WAS Builder Plugin

Plugin Information
View WAS Builder on the plugin site for more information.

This plugin allows Jenkins to invoke IBM WebSphere Application Server's **wsadmin** as a build step.

About this plugin

This plugin allows to invoke the **wsadmin** command of IBM WebSphere Application Server (WAS) 6.0/6.1/7.0 as a build step. It can be used for example to deploy a freshly built application (self-promo: using the RAD Builder Plugin).

This plugin supports:

- WAS 6.0 (versions 1.0 to 1.6 successfully tested with WAS 6.0.2.15 – should work with other 6.0.2.x versions)
- WAS 6.1 (not yet tested)
- WAS 7.0 (version 1.1 to 1.6 successfully tested with Administration Thin Client built from WAS 7.0.0.7 – should work with other 7.0.0.x versions)
- WAS 8.0 (version 1.6 successfully tested with full WebSphere v8 non-ND installation – thanks Ilko Iliev for the feedback)

User guide

Before adding a WAS build step to a job, the WAS Builder plugin must be configured as follow:

- First, one or several WAS installations must be defined in Jenkins' main configuration panel (cf. upper part of the screenshot below). These WAS installations must not necessarily correspond to some running WAS servers: The plugin simply uses their wsadmin command (the one located in the `bin` folder of the installed product) to connect to remote servers.

- Once at least one installation is defined, you need to save the changes and to go back to Jenkins' main configuration panel to be able to define the servers that the jobs will use (lower part of the screenshot above).

Once at least one server is defined, it's possible to add some "IBM WebSphere Application Server 6.x/7.x" build steps to your jobs (cf. screenshot below). Most of **wsadmin** options can be controlled through the GUI. Take a look at the inline help (the little question marks located on the right of each field) to know more about each feature.

IBM WebSphere Application Server 6.x/7.x

WAS server	██████████████████
Language	Jacl
Commands	
Script file	wed/jacl/start_stop_server.tcl
	Path relative to the workspace of the project
Parameters	████████████ $WORKSPACE/███████████████████ stop
Profile script files	
	Path relative to the workspace of the project
Properties files	
	Paths relative to the workspace of the project
Java options	
Additional classpath	
Job ID	
Trace file	
	Path relative to the workspace of the project
	☐ Append trace
Run if	STOP_SERVER

The **Run if** field doesn't correspond to a **wsadmin** option. It can be used to dynamically enable/disable a build step for a particular run: If **Run if** is defined (let's say with the `STOP_SERVER` value) for a build step, then the build step will be run if and only if:

- a build variable with the same name (in our case, `STOP_SERVER`) is defined and has a value,
- or (exclusive) if no build variable with the same name is defined and an environment variable with the same name (still `STOP_SERVER` in our example) is defined, whether it has a value or nor.

> When defining a build step for WAS 6.0, be sure to refer to the inline help to know if you can use it: Some options (job ID, trace file, etc.) are available only for WAS 6.1 or greater.

> Check-out this post on IBM developerWorks to get an introduction on how this plugin can be used (thanks Ilko).

Version history

Version 1.6.1 (10/20/2011)

- Fixed JENKINS-11104: `wsadmin` was not working when used with `sudo`

Version 1.6 (08/07/2011)

- Update for Jenkins

Version 1.5 (04/23/2010)

- Added a new **Wsadmin command** field (at the WAS installation level) allowing to tweak the `wsadmin.bat/wsadmin.sh` command actually run, for example to prefix it with `sudo`.
- The list of WAS servers is now alphabetically sorted when saving the global configuration.

Version 1.4 (04/13/2010)

- The **Run if** option now allows to use boolean parameters in addition to build or environment variables.

Version 1.3 (04/13/2010)

- Added an option which allows creating automatically, if the locks-and-latches plugin is installed, one lock per defined WAS server.

Version 1.2 (04/06/2010)

- Added an option for allowing the **wsadmin** user/password at the build step level.

Version 1.1 (03/30/2010)

- Added the support for administration thin clients.

Version 1.0.1 (01/24/2010)

- Bug fix: Installations defined for slave nodes were not taken into account; The plugin was always referring to the installation on the master node.

Version 1.0 (12/18/2009)

- Initial release