Capitomcat Plugin

Capitomcat is

Capitomcat plugin deploy the WAR file to multiple remote Tomcat servers using Capitomcat which is Capistrano 3 recipe and library for Tomcat deployment.

See also : Capitomcat homepage

And also, You don't need to install Ruby and Capistrano 3 on your Jenkins box. Capitomcat and Capistrano 3 are running on the Jenkins Ruby runtime.
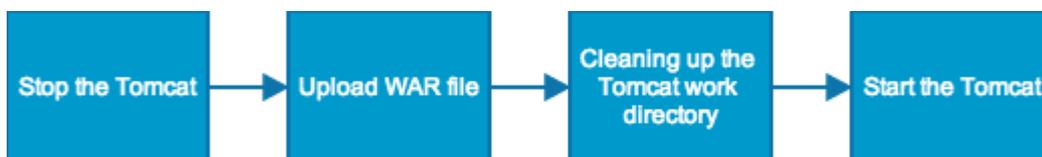
Tested OS list

Please check the link in below. Capitomcat is tested on a lot of Linux environment.

https://github.com/sunggun-yu/capitomcat-test-vagrant

Capitomcat plugin supports 2 way deployment.

Basic

Basic deployment is usual way for Tomcat deployment. Capitomcat will upload the WAR file under your $TOMCAT_HOME/webapps directy.

Basic deployment is the default for Capitomcat deployment.

⊞ Deploy WAR file to Tomcat via Capitomcat

Host and Authentication config

Hosts

dev01,dev02

The remote host names ex) dev01,dev02

User account

deploy

User account to login

Global Credential Config

◉ Use system default credential

◯ Select SSH public key file

◯ Use password

Deploy Config

WAR file

$WORKSPACE/target/test-webapp.war

The WAR file that to be deployed to remote tomcat server. also, you can use Jenkins env-vars. ex) $WORKSPACE/target/app.war

Parallel Mode   ◉ Yes◯ No

Parallel or Sequential for deployment task

☐ Use Context updating

Show verbose log message   ◉ Yes◯ No

Tomcat Server Information

Tomcat Home

/var/lib/tomcat7

Tomcat home directory

Tomcat user name

tomcat7

The owner user of Tomcat home directory.

Tomcat group name

tomcat7

The owner group of Tomcat home directory.

Tomcat command

/etc/init.d/tomcat7

Tomcat executable command. for example, /etc/init.d/tomcat or /your/tomcat/home/bin/catalina.sh can be used. please make sure not to include start or stop parameter.

Use tomcat user for executing tomcat command   ◯ Yes◉ No

If you check "Yes", tomcat command will be executed like, "sudo -u tomcat7 /var/tomcat7/bin/catalina.sh start|stop". in this case, your deploy user may need permission for tomcat user.

📝 Advanced...

Delete

With updating Context file

Also, Capitomcat supports deploment with updating contex.xml file. if you want keep the old release WAR file or give some build number for WAR file, this will be very helpful.

```
Upload WAR file  →  Upload the modified context.xml file  →  Stop the Tomcat  →  Cleaning up the Tomcat work directory  →  Start the Tomcat
```

Deploy Config

WAR file	$WORKSPACE/target/test-webapp.war

The WAR file that to be deployed to remote tomcat server. also, you can use Jenkins env-vars. ex) $WORKSPACE/target/app.war

Parallel Mode ⦿ Yes ◯ No

Parallel or Sequential for deployment task

☑ Use Context updating

Context name	test-web

Context name of application. ex) test-web

Context path	/test-web

Context path name of application. ex) /test-web

Context docBase(WAR file path)	/var/test-web/webapps/test-web-$BUILD_NUMBER.war

The path name to the web application archive file. also, you can use Jenkins env-vars. ex) /var/app/war/test-web-$BUILD_NUMBER.war or /var/lib/tomcat7/webapps/test-web.war

Show verbose log message ⦿ Yes ◯ No

Authentication & Authorisation

Basically, Capitomcat supports password input. by the way, that password will be saved as plain text in your config file. I'm trying to use certification plugin. but, for security, please consider using public key authentication.

And also, Capitomcat is following Authentication & Authorisation guide line of Capistrano.

please refer to Authentication & Authorisation page on the Capistrano home page for more detail about Authentication & Authorisation.

Host and Authentication config

Hosts	dev01,dev02

The remote host names ex) dev01,dev02

User account	deploy

User account to login

Global Credential Config

◯ Use system default credential

◯ Select SSH public key file

⦿ Use password

PW	•••••••••••••••

NOPASSWD Setting

At least of following NOPASSWD setting is required to use Capitomcat.

```
%your_deploy_user_name ALL=NOPASSWD:/etc/init.d/tomcat7 <Your tomcat command>
%your_deploy_user_name ALL=(<your_tomcat_user> : <your_tomcat_user_group>) NOPASSWD: ALL
```

Advanced Setting : Tomcat Virtual Host setting

Capitomcat Jenkins plugin is following virtual hosting setting convention of Tomcat.

Open Issues

Open Issues

Change logs

v0.1.0

- Updating Capitomcat library version - 1.2.1
  - Updating Capistrano dependency version - 3.3.5
- Can choose the way how to execute the remote tomcat command to apply pty option correctly. you can select the option in advanced menu : `Use background execution for Tomcat command`.
  - No - Using Normal script(Default) : It follows the global pty option.
  - Yes - Using Background script : It makes pty false in some OS even though global pty is true. for example, RHEL 5.6

for more details, please refer to https://github.com/jenkinsci/capitomcat-plugin/releases/tag/capitomcat-0.1.0

V0.0.11

https://github.com/jenkinsci/capitomcat-plugin/releases/tag/capitomcat-0.0.11

Bug fix : Upgrading issue on ssh port default value.

- ssh port value is null after upgrade to 0.0.10
- adding null check and invalid number value on ssh port.
- ssh port value will be ignored if it is invalid.

V0.0.10

https://github.com/jenkinsci/capitomcat-plugin/releases/tag/capitomcat-0.0.10

- Fix default value issue. default value was disappeared.
- Adding configurable SSH port option.** It supports custom ssh port host. such like Vagrant port forwarding.
- Adding Jenkins Builder.** The Capitomcat deployment can be added in pre and post build step.** It supports multiple Tomcat hosts that has different server setting in each other.

V0.0.9

https://github.com/jenkinsci/capitomcat-plugin/releases/tag/capitomcat-0.0.9

- Bug fix : Potential fix to allow updating the advanced configuration fields.

v0.0.8

https://github.com/jenkinsci/capitomcat-plugin/releases/tag/capitomcat-0.0.8

- Support custom variable injection : please refer to release note in Github (with screenshot)

v0.0.7

https://github.com/jenkinsci/capitomcat-plugin/releases/tag/capitomcat-0.0.7

- BUG-FIX : Config reload - property tomcat port number take default.

v0.0.6

https://github.com/jenkinsci/capitomcat-plugin/releases/tag/capitomcat-0.0.6

- Unpacked WAR directory is not refreshed. eventually, Tomcat doesn't provide latest changes in new WAR file by this issue.
- Thanks to @jwcarman

v0.0.5

https://github.com/sunggun-yu/jenkins-capitomcat-plugin/releases/tag/capitomcat-0.0.5

- Add functionality to select PTY options for global SSH setting : it fix deployment problem of some particular OS environment. ex) CentOS 6.5

Global SSH Option

Select PTY option   ○ True ⦿ False

- Bug Fix for white space on host name section

v0.0.4.1

Apply the Capitomcat v1.1.3 changes : https://github.com/sunggun-yu/capitomcat/blob/master/CHANGES.md

- Bug Fix : There was space between "-" and "u" at Tomcat work directory cleaning task.

v0.0.3

Apply the Capitomcat v1.1.1 and v1.1.2 changes : https://github.com/sunggun-yu/capitomcat/blob/master/CHANGES.md

- Bug Fix : Some Tomcat startup script need to be executed in background #6 (https://github.com/sunggun-yu/capitomcat/issues/6)** Start/stop command has modified to be executed in the background.** Adding sleep time after command is executed.
- Bug Fix : SSHKIT test and within not properly working at CentOS5.x #7 (https://github.com/sunggun-yu/capitomcat/issues/7)** Removing within method** Adding checking method for remote directory and file existing.

v0.0.2

- Bug Fix : [v0.0.1]Config information not refreshed after built.

v0.0.1

- First Release of Capitomcat Jenkins plugin