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for testing RESTful web services by posting JSON data and how to use
BeanShell

♥ JMeter for testing RESTful web services by posting JSON data and how to use BeanShell

Posted on [October 30, 2014](#) by [Arulkumaran Kumaraswamipillai](#) — 4 Comments



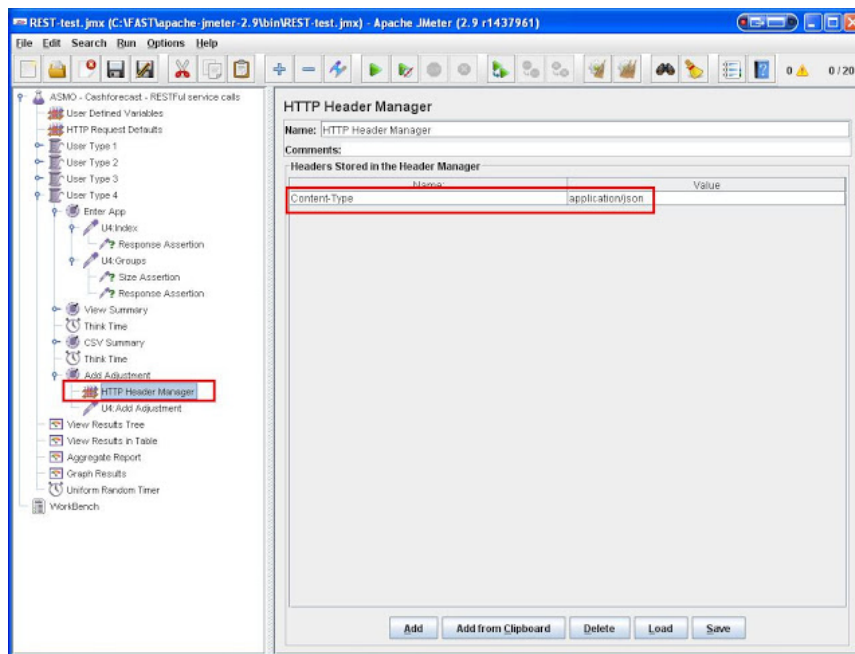
We looked at “JMeter Performance testing Interview Q&A” covered in a Q&A and tutorial style. This is a brief extension to cover JSON HTTP post. Now a days, a single page interactive web sites are very popular, and they post JSON based data back to the server to create a new record or to update an existing record.

Step 1: Firstly, you need to set up the header “Content-Type” to “application/json” as shown below.

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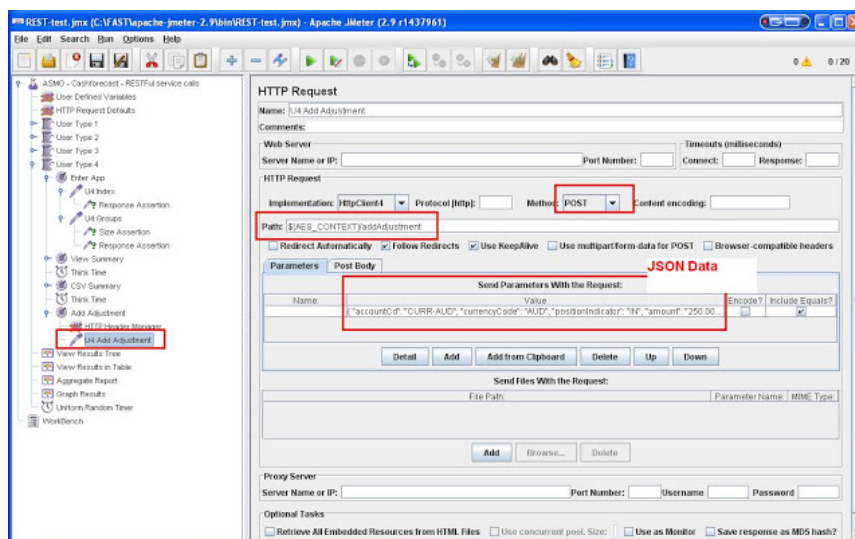
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Step 2: Specify the URL path and paste the relevant JSON data that gets posted as shown below.

Also, make sure that the HTTP verb used is a "POST".



Now, there will be scenarios where posting a static JSON data is not good enough, and you will require to manipulate the JSON data. Here are steps to achieve this with

BeanShell Sampler and BeanShell PostProcessor to manipulate JSON data within JMeter

Step 1: Download a Java based JSON library jar to encode and decode JSON data. In this example, I am using the **json-simple** library that can be downloaded from [code-google](http://code.google.com/p/json-simple/).

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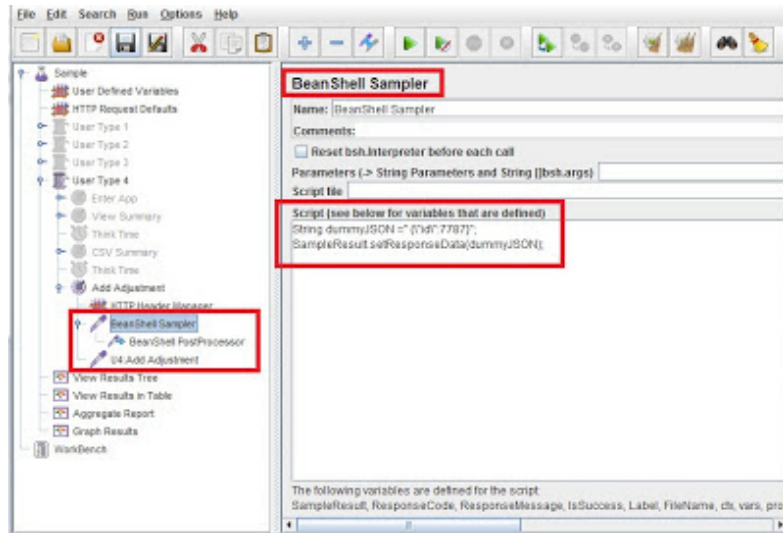
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Step 2: Copy the downloaded jar file "json-simple-x.x.x.jar" to JMeter lib folder C:\myapps\apache-jmeter-2.9\lib.

Step 3: Restart the JMeter. Add a **Bean Shell Sampler** by right clicking and then selecting **Add → Sampler → Bean Shell Sampler**.

To the Bean Shell sampler add a sample static JSON data as shown below, which we would manipulate in the next step.



```
1 String dummyJSON = "{\"id\":7787}";
2 SampleResult.setResponseData(dummyJSON);
3
```

Step 4: Now, add Bean Shell Processor as a child as shown above in the diagram, and the code will use the library we added in step 1.

```
1 import org.json.simple.JSONObject;
2 import org.json.simple.JSONValue;
3
4 String jsonString = prev.getResponseDataAsString();
5 System.out.println(jsonString);
6
7 //decode string to json object
8 JSONObject jsonObj = JSONValue.parse(jsonString)
9
10 //add another object
11 jsonObj.put("name","Peter");
12 System.out.println(jsonObj);
13
14 //encode and put it into jmeter variables with a
15 vars.put("jsonResponse", jsonObj.toString());
16
```

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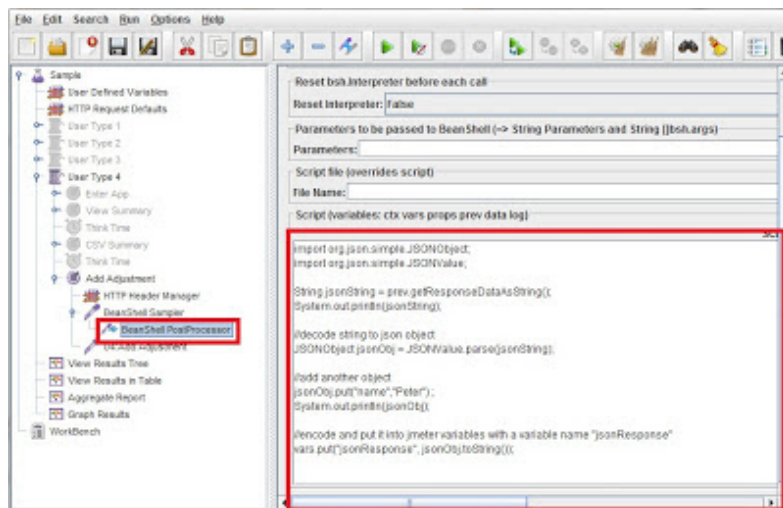
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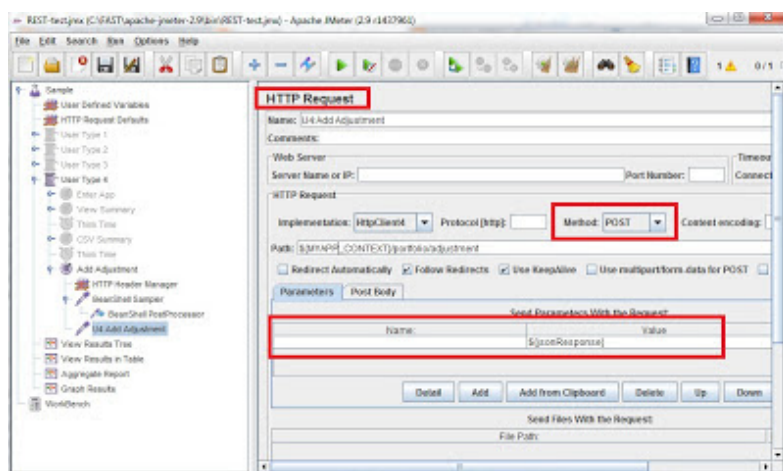
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Step 5: Finally, in the HTTP sampler, use the variable “jsonResponse”, which has the dynamically created (or modified) **jsonResponse** as a variable. For example: **`${jsonResponse}`**.



That's all to it. It has not only demonstrated how to manipulate JSON data, but also how to use Bean Shell to add coding power and flexibility to JMeter.

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**About** [Arulkumaran Kumaraswamipillai](#)

Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers to choose from. It pays to prepare. So, published Java interview Q&A books via [Amazon.com](#) in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site. **945+** paid members. [join my LinkedIn Group](#). [Reviews](#)

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udayab1 says:

June 21, 2016 at 8:27 am

Hi Arul,

Please help me to share if it is possible to dynamically change the load when Jmeter Test is running

Thankyou

Udaya

[Reply](#)



Udaya allu says:

April 20, 2016 at 9:13 pm

The one you advised worked fine in jmeter stand alone gui version. But seeing my problem in maven command line run even after adding that Google simple Json dependency

[Reply](#)

Arulkumaran Kumaraswamipillai says:

April 21, 2016 at 11:43 am

Hi Udaya

It has been a long time since I used JMeter BeanShell coding. You need to have a look at the BeanShell programming resources on the net.

[Reply](#)

Udaya allu says:

April 20, 2016 at 9:10 pm

Hi Arul,
Please help how to do this when doing with maven plugins
. I.e Jsonobject dependency adding how

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