**Assertions**

Assertions are used to perform additional checks on samplers, and are processed after every sampler in the same scope. To ensure that an Assertion is applied only to a particular sampler, add it as a child of the sampler.

**Note:** Unless documented otherwise, Assertions are not applied to sub-samples (child samples) – only to the parent sample. In the case of BSF and BeanShell Assertions, the script can retrieve sub-samples using the method prev.getSubResults() which returns an array of Sample Results. The array will be empty if there are none.

Versions of Jmeter after 2.3.2 include the option to apply certain assertions to the main sample, the sub-samples or both. The default is to apply the assertion to the main sample only.

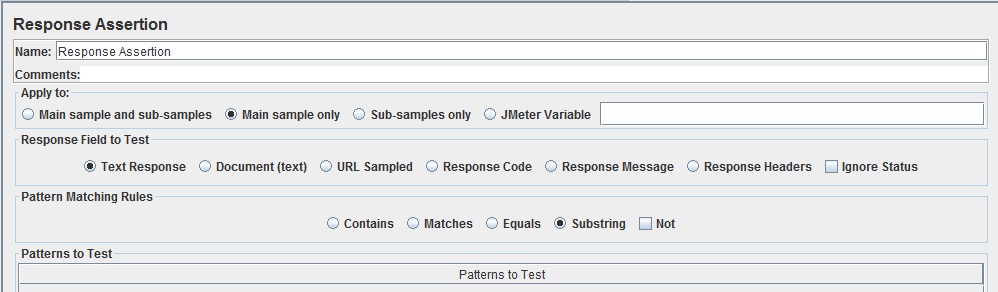
Assertion help verify that your server under test returns the**expected** results.

Following are some commonly used Assertion in JMeter:

* [Response Assertion](http://www.guru99.com/assertions-in-jmeter.html#ResponseAssertion)
* [Duration Assertion](http://www.guru99.com/assertions-in-jmeter.html#DurationAssertion)
* [Size Assertion](http://www.guru99.com/assertions-in-jmeter.html#SizeAssertion)
* [XML Assertion](http://www.guru99.com/assertions-in-jmeter.html#XMLAssertion)
* [HTML Assertion](http://www.guru99.com/assertions-in-jmeter.html#HTMLAssertion)

**Response Assertion:**The response assertion lets you add pattern strings to be compared against various fields of the server response.

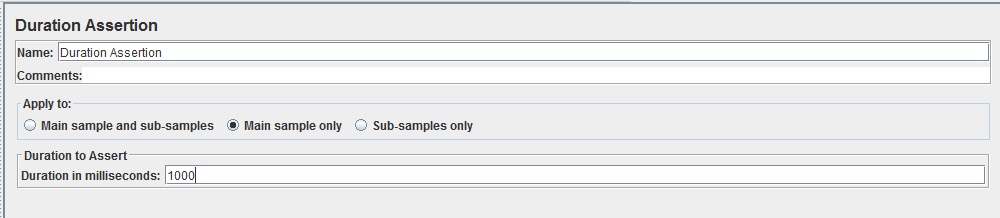
For example, you send a user request to the website [http://www.google.com](http://www.google.com/) and get the server response. You can use Response Assertion to verify if the server response contains expected pattern string (e.g. "OK").



**Parameters:**

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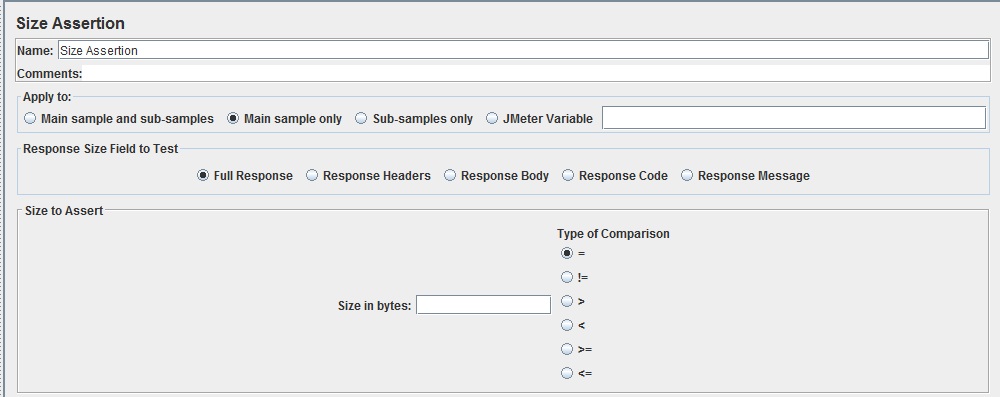
[**Duration Assertion**](http://www.guru99.com/assertions-in-jmeter.html#DurationAssertion)**:** The Duration Assertion tests that each response was received within a give amount of time. Any response that takes longer than the give number of milliseconds (specified by the user) is marked as a failed response.



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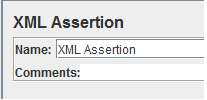
[**Size Assertion**](http://www.guru99.com/assertions-in-jmeter.html#SizeAssertion)**:** The Size Assertion tests that each response contains the right number of bytes in it. You can specify that the size be equal to, greater than, less than, or not equal to a give number of bytes.



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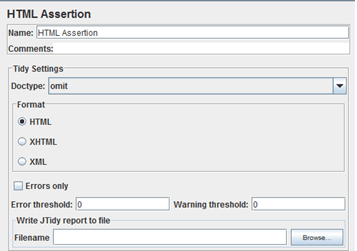
[**XML Assertion**](http://www.guru99.com/assertions-in-jmeter.html#XMLAssertion)**:**The XML Assertion tests that the response data consists of a formally correct XML document. It does not validate the XML based on a DTD or schema or do any further validation.



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**HTML Assertions:** The HTML Assertion allows the user to check the HTML syntax of the response data using JTidy.



**Parameters:**

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