

Project JMeter

Information:

- The Apache JMeter application is open source software, a 100% pure Java application designed to load test functional behavior and measure performance. It was originally designed for testing Web Applications. <http://jmeter.apache.org/>
- With our actions, you can build testplans, which send HTTP POST and GET Requests to a web page, or execute a testplan that already exists.

Team:

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Use:

Take a look at [Action - Descriptions](#) to see how to use our actions

Requirements:

Fully compliant JVM 7 or higher. <http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>

Action - Descriptions

Action - "Execute Testplan"

In this action, an Apache-JMeter testplan is executed with or without optional parameters(depends on case of use) and evaluated.

This action has two usecases:

Case 1: This action is invoked within an other action (PromptSet is not used)

- "Execute Testplan" gets all necessary information from the the PromptSet of the action where "Execute Testplan" is used in and executes the testplan with this gotten parameters
- it also creates a temporary log, which is used to evaluate the testplan

Case 2: This action is invoked without any other action

- **PromptSet:**

Label	Description	Example
"Testplan path"	Insert the path + filename of your testplan that you have built before.	C:\apache-jmeter-3.0\bin\test\exampleRequest.jmx
"Expected response code"	Insert the response-code you expect for every response (a response with response-code 200 is successful). If you leave this field empty, it is set to 200.	200
"Threshold unstable (%)"	Define a threshold, to let the action know how many requests may fail to reveal an unstable test. Don't set this threshold higher than "Threshold failed (%)".	10
"Threshold failed (%)"	Define a threshold, to let the action know how many requests may fail to reveal a failed test. Don't set this threshold lower than "Threshold unstable (%)".	20
"Save report file"	Decide whether the .jtl file (report of the executed testplan) should be saved, or not.	yes

- "Execute Testplan" becomes a fix testplan and executes it
- it also creates a temporary log, which is used to evaluate the testplan

In both cases you get an evaluation in the report(REP) in the form displayed below:

```
Executed tests: 3
Successful tests: 3
=> 100% were successful
Test was SUCCESSFUL.
```

Whether the test was "SUCCESSFUL", "UNSATBLE" or "FAILED", depends on the success-rate and the set thresholds.

If the test failed, you get the content of the temporary report too, to take a closer look, what went wrong.

Action - "Test HTTP GET Request"

In this action, a simple HTTP-Get-Request testplan is built with entered paramaters(web page, amount of requests, etc.) and executed.

You set a target and a handful other options and "Test HTTP GET Request" sends get-requests to the target and creates a temporary log,

which is used to evaluate the testplan.

■ **PromptSet:**

Label	Description	Example
"Website to test"	Insert the url of the website you want to test.	www.automic.com
"Expected response code"	Insert the response-code you expect for every response (a response with response-code 200 is successful). If you leave this field empty, it is set to 200.	200
"Number of threads (users)"	Insert the number of threads you want to run (each thread runs the number of loops).	2
"Number of loops"	Insert the number of loops you want every thread to run.	5
"Threshold unstable (%)"	Define a threshold, to let the action know how many requests may fail to reveal an unstable test. Don't set this threshold higher than "Threshold failed (%)".	10
"Threshold failed (%)"	Define a threshold, to let the action know how many requests may fail to reveal a failed test. Don't set this threshold lower than "Threshold unstable (%)".	20
"Save report file"	Decide whether the .jtl file (report of the executed testplan) should be saved, or not.	no

After executing the testplan, you get the evaluation in the report(REP) in the form displayed below

```
Executed tests: 10
Successful tests: 10
=> 100% were successful
Test was SUCCESSFUL.
```

Whether the test was "SUCCESSFUL", "UNSATBLE" or "FAILED", depends on the success-rate and the set thresholds.

If the test failed, you get the content of the temporary report too, to take a closer look, what went wrong.

Action - "Test HTTP POST Request"

In this Action, a HTTP-Post-Request testplan is built with entered parameters(key-value pair, amount of requests, etc.) and executed.

You set a target and a handful other options and "Test HTTP Post Request" sends post-requests to the target and creates a temporary log, which is used to evaluate the testplan.

■ **PromptSet:**

Label	Description	Example
"Website to test"	Insert the url of the website you want to test.	www.posttestserver.com/post.php
"Expected response code"	Insert the response-code you expect for every response (a response with response-code 200 is successful). If you leave this field empty, it is set to 200.	200
"Parameters"	Insert the key-value pair(s) you want to send.	forename=peter&surname=alexander
"Number of threads (users)"	Insert the number of threads you want to run (each thread runs the number of loops).	3
"Number of loops"	Insert the number of loops you want every thread to run.	1

"Threshold unstable (%)"	Define a threshold, to let the action know how many requests may fail to reveal an unstable test. Don't set this threshold higher than "Threshold failed (%)".	10
"Threshold failed (%)"	Define a threshold, to let the action know how many requests may fail to reveal a failed test. Don't set this threshold lower than "Threshold unstable (%)".	20
"Save report file"	Decide whether the .jtl file (report of the executed testplan) should be saved, or not.	yes

After executing the testplan, you get the evaluation in the report(REP) in the form displayed below

```
Executed tests: 3
Successful tests: 3
=> 100% were successful
Test was SUCCESSFUL.
```

Whether the test was "SUCCESSFUL", "UNSATBLE" or "FAILED", depends on the success-rate and the set thresholds.

If the test failed, you get the content of the temporary report too, to take a closer look, what went wrong.