

Video 3.3

Using the Build Pipeline Plugin



In this Video, we are going to take a look at...

- Providing a View name for the build pipeline
- Verifying the list of the Downstream projects

Build Pipeline

- It is a very flexible and powerful concept, but for that, we need to write a Groovy script
- Another way that has an easy learning curve is to use the Build Pipeline plugin
- It provides simple visualization of upstream and downstream build jobs
- We can create a chain of jobs for end-to-end automation

Update Center [Jenkins] – Mozilla Firefox

[Update Center \[Jenkins\]](#)

localhost:8080/pluginManager/



Search



Jenkins

DISABLE AUTO REFRESH

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Credentials

Build Queue

No builds in the queue.

Build Executor Status

master

1 Idle

2 Idle

TestServer

localhost:8080/configureTools

Update Center [Jenkins] – Mozilla ...

[user@localhost:~/Downloads/son...]

Manage Jenkins

New version of Jenkins (2.34) is available for download (changelog).

Or Upgrade Automatically[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](#)

Update Center [Jenkins] – Mozilla Firefox

[Update Center \[Jenkins\]](#)

localhost:8080/pluginManager/available



Search



Jenkins > Plugin Manager

1

search



Packt Pub

| log out

[Back to Dashboard](#)[Manage Jenkins](#)**Updates**

Available

Installed

Advanced

Filter:

[Install](#)[Name ↴](#)[Version](#)[Installed](#)

No updates

Select: [All](#), [None](#)

This page lists updates to the plugins you currently use.

Update Center [Jenkins] – Mozilla Firefox

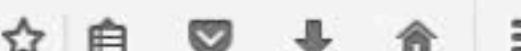
Update Center [Jenki...]



localhost:8080/pluginManager/available



Search



Jenkins > Plugin Manager

Back to Dashboard

Manage Jenkins

Updates

Available

Installed

Advanced

1

search

? Packt Pub | log out

Filter: build pipeline

Install	Name	Version
<input checked="" type="checkbox"/>	Build Pipeline Plugin This plugin provides a <u>Build Pipeline View</u> of upstream and downstream connected jobs that typically form a build pipeline. In addition, it offers the ability to define manual triggers for jobs that require intervention prior to execution, e.g. an approval process outside of Jenkins.	1.5.4
<input type="checkbox"/>	Fail The Build Plugin Set or change the build result to test job configurations - notifiers, publishers, promotions, build pipelines, etc.	1.0
<input type="checkbox"/>	Runscope plugin This plugin allows you to add a <u>Runscope</u> API test as a build step into your Jenkins build pipeline. The plugin will trigger a specific API test (via <u>Trigger URL</u>) and wait for the test to complete. If the test passes, the build steps will continue. However, if it fails, the build will be marked as failed.	1.47
<input type="checkbox"/>	JobFanIn This plugin provides a watch on upstream projects to trigger downstream projects once all the upstream projects are build & have stable status. Easier to join multiple project to trigger single downstream project. This plugin can be used with	1.1.2

[Install without restart](#)[Download now and install after restart](#)

Update information obtained: 1 day 20 hr ago

[Check now](#)

Dashboard [Jenkins] - Mozilla Firefox

Dashboard [Jenkins] × +

localhost:8080 × Search

Jenkins | Packt Pub | log out

DISABLE AUTO REFRESH



Jenkins ▾ > Update center

Back to Dashboard

Manage Jenkins

Manage Plugins

Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Run Condition Plugin



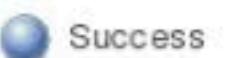
Success

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

Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
 - Checking update center connectivity
 - Success

Run Condition Plugin



Success

Conditional BuildSteps



Success

Parameterized Trigger plugin



Success

Build Pipeline Plugin



Success

[Go back to the top page](#)

 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

Dashboard [Jenkins] - Mozilla Firefox

Dashboard [Jenkins] +

localhost:8080

Search

Star | Copy | Download | Home | More



Jenkins

1

search



Packt Pub | log out

DISABLE AUTO REFRESH

New Item add description

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Credentials

Build Queue

No builds in the queue.

Build Executor Status

master

1 Idle

localhost:8080/view/All/newJob

All	PetClinic-First	+			
S	W	Name	Last Success	Last Failure	Last Duration
		Petclinic	1 day 23 hr - #12	N/A	1 min 41 sec
		Petclinic-Code	20 hr - #6	20 hr - #5	2 min 43 sec
		Petclinic-Compile	19 hr - #3	21 hr - #1	1 min 45 sec
		Petclinic-Pipeline	2 hr 17 min - #16	2 hr 21 min - #15	5 min 28 sec
		Petclinic-Pipeline-Build	19 hr - #1	N/A	3 min 30 sec
		Petclinic-Test	19 hr - #3	21 hr - #1	1 min 18 sec

Icon: S M L

Legend RSS for all RSS for failures RSS for just latest builds

Dashboard [Jenkins] - Mozilla Firefox

Connecting... +

localhost:8080

Search

1

search

Packt Pub | log out



Jenkins

DISABLE AUTO REFRESH

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

No builds in the queue.

[Build Executor Status](#)[master](#)

1 Idle

localhost:8080/newView

New View [Jenkins] - Mozilla Firefox

New View [Jenkins] +

localhost:8080/newView

Search

Star | Copy | Download | Home | More



Jenkins >

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

View name **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.

Build Queue

No builds in the queue.

OK

Build Executor Status

master

1 Idle

2 Idle

 New View [Jenkins]  localhost:8080/newView

Search



Jenkins

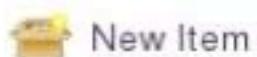
1

search



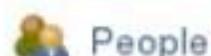
Packt Pub | log out

Jenkins



View name

PetClinix-Build-Pipeline-View+

 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.



Build Queue



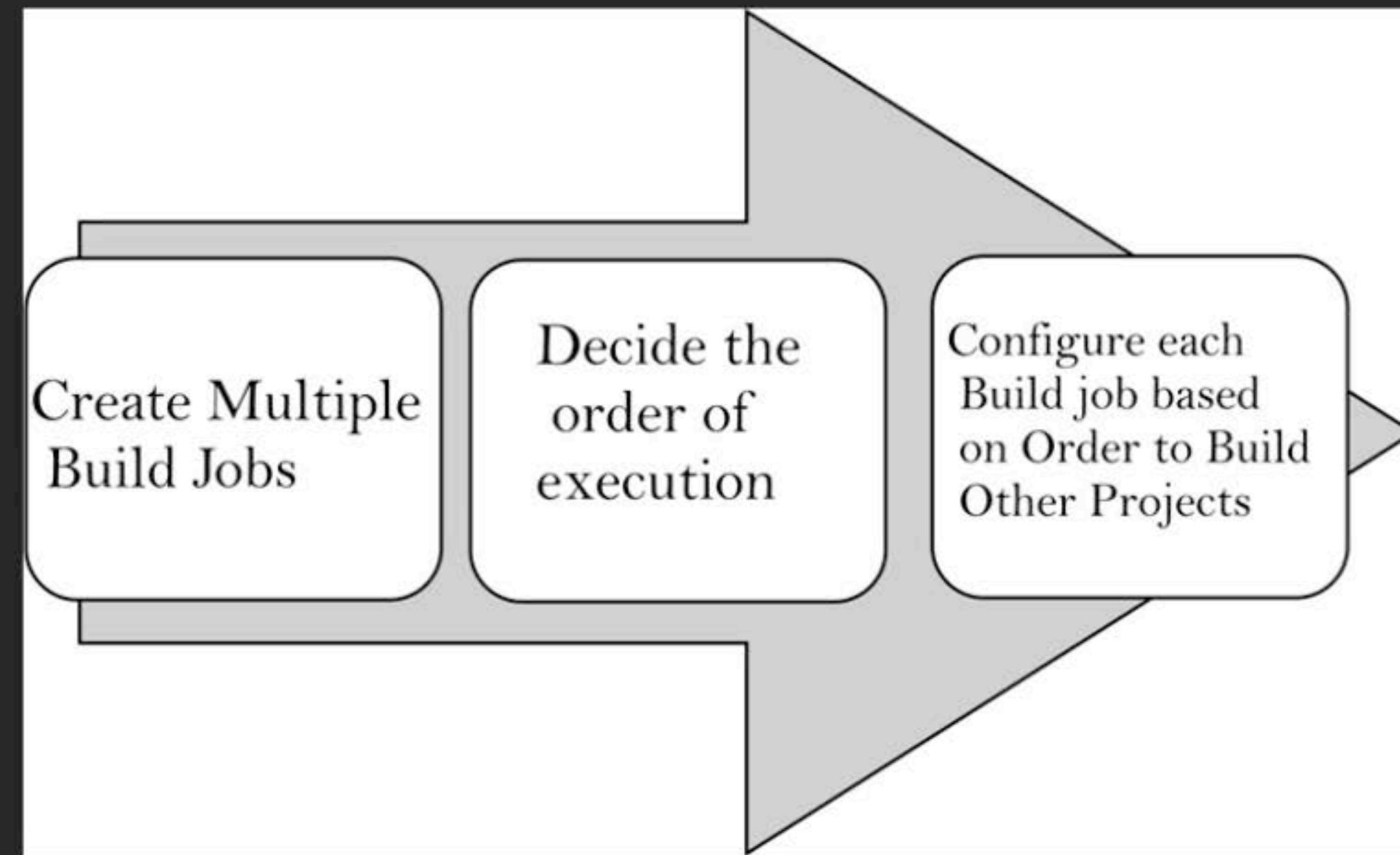
No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Upstream and Downstream





Jenkins > Petclinic-Compile >



1



? Packt Pub | log out

[DISABLE AUTO REFRESH](#)[Back to Dashboard](#)[Status](#)[Changes](#)[Workspace](#)[Build Now](#)[Delete Project](#)[Configure](#)[GitHub Hook Log](#)[Move](#)

Project Petclinic-Compile

[Workspace](#)[Recent Changes](#)[add description](#)[Disable Project](#)

Permalinks

- [Last build \(#3\), 19 hr ago](#)
- [Last stable build \(#3\), 19 hr ago](#)
- [Last successful build \(#3\), 19 hr ago](#)
- [Last failed build \(#1\), 21 hr ago](#)
- [Last unsuccessful build \(#1\), 21 hr ago](#)
- [Last completed build \(#3\), 19 hr ago](#)

Build History trend

find

#	Build #	Date
	#3	Nov 29, 2016 7:55 PM
	#2	Nov 29, 2016 6:40 PM

localhost:8080/job/Petclinic-Compile/configure

Petclinic-Compile Config [Jenkins] - Mozilla Firefox

Petclinic-Compile Co... +

localhost:8080/job/Petclinic-Compile/configure

Jenkins > Petclinic-Com

Aggregate downstream test results

Triggers Build Environment Build Post-build Actions

Archive the artifacts

Build other projects

Publish JUnit test result report

Publish Javadoc

Record fingerprints of files to track usage

Git Publisher

SonarQube analysis with Maven

Build other projects (manual step)

E-mail Notification

Editable Email Notification

Add post-build action

Save Apply

This screenshot shows the Jenkins configuration interface for the 'Petclinic-Compile' job. The 'Post-build Actions' section is currently active, displaying a list of available actions. The 'Build' tab is selected. The sidebar on the left provides a quick access menu for common actions. At the bottom, there are 'Save' and 'Apply' buttons to commit changes.

Petclinic-Compile Config [Jenkins] - Mozilla Firefox

Petclinic-Compile Co... +

localhost:8080/job/Petclinic-Compile/configure

Jenkins > Petclinic-Com

Archiver

Archive the artifacts

Build other projects

Publish JUnit test result report

Publish Javadoc

Record fingerprints of files to track usage

Git Publisher

SonarQube analysis with Maven

Build other projects (manual step)

E-mail Notification

Editable Email Notification

Set GitHub commit status (universal)

Add post-build action ▾

Save Apply

Triggers Build Environment Build Post-build Actions Advanced...

localhost:8080/job/Petclinic-Compile/configure#

Petclinic-Compile Config [Jenkins] - Mozilla Firefox

Petclinic-Compile Co... +

localhost:8080/job/Petclinic-Compile/configure

Search

Jenkins > Petclinic-Compile

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

Maven Version

Goals Advanced...

Add build step ▾

Post-build Actions

Build other projects

Projects to build ?

No project specified

Trigger only if build is stable

Trigger even if the build is unstable

Trigger even if the build fails

Save Apply

 Petclinic-Compile Co... x (i) | localhost:8080/job/Petclinic-Compile/configure

Search



Jenkins > Petclinic-Compile >

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

Post-build Actions

Build other projects

Projects to build Petclinic-Code, Petclinic-Test,

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

Add post-build action ▾

Save **Apply**

Build Pipeline View

- Name
- Description
- Build Pipeline View
- Filter build queue
- Filter build executors
- Build Pipeline View Title

Build Pipeline View

- Layout Based on the upstream/downstream relationship
- Select Initial Job
- Number of Displayed Builds
- Restrict triggers to most recent successful builds
- Always allow manual trigger on pipeline steps
- Show pipeline project headers

Build Pipeline View

- Show pipeline parameters in project headers
- Show pipeline parameters in revision box
- Refresh frequency (in seconds)
- URL for custom CSS files
- Console Output Link Style

Dashboard [Jenkins] - Mozilla Firefox

Dashboard [Jenkins] +

localhost:8080

Search

Jenkins Petclinic-Compile

DISABLE AUTO REFRESH

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

GitHub Hook Log

Move

Build History

trend —

find

#3 Nov 29, 2016 7:55 PM

#2 Nov 29, 2016 6:40 PM

#1 Nov 29, 2016 6:29 PM

localhost:8080

Project Petclinic-Compile

add description

Disable Project



[Workspace](#)

[Recent Changes](#)

Downstream Projects

[Petclinic-Code](#)

[Petclinic-Test](#)

Permalinks

- [Last build \(#3\), 19 hr ago](#)
- [Last stable build \(#3\), 19 hr ago](#)
- [Last successful build \(#3\), 19 hr ago](#)
- [Last failed build \(#1\), 21 hr ago](#)
- [Last unsuccessful build \(#1\), 21 hr ago](#)
- [Last completed build \(#3\), 19 hr ago](#)

Edit View [Jenkins] – Mozilla Firefox

Edit View [Jenkins] +

localhost:8080/view/Petclinc-Build-Pipeline-View/configure

Search

Jenkins > Petclinc-Build-Pipeline-View >

Manage Jenkins

My Views

Credentials

Build Queue

No builds in the queue.

Build Executor Status

master

1 Idle

2 Idle

TestServer

1 Idle

Filter build executors

Build Pipeline View Title

Layout

Based on upstream/downstream relationship

This layout mode derives the pipeline structure based on the upstream/downstream trigger relationship between jobs.

Select Initial Job

Petclinic-Compile

No Of Displayed Builds

1

Restrict triggers to most recent successful builds

Yes No

Always allow manual trigger on pipeline steps

Yes No

Show pipeline project headers

Yes No

Show pipeline parameters in project headers

Yes No

Show pipeline parameters in revision box

Yes No

Refresh frequency (in seconds)

3

OK

Apply

Edit View [Jenkins] – Mozilla Firefox

Edit View [Jenkins] x +

localhost:8080/view/Petclinic-Build-Pipeline-View/configure

Search

Jenkins > Petclinic-Build-Pipeline-View >

Delete View

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Credentials

Build Queue
No builds in the queue.

Build Executor Status
master
1 Idle
2 Idle
TestServer
1 Idle

Filter build queue

Filter build executors

Build Pipeline View Title

Layout

[Plain text] Preview

Based on upstream/downstream relationship

This layout mode derives the pipeline structure based on the upstream/downstream trigger relationship between jobs.

Select Initial Job: Petclinic-Compile

No Of Displayed Builds: 1

Restrict triggers to most recent successful builds: Yes No

Always allow manual trigger on pipeline steps: Yes No

Show pipeline project headers: Yes No

OK Apply

Edit View [Jenkins] – Mozilla Firefox

Connecting... x +

localhost:8080/view/Petclinc-Build-Pipeline-View/ x + Search x

Jenkins > Petclinc-Build-Pipeline-View >

New Item ?

People ?

Build History ?

Edit View ?

Delete View ?

Project Relationship ?

Check File Fingerprint ?

Manage Jenkins ?

My Views ?

Credentials ?

Name Petclinc-Build-Pipeline-View

Description

Filter build queue ?

Filter build executors ?

Build Pipeline View Title

Layout

[Plain text] Preview ?

Based on upstream/downstream relationship ?

This layout mode derives the pipeline structure based on the upstream/downstream trigger relationship between jobs.

Select Initial Job ?

Petclinic-Compile ?

Build Queue -

No builds in the queue. -

Build Executor Status -

master ?

Waiting for localhost... -

No Of Displayed Builds 1 ?

OK Apply

Petclinc-Build-Pipeline-View [Jenkins] - Mozilla Firefox

[Petclinc-Build-Pipeline-View](#)

localhost:8080/view/Petclinc-Build-Pipeline-View/



Search



Jenkins > Petclinc-Build-Pipeline-View >

1

search



Packt Pub | log out

DISABLE AUTO REFRESH

Build Pipeline



Pipeline

#3

#3 Petclinic-Compile

29 Nov, 2016 7:55:39 PM
1 min 45 sec

Petclinic-Code

N/A
N/A

Petclinic-Test

N/A
N/A

[Petclinc-Build-Pipeline-View](#)localhost:8080/view/Petclinc-Build-Pipeline-View/

Search



Jenkins > Petclinc-Build-Pipeline-View >

1

search



Packt Pub | log out

DISABLE AUTO REFRESH

Build Pipeline



Run



History



Configure



Add Step



Delete



Manage

Pipeline

#3

#3 Petclinic-Compile

29 Nov, 2016 7:55:39 PM

1 min 45 sec

Petclinic-Code

N/A

N/A

Petclinic-Test

N/A

N/A

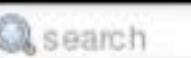
[Petclinc-Build-Pipeline-View](#)localhost:8080/view/Petclinc-Build-Pipeline-View/

Search



Jenkins > Petclinc-Build-Pipeline-View >

1



Packt Pub | log out

DISABLE AUTO REFRESH

Build Pipeline



Run



History



Configure



Add Step



Delete



Manage

Pipeline

#3

#3 Petclinic-Compile

29 Nov, 2016 7:55:39 PM

1 min 45 sec

Petclinic-Code

N/A

N/A

Petclinic-Test

N/A

N/A

[Petclinc-Build-Pipeline-View](#)localhost:8080/view/Petclinc-Build-Pipeline-View/

Search



Jenkins > Petclinc-Build-Pipeline-View >

1

search



Packt Pub | log out

DISABLE AUTO REFRESH

Build Pipeline



Run



History



Configure



Add Step



Delete



Manage

Pipeline

#3

#3 Petclinic-Compile

29 Nov, 2016 7:55:39 PM

1 min 45 sec

Petclinic-Code

N/A

N/A

Petclinic-Test

N/A

N/A

Waiting for localhost...

Petclinc-Build-Pipeline-View [Jen...

[user@localhost:~/Downloads/son...

Petclinc-Build-Pipeline-View [Jenkins] – Mozilla Firefox

[Petclinc-Build-Pipeline-View](#)

localhost:8080/view/Petclinc-Build-Pipeline-View/



Search



Jenkins > Petclinc-Build-Pipeline-View >

1



Packt Pub | log out

DISABLE AUTO REFRESH

Build Pipeline



History

Configure

Add Step

Delete

Manage

Pipeline

#3

#3 Petclinic-Compile

29 Nov, 2016 7:55:39 PM
1 min 45 sec

Petclinic-Code

N/A
N/A

Petclinic-Test

N/A
N/A

Waiting for localhost...

Petclinc-Build-Pipeline-View [Jen...]

[user@localhost:~/Downloads/son...]

[Petclinc-Build-Pipeline-View](#)

localhost:8080/view/Petclinc-Build-Pipeline-View/



Search



Jenkins > Petclinc-Build-Pipeline-View >

1



Packt Pub | log out

DISABLE AUTO REFRESH

Build Pipeline



History

Configure

Add Step

Delete

Manage

Pipeline

#4

#4 Petclinic-Compile

30 Nov, 2016 3:40:01 PM

24 sec and counting

packt

Petclinic-Code

N/A

N/A

Petclinic-Test

N/A

N/A

Read localhost

Petclinc-Build-Pipeline-View [Jen...]

[user@localhost:~/Downloads/son...

Packt

4 / 4



Petclinc-Build-Pipeline-View [Jenkins] – Mozilla Firefox

[Petclinc-Build-Pipeline-View](#)[Dashboard \[Jenkins\]](#)[localhost:8080/view/Petclinc-Build-Pipeline-View/?auto_refresh=false](#)

Search



Jenkins

Petclinc-Build-Pipeline-View

1

search



Packt Pub | log out

ENABLE AUTO REFRESH

Build Pipeline



Run



History



Configure



Add Step



Delete



Manage

Pipeline

#4

#4 Petclinic-Compile

30 Nov, 2016 3:40:01 PM

1 min 41 sec

packt

#7 Petclinic-Code

30 Nov, 2016 3:41:51 PM

5 min 18 sec

#4 Petclinic-Test

30 Nov, 2016 3:41:51 PM

3 min 45 sec

Edit View [Jenkins] – Mozilla Firefox

Edit View [Jenkins] Dashboard [Jenkins] +

localhost:8080/view/Petclinc-Build-Pipeline-View/configure

Search

Jenkins > Petclinc-Build-Pipeline-View >

Build Executor Status

Computer	Status
master	1 Idle 2 Idle
TestServer	1 Idle

No Of Displayed Builds: 1

Restrict triggers to most recent successful builds: Yes No

Always allow manual trigger on pipeline steps: Yes No

Show pipeline project headers: Yes No

Show pipeline parameters in project headers: Yes No

Show pipeline parameters in revision box: Yes No

Refresh frequency (in seconds): 3

URL for custom CSS files:

Console Output Link Style: Lightbox

OK Apply

Edit View [Jenkins] – Mozilla Firefox

Edit View [Jenkins] x Dashboard [Jenkins] x +

localhost:8080/view/Petclinc-Build-Pipeline-View/configure

Search

Jenkins > Petclinc-Build-Pipeline-View >

Build Executor Status

Computer	Status
master	1 Idle
TestServer	2 Idle

No Of Displayed Builds

Restrict triggers to most recent successful builds Yes No

Always allow manual trigger on pipeline steps Yes No

Show pipeline project headers Yes No

Show pipeline parameters in project headers Yes No

Show pipeline parameters in revision box Yes No

Refresh frequency (in seconds)

URL for custom CSS files

Console Output Link Style

OK Apply

Edit View [Jenkins] – Mozilla Firefox

Edit View [Jenkins] x Dashboard [Jenkins] x +

localhost:8080/view/Petclinc-Build-Pipeline-View/configure

Search

Jenkins > Petclinc-Build-Pipeline-View >

Build Executor Status

Computer	Status
master	1 Idle
TestServer	2 Idle

No Of Displayed Builds

Restrict triggers to most recent successful builds Yes No

Always allow manual trigger on pipeline steps Yes No

Show pipeline project headers Yes No

Show pipeline parameters in project headers Yes No

Show pipeline parameters in revision box Yes No

Refresh frequency (in seconds)

URL for custom CSS files

Console Output Link Style

OK Apply

Edit View [Jenkins] - Mozilla Firefox

Edit View [Jenkins] Dashboard [Jenkins] +

localhost:8080/view/Petclinc-Build-Pipeline-View/configure

Search

Jenkins > Petclinc-Build-Pipeline-View >

Build Executor Status

Node	Status	Idle
master	Idle	1
master	Idle	2
TestServer	Idle	1

No Of Displayed Builds: 2

Restrict triggers to most recent successful builds: Yes No

Always allow manual trigger on pipeline steps: Yes No

Show pipeline project headers: Yes No

Show pipeline parameters in project headers: Yes No

Show pipeline parameters in revision box: Yes No

Refresh frequency (in seconds): 3

URL for custom CSS files:

Console Output Link Style: Lightbox

OK Apply

Edit View [Jenkins] – Mozilla Firefox

Edit View [Jenkins] x Dashboard [Jenkins] x +

localhost:8080/view/Petclinc-Build-Pipeline-View/configure

Search

Jenkins > Petclinc-Build-Pipeline-View

Saved

Build Executor Status

Node	Status	Idle
master	Idle	1
TestServer	Idle	2

No Of Displayed Builds

Restrict triggers to most recent successful builds Yes No

Always allow manual trigger on pipeline steps Yes No

Show pipeline project headers Yes No

Show pipeline parameters in project headers Yes No

Show pipeline parameters in revision box Yes No

Refresh frequency (in seconds)

URL for custom CSS files

Console Output Link Style

OK Apply

Petclinic-Build-Pipeline-View [Jenkins] - Mozilla Firefox

[Petclinic-Build-Pipeline-View](#)[Dashboard \[Jenkins\]](#)

localhost:8080/view/Petclinic-Build-Pipeline-View/



Search



Jenkins > Petclinic-Build-Pipeline-View >

1

search

? Packt Pub | log out

ENABLE AUTO REFRESH

Build Pipeline



Petclinic-Compile

Health:

Build No.: #4

Petclinic-Code

Health:

Build No.: #7

Petclinic-Test

Health:

Build No.: #4



Petclinic-Build-Pipeline-View [Jenkins] – Mozilla Firefox

[Petclinic-Build-Pipeline-View](#)[Dashboard \[Jenkins\]](#)localhost:8080/view/Petclinic-Build-Pipeline-View/

Search



Jenkins > Petclinic-Build-Pipeline-View >

1

search

? Packt Pub | log out

ENABLE AUTO REFRESH

Build Pipeline



Run



Hist



Configure



Add Step



Delete



Manage

Petclinic-Compile

Health:

Build No.: #4

Petclinic-Code

Health:

Build No.: #7

Petclinic-Test

Health:

Build No.: #4

Pipeline #4

#4 Petclinic-Compile

No parameters

30 Nov, 2016 3:40:01 PM

1 min 41 sec

#7 Petclinic-Code

30 Nov, 2016 3:41:51 PM

5 min 18 sec

localhost:8080/view/Petclinic-Build-Pipeline-View/builds

Packt

4 / 4

1

Petclinc-Build-Pipeline-View [Jenkins] – Mozilla Firefox

[Petclinc-Build-Pipeline-View](#)[Dashboard \[Jenkins\]](#)[localhost:8080/view/Petclinc-Build-Pipeline-View/builds](#)

Search



Jenkins > Petclinc-Build-Pipeline-View >

1

search

[Packt Pub](#) | log out[ENABLE AUTO REFRESH](#)

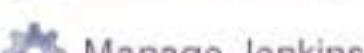
People



Edit View



Project Relationship



Build Queue

No builds in the queue.



Build History of Petclinc-Build-Pipeline-View

Nov 29

Nov 30

Dec 1

Dec 2

- Petclinic-Test #4
- Petclinic-Code #7
- Petclinic-Compile #4

14hr

15hr

16hr

17hr

[Export as plain XML](#)

Build Executor Status

Build

Time Since

Status

Petclinc-Build-Pipeline-View [Jenkins] – Mozilla Firefox

Petclinc-Build-Pipeline-View [Jenkins] Dashboard [Jenkins]

localhost:8080/view/Petclinc-Build-Pipeline-View/builds

Search

Jenkins > Petclinc-Build-Pipeline-View >

Manage Jenkins

My Views

Credentials

Build Queue

No builds in the queue.

Timeline © SIMILE

14hr 15hr 16hr 17hr 18hr

Export as plain XML

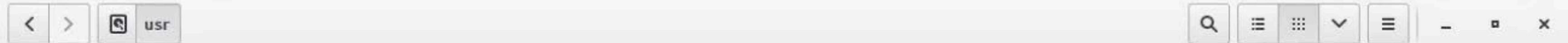
	Build	Time Since 1	Status
	Petclinic-Test #4	7 min 8 sec	stable
	Petclinic-Code #7	7 min 8 sec	stable
	Petclinic-Compile #4	8 min 58 sec	stable
	Petclinic-Test #3	19 hr	stable
	Petclinic-Compile #3	19 hr	stable
	Petclinic-Code #6	21 hr	back to normal
	Petclinic-Compile #2	21 hr	back to normal
	Petclinic-Code #5	21 hr	broken for a long time

Petclinc-Build-Pipeline-View [Jen... user@localhost:~/Downloads/son...

Packt 4 / 4

Deploying a WAR File

- Deployment of the packages in the application
- Automate the process of deployment of the packages
- Integrate the packages into end-to-end automation of application delivery



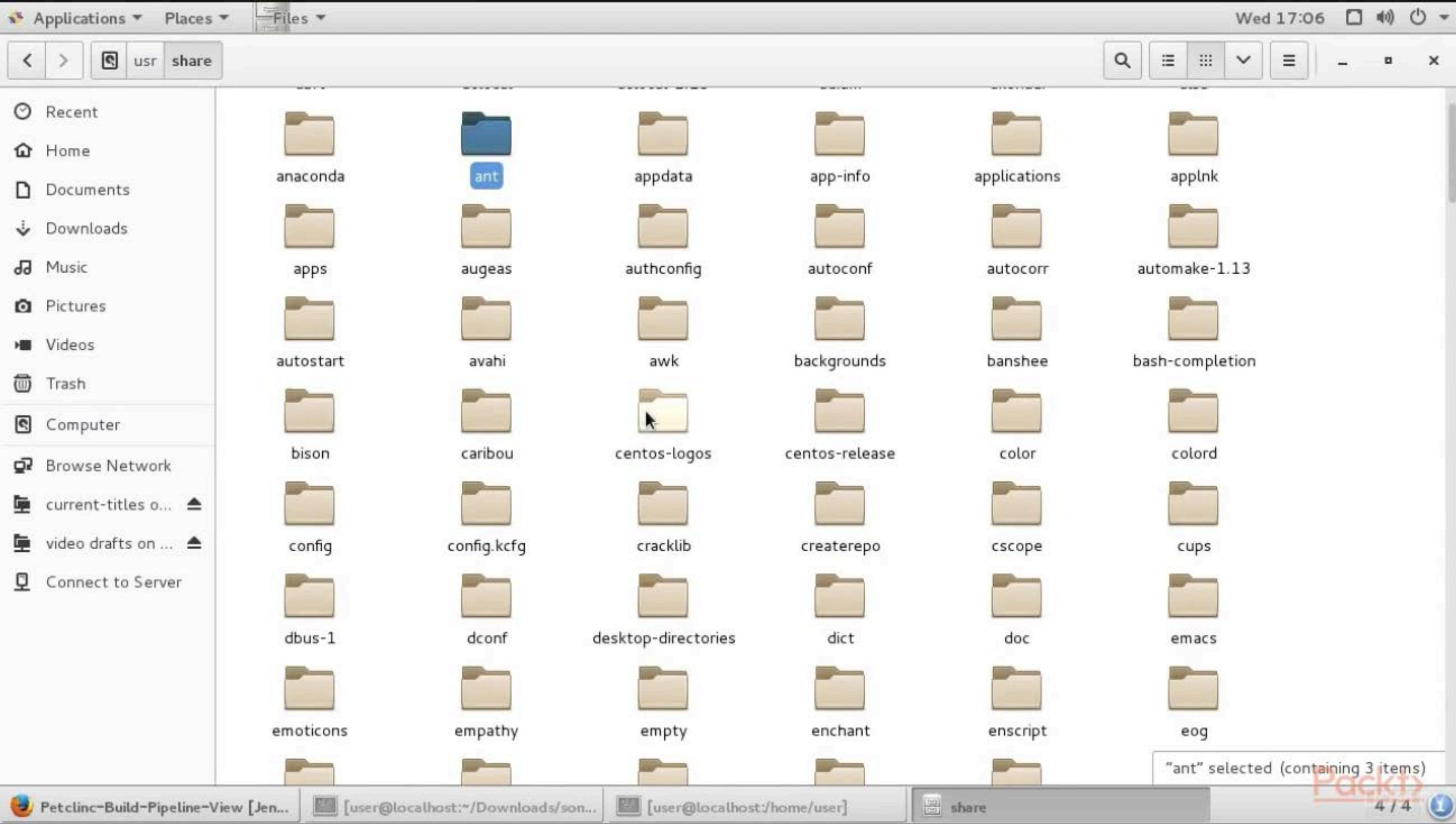
Recent	bin	etc	games	include	lib	lib64	libexec
Home							
Documents							
Downloads							
Music	local	sbin	share	src	tmp		
Pictures							
Videos							
Trash							
Computer							
Browse Network							
current-titles o... ▲							
video drafts on ... ▲							
Connect to Server							

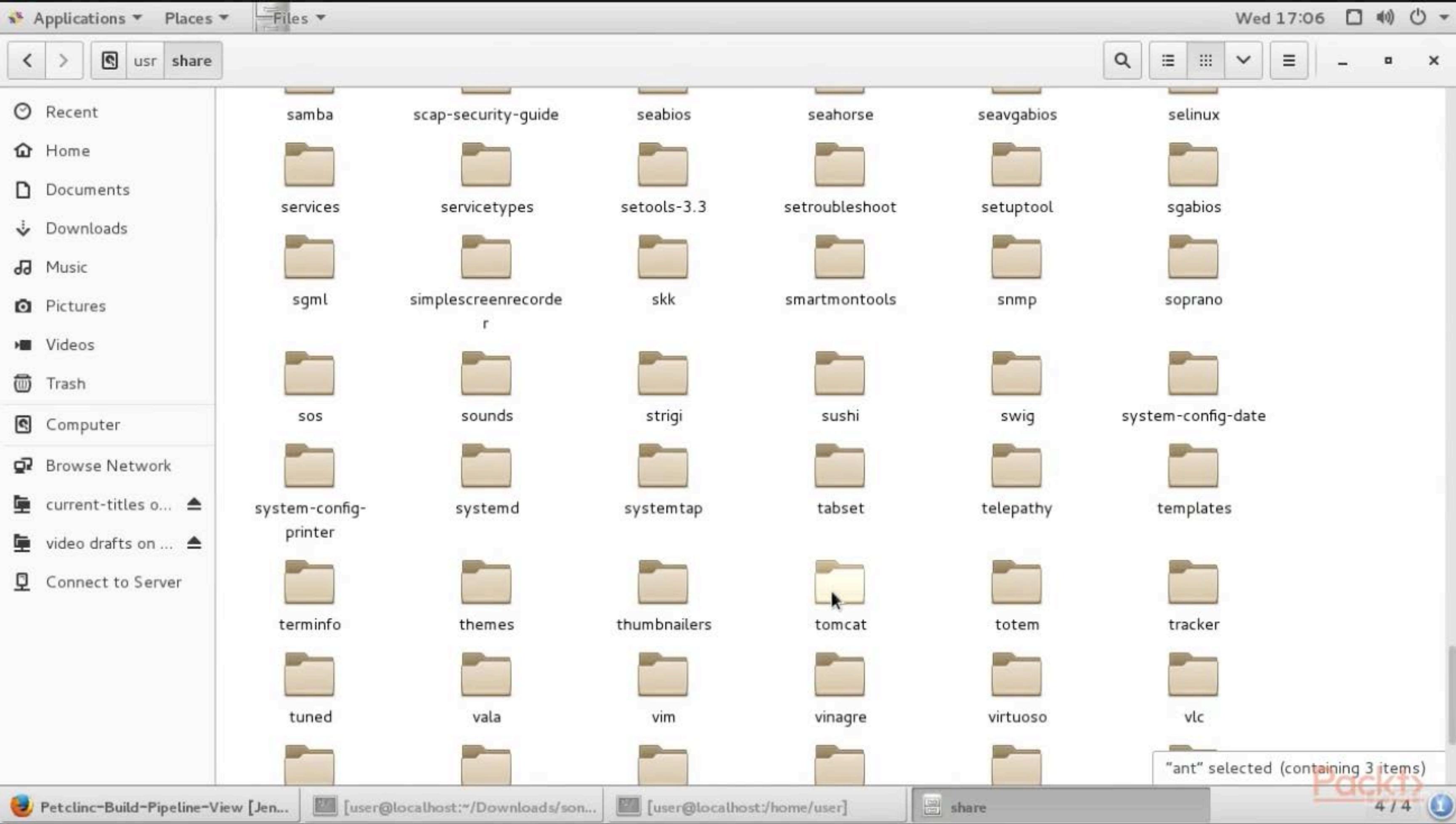
A set of standard file manager navigation icons including back, forward, search, and list view.

Standard window control icons for minimize, maximize, and close.

- Recent
- Home
- Documents
- Downloads
- Music
- Pictures
- Videos
- Trash
- Computer
- Browse Network
- current-titles o... ▲
- video drafts on ... ▲
- Connect to Server

abrt	aclocal	aclocal-1.13	adium	akonadi	alsa
anaconda	ant	appdata	app-info	applications	aplnk
apps	augeas	authconfig	autoconf	autocorr	automake-1.13
autostart	avahi	awk	backgrounds	banshee	bash-completion
bison	caribou	centos-logos	centos-release	color	colord
config	config.kcfg	cracklib	createrepo	cscope	cups
dbus-1	dconf	desktop-directories	dict	doc	emacs





< > usr share tomcat

- □ ×



< > ⌂ usr share tomcat conf

🔍 ⌂ ⌂ ⌂ ⌂ ⌂ ⌂ - ⌂ ⌂



- Recent
- Home
- Documents
- Downloads
- Music
- Pictures
- Videos
- Trash
- Computer
- Browse Network
- current-titles o... ▲
- video drafts on ... ▲
- Connect to Server

< > ⌂ usr share tomcat conf

🔍 ⌂ ⌂ ⌂ ⌂ ⌂ - ⌂ ⌂



"tomcat-users.xml" selected (2.0 kB)

Applications ▾ Places ▾ gedit ▾

Wed 17:07

tomcat-users.xml
/usr/share/tomcat/conf

Save

Open ▾

limitations under the License.

-->

<tomcat-users>

<!--

NOTE: By default, no user is included in the "manager-gui" role required to operate the "/manager/html" web application. If you wish to use this app, you must define such a user - the username and password are arbitrary.

-->

<!--

NOTE: The sample user and role entries below are wrapped in a comment and thus are ignored when reading this file. Do not forget to remove <!... ...> that surrounds them.

-->

<!--

<role rolename="tomcat"/>

<role rolename="role1"/>

<user username="tomcat" password="tomcat" roles="tomcat"/>

<user username="both" password="tomcat" roles="tomcat,role1"/>

<user username="role1" password="tomcat" roles="role1"/>

-->

<!-- <role rolename="admin"/> -->

<!-- <role rolename="admin-gui"/> -->

<!-- <role rolename="admin-script"/> -->

<!-- <role rolename="manager"/> -->

<!-- <role rolename="manager-gui"/> -->

<!-- <role rolename="manager-script"/> -->

<!-- <role rolename="manager-jmx"/> -->

<!-- <role rolename="manager-status"/> -->

<!-- <user name="admin" password="adminadmin" roles="admin,manager,admin-gui,admin-script,manager-gui,manager-script,manager-jmx,manager-status" /> -->

</tomcat-users>

Logging properties

server.xml

Loading file '/usr/share/tomcat/conf/tomcat-users.xml'... XML ▾ Tab Width: 8 ▾ Ln 46, Col 16 ▾ INS

Packt

Petclinc-Build-Pipeline-View ... [user@localhost:~/Downloads...] [user@localhost:/home/user] conf tomcat-users.xml (/usr/share/...) 4 / 4

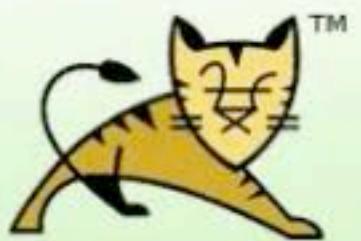
Home Documentation Configuration Examples Wiki Mailing Lists

Find Help

Apache Tomcat/7.0.73



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations HOW-TO](#)

[Manager Application HOW-TO](#)

[Clustering/Session Replication HOW-TO](#)

[Server Status](#)

[Manager App](#)

[Host Manager](#)

Developer Quick Start

[Tomcat Setup](#)

[First Web Application](#)

[Realms & AAA](#)

[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)

[Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

`$CATALINA_HOME/conf/tomcat-users.xml`

In Tomcat 7.0 access to the manager application is split between different users.

[Read more...](#)

Release Notes

Documentation

[Tomcat 7.0 Documentation](#)

[Tomcat 7.0 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:

`$CATALINA_HOME RUNNING.txt`

Detailed notes may be interacted in:

Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)

Important announcements, releases, security vulnerability notifications. (Low volume)

[tomcat-users](#)

User support and discussion

[taglibs-user](#)

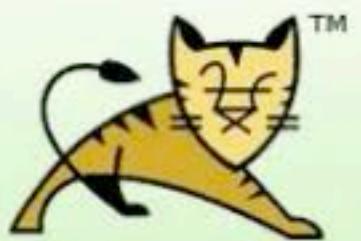
Home Documentation Configuration Examples Wiki Mailing Lists

Find Help

Apache Tomcat/7.0.73



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[taglibs-user](#)

Waiting for localhost...

/manager x Dashboard [Jenkins] x +

localhost:8080/manager/html C Search ☆ ⌂ ⌂ ⌂ ⌂ ⌂

					Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/petclinic	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy

Deploy directory or WAR file located on server

Context Path (required):

XML Configuration file URL:

WAR or Directory URL:

Download

< > ⌂ usr share maven conf

🔍 ⌂ ⌂ ⌂ ⌂ ⌂ - ⌂ ⌂

- ⌚ Recent
- ⌂ Home
- 📁 Documents
- ⬇ Downloads
- 🎶 Music
- 📷 Pictures
- ▶ Videos
- 🗑 Trash
- 💻 Computer
- 🌐 Browse Network
- 💻 video drafts on ... ▲
- 💻 Connect to Server



settings.xml

"settings.xml" selected (10.4 kB)

Open ▾



settings.xml

/usr/share/maven/conf

Save



```
<server>
  <id>deploymentRepo</id>
  <username>repouser</username>
  <password>repopwd</password>
</server>
-->

<!-- Another sample, using keys to authenticate.
<server>
  <id>siteServer</id>
  <privateKey>/path/to/private/key</privateKey>
  <passphrase>optional; leave empty if not used.</passphrase>
</server>
-->

<server>
  <id>tomcat-development-server</id>
  <username>admin</username>
  <password>cloud@123</password>
</server>
</servers> I

<!-- mirrors
This is a list of mirrors to be used in downloading artifacts from remote repositories.

It works like this: a POM may declare a repository to use in resolving certain artifacts.
However, this repository may have problems with heavy traffic at times, so people have mirrored
it to several places.

That repository definition will have a unique id, so we can create a mirror reference for that
repository, to be used as an alternate download site. The mirror site will be the preferred
server for that repository.
-->
```

XML ▾ Tab Width: 8 ▾

Ln 138, Col 13

INS

Open ▾



settings.xml

/usr/share/maven/conf

Save



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XML ▾ Tab Width: 8 ▾

Ln 138, Col 13

INS

Open ▾



settings.xml

/usr/share/maven/conf

Save



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server for that repository.
-->
```

XML ▾ Tab Width: 8 ▾

Ln 138, Col 13

INS

Applications ▾ Places ▾ gedit ▾

Fri 15:25

settings.xml
/usr/share/maven/conf

Save

Open ▾

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 <password>repopwd</password>
</server>
-->

<!-- Another sample, using keys to authenticate.
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</server>
-->

<server>
 <id>tomcat-development-server</id>
 <username>admin</username>
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</server>
</servers>

<!-- mirrors
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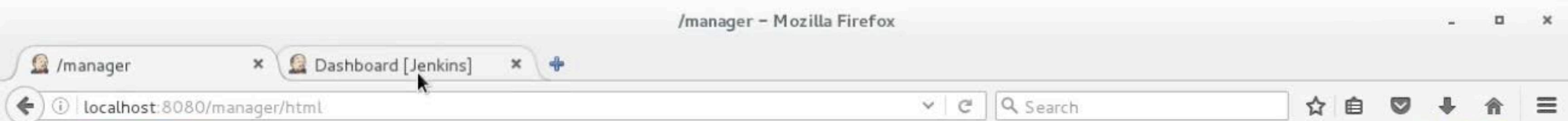
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-->

XML ▾ Tab Width: 8 ▾

Ln 139, Col 1

INS



Software Foundation
<http://www.apache.org/>

Tomcat Web Application Manager

Message: OK

Manager

[List Applications](#) [HTML Manager Help](#) [Manager Help](#) [Server Status](#)

Applications

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

3 / 4

Editing spring-petclinic/pom.xml at master · videopacktpub/spring-petclinic - Mozilla Firefox

/manager

Petclinic-Code Confi...

Editing spring-petcli...



GitHub, Inc. (US) | https://github.com/videopacktpub/spring-petclinic/edit/master/pom.xml

Search



```
297      </configuration>
298  </plugin>
299  <plugin>
300      <groupId>org.apache.maven.plugins</groupId>
301      <artifactId>maven-assembly-plugin</artifactId>
302      <version>2.4</version>
303      <configuration>
304          <descriptorRefs>
305              <descriptorRef>jar-with-dependencies</descriptorRef>
306          </descriptorRefs>
307      </configuration>
308  </plugin>
309  |
310  <plugin>
311      <groupId>org.codehaus.mojo</groupId>
312      <artifactId>cobertura-maven-plugin</artifactId>
313      <version>${cobertura.version}</version>
314      <configuration>
315          <check/>
316      </configuration>
317      <executions>
318          <execution>
319              <goals>
320                  <goal>clean</goal>
321                  <goal>check</goal>
322              </goals>
323          </execution>
324      </executions>
325  </plugin>
326  <!--Specify the encoding for copying resources-->
```

Editing spring-petclinic/pom.xml at master · videopacktpub/spring-petclinic - Mozilla Firefox

/manager

Petclinic-Code Confi...

Editing spring-petcli...



GitHub, Inc. (US) | https://github.com/videopacktpub/spring-petclinic/edit/master/pom.xml

Search



```
297      </configuration>
298  </plugin>
299  <plugin>
300      <groupId>org.apache.maven.plugins</groupId>
301      <artifactId>maven-assembly-plugin</artifactId>
302      <version>2.4</version>
303      <configuration>
304          <descriptorRefs>
305              <descriptorRef>jar-with-dependencies</descriptorRef>
306          </descriptorRefs>
307      </configuration>
308  </plugin>
309  <plugin>
310      <groupId>org.apache.tomcat.maven</groupId>
311      <artifactId>tomcat7-maven-plugin</artifactId>
312      <version>2.2</version>
313      <configuration>
314          <server>tomcat-development-server</server>
315          <url>http://localhost:8080/manager/text</url>
316          <warFile>target/petclinic.war</warFile>
317          <path>/petclinic</path>
318      </configuration>
319  </plugin>
320  <plugin>
321      <groupId>org.codehaus.mojo</groupId>
322      <artifactId>cobertura-maven-plugin</artifactId>
323      <version>${cobertura.version}</version>
324      <configuration>
325          <check/>
326      </configuration>
```

Editing spring-petclinic/pom.xml at master · videopacktpub/spring-petclinic - Mozilla Firefox

/manager

Petclinic-Code Confi...

Editing spring-petcli...



GitHub, Inc. (US)

https://github.com/videopacktpub/spring-petclinic/edit/master/pom.xml



Search



```
297      </configuration>
298  </plugin>
299  <plugin>
300      <groupId>org.apache.maven.plugins</groupId>
301      <artifactId>maven-assembly-plugin</artifactId>
302      <version>2.4</version>
303      <configuration>
304          <descriptorRefs>
305              <descriptorRef>jar-with-dependencies</descriptorRef>
306          </descriptorRefs>
307      </configuration>
308  </plugin>
309  <plugin>
310      <groupId>org.apache.tomcat.maven</groupId>
311      <artifactId>tomcat7-maven-plugin</artifactId>
312      <version>2.2</version>
313      <configuration>
314          <server>tomcat-development-server</server>
315          <url>http://localhost:8080/manager/text</url>
316          <warFile>target/petclinic.war</warFile>
317          <path>/petclinic</path>
318      </configuration>
319  </plugin>
320  <plugin>
321      <groupId>org.codehaus.mojo</groupId>
322      <artifactId>cobertura-maven-plugin</artifactId>
323      <version>${cobertura.version}</version>
324      <configuration>
325          <check/>
326      </configuration>
```

user@localhost:~/apache-tomcat-7.0.73/bin

File Edit View Search Terminal Help

```
[root@localhost user]# ls
apache-maven-3.0.5-bin.tar.gz  Documents          jdk1.8.0_111           jre-8u60-linux-x64.rpm   teamviewer.i686.rpm
apache-tomcat-7.0.73          Downloads         jdk-8u111-linux-x64.tar.gz  Music
apache-tomcat-7.0.73.tar.gz    firefox          jdk-8u60-linux-x64.rpm    Pictures
Desktop                      firefox-50.0.tar.bz2  jenkins            Public
[root@localhost user]# cd apache-tomcat-7.0.73
[root@localhost apache-tomcat-7.0.73]# cd conf
[root@localhost conf]# vi tomcat-users.xml

[1]+  Stopped                  vi tomcat-users.xml
[root@localhost conf]# .startup.sh
[root@localhost conf]# ./startup.sh
bash: ./startup.sh: No such file or directory
[root@localhost conf]# su
[root@localhost conf]# exit
[root@localhost conf]# exit
There are stopped jobs.
[root@localhost conf]# su user
[user@localhost conf]$ cd apache-tomcat-7.0.73/bin
bash: cd: apache-tomcat-7.0.73/bin: No such file or directory
[user@localhost conf]$ cd
[user@localhost ~]$ cd apache-tomcat-7.0.73/bin
[user@localhost bin]$ ./startup.sh
Using CATALINA_BASE: /home/user/apache-tomcat-7.0.73
Using CATALINA_HOME: /home/user/apache-tomcat-7.0.73
Using CATALINA_TMPDIR: /home/user/apache-tomcat-7.0.73/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /home/user/apache-tomcat-7.0.73/bin/bootstrap.jar:/home/user/apache-tomcat-7.0.73/bin/tomcat-juli.jar
Tomcat started.
[user@localhost bin]$ mvn tomcat7
```

user@localhost:~/apache-tomcat-7.0.73/bin

File Edit View Search Terminal Help

```
apache-maven-3.0.5-bin.tar.gz  Documents  
apache-tomcat-7.0.73          Downloads  
apache-tomcat-7.0.73.tar.gz    firefox  
Desktop                         firefox-50.0.tar.bz2  
[root@localhost user]# cd apache-tomcat-7.0.73  
[root@localhost apache-tomcat-7.0.73]# cd conf  
[root@localhost conf]# vi tomcat-users.xml
```

```
[1]+ Stopped                  vi tomcat-users.xml  
[root@localhost conf]# .startup.sh  
[root@localhost conf]# ./startup.sh  
bash: ./startup.sh: No such file or directory  
[root@localhost conf]# su  
[root@localhost conf]# exit  
[root@localhost conf]# exit  
There are stopped jobs.  
[root@localhost conf]# su user  
[user@localhost conf]$ cd apache-tomcat-7.0.73/bin  
bash: cd: apache-tomcat-7.0.73/bin: No such file or directory  
[user@localhost conf]$ cd  
[user@localhost ~]$ cd apache-tomcat-7.0.73/bin  
[user@localhost bin]$ ./startup.sh  
Using CATALINA_BASE: /home/user/apache-tomcat-7.0.73  
Using CATALINA_HOME: /home/user/apache-tomcat-7.0.73  
Using CATALINA_TMPDIR: /home/user/apache-tomcat-7.0.73/temp  
Using JRE_HOME: /usr  
Using CLASSPATH: /home/user/apache-tomcat-7.0.73/bin/bootstrap.jar:/home/user/apache-tomcat-7.0.73/bin/tomcat-juli.jar  
Tomcat started.  
[user@localhost bin]$ mvn tomcat7:deploy
```

```
jdk1.8.0_111           jre-8u60-linux-x64.rpm  teamviewer.i686.rpm  
jdk-8u111-linux-x64.tar.gz  Music  
jdk-8u60-linux-x64.rpm    Pictures  
jenkins                 Public
```

user@localhost:~/apache-tomcat-7.0.73/bin

File Edit View Search Terminal Help

```
[user@localhost bin]$ ./startup.sh
Using CATALINA_BASE: /home/user/apache-tomcat-7.0.73
Using CATALINA_HOME: /home/user/apache-tomcat-7.0.73
Using CATALINA_TMPDIR: /home/user/apache-tomcat-7.0.73/temp
Using JRE_HOME: /usr
Using CLASSPATH: /home/user/apache-tomcat-7.0.73/bin/bootstrap.jar:/home/user/apache-tomcat-7.0.73/bin/tomcat-juli.jar
Tomcat started.
[user@localhost bin]$ mvn tomcat7:deploy
[INFO] Scanning for projects...
Downloading: http://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml
Downloading: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml
Downloaded: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml (13 KB at 2.0 KB/sec)
Downloaded: http://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (20 KB at 3.1 KB/sec)
[INFO] -----
[INFO] BUILD FAILURE
[INFO] -----
[INFO] Total time: 10.399s
[INFO] Finished at: Fri Dec 02 15:30:38 IST 2016
[INFO] Final Memory: 7M/106M
[INFO] -----
[ERROR] No plugin found for prefix 'tomcat7' in the current project and in the plugin groups [org.apache.maven.plugins, org.codehaus.mojo] available from the repositories [local (/home/user/.m2/repository), central (http://repo.maven.apache.org/maven2)]
] -> [Help 1]
[ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/NoPluginFoundForPrefixException
[user@localhost bin]$
```

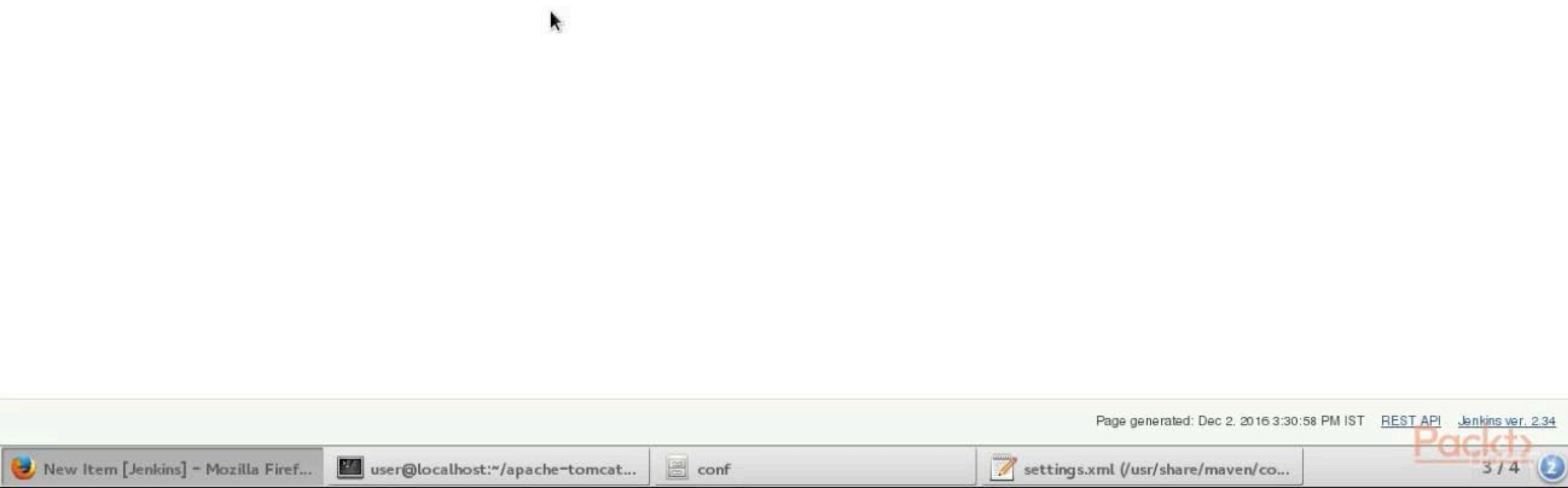
Applications ▾ Places ▾ Firefox Web Browser ▾ Fri 15:31

New Item [Jenkins] – Mozilla Firefox

/manager × New Item [Jenkins] × Editing spring-petclini... × +

localhost:9999/view/All/newJob ⌂ Search

Jenkins | search | Packt Pub | log out



Jenkins

Jenkins All

Enter an item name

PetClinic-Deploy 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.

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

Waiting for localhost...

OK

New Item [Jenkins] - Mozilla Fire... user@localhost:/~apache-tomcat... conf settings.xml (/usr/share/maven/co... Packt 3 / 4

Editing spring-petclinic/pom.xml at master · videopacktpub/spring-petclinic - Mozilla Firefox

/manager

PetClinic-Deploy Con...

Editing spring-petcli...



GitHub, Inc. (US)

https://github.com/videopacktpub/spring-petclinic/edit/master/pom.xml



Search



```
386      </configuration>
387      </plugin>
388    </plugins>
389  </build>
390 </profile>
391 <profile>
392   <id>less-install</id>
393   <build>
394     <plugins>
395       <plugin>
396         <groupId>org.lesscss</groupId>
397         <artifactId>lesscss-maven-plugin</artifactId>
398         <version>1.7.0.1.1</version>
399         <configuration>
400           <sourceDirectory>${project.basedir}/src/main/webapp/resources/less</sourceDirectory>
401           <outputDirectory>${project.basedir}/src/main/webapp/resources/css</outputDirectory>
402           <compress>true</compress>
403           <includes>
```



Commit changes

Update pom.xml

Add an optional extended description:

 Commit directly to the master branch. Create a new branch for this commit and start a pull request. Learn more about pull requests.

Commit changes

Cancel



Jenkins > PetClinic-Deploy >

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

Source Code Management

None
 Git

Repositories

Repository URL

Credentials

Branches to build

Branch Specifier (blank for 'any')

Repository browser

Subversion

Paste

Undo
Cut
Copy
Advanced...
Add Repository
Delete
Select All
Add a Keyword for this Search...
Check Spelling
Inspect Element (Q)

Packt

PetClinic-Deploy Config [Jenkins] – Mozilla Firefox

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localhost:9999/job/PetClinic-Deploy/configure Search

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

Repositories

Repository URL: https://github.com/videopacktpub/spring-petclinic
Please enter Git repository.

Credentials: - none - Add Advanced... Add Repository

Branches to build

Branch Specifier (blank for 'any'): */master Add Branch

Repository browser: (Auto)

Additional Behaviours: Add Subversion

Build Triggers

Save Apply

Packt

PetClinic-Deploy Config [Jenkins] - Mozilla Firefox

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General Source Code Management

Build Triggers

Build Environment

Build Post-build Actions

Subversion

Build Triggers

- Trigger builds remotely (e.g., from scripts) ?
- Build after other projects are built ?
- Build periodically ?
- Build when a change is pushed to GitHub ?
- Poll SCM ?

Build Environment

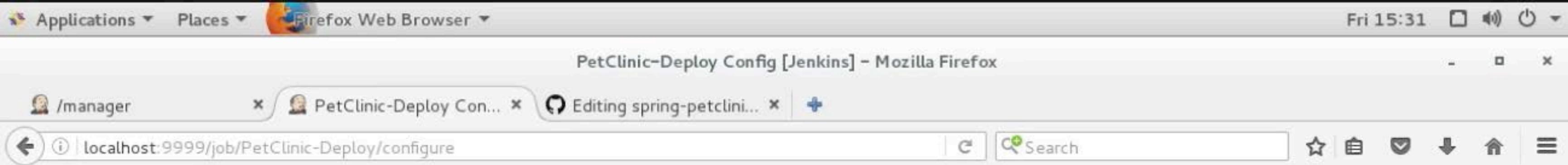
- Delete workspace before build starts ?
- Abort the build if it's stuck ?
- Add timestamps to the Console Output ?
- Prepare SonarQube Scanner environment ?
- SSH Agent ?

Use secret text(s) or file(s)

Save

Apply

Build



PetClinic-Deploy Config [Jenkins] - Mozilla Firefox

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

ADVANCED BUILD TIME STAMPS

- Add timestamps to the Console Output
- Prepare SonarQube Scanner environment
- SSH Agent
- Use secret text(s) or file(s)

Build

Add build step

Post-build Actions

Add post-build action

Save Apply

PetClinic-Deploy Config [Jenkins] - Mozilla Firefox

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

ADVANCED BUILD TIME STAMPS

Add timestamps to the Console Output.

Prepare SonarQube Scanner environment

SSH Agent

Use secret text(s) or file(s)

Build

Invoke top-level Maven targets

Maven Version (Default)

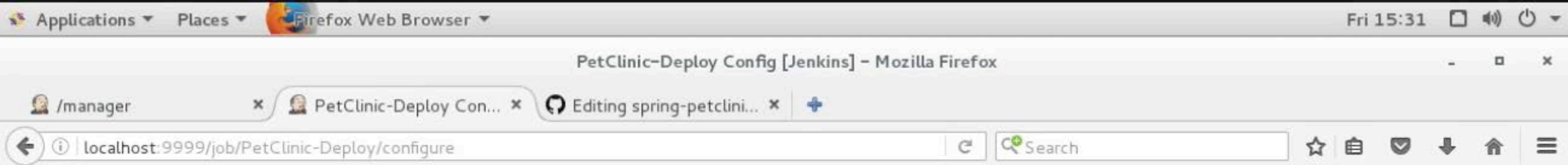
Goals

Advanced...

Add build step ▾

Post-build Actions

Save Apply



Post-build Actions

Save

Apply

PetClinic-Deploy Config [Jenkins] - Mozilla Firefox

/manager

PetClinic-Deploy Con... ▾

Editing spring-petclini... ▾

localhost:9999/job/PetClinic-Deploy/configure

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

Build

Invoke top-level Maven targets

Maven Version (Default)

Goals tomcat7:redeploy

Advanced...

Add build step ▾

Post-build Actions

Add post-build action ▾

Save Apply

This screenshot shows the Jenkins configuration interface for the 'PetClinic-Deploy' job. The 'Build' tab is selected. Under the 'Invoke top-level Maven targets' section, the 'Goals' field contains 'tomcat7:redeploy'. The 'Post-build Actions' section has a 'Save' button highlighted.

PetClinic-Deploy #1 Console [Jenkins] - Mozilla Firefox

/manager x PetClinic-Deploy #1 ... x Editing spring-petcli... x +

localhost:9999/job/PetClinic-Deploy/1/console

Search

Jenkins > PetClinic-Deploy > #1

```
First time build. Skipping changelog.  
[PetClinic-Deploy] $ mvn tomcat7:redeploy  
[INFO] Scanning for projects...  
[WARNING]  
[WARNING] Some problems were encountered while building the effective model for org.springframework.samples:spring-petclinic:war:4.2.6-SNAPSHOT  
[WARNING] 'build.plugins.plugin.version' for org.apache.maven.plugins:maven-resources-plugin is missing. @ line 337, column 21  
[WARNING] 'dependencies.dependency.exclusions.exclusion.artifactId' for org.springframework.data:spring-data-jdbc-core:jar with  
value '*' does not match a valid id pattern. @ line 105, column 33  
[WARNING]  
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.  
[WARNING]  
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.  
[WARNING]  
[INFO]  
[INFO] -----  
[INFO] Building petclinic 4.2.6-SNAPSHOT  
[INFO] -----  
[INFO]  
[INFO] >>> tomcat7-maven-plugin:2.2:redeploy (default-cli) @ spring-petclinic >>>  
[INFO]  
[INFO] --- maven-resources-plugin:2.5:resources (default-resources) @ spring-petclinic ---  
[debug] execute contextualize  
[INFO] Using 'UTF-8' encoding to copy filtered resources.  
[INFO] Copying 20 resources  
[INFO]  
[INFO] --- maven-compiler-plugin:3.0:compile (default-compile) @ spring-petclinic ---  
*
```

PetClinic-Deploy #1 Console [Jenkins] - Mozilla Firefox

/manager x PetClinic-Deploy #1 ... x Editing spring-petcli... x +

localhost:9999/job/PetClinic-Deploy/1/console

Search

Jenkins > PetClinic-Deploy > #1

```
[Fri Dec 02 15:33:03 IST 2016]; root of context hierarchy
INFO LocalContainerEntityManagerFactoryBean - Closing JPA EntityManagerFactory for persistence unit 'petclinic'
INFO LocalContainerEntityManagerFactoryBean - Closing JPA EntityManagerFactory for persistence unit 'petclinic'
```

Results :

Tests run: 62, 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 [/home/user/.jenkins/workspace/PetClinic-Deploy/target/petclinic]
[INFO] Processing war project
[INFO] Copying webapp resources [/home/user/.jenkins/workspace/PetClinic-Deploy/src/main/webapp]
[INFO] Webapp assembled in [2865 msec]
[INFO] Building war: /home/user/.jenkins/workspace/PetClinic-Deploy/target/petclinic.war
[INFO]
[INFO] <<< tomcat7-maven-plugin:2.2:redeploy (default-cli) @ spring-petclinic <<<
[INFO]
```

[INFO] --- tomcat7-maven-plugin:2.2:redeploy (default-cli) @ spring-petclinic ---

```
[INFO] Deploying war to http://localhost:8080/petclinic
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Uploading: http://localhost:8080/manager/text/deploy?path=%2Fpetclinic&update=true
```

20002/33634 KB
20004/33634 KB
20006/33634 KB
20008/33634 KB
20010/33634 KB
20012/33634 KB
20014/33634 KB
20016/33634 KB

PetClinic-Deploy #1 Console [Jenkins] - Mozilla Firefox

/manager

PetClinic-Deploy #1 ...

Editing spring-petclini...



localhost:9999/job/PetClinic-Deploy/1/console

Search



Jenkins > PetClinic-Deploy > #1

```
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33622/33634 KB  
33624/33634 KB  
33626/33634 KB  
33628/33634 KB  
33630/33634 KB  
33632/33634 KB  
33634/33634 KB
```

Uploaded: <http://localhost:8080/manager/text/deploy?path=%2Fpetclinic&update=true> (33634 KB at 6725.4 KB/sec)

```
[INFO] tomcatManager status code:200, ReasonPhrase:OK  
[INFO] OK - Deployed application at context path /petclinic  
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 1:50.869s  
[INFO] Finished at: Fri Dec 02 15:34:08 IST 2016  
[INFO] Final Memory: 29M/237M  
[INFO] -----  
Finished: SUCCESS
```

Next Video

Integrating the Deployment Operation