin</a>	1.14






Update information obtained: 17 hr ago

**Jenkins** Open Blue Ocean 1 search admin | log out

Jenkins > All >

**Enter an item name**

» Required field

- 
**Freestyle project**  
 This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- 
**Maven project**  
 Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- 
**Pipeline**  
 Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- 
**External Job**  
 This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.
- 
**Multi-configuration project**  
 Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Jenkins > PetClinic-FuncTest >

General Source Code Management Build Triggers Build Environment Pre Steps **Build** Post Steps Build Settings

Post-build Actions

### Build

Root POM  ?

Goals and options  ?

Advanced...

### Post Steps

Run only if build succeeds  Run only if build succeeds or is unstable  Run regardless of build result

Should the post-build steps run only for successful builds, etc.

Add post-build step ▾

### Build Settings

E-mail Notification

### Post-build Actions

Save Apply

```

-----
T E S T S
-----
Running TestSuite
1496574254522 geckodriver INFO Listening on 127.0.0.1:6486
Jun 04, 2017 4:34:14 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end
1496574255134 mozprofile::profile INFO Using profile path
C:\Users\Mitesh\AppData\Local\Temp\rust_mozprofile.t3u0Siy560nn
1496574255138 geckodriver::marionette INFO Starting browser C:\Program Files (x86)\Mozilla Firefox\firefox.exe
1496574255175 geckodriver::marionette INFO Connecting to Marionette on localhost:60430
[GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
[GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
1496574288578 Marionette INFO Listening on port 60430
Jun 04, 2017 4:34:49 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
JavaScript warning:
http://localhost:8090/petclinic/vendors/jquery/jquery.min.js:sessionId=884F4251137D820A5723530BAA688915, line 1:
Using //@ to indicate sourceMappingURL pragmas is deprecated. Use //# instead
>>>>>PetClinic :: a Spring Framework demonstration
1496574305189 Marionette INFO New connections will no longer be accepted
Jun 04, 2017 4:35:12 PM org.openqa.selenium.os.UnixProcess destroy
SEVERE: Unable to kill process with PID 10376
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 69.499 sec - in TestSuite
Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

```

PetClinic-FuncTest

General Source Code Management Build Triggers Build Environment Pre Steps **Build** Post Steps Build Settings

Post-build Actions

- Aggregate downstream test results
- Archive the artifacts
- Build other projects
- Calculate disk usage of build
- Deploy artifacts to Maven repository
- Publish Performance test result report
- Publish TestNG Results**
- Quality Gates Sonarqube Plugin
- Record fingerprints of files to track usage
- Git Publisher
- SonarQube analysis with Maven
- Deploy war/ear to a container
- Editable Email Notification
- Set GitHub commit status (universal)

Advanced...

Run regardless of build result

Save Apply

### Post-build Actions

**Publish TestNG Results** X

TestNG XML report pattern  ?

Advanced...

Add post-build action

Save Apply

Jenkins Open Blue Ocean 1 search admin | log out

Jenkins > PetClinic-FuncTest ENABLE AUTO REFRESH

- [Back to Dashboard](#)
- [Status](#)
- [Changes](#)
- [Workspace](#)
- [Build Now](#)
- [Delete Maven project](#)
- [Configure](#)
- [Modules](#)
- [Favorite](#)
- [TestNG Results](#)

**Build History** trend ▾

find

#2	Jun 4, 2017 4:48 PM	49 KB
#1	Jun 4, 2017 4:32 PM	104 KB

[RSS for all](#)
[RSS for failures](#)

## Maven project PetClinic-FuncTest

- [TestNG Results](#)
- [Workspace](#)
- [Recent Changes](#)
- [Latest Test Result \(1 failure / +1\)](#)
- Disk Usage**

Job	152 KB
All builds	152 KB
Locked builds	-
All workspaces	667 KB
Slave workspaces	667 KB

[add description](#)  
[Disable Project](#)

**Test Result Trend**

[\(just show failures\) enlarge](#)

## TestNG Results Trends

Need at least 2 builds with results to show trend graph

### Latest Test Results ([build #2](#))

- Total Tests: 1 (+1)
- Failed Tests: 0 (±0)
- Skipped Tests: 1 (+1)
  1. [example.PetClinicTest.testPetClinic](#)
- Failed Configurations: 1 (+1)
  1. [example.PetClinicTest.beforeTest](#)
- Skipped Configurations: 1 (+1)
  1. [example.PetClinicTest.afterTest](#)



Filter:

Updates **Available** Installed Advanced

Install ↓	Name	Version
<input type="checkbox"/>	<a href="#">cucumber-slack-notifier</a>	0.8.3
<input type="checkbox"/>	<a href="#">cucumber-perf</a>	2.0.9
<input checked="" type="checkbox"/>	<a href="#">Cucumber reports</a> This project provides pretty html reports for Cucumber. It works by generating html from the cucumber json report formatter. Can be used anywhere a json report is generated (Java, Ruby, JavaScript and other implementations).	3.9.0
<input checked="" type="checkbox"/>	<a href="#">Cucumber Plugin</a> run cucumber tests under jenkins CI	0.0.2
<input type="checkbox"/>	<a href="#">Cucumber Living Documentation Plugin</a> Enables Cucumber living documentation on Jenkins	1.0.9
<input type="checkbox"/>	<a href="#">Cucumber json test reporting.</a> This plugin understands cucumber json files and converts them to Jenkins TestCase so they can be seen in the standard test reports.	0.9.7
<input type="checkbox"/>	<a href="#">Cucumber Trend Reports</a> A jenkins plugin that generates trending report and statistics for a Cucumber project	1.3

Jenkins > CucumberProject >

General **Source Code Management** Build Triggers Build Environment Pre Steps Build Post Steps Build Settings

Post-build Actions

### Source Code Management

None  
 File System  
 Git

Repositories

Repository URL:

Credentials:

Branches to build

Branch Specifier (blank for 'any'):

Repository browser:

CucumberProject >

General Source Code Management Build Triggers Build Environment **Pre Steps** Build Post Steps Build Settings

Post-build Actions

### Build

Root POM pom.xml

Goals and options

Advanced...

Jenkins > CucumberProject >

General Source Code Management Build Triggers Build Environment Pre Steps Build Post Steps Build Settings

**Post-build Actions**

Cucumber reports X ?

#### JSON Report Location

Report Path

The path relative to the workspace of the json reports generated by cucumber e.g. target - leave empty to scan the whole workspace.

File Include Pattern

Default include pattern is `**/*.json`.

File Exclude Pattern

Nothing is excluded by default.

Limit for trends

How many last builds is displayed in trends section. Set to zero so no limit will be applied

**Build Result**

This section allows to configure when the build is marked as failed or unstable. Result is changed when at least one of below rule is true.

Tests run: 16, Failures: 2, Errors: 0, Skipped: 0

**[ERROR] There are test failures.**

Please refer to F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\CucumberProject\ [REDACTED] \target\surefire-reports for the individual test results.

[JENKINS] Recording test results

Started calculate disk usage of build

Finished Calculation of disk usage of build in 0 seconds

Started calculate disk usage of workspace

Finished Calculation of disk usage of workspace in 0 seconds

[INFO] -----

[INFO] BUILD SUCCESS

[INFO] -----

[INFO] Total time: 6.072 s

[INFO] Finished at: 2017-08-13T19:26:15+05:30

[INFO] Final Memory: 13M/130M

[INFO] -----

[JENKINS] Archiving F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\CucumberProject\ [REDACTED] \pom.xml to [REDACTED] /0.0.1-SNAPSHOT/[REDACTED]-0.0.1-SNAPSHOT.pom

channel stopped

[CucumberReport] Preparing Cucumber Reports

[CucumberReport] JSON report directory is ""

[CucumberReport] Copied 5 json files from workspace

"F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\CucumberProject" to reports directory

"F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\jobs\CucumberProject\builds\6\cucumber-html-reports\cache"

[CucumberReport] Processing 1 json files:

[CucumberReport] F:\1.DevOps2016\#JenkinsEssentials\FirstDraft\jenkinsHome\jobs\CucumberProject\builds\6\cucumber-html-reports\cache\ [REDACTED] \target\cucumber.json

[CucumberReport] Found 1 failed steps, while expected not more than 0

[CucumberReport] Build status is left unchanged

Started calculate disk usage of build

Finished Calculation of disk usage of build in 0 seconds

Started calculate disk usage of workspace

Finished Calculation of disk usage of workspace in 0 seconds

Jenkins > CucumberProject > ENABLE AUTO REFRESH

## Maven project CucumberProject

- [Back to Dashboard](#)
- [Status](#)
- [Changes](#)
- [Workspace](#)
- [Build Now](#)
- [Delete Maven project](#)
- [Configure](#)
- [Modules](#)
- [Favorite](#)
- [Cucumber reports](#)
- [Open Blue Ocean](#)

[add description](#) [Disable Project](#)

**Disk Usage Trend**

**Test Result Trend**

[Cucumber reports](#)

[Workspace](#)

[Recent Changes](#)

[Latest Test Result \(2 failures / ±0\)](#)

**Disk Usage**

- Job
- All builds
- Locked builds
- All workspaces
- Slave workspaces
- Non-slave workspaces

**Build History** [trend](#)

find			
#6	Aug 13, 2017 7:26 PM	2 MB	
#5	Aug 13, 2017 7:24 PM	2 MB	
#4	Aug 13, 2017 7:23 PM	2 MB	
#3	Aug 13, 2017 7:22 PM	46 KB	

[\(just show failures\)](#) [enlarge](#)

Cucumber Report

Jenkins Previous results Latest results **Features** Tags Steps Trends Failures

Project	Number	Date
CucumberProject	6	13 Aug 2017, 19:26

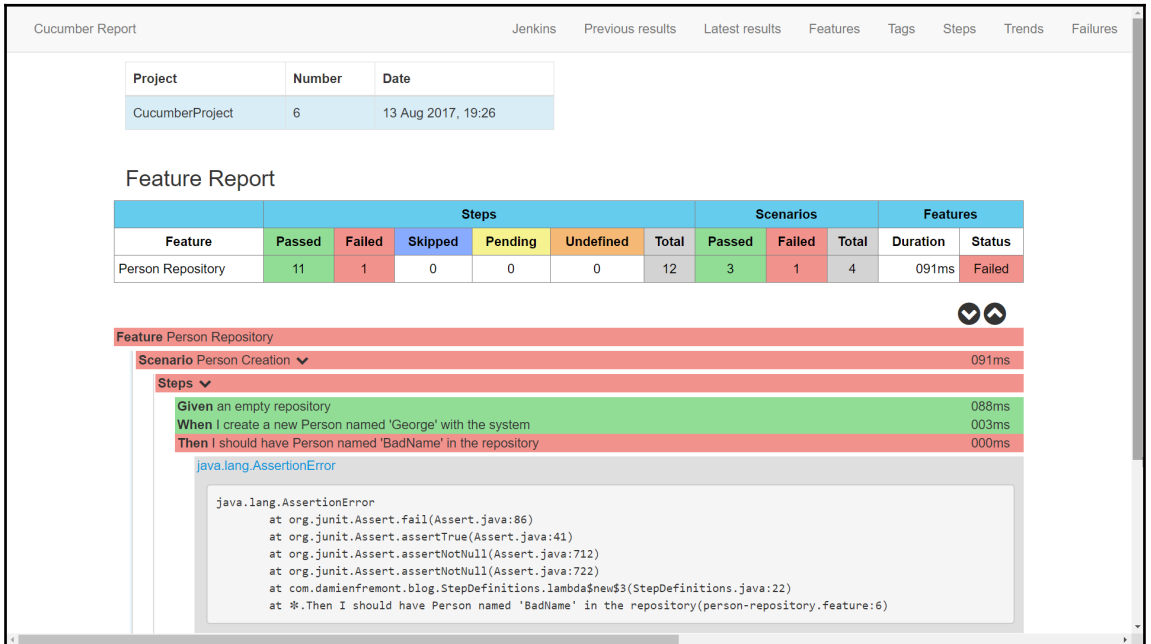
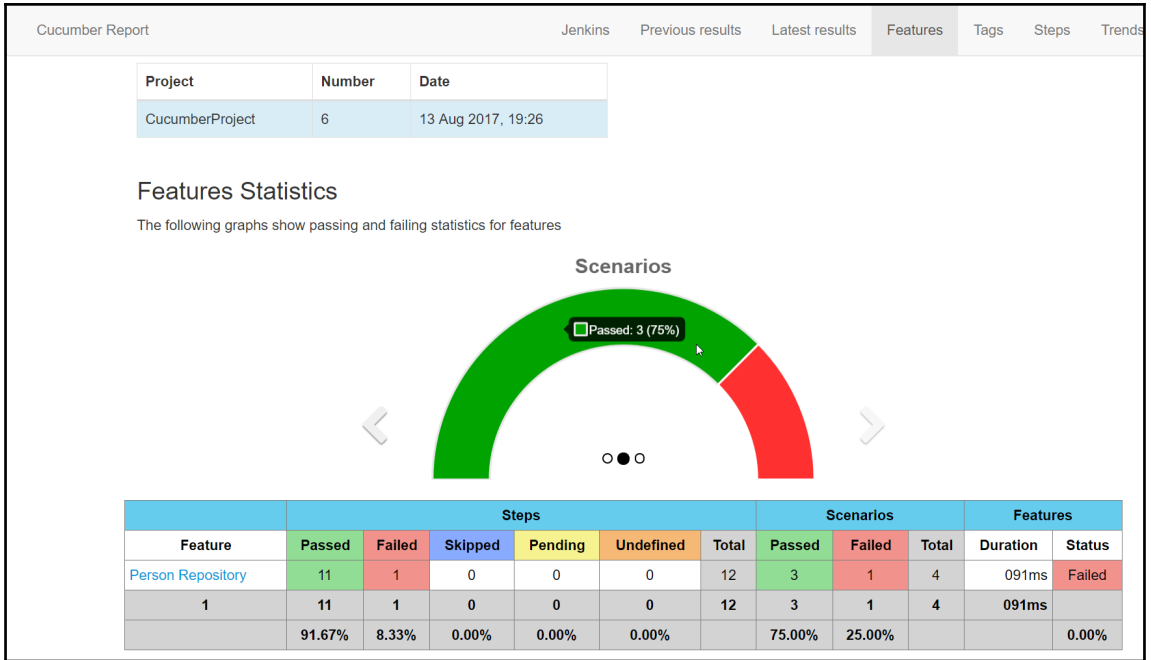
### Features Statistics

The following graphs show passing and failing statistics for features

**Steps**

Feature	Steps					Total	Scenarios			Features	
	Passed	Failed	Skipped	Pending	Undefined		Passed	Failed	Total	Duration	Status
Person Repository	11	1	0	0	0	12	3	1	4	091ms	Failed
1	11	1	0	0	0	12	3	1	4	091ms	
	91.67%	8.33%	0.00%	0.00%	0.00%		75.00%	25.00%			0.00%

generate Cucumber HTML reports via: Jenkins Plugin | Standalone | Sandwich | Maven



Cucumber Report Jenkins Previous results Latest results Features Tags Steps Trends

**Feature** Person Repository ⏮ ⏭

**Scenario** Person Creation 091ms

**Steps** ⏮ ⏭

Given an empty repository 088ms

When I create a new Person named 'George' with the system 003ms

Then I should have Person named 'BadName' in the repository 000ms

```

java.lang.AssertionError
  java.lang.AssertionError
    at org.junit.Assert.fail(Assert.java:86)
    at org.junit.Assert.assertTrue(Assert.java:41)
    at org.junit.Assert.assertNotNull(Assert.java:712)
    at org.junit.Assert.assertNotNull(Assert.java:722)
    at com.damienfreemont.blog.StepDefinitions.lambda$new$3(StepDefinitions.java:22)
    at *.Then I should have Person named 'BadName' in the repository(person-repository.feature:6)
          
```

**Scenario Outline** Person Creation Examples 000ms

**Steps** ⏮ ⏭

Given a repository 000ms

When I create a new Person named 'Pierre' with the system 000ms

Then I should have Person named 'Pierre' in the repository 000ms

**Scenario Outline** Person Creation Examples 000ms

**Steps** ⏮ ⏭

Given a repository 000ms

When I create a new Person named 'Paul' with the system 000ms

Then I should have Person named 'Paul' in the repository 000ms

Cucumber Report Jenkins Previous results Latest results Features Tags Steps Trends Failures

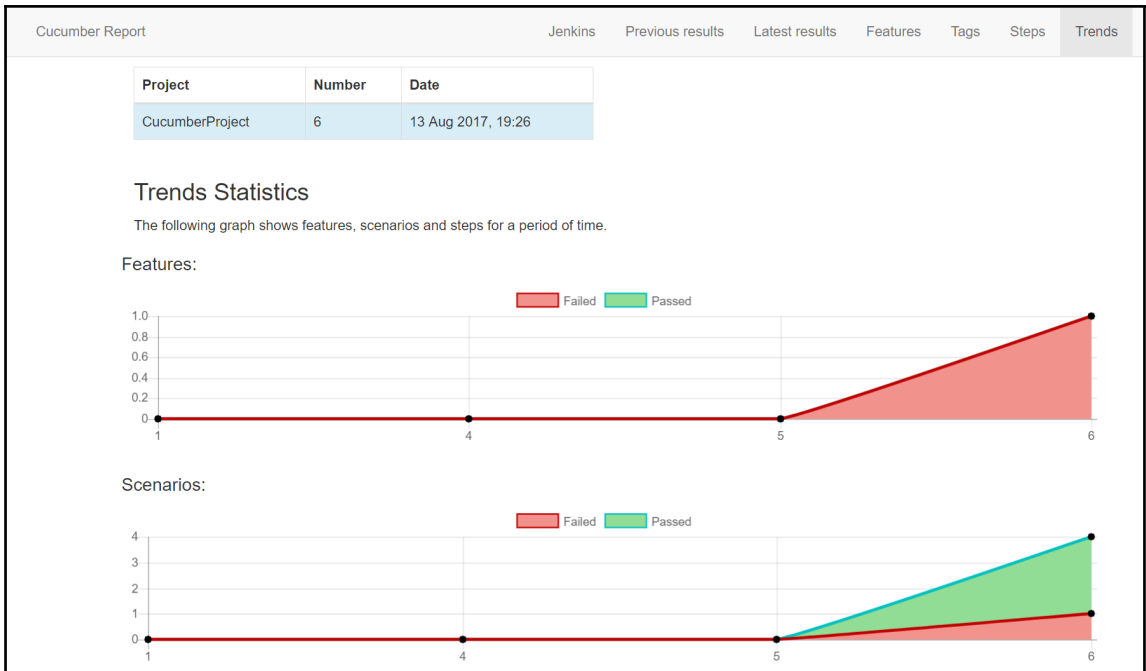
Project	Number	Date
CucumberProject	6	13 Aug 2017, 19:26

### Steps Statistics

The following graph shows step statistics for this build. Below list is based on results. step does not provide information about result then is not listed below. Additionally @Before and @After are not counted because they are part of the scenarios, not steps.

Implementation	Occurrences	Duration	Average	Ratio
StepDefinitions.java:14	1	088ms	088ms	100.00%
StepDefinitions.java:16	3	000ms	000ms	100.00%
StepDefinitions.java:18	4	003ms	000ms	100.00%
StepDefinitions.java:21	4	000ms	000ms	75.00%
<b>4</b>	<b>12</b>	<b>091ms</b>	<b>007ms</b>	<b>Totals</b>

generate Cucumber HTML reports via: Jenkins Plugin | Standalone | Sandwich | Maven



NetClinic.exe (C:\Users\Mtresh\Desktop\NetClinic.exe) - Apache JMeter (3.0-r1743907)

File Edit Search Run Options Help

Test Plan Thread Group HTTP Request Workbook

#### HTTP Request

Name: HTTP Request  
Comments:

Basic Advanced

Web Server  
Server Name or IP: localhost Port Number: 8090 Connect Response: Timeout (milliseconds)

HTTP Request  
Implementation: Protocol (http) Method: GET Content encoding:

Path: /petclinic  
 Redirect Automatically  Follow Redirects  Use Files Alive  Use multipart-form-data for POST  Browser-compatible headers

Parameters Body Data Files Upload

Send Parameters With the Request:

Name	Value	Encode?	Include Equals?

Detail Add Add from Clipboard Delete Up Down






Proxy Server  
Server Name or IP: Port Number: Username: Password:

Jenkins Open Blue Ocean 1  admin | [log out](#)

Jenkins > All >

### Enter an item name

*» Required field*

- 
**Freestyle project**  
 This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- 
**Maven project**  
 Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- 
**Pipeline**  
 Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- 
**External Job**  
 This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.
- 
**Multi-configuration project**  
 Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Jenkins > PetClinic-LoadTest >

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

### Build

**Execute Windows batch command** X ?

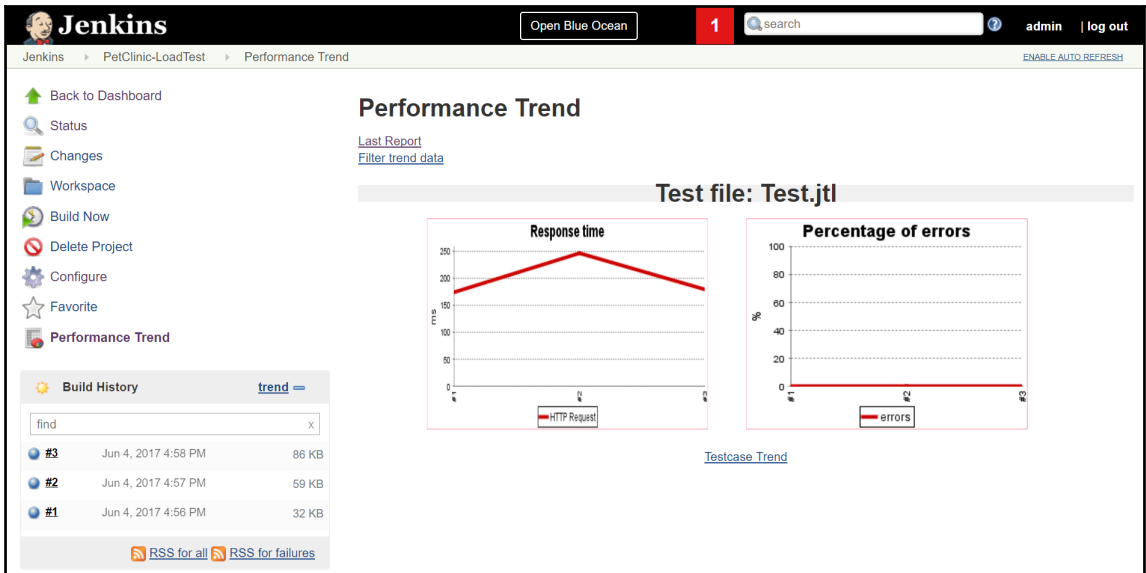
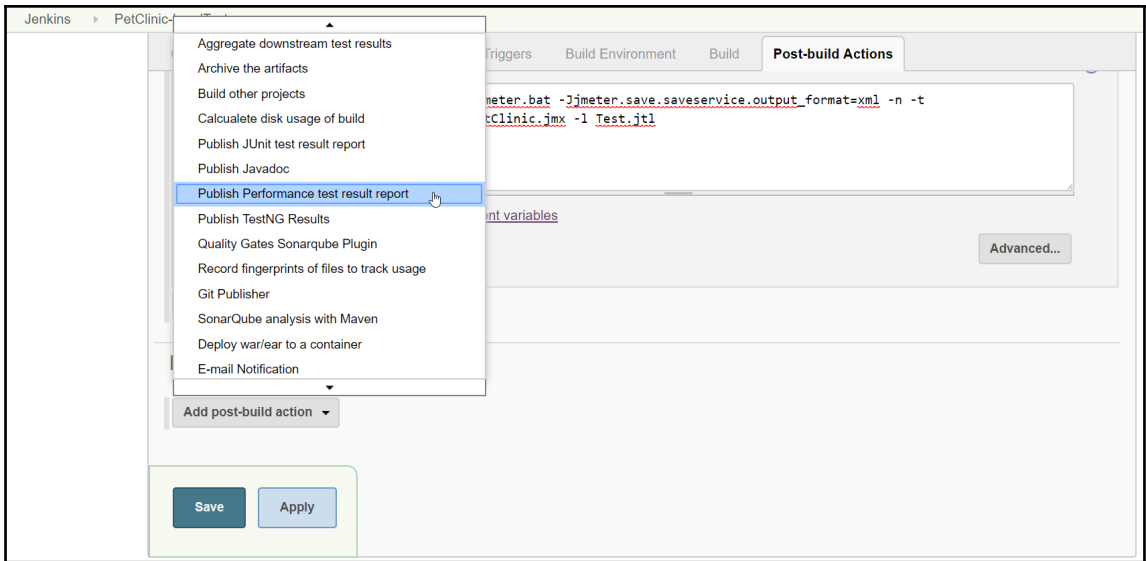
Command

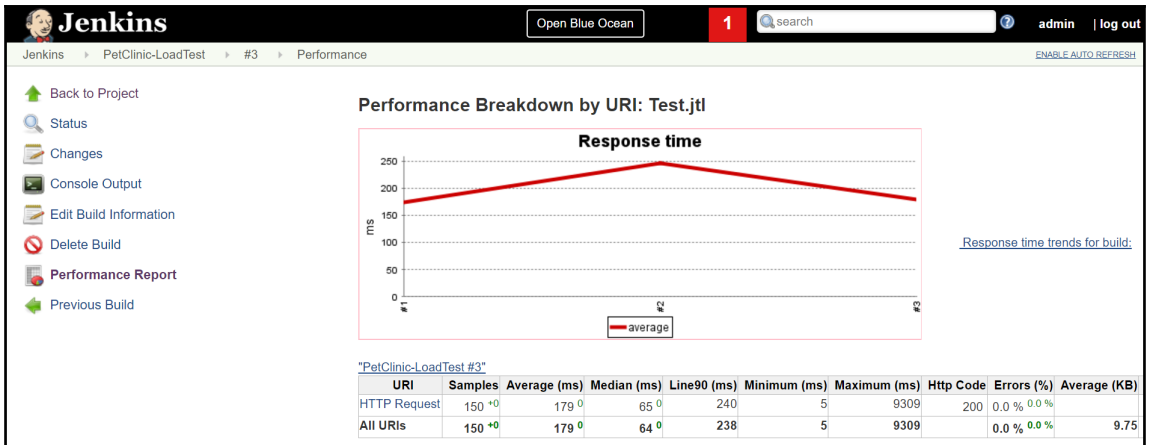
```
C:\apache-jmeter-3.0\bin\jmeter.bat -Jjmeter.save.saveservice.output_format=xml -n -t
C:\Users\Mitesh\Desktop\PetClinic.jmx -l Test.jtl
```

See the [list of available environment variables](#)

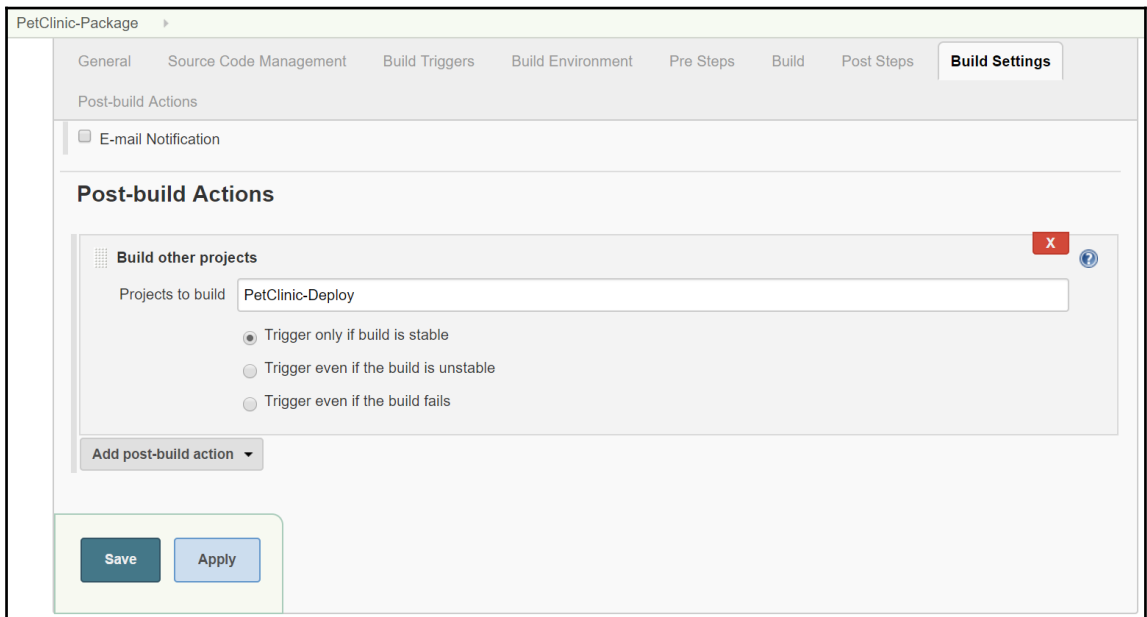
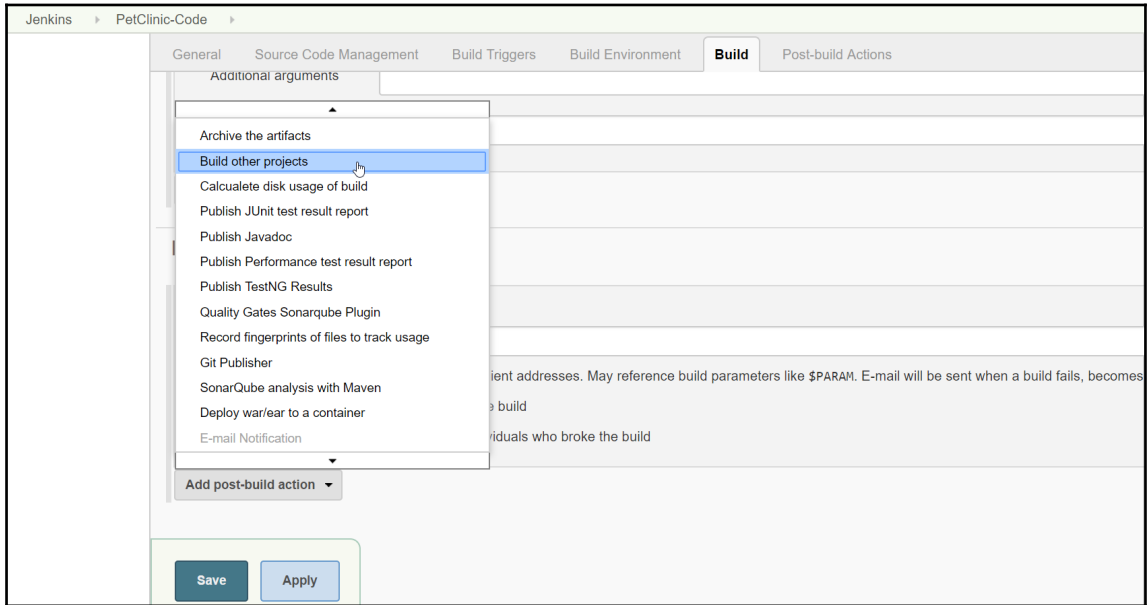
### Post-build Actions







# Chapter 08: Orchestration



PetClinic-Deploy

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

Tomcat URL

Add Container ▾

Deploy on failure

**Build other projects** ✖ ?

Projects to build

- Trigger only if build is stable
- Trigger even if the build is unstable
- Trigger even if the build fails

Add post-build action ▾

PetClinic-FuncTest

General Source Code Management Build Triggers Build Environment Pre Steps Build Post Steps Build Settings

**Post-build Actions**

**Publish TestNG Results** ✖ ?

TestNG XML report pattern

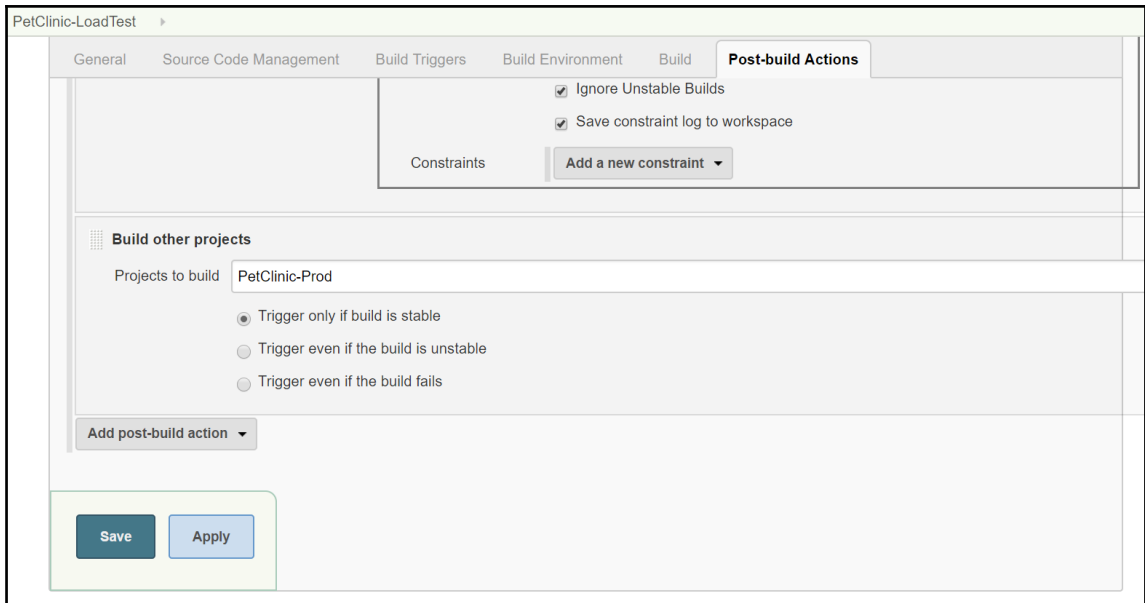
Advanced...

**Build other projects** ✖ ?

Projects to build

- Trigger only if build is stable
- Trigger even if the build is unstable
- Trigger even if the build fails







Add post-build action ▾



## Installing Plugins/Upgrades

### Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

TestNG Results Plugin	 Success
promoted builds plugin	 Success
Run Condition Plugin	 Success
Conditional BuildStep	 Success
Parameterized Trigger plugin	 Success
Build Pipeline Plugin	 Success

➡ [Go back to the top page](#)  
(you can start using the installed plugins right away)

➡ Restart Jenkins when installation is complete and no jobs are running

**Jenkins** Open Blue Ocean 1  admin log out

Jenkins > PetClinic >

- New Item
- People
- Build History
- Edit View
- Delete View
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Disk Usage
- Credentials

**Build Queue** [-]  
No builds in the queue.

**Build Executor Status** [-]

1	Idle
2	Idle

Name:

Description:

[Plain text] [Preview](#)

Filter build queue:

Filter build executors:

Build Pipeline View Title:

**Pipeline Flow**

Layout:  ?

This layout mode derives the pipeline structure based on the upstream/downstream trigger relationship between jobs. This is the only out-of-the-box supported layout mode, but is open for extension.

**Upstream / downstream config**

Select Initial Job:  ?

**OK** **Apply**

**Trigger Options**

Restrict triggers to most recent successful builds  Yes  No ?

Always allow manual trigger on pipeline steps  Yes  No ?

**Display Options**

No Of Displayed Builds:  ?

Row Headers:  ?  
Show just the build pipeline number

Column Headers:  ?  
Do not show any column headers

Refresh frequency (in seconds):  ?

URL for custom CSS files:

Console Output Link Style:  ?

**OK** **Apply**

Jenkins Open Blue Ocean 1  admin | [log out](#) ENABLE AUTO REFRESH

Jenkins > PetClinic >

## Build Pipeline

Run History Configure Add Step Delete Manage

The screenshot displays the Jenkins 'Build Pipeline' view for the 'PetClinic' project. It shows three pipeline runs stacked vertically. Each run consists of six steps: 'PetClinic-Code', 'PetClinic-Package', 'PetClinic-Deploy', 'PetClinic-FuncTest', 'PetClinic-LoadTest', and 'PetClinic-Prod'. Run #20 is in a failed state (red), run #19 is in a failed state (red), and run #18 is in a successful state (green). The 'PetClinic-Code' step in runs #19 and #18 shows a duration of 1 min 51 sec and 1 min 38 sec respectively. The other steps show 'N/A' for their status and duration.

PetClinic > PetClinic-FuncTest >

General Source Code Management Build Triggers Build Environment Pre Steps Build Post Steps Build Settings

### Post-build Actions

**Publish TestNG Results** X

TestNG XML report pattern  ?

[Advanced...](#)

**Build other projects** X ?

Projects to build

- Trigger only if build is stable
- Trigger even if the build is unstable
- Trigger even if the build fails

[Add post-build action](#) ▼

Jenkins Open Blue Ocean 1  admin log out

Jenkins > PetClinic > ENABLE AUTO REFRESH

### Build Pipeline

Run History Configure Add Step Delete Manage





Pipeline	#21 PetClinic-Code	#2 PetClinic-Package	#7 PetClinic-Deploy	#5 PetClinic-FuncTest	#4 PetClinic-LoadTest	#1 PetClinic-Prod
#21	4 Jun, 2017 5:29:47 PM 2 min 50 sec admin	4 Jun, 2017 5:32:51 PM 5 min 7 sec	4 Jun, 2017 5:38:09 PM 3 min 19 sec	4 Jun, 2017 5:48:41 PM 37 sec	4 Jun, 2017 5:49:26 PM 1 min 0 sec	4 Jun, 2017 5:50:36 PM 1 min 52 sec
#20	25 May, 2017 10:14:04 PM 23 sec admin	N/A	N/A	N/A	N/A	N/A
#19	25 May, 2017 11:05:21 AM 1 min 51 sec admin	N/A	N/A	N/A	N/A	N/A

Jenkins Open Blue Ocean 1  admin log out

Jenkins > All >

### Enter an item name

*» Required field*

- 
**Freestyle project**  
 This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- 
**Maven project**  
 Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- 
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 Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
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- Multi-configuration project**  
 Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.



General Build Triggers Advanced Project Options **Pipeline**

### Pipeline

Definition Pipeline script

Script 1

- try sample Pipeline...
- try sample Pipeline... Hello World
- GitHub + Maven**

Use Groovy Sandbox

[Pipeline Syntax](#)

Save Apply

General Build Triggers Advanced Project Options **Pipeline**

## Pipeline

Definition Pipeline script

Script

```

1 node {
2   def mvnHome
3   stage('Preparation') { // for display purposes
4     // Get some code from a GitHub repository
5     git 'https://github.com/jglick/simple-maven-project-with-tests.git'
6     // Get the Maven tool.
7     // ** NOTE: This 'M3' Maven tool must be configured
8     // ** in the global configuration.
9     mvnHome = tool 'M3'
10  }
11  stage('Build') {
12    // Run the maven build
13    if (isUnix()) {
14      sh "'${mvnHome}/bin/mvn' -Dmaven.test.failure.ignore clean package"
15    } else {
16      bat("/"${mvnHome}\bin\mvn" -Dmaven.test.failure.ignore clean package/)
17    }
18  }
19 }

```

GitHub + Maven

Use Groovy Sandbox

[Pipeline Syntax](#)

Save Apply

Jenkins > FirstPipeline > Pipeline Syntax

Back

- Snippet Generator
- Step Reference
- Global Variables Reference
- Online Documentation
- IntelliJ IDEA GDSDL

### Overview

This **Snippet Generator** will help you learn the Pipeline Script code which can be used to define various steps. Pick a step you are interested in from the list, configure it, click **Generate Pipeline Script**, and you will see a Pipeline Script statement that would call the step with that configuration. You may copy and paste the whole statement into your script, or pick up just the options you care about. (Most parameters are optional and can be omitted in your script, leaving them at default values.)

**Steps**

Sample Step: junit: Publish JUnit test result report

Test report XMLs: target/test-reports/\*.xml

Health report amplification factor: 1.0

Allow empty results:  Do not fail the build on empty test results

Retain long standard output/error

**Generate Pipeline Script**

```
junit 'target/test-reports/*.xml'
```

Jenkins Open Blue Ocean 1  admin | [log out](#)

Jenkins > FirstPipeline > ENABLE AUTO REFRESH

## Pipeline FirstPipeline

[Back to Dashboard](#)  
[Status](#)  
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[Build Now](#)  
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[Configure](#)  
[Full Stage View](#)  
[Performance Trend](#)  
[SonarQube](#)  
[Pipeline Syntax](#)

[add description](#) [Disable Project](#)

**Performance Trend**

**Throughput**

Requests Per Second

**Response time**

ms

Requests Per Second

ms

**Stage View**

**Build History** [trend](#)

find

#20	Jun 4, 2017 11:58 AM	<a href="#">B view</a>
#19	Jun 4, 2017 11:41 AM	<a href="#">MB view</a>
#18	Jun 4, 2017 11:35 AM	

[Last Successful Artifacts](#)  
 dashBoard\_Test.xml 452 MB  
 petclinic.war 39.99 MB  
[Recent Changes](#)

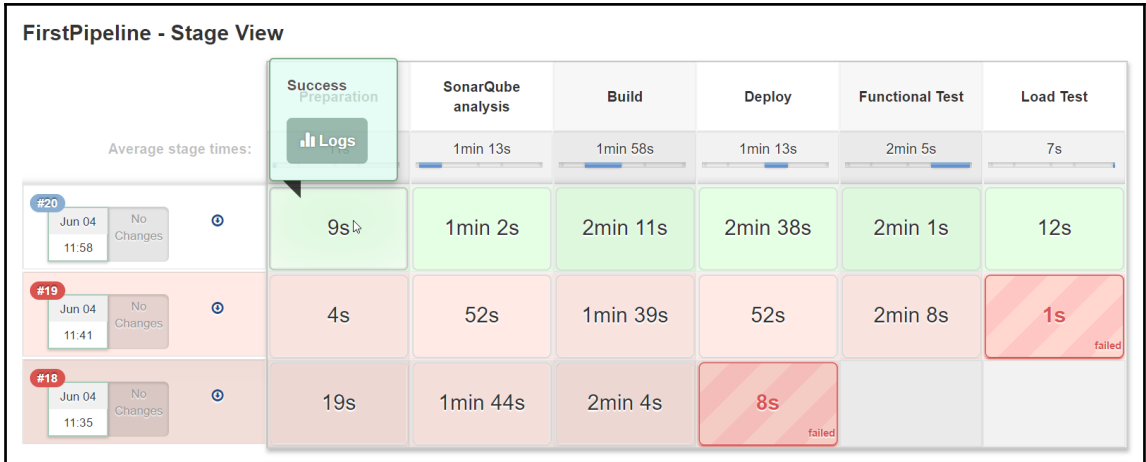
Jenkins Open Blue Ocean 1

Jenkins > FirstPipeline > Full Stage View

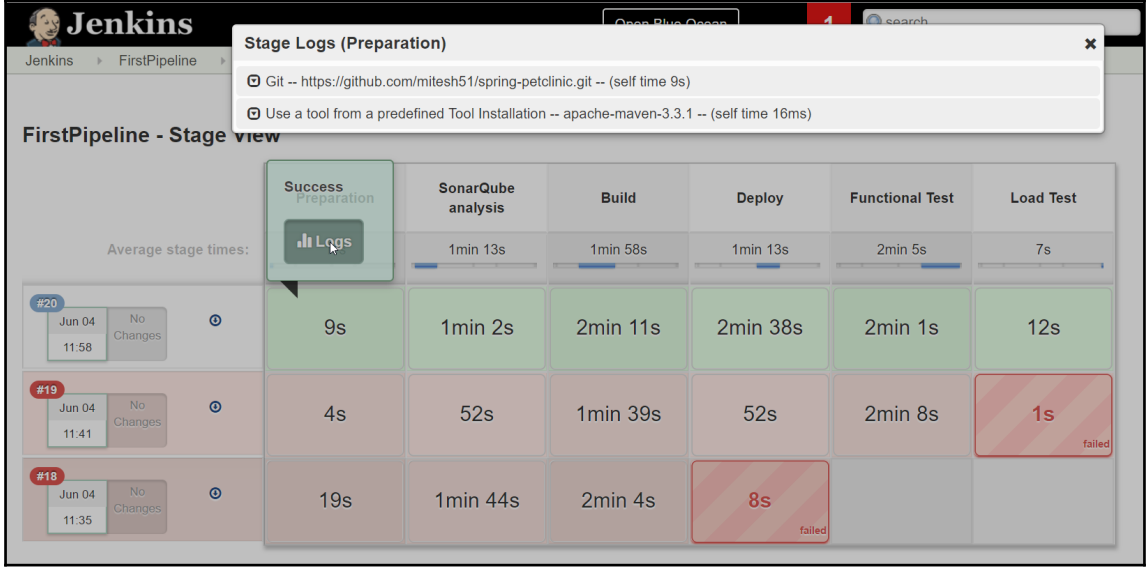
## FirstPipeline - Stage View

Average stage times:

	Preparation	SonarQube analysis	Build	Deploy	Functional Test	Load Test
Average	11s	1min 13s	1min 58s	1min 13s	2min 5s	7s
#20 Jun 04 11:58 No Changes	9s	1min 2s	2min 11s	2min 38s	2min 1s	12s
#19 Jun 04 11:41 No Changes	4s	52s	1min 39s	52s	2min 8s	1s <small>failed</small>
#18 Jun 04 11:35 No Changes	19s	1min 44s	2min 4s	8s <small>failed</small>		



>



The screenshot shows the Jenkins interface with a 'Stage Logs (Preparation)' window open. The background shows the 'FirstPipeline - Stage' view with three stages: #20 (Jun 04, 11:58, No Changes), #19 (Jun 04, 11:41, No Changes), and #18 (Jun 04, 11:35, No Changes). The 'Stage Logs (Preparation)' window displays the following content:

```
Git -- https://github.com/mitesh51/spring-petclinic.git -- (self time 9s)

> git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/mitesh51/spring-petclinic.git # timeout=10
Fetching upstream changes from https://github.com/mitesh51/spring-petclinic.git
> git.exe --version # timeout=10
> git.exe fetch --tags --progress https://github.com/mitesh51/spring-petclinic.git +refs/heads/*:refs/remotes/origin/*
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
> git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10
Checking out Revision 7262ae60875b6a7cc1b2a11d053e9423d149d36b (refs/remotes/origin/master)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 7262ae60875b6a7cc1b2a11d053e9423d149d36b
> git.exe branch -a -v --no-abbrev # timeout=10
> git.exe branch -D master # timeout=10
> git.exe checkout -b master 7262ae60875b6a7cc1b2a11d053e9423d149d36b
> git.exe rev-list 7262ae60875b6a7cc1b2a11d053e9423d149d36b # timeout=10

Use a tool from a predefined Tool Installation -- apache-maven-3.3.1 -- (self time 16ms)
```

## Console Output

```
Started by user admin
[Pipeline] node
Running on master in F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Preparation)
[Pipeline] git
  > git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
  > git.exe config remote.origin.url https://github.com/mitesh51/spring-petclinic.git # timeout=10
Fetching upstream changes from https://github.com/mitesh51/spring-petclinic.git
  > git.exe --version # timeout=10
  > git.exe fetch --tags --progress https://github.com/mitesh51/spring-petclinic.git
+refs/heads/*:refs/remotes/origin/*
  > git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
  > git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10
Checking out Revision 7262ae60875b6a7cc1b2a11d053e9423d149d36b (refs/remotes/origin/master)
  > git.exe config core.sparsecheckout # timeout=10
  > git.exe checkout -f 7262ae60875b6a7cc1b2a11d053e9423d149d36b
  > git.exe branch -a -v --no-abbrev # timeout=10
  > git.exe branch -D master # timeout=10
  > git.exe checkout -b master 7262ae60875b6a7cc1b2a11d053e9423d149d36b
  > git.exe rev-list 7262ae60875b6a7cc1b2a11d053e9423d149d36b # timeout=10
[Pipeline] tool
```

```
[Pipeline] stage
[Pipeline] { (SonarQube analysis)
[Pipeline] tool
[Pipeline] wrap
Injecting SonarQube environment variables using the configuration: Sonarqube6.3
[Pipeline] {
[Pipeline] bat
[FirstPipeline] Running batch script

F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline>F:\#JenkinsEssentials\FirstDraft\jenkinsHome\tools\hudson.plugins.sonar.SonarRunnerInstallation\SonarQube_Scanner_3.0.3\bin\sonar-scanner -
Dsonar.host.url=http://localhost:9000/ -Dsonar.login=***** -Dsonar.projectVersion=1.0 -
Dsonar.projectKey=petclinicKey -Dsonar.sources=src
INFO: Scanner configuration file:
F:\#JenkinsEssentials\FirstDraft\jenkinsHome\tools\hudson.plugins.sonar.SonarRunnerInstallation\SonarQube_Scanner_3.0.3\bin\..\conf\sonar-scanner.properties
INFO: Project root configuration file: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\sonar-project.properties
INFO: SonarQube Scanner 3.0.3.778
INFO: Java 1.8.0_111 Oracle Corporation (64-bit)
INFO: Windows 10 10.0 amd64
INFO: User cache: C:\Users\Mitesh\.sonar\cache
INFO: Load global settings
INFO: Load global settings (done) | time=3968ms
INFO: User cache: C:\Users\Mitesh\.sonar\cache
INFO: Load plugins index
INFO: Load plugins index (done) | time=138ms
INFO: SonarQube server 6.3.1
```

```
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] isUnix
[Pipeline] bat
[FirstPipeline] Running batch script

F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline>"C:\apache-maven-3.3.1\bin\mvn" clean package
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building petclinic 4.2.5-SNAPSHOT
[INFO] -----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ spring-petclinic ---
[INFO] Deleting F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\target
[INFO]
[INFO] --- cobertura-maven-plugin:2.7:clean (default) @ spring-petclinic ---
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ spring-petclinic ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 18 resources
[INFO]
[INFO] --- maven-compiler-plugin:3.0:compile (default-compile) @ spring-petclinic ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 45 source files to
F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\target\classes
[parsing started
RegularFileObject[F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\src\main\java\org\springfram
ework\samples\petclinic\web\PetValidator.java]]
[parsing completed 219ms]
```



```
[INFO] Building war: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\target\petclinic.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 02:03 min
[INFO] Finished at: 2017-06-04T12:01:43+05:30
[INFO] Final Memory: 27M/88M
[INFO] -----
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] step
Recording test results
[Pipeline] archive
[Pipeline] build (Building PetClinic-Deploy)
Scheduling project: PetClinic-Deploy
Starting building: PetClinic-Deploy #6
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Functional Test)
[Pipeline] git
> git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/mitesh51/petclinic-func.git # timeout=10
Fetching upstream changes from https://github.com/mitesh51/petclinic-func.git
> git.exe --version # timeout=10
> git.exe fetch --tags --progress https://github.com/mitesh51/petclinic-func.git
+refs/heads/*:refs/remotes/origin/*
```

Results :


Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

```
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:42 min
[INFO] Finished at: 2017-06-04T12:06:24+05:30
[INFO] Final Memory: 18M/80M
[INFO] -----
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Load Test)
[Pipeline] bat
[FirstPipeline] Running batch script
```

```
F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline>C:/apache-jmeter-3.0/bin/jmeter.bat -
Jjmeter.save.saveservice.output_format=xml -n -t C:/Users/Mitesh/Desktop/PetClinic.jmx -l Test.jtl
Writing log file to: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\jmeter.log
Creating summariser <summary>
Created the tree successfully using C:/Users/Mitesh/Desktop/PetClinic.jmx
Starting the test @ Sun Jun 04 12:06:32 IST 2017 (1496558192833)
Waiting for possible Shutdown/StopTestNow/Heapdump message on port 4445
summary + 1 in 00:00:01 = 1.0/s Avg: 270 Min: 270 Max: 270 Err: 0 (0.00%) Active: 1 Started: 1
Finished: 0
summary + 49 in 00:00:01 = 61.1/s Avg: 13 Min: 4 Max: 157 Err: 0 (0.00%) Active: 0 Started: 1
Finished: 1
summary = 50 in 00:00:02 = 27.0/s Avg: 18 Min: 4 Max: 270 Err: 0 (0.00%)
```

Jenkins > FirstPipeline > ENABLE AUTO REFRESH  
(just show failures) enlarge













				Preparation	SonarQube analysis	Build	Deploy	Functional Test	Load Test
Average stage times:				11s	1min 13s	1min 58s	1min 13s	2min 5s	7s
#20	Jun 04 11:58	No Changes	🟢	9s	1min 2s	2min 11s	2min 38s	2min 1s	12s
#19	Jun 04 11:41	No Changes	🟢	4s	52s	1min 39s	52s	2min 8s	1s failed
#18	Jun 04 11:35	No Changes	🟢	19s	1min 44s	2min 4s	8s failed		

 [Latest Test Result \(no failures\)](#)

**Permalinks**

- [Last build \(#20\), 3 hr 33 min ago](#)
- [Last stable build \(#20\), 3 hr 33 min ago](#)
- [Last successful build \(#20\), 3 hr 33 min ago](#)
- [Last failed build \(#19\), 3 hr 50 min ago](#)

Updates			Available	Installed	Advanced
Install ↓	Name	Version			
<input checked="" type="checkbox"/>	<a href="#">Blue Ocean</a> Blue Ocean is a new project that rethinks the user experience of Jenkins. Designed from the ground up for Jenkins Pipeline and compatible with Freestyle jobs, Blue Ocean reduces clutter and increases clarity for every member of your team.	1.0.1			
<input type="checkbox"/>	<a href="#">Common API for Blue Ocean</a>	1.0.1			
<input type="checkbox"/>	<a href="#">Config API for Blue Ocean</a>	1.0.1			
<input type="checkbox"/>	<a href="#">Dashboard for Blue Ocean</a>	1.0.1			
<input type="checkbox"/>	<a href="#">Events API for Blue Ocean</a>	1.0.1			
<input type="checkbox"/>	<a href="#">Git Pipeline for Blue Ocean</a>	1.0.1			
<input type="checkbox"/>	<a href="#">GitHub Pipeline for Blue Ocean</a>	1.0.1			
<input type="checkbox"/>	<a href="#">i18n for Blue Ocean</a>	1.0.1			
<input type="checkbox"/>	<a href="#">JWT for Blue Ocean</a>	1.0.1			
<input type="checkbox"/>	<a href="#">Personalization for Blue Ocean</a>	1.0.1			

Common API for Blue Ocean	 Success
Variant Plugin	 Success
Jackson 2 API Plugin	 Success
Metrics Plugin	 Success
Web for Blue Ocean	 Success
REST API for Blue Ocean	 Success
JWT for Blue Ocean	 Success
Favorite	 Success
REST Implementation for Blue Ocean	 Success
Pipeline REST API for Blue Ocean	 Success
Pub-Sub "light" Bus	 Success
GitHub Pipeline for Blue Ocean	 Success
Git Pipeline for Blue Ocean	 Success
Config API for Blue Ocean	 Success
Server Sent Events (SSE) Gateway Plugin	 Success
Events API for Blue Ocean	 Success
Personalization for Blue Ocean	 Success
BlueOcean Display URL plugin	 Success
Blue Ocean Pipeline Editor	 Success
Autofavorite for Blue Ocean	 Success
i18n for Blue Ocean	 Success
Dashboard for Blue Ocean	 Success
Blue Ocean	 Success

localhost:8080/blue/organizations/jenkins/FirstPipeline/activity

# Jenkins

Pipelines Administration Logout

FirstPipeline Activity Branches Pull Requests

Run

Status	Run	Commit	Message	Duration	Completed	
✓	20	7262ae6	-	8m 19s	3 hours ago	↺
✗	19	7262ae6	-	5m 44s	4 hours ago	↺
✗	18	7262ae6	-	4m 18s	4 hours ago	↺

1.0.1 · Core 2.61 · 9b77619 · (no branch) · 12th April 2017 02:47 AM

## ✓ FirstPipeline #20

Pipeline Changes Tests Artifacts ↺ ⚙️ 📄 ✕

Branch: — 🕒 8m 19s No changes

Commit: 7262ae6 🕒 3 hours ago

Preparation ✓ SonarQube analysis ✓ Build ✓ Deploy ✓ Functional Test ✓ Load Test ✓

Steps - Load Test 📄 ⬇️

✓ Windows Batch Script 11s

```

1 [FirstPipeline] Running batch script
2
3 F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline>C:/apache-jmeter-3.0/bin/jmeter.bat -
4 Jmeter.save.saveservice.output_format=xml -n -t C:/Users/Mitesh/Desktop/PetClinic.jmx -l Test.jtl
5 Writing log file to: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\jmeter.log
6 Creating summariser <summary>
7 Created the tree successfully using C:/Users/Mitesh/Desktop/PetClinic.jmx
8 Starting the test @ Sun Jun 04 12:06:32 IST 2017 (1496558192833)
9 Waiting for possible Shutdown/StopTestNow/Heapdump message on port 4445
summary + 1 in 00:00:01 = 1.0/s Avg: 270 Min: 270 Max: 270 Err: 0 (0.00%) Active: 1 Started: 1
Finished: 0

```

✓ **FirstPipeline #20** Pipeline Changes Tests Artifacts ↻ ⚙️ 📄 ✕

Branch: — 8m 19s No changes  
Commit: 7262ae6 3 hours ago

Preparation ✓ SonarQube analysis ✓ Build ✓ Deploy ✓ Functional Test ✓ Load Test ✓

Steps - Deploy 📄 ⬇

- ✓ ▾ General Build Step <1s
  - 1 Recording test results
- ✓ ▾ Archive artifacts <1s
- ✓ ▾ Building PetClinic-Deploy 2m 36s
  - 1 Scheduling project: PetClinic-Deploy
  - 2 Starting building: PetClinic-Deploy #6

✓ **FirstPipeline #20** Pipeline Changes Tests Artifacts ↻ ⚙️ 📄 ✕

Branch: — 8m 19s No changes  
Commit: 7262ae6 4 hours ago

Name	Size	
pipeline.log	-	⬇
dashBoard_Test.xml	452 bytes	⬇
target/petclinic.war	40 MB	⬇

[Download All](#)

# Chapter 09: Jenkins UI Customization

Filter:

Updates **Available** Installed Advanced

Install ↓	Name	Version
<input checked="" type="checkbox"/>	<a href="#">Simple Theme Plugin</a>	0.3

Update information obtained: 1 day 12 hr ago

## Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Static Analysis Utilities  Success

Android Lint Plugin  Success

Simple Theme Plugin  Success

➡ [Go back to the top page](#)  
(you can start using the installed plugins right away)

➡ Restart Jenkins when installation is complete and no jobs are running

**Theme**

URL of theme CSS

Specify URL of a theme CSS.

URL of theme JS

Specify URL of a theme JS.



Jenkins OPEN BLUE OCEAN 2 search ADMIN LOG OUT

Jenkins DISABLE AUTO REFRESH add description

- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Disk Usage
- Credentials

**Build Queue** ^

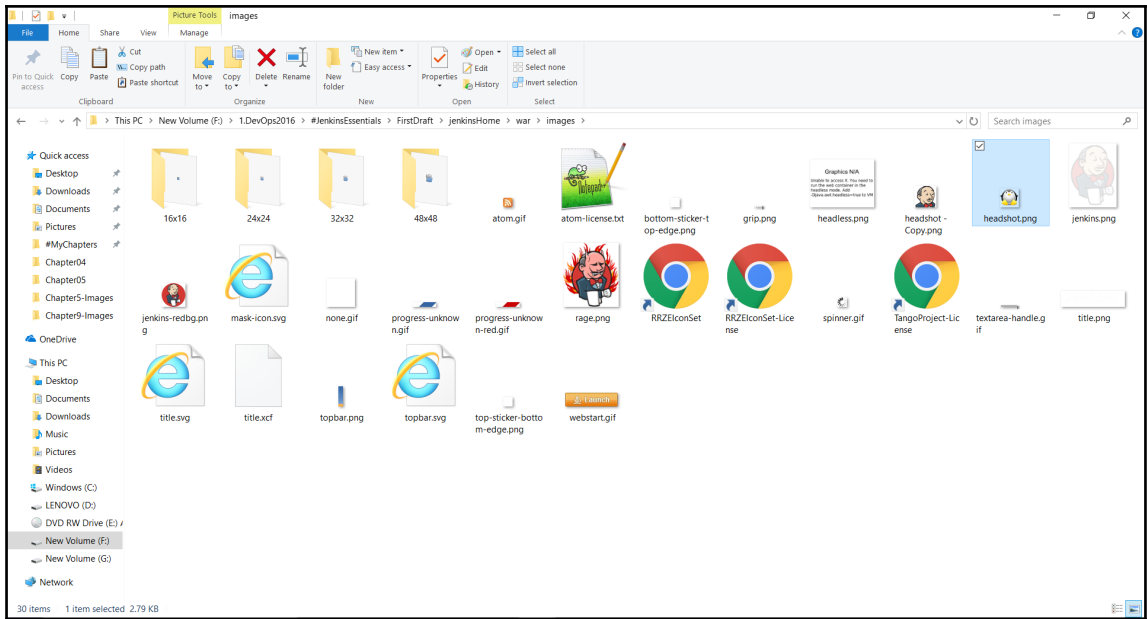
No builds in the queue.

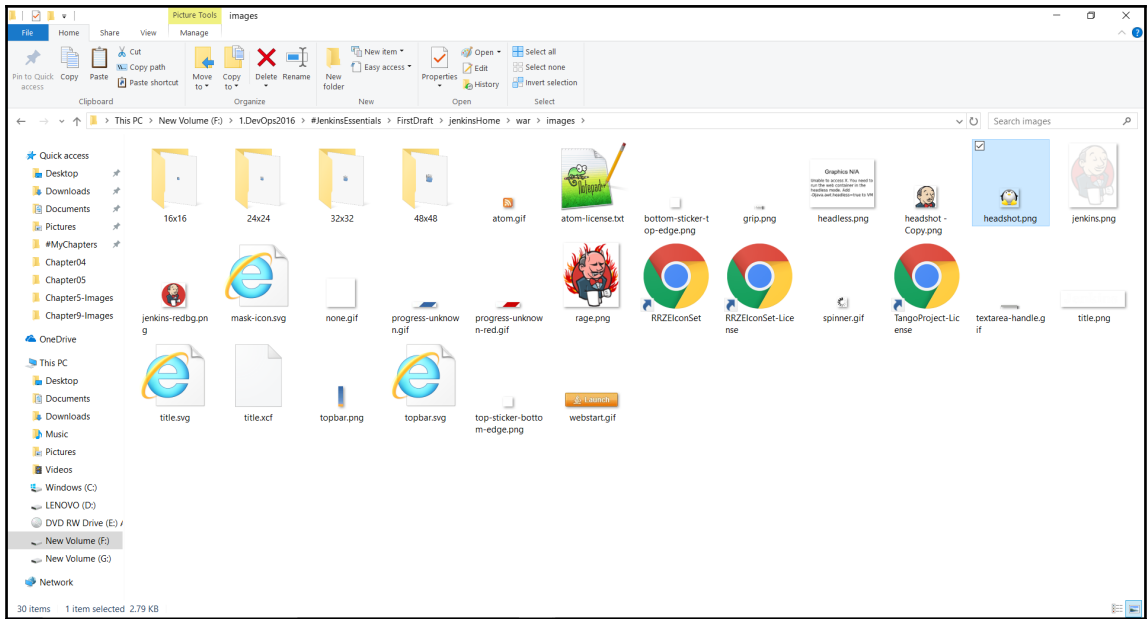
**Build Executor Status** ^

- 1 Idle
- 2 Idle

S	W	Name ↓	Last Success	Last Failure	Last Duration	Fav
—	⚙️	FirstAndroidProject	N/A	N/A	N/A	▶️ ☆
✔️	👤	FirstAntExample	1 day 0 hr - #5	16 days - #3	31 sec	▶️ ☆
✔️	⚙️	FirstJob	2 hr 2 min - #30	N/A	38 sec	▶️ ☆
✔️	☁️	FirstPipeline	2 mo 8 days - #20	2 mo 8 days - #19	8 min 19 sec	▶️ ☆
✔️	⚙️	Main-PetClinic	2 mo 22 days - #1	N/A	30 min	▶️ ☆
✔️	⚙️	Maven-Sample	2 mo 22 days - #1	N/A	59 sec	▶️ ☆
👤	⚙️	mitesh51	2 days 12 hr - log	N/A	1 min 1 sec	▶️ ☆
❗	☁️	PetClinic-Code	2 mo 8 days - #21	10 days - #40	2 min 50 sec	▶️ ☆
✔️	👤	PetClinic-Deploy	2 mo 8 days - #7	2 mo 8 days - #4	3 min 19 sec	▶️ ☆
⚠️	👤	PetClinic-FuncTest	2 mo 8 days - #5	N/A	37 sec	▶️ ☆







**Jenkins** Open Blue Ocean 2 search admin | log out

Jenkins > DISABLE AUTO REFRESH [add description](#)

[New Item](#)
[People](#)
[Build History](#)
[Project Relationship](#)
[Check File Fingerprint](#)
[Manage Jenkins](#)
[My Views](#)
[Disk Usage](#)
[Credentials](#)

**Build Queue** [-](#)

No builds in the queue.

**Build Executor Status** [-](#)

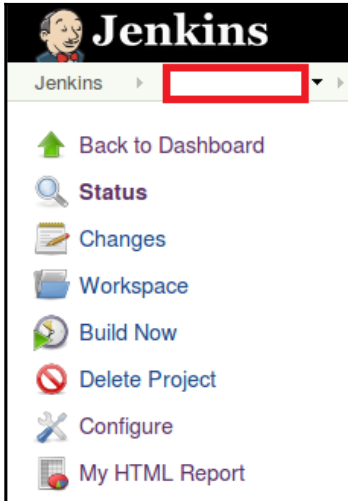
1 Idle  
2 Idle

S	W	Name ↓	Last Success	Last Failure	Last Duration	Fav
	☀	FirstAndroidProject	N/A	N/A	N/A	🌐 ☆
	☀	FirstAntExample	1 day 0 hr - #5	16 days - #3	31 sec	🌐 ☆
	☀	FirstJob	2 hr 23 min - #30	N/A	38 sec	🌐 ☆
	☁	FirstPipeline	2 mo 8 days - #20	2 mo 8 days - #19	8 min 19 sec	🌐 ☆
	☀	Main-PetClinic	2 mo 22 days - #1	N/A	30 min	🌐 ☆
	☀	Maven-Sample	2 mo 22 days - #1	N/A	59 sec	🌐 ☆
	👤	mitesh51	2 days 13 hr - log	N/A	1 min 1 sec	🌐 ☆
	☁	PetClinic-Code	2 mo 8 days - #21	10 days - #40	2 min 50 sec	🌐 ☆
	☀	PetClinic-Deploy	2 mo 8 days - #7	2 mo 8 days - #4	3 min 19 sec	🌐 ☆
	☀	PetClinic-FuncTest	2 mo 8 days - #5	N/A	37 sec	🌐 ☆
	☀	PetClinic-LoadTest	2 mo 8 days - #4	N/A	1 min 0 sec	🌐 ☆
	☀	PetClinic-Package	1 day 0 hr - #7	N/A	4 min 37 sec	🌐 ☆
	☀	PetClinic-Prod	2 mo 8 days - #1	N/A	1 min 52 sec	🌐 ☆
	☀	PetClinicWebHook	N/A	N/A	N/A	🌐 ☆

Updates **Available** Installed Advanced

Install ↓	Name	Version
<input checked="" type="checkbox"/>	<a href="#">Gravatar plugin</a> This plugin shows Gravatar avatar images for Jenkins users.	2.1

Update information obtained: 2 hr 40 min ago



SCM checkout retry count

Views Tab Bar

DropDownViewsTabBar provides a drop down menu for selecting views.

**DropDown ViewsTabBar**

Show Job Counts

Jenkins Open Blue Ocean 2  admin | log out

Jenkins

- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Disk Usage
- Credentials

**Build Queue** —

No builds in the queue.

**Build Executor Status** —

1 Idle  
2 Idle

View name:

- Build Monitor View**  
Shows a highly visible status of selected jobs. Ideal as an Extreme Feedback Device to be displayed on a screen on your office wall.
- Build Pipeline View**  
Shows the jobs in a build pipeline view. The complete pipeline of jobs that a version propagates through are shown as a row in the view.
- Dashboard**  
Customizable view that contains various portlets containing information about your job(s)
- List View**  
Shows items in a simple list format. You can choose which jobs are to be displayed in which view.
- My View**  
This view automatically displays all the jobs that the current user has an access to.

Jenkins Open Blue Ocean 2  admin | log out

Jenkins > NewDashboard

- New Item
- People
- Build History
- Edit View
- Delete View
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Disk Usage
- Credentials

**Build Queue** —

No builds in the queue.

**Build Executor Status** —

1 Idle

Name:

Description:

[Plain text] [Preview](#)

Filter build queue

Filter build executors

**Job Filters**

Status Filter:

Recurse in subfolders

Jobs:

- FirstAndroidProject
- FirstAntExample
- FirstJob
- FirstPipeline
- Main-PetClinic


### Dashboard Portlets

- Show standard Jenkins list at the top of the page
- Full screen view - hide standard Jenkins panels
- Set CSS custom parameters

### Columns

 **Status**


Delete

 **Name**

Delete

 **Build Button**

Delete

 **Last Success**

Delete

Add column ▼

### Dashboard Portlets

- Show standard Jenkins list at the top of the page
- Full screen view - hide standard Jenkins panels
- Set CSS custom parameters

**Jenkins** Open Blue Ocean 2 search admin | log out

Jenkins > NewDashboard > [DISABLE AUTO REFRESH](#)

[add description](#)

All My Dashboard **NewDashboard** PetClinic PetClinic-M +

S	Name ↓	Last Success
	<a href="#">FirstAndroidProject</a>	N/A
	<a href="#">FirstAntExample</a>	1 day 2 hr - <a href="#">#5</a>
	<a href="#">FirstJob</a>	3 hr 42 min - <a href="#">#30</a>
	<a href="#">FirstPipeline</a>	2 mo 9 days - <a href="#">#20</a>
	<a href="#">Main-PetClinic</a>	2 mo 23 days - <a href="#">#1</a>

Icon: [S](#) [M](#) [L](#) [Legend](#) [RSS for all](#) [RSS for failures](#) [RSS for just latest builds](#)

**Build Queue** -

No builds in the queue.

**Build Executor Status** -

1 Idle  
2 Idle

### Dashboard Portlets

- Show standard Jenkins list at the top of the page
- Full screen view - hide standard Jenkins panels
- Set CSS custom parameters

### Portlets at the top of the page

Add Dashboard Portlet to the top of the view ▾

- Android Lint issues per project
- Android Lint issues trend graph (new vs. fixed)
- Android Lint issues trend graph (priority distribution)
- Build Pipeline Dashboard View
- Build statistics**
- Iframe Portlet
- Image
- Jenkins jobs list
- Job statistics
- Jobs Grid
- Latest builds
- Slaves statistics
- Test Statistics Chart

## Dashboard Portlets

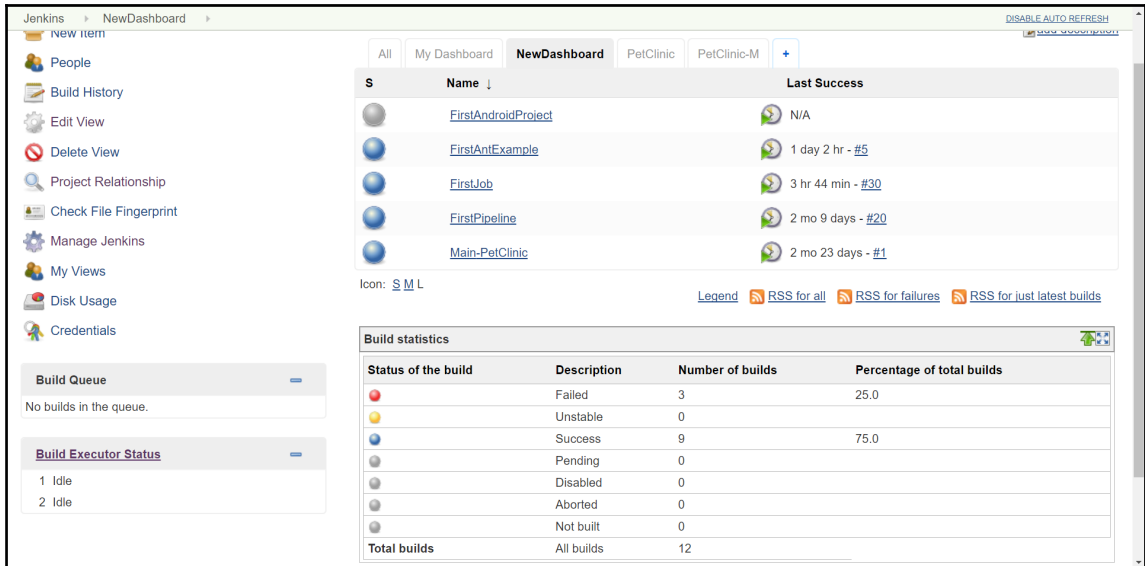
- Show standard Jenkins list at the top of the page
- Full screen view - hide standard Jenkins panels
- Set CSS custom parameters

## Portlets at the top of the page

### Build statistics

Display name











Delete






Jenkins > NewDashboard > new item








DISABLE AUTO REFRESH

All My Dashboard **NewDashboard** PetClinic PetClinic-M +

S	Name ↓	Last Success
	<a href="#">FirstAndroidProject</a>	 N/A
	<a href="#">FirstAntExample</a>	 1 day 2 hr - #5
	<a href="#">FirstJob</a>	 3 hr 44 min - #30
	<a href="#">FirstPipeline</a>	 2 mo 9 days - #20
	<a href="#">Main-PetClinic</a>	 2 mo 23 days - #1

Icon: [S](#) [M](#) [L](#)      [Legend](#)    [RSS for all](#)    [RSS for failures](#)    [RSS for just latest builds](#)

### Build statistics

Status of the build	Description	Number of builds	Percentage of total builds
	Failed	3	25.0
	Unstable	0	
	Success	9	75.0
	Pending	0	
	Disabled	0	
	Aborted	0	
	Not built	0	
<b>Total builds</b>	All builds	12	



<p><u>BLACKBOARD_FB</u> <span style="float: right;">0</span></p> <p style="text-align: center;">0/0</p>	<p><u>BLACKBOARD_REPORT_PRD_ACCESS:</u> <span style="float: right;">0</span></p> <p>Writes Blackboard sanity reports and sends them to a list.</p> <p style="text-align: center;"><a href="#">More Details</a></p> <p style="text-align: center;">0/0</p>
<p><u>CHECK_LICENSE</u> <span style="float: right;">0</span></p> <p style="text-align: center;">0/0</p>	<p><u>FB_TESTNG</u> <span style="float: right;">0</span></p> <p style="text-align: center;">100% 1/1 (50)</p>
<p><u>HIPPO_TRUNK</u></p> <p>Responsible: -</p> <div style="text-align: center;">  </div>	<p><u>MAVEN_RAT</u> <span style="float: right;">0</span></p> <p style="text-align: center;">0/0</p>

# Appendix: Processes that Improve Quality

**SonarQube servers**

Environment variables

Enable injection of SonarQube server configuration as build environment variables  
If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

SonarQube installations

Name

Server URL   
Default is http://localhost:9000

Server version  Configuration fields depend on the SonarQube server version.

Server authentication token   
SonarQube authentication token. Mandatory when anonymous access is disabled.

SonarQube account login   
SonarQube account used to perform analysis. Mandatory when anonymous access is disabled. No longer used since SonarQube 5.3.

SonarQube account password   
SonarQube account used to perform analysis. Mandatory when anonymous access is disabled. No longer used since SonarQube 5.3.

List of SonarQube installations

**Audit Trail**