

XPath Configuration Viewer

Plugin Information

View XPath Configuration Viewer [on the plugin site](#) for more information.

This plugin adds a new link "XPath Configuration Viewer" to the Jenkins Management page. It provides a simple and easy way to check job configurations having a huge number of jobs.

General

Do you have more than 50 Jenkins jobs to administrate? Do you use several plugins that have all individual entries in the job's config.xml files? Then this plugin can help you a lot.

It takes the idea of the [configuration slicing plugin](#) using a more generic approach. XPath expressions are used to filter all jobs, that match to it. The resulting table shows all variations of the XPath-selected XML-snippets in the left column. The right column shows for each XML-snippet all jobs having this exact XML-snippet.

In this way, it is easy to see, if a job is missing or misplaced in a list of jobs for an XML-snippet. Each job title is directly linked to its configuration page.

How to use

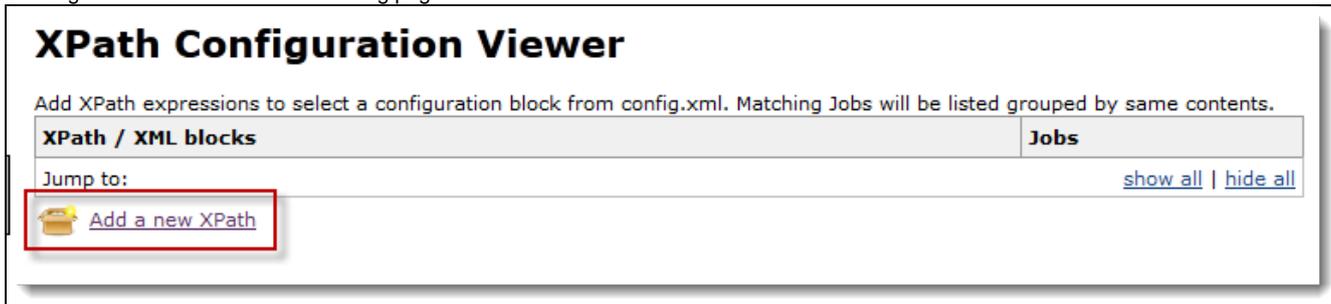
The XPath Configuration Viewer plugin can only be used by users with administrator rights!

The plugin integrates in the list of management links on the `.../manage` page.



The screenshot shows a list of management links on the Jenkins interface. The links are: 'Restart Safely' (Restart once no jobs are running.), 'Common Configuration Viewer' (View configurations across all jobs selected by xpath), and 'Prepare for Shutdown' (Stops executing new builds, so that the system can be eventually shut down safely.). The 'Common Configuration Viewer' link is highlighted with a red rectangular box.

Clicking on the link leads to the following page:



The screenshot shows the 'XPath Configuration Viewer' page. It has a title 'XPath Configuration Viewer' and a subtitle 'Add XPath expressions to select a configuration block from config.xml. Matching Jobs will be listed grouped by same contents.' Below the subtitle is a table with two columns: 'XPath / XML blocks' and 'Jobs'. There is a 'Jump to:' label and a 'show all | hide all' link. The 'Add a new XPath' button is highlighted with a red rectangular box.

It shows a table with two columns. The left column for the XML-snippets and the right column for the jobs having this snippet.

Clicking on the "Add a new XPath"-link opens this dialog:

Edit XPath expression

XPath configuration

ID	<input type="text" value="XPathConfigProvider.1326298020534"/>
Name	<input type="text" value="config.xml block"/>
Job Filter Regexp	<input type="text"/>
Content	<input type="text" value="/project"/>

It has 4 fields:

field	function	sample
ID	internal ID of the XPath expression	XPathConfigProvider.1326298020534
Name	Name for the XPath expression that describes, what to look for	which node is assigned?
Job Filter Regexp	Regular expression to filter the jobs by their names	^\.MyJob-\. \$
Content	XPath expression to select an XML-snippet from the jobs config.xml files	//assignedNode

On saving the new XPath configuration, it is stored into an XML file in the jenkinshome directory using the org.jenkins-ci.lib::config-provider-model::1.1.

The XPath Configuration Viewer shows something like the following:

XPath Configuration Viewer

Add XPath expressions to select a configuration block from config.xml. Matching Jobs will be listed grouped by same contents.

XPath / XML blocks	Jobs
Jump to: which node is assigned for Jobs? which node is assigned show all hide all	
which node is assigned for Jobs? XPath: //assignedNode Job Filter: [j]ob	+ [edit] [delete]
which node is assigned XPath: //assignedNode Job Filter:	+ [edit] [delete]

[Add a new XPath](#)

All configured XPath expressions are listed in a collapsed table. The results of each expression can be opened by clicking on the plus sign on the right side in the table row. The other two signs are for editing and deleting of the row.

In the title row, all configured XPath expressions are listed by their names. These are anchor links to jump directly down the page to the corresponding block. With the two links right of this list it is possible to open and close all rows at once.

XPath Configuration Viewer

Add XPath expressions to select a configuration block from config.xml. Matching Jobs will be listed grouped by same contents.

XPath / XML blocks	Jobs
Jump to: which node is assigned for Jobs? which node is assigned show all hide all	
which node is assigned for Jobs? XPath: //assignedNode Job Filter: [j]ob	+ [edit] [delete]
<assignedNode>slave02</assignedNode>	jobTwo
<assignedNode>slave</assignedNode>	MavenJob testJob
which node is assigned XPath: //assignedNode Job Filter:	+ [edit] [delete]
<assignedNode>slave02</assignedNode>	jobTwo
<assignedNode>slave</assignedNode>	MavenJob testJob
<!-- not assigned -->	jboss multi

[Add a new XPath](#)

Jobs not matching to an XPath expression are listed as last row of a configuration block.

Using the link behind the job names leads to the corresponding job configuration page.

Version history

1.1.1 (May 21, 2012)

- Changed XPath result output to show all matches if expression selects multiple config nodes.

1.1.0 (Mar 07, 2012)

- Added a comparator to order the configs by their ids. Now they keep the order in which they are created.

1.0.8 (Jan 31, 2012)

- In respect to Ullrich Hafners email of Jan 31, 2012 "Plug-in should not depend on jenkins-core > LTS version" I downgraded the dependency to 1.424.

1.0.6 (Jan 11, 2012)

- After a longer fight with maven, I finally managed to release the plugin to the jenkins nexus.

1.0 (Jan 08, 2012)

- Plugin creation, initial checkin. Waiting for GIT integration...