JMeter FAQ

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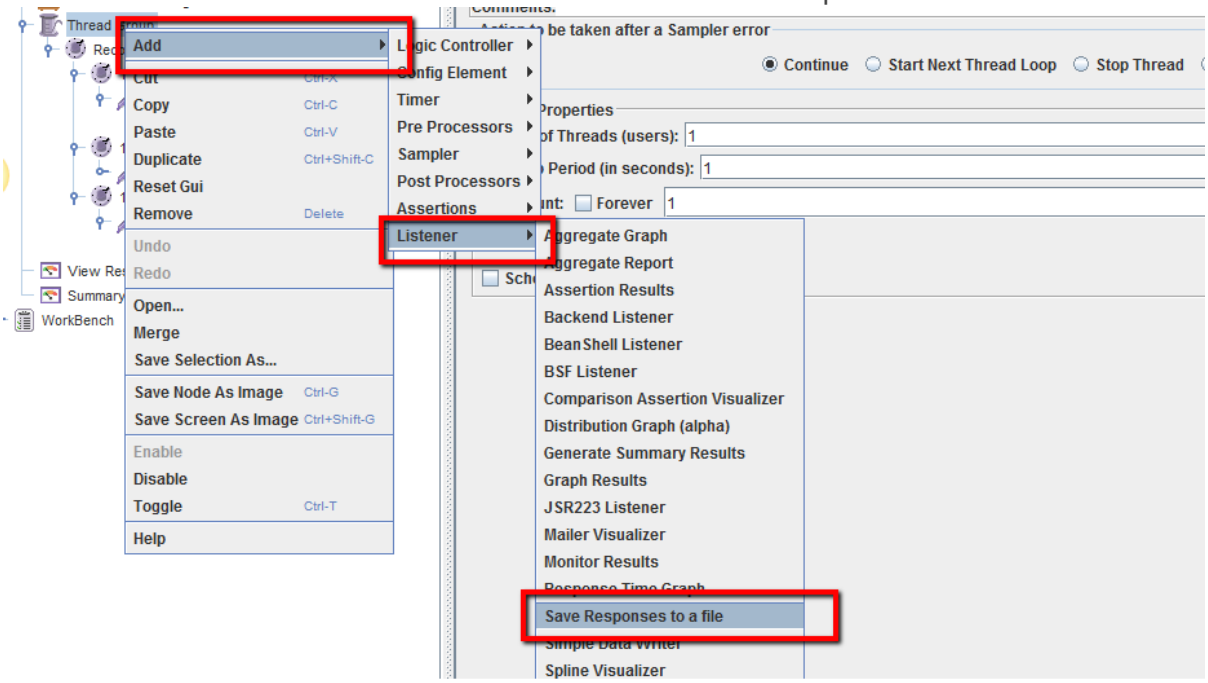
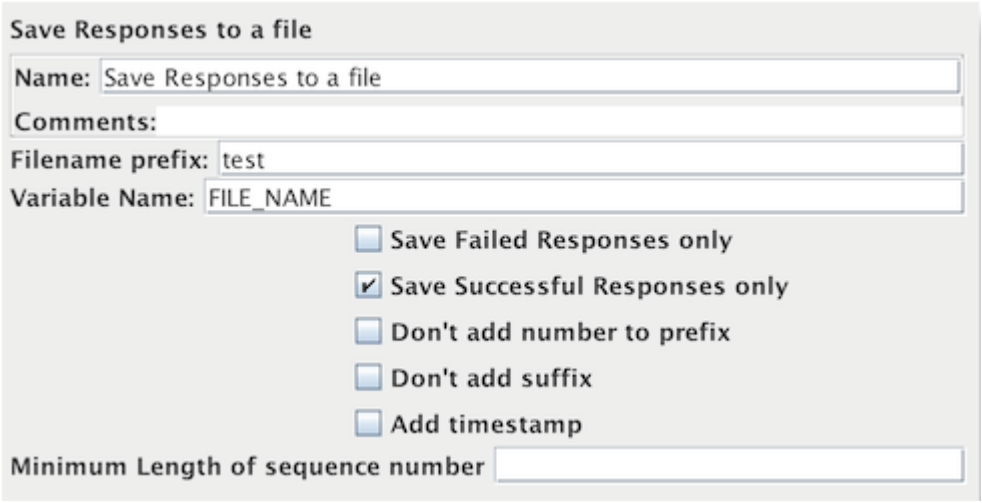
8. File Downloads from JMeter
    1. In JMeter, we need to add a "Save Responses to a file" listener to save the file downloads, we can provide a file name prefix or even the directory path for the download file.
    Please refer to below screenshot on how to add "Save Responses to a file" Listener



    For each sample in its scope, it will create a file of the response Data. The file name is created from the specified prefix, plus a number (unless this is disabled, see below). The file extension is created from the document type if known. If not known, the file extension is set to 'unknown'. If numbering is disabled, and adding a suffix is disabled, then the file prefix is taken as the entire file name. This allows a fixed file name to be generated if required. The generated file name is stored in the sample response and can be saved in the test log output file if required.
    The current sample is saved first, followed by any sub-samples (child samples). If a variable name is provided, then the names of the files are saved in the order that the sub-samples appear. See below.

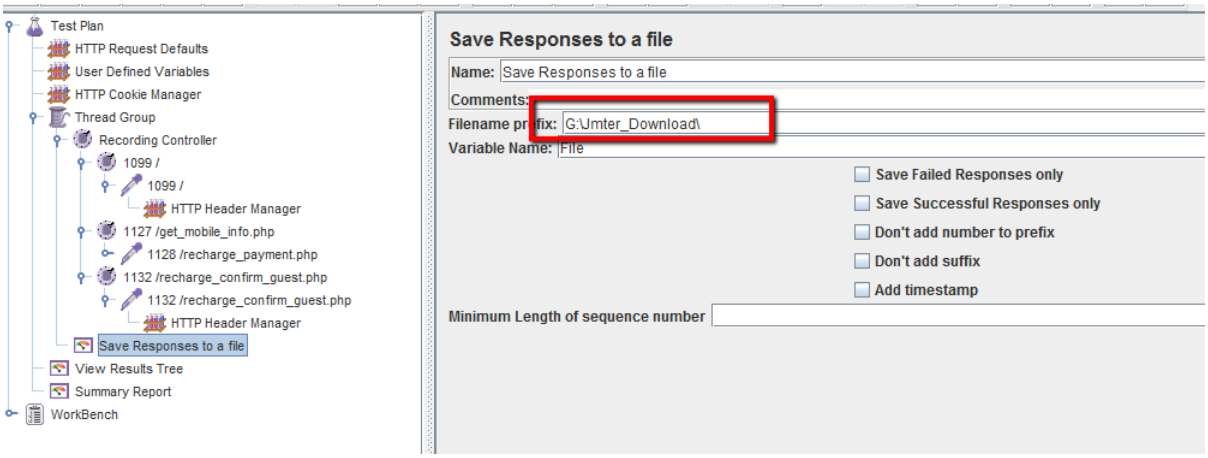


Please find below the detailed description of the parameters used

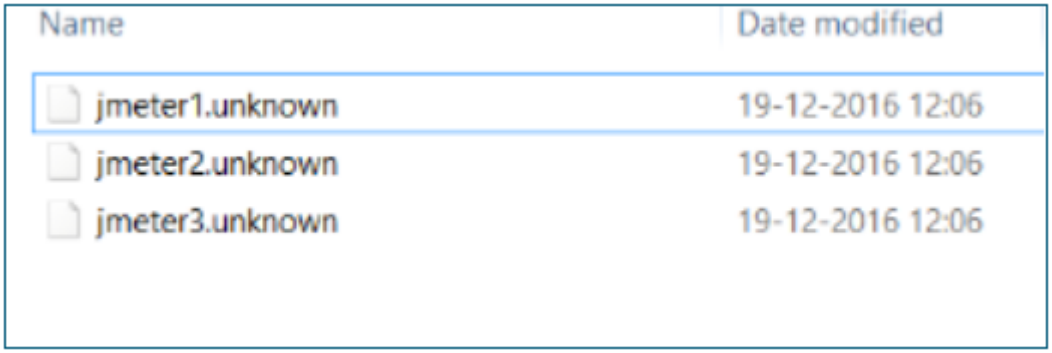
Parameters

Attribute	Description	Required
Name	Descriptive name for this element that is shown in the tree.	No
Filename Prefix	Prefix for the generated file names; this can include a directory name. Relative paths are resolved relative to the current working directory (which defaults to the `bin/` directory). JMeter also supports paths relative to the directory containing the current test plan (JMX file). If the path name begins with "`~/`" (or whatever is in the `jmeter.save.saveservice.base_prefix` JMeter property), then the path is assumed to be relative to the JMX file location.	Yes
Variable Name	Name of a variable in which to save the generated file name (so it can be used later in the test plan). If there are sub-samples then a numeric suffix is added to the variable name. E.g. if the variable name is `FILENAME`, then the parent sample file name is saved in the variable `FILENAME`, and the filenames for the child samplers are saved in `FILENAME1`, `FILENAME2` etc.	No
Save Failed Responses only	If selected, then only failed responses are saved	Yes
Save Successful Responses only	If selected, then only successful responses are saved	Yes
Don't add number to prefix	If selected, then no number is added to the prefix. If you select this option, make sure that the prefix is unique or the file may be overwritten.	Yes
Don't add suffix	If selected, then no suffix is added. If you select this option, make sure that the prefix is unique or the file may be overwritten.	Yes
Minimum Length of sequence number	If "`Don't add number to prefix`" is not checked, then numbers added to prefix will be padded by `0` so that prefix is has size of this value. Defaults to `0`.	No

Without providing the path, the file gets saved in the "JMeter/bin" directory.
We can mention the path in the "Save Responses to a file" listener as seen below and this script can be used in Appvance IQ.



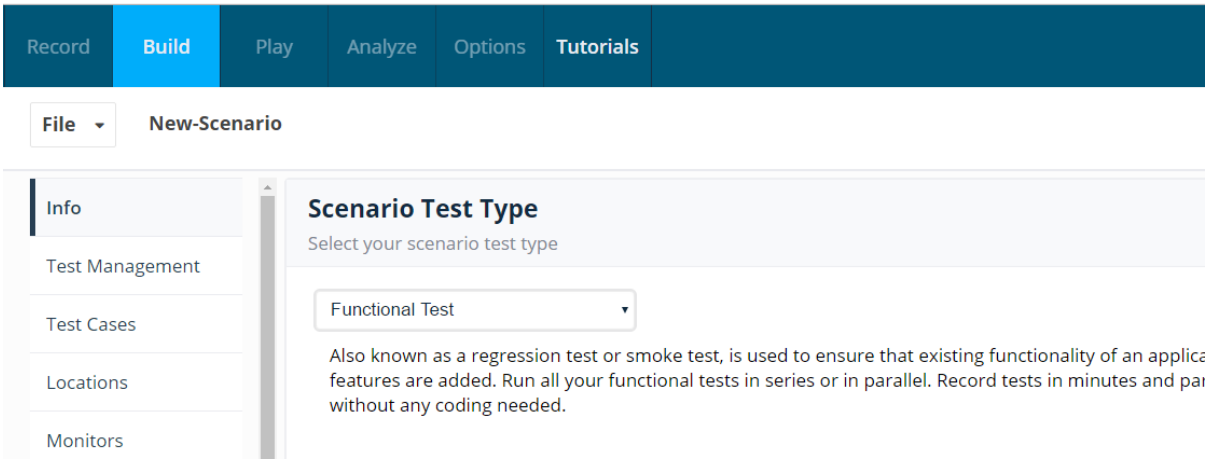
File downloaded after running the scenario from Appvance IQ

9. 

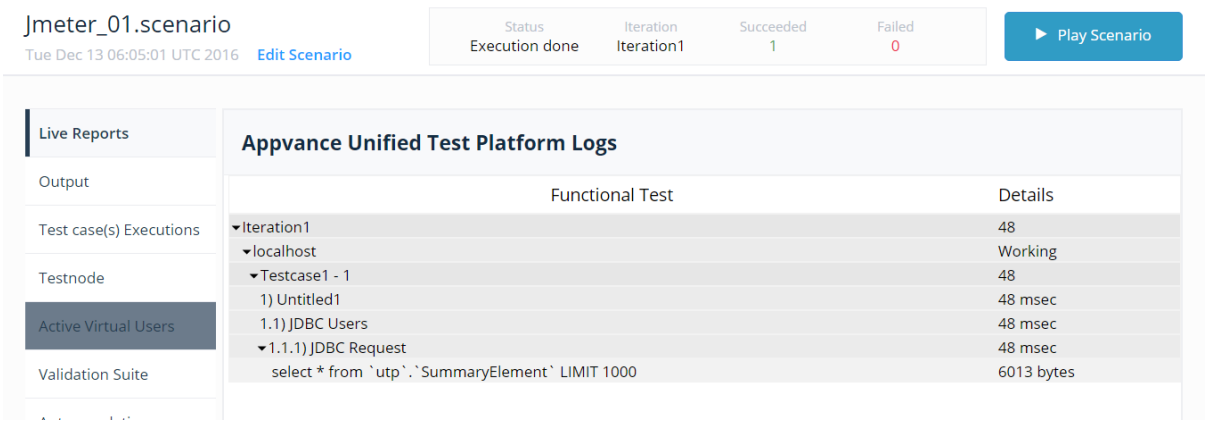
How to run Jmeter DB script in AIQ

1. We assume that the reader has knowledge of how to create a scenario and run the test in AIQ

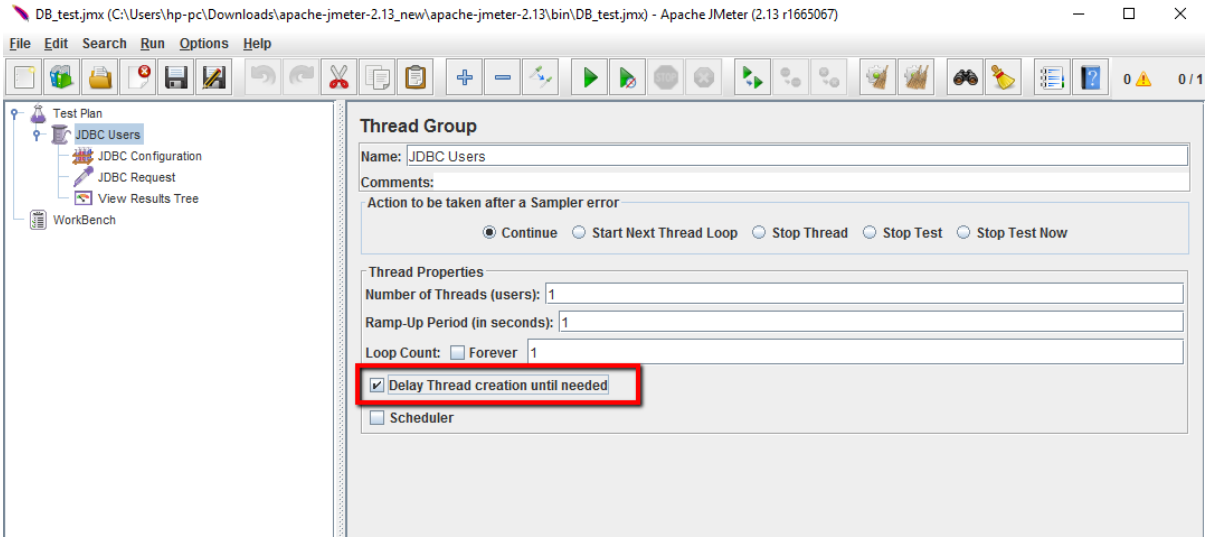
   The user creates a new scenario and selects a functional test



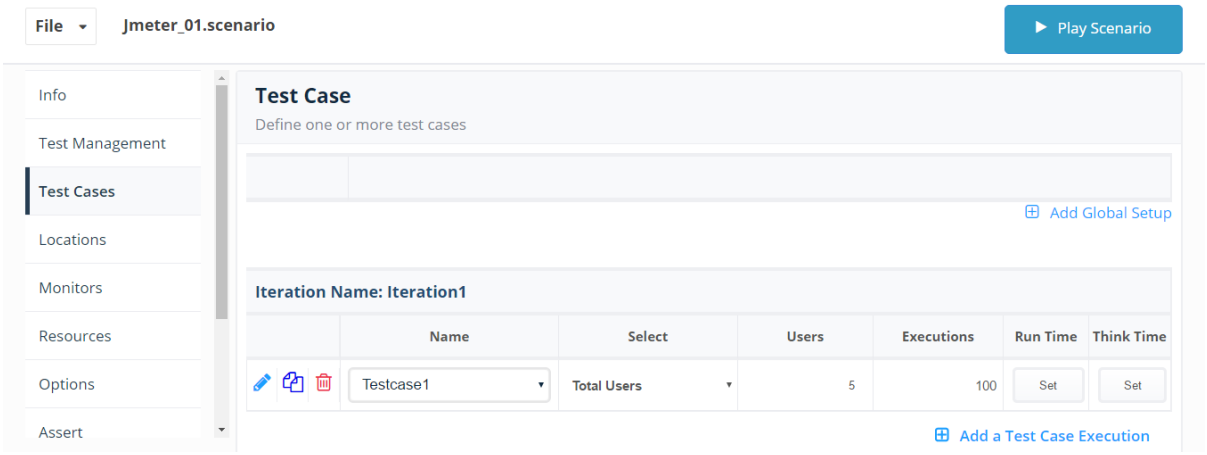
   Navigates to Test case tab and selects Test type as "Jmeter" and attaches the Jmeter script which ran successfully in Jmeter



User now saves the scenario and runs the tests and navigates to Test Controller screen and verifies the output

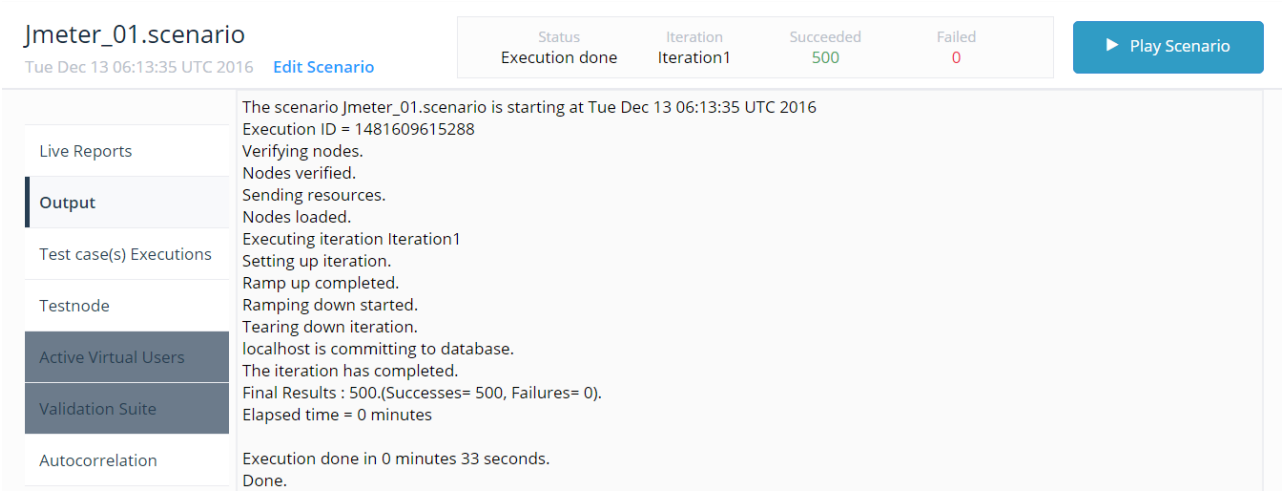


In the above scenario we are running a simple functional test in AIQ. However if the user wants to run a Load test we will have to make some changes in the Jmeter script. The below screenshot highlights the changes that needs to be done to run the Load test in AIQ.



Need to check in the Thread Group the option Delay Thread Creation Until Needed. Once the changes is made we can go ahead and save the script.

User creates a Load test scenario with 5 users and 100 executions

10. 

    Jmeter - Java.lang.RuntimeException: Could not find the TestPlan class! Getting this error while running the scenario from AIQ

    1. Solution : Please add htmlunit - 2.15.2648 bundle.
       Navigate to Scenario builder and open the scenario created.
       Navigate to Resource Panel and click Add bundle.
       Add htmlunit with version as 2.15.2648, Save and Re-run the scenario.
11. JMeter - Note able to see the transactions in the Reports or Test Controller
    1. Resolution: Add a new bundle 'httpclient' with value '4.3.4' in the Resources panel of the Scenario Builder, Save and re-run the scenario to see the results in Reports as well as in Test Controller
12. Jmeter - Steps Average duration calculation in Appvance IQ
    1. The below example gives a detailed explanation of how Step's average duration is calculated in the Jmeter-Appvance IQ combination.
       1.3 TC01_DealID_03 - Average duration is 1.33 secs
       All the requests below and calculations are shown below.
       Number of Success transaction * Average duration of each request
       72*10.92 = 786.24
       37*3.23 = 119.51
       36*2.15 = 77.4
       37*0.93 = 34.41
       36*0.9 = 32.4
       580*0.04 = 23.2
       36*0.48 = 17.28
       36*1.88 = 67.68
       Addition of all the successful transactions.
       72+37+36+37+36+580+36+36 = 870
       786.24 + 119.51 + 77.4 + 34.41 + 32.4 + 23.2 + 17.28 + 67.68 = 1158.2
       1158.2/870 = 1.33
13. Jmeter: Error while running MySQL DB script
    1. The user tries to run a MySQL DB script in Jmeter and receives the below error
       Java.sql.SQLException: No suitable driver found for jdbc:mysql://localhost:3306/apc
       The error message is self-explanatory stating that there is no suitable driver for running the MySQL script. For the script to run successfully we need to download the MySQL connector jar file and place it under the lib folder of Jmeter

For Ex:
If the Jmeter is in the C folder we need to place the mysql-connector-java-5.1.37-bin.jar in C:\Program Files\apache-jmeter-2.13\lib
Download link :

http://dev.mysql.com/downloads/connector/j/

and download the Zip file, Extract the file and copy the mysql-connector-java-5.1.37-bin.jar and place it in the lib folder of Jmeter

14. Running JMeter Scripts in AIQ - Best Practices
    1. Disable the "View Result Tree" listener during the Load test in AIQ. Because it consumes more memory and causes JMeter running to run out of memory
        1. Disable any other listeners from the Jmeter script before running it in AIQ
        2. The number of Threads should be given 1 in Jmeter when running performance tests in AIQ because this will add up to the iterations
        3. Better to give Ramp-up as 0 in Jmeter
        4. Same as Number of Threads, loop count to be given as 1 by default
        5. Thread group - Use continue, Stop test now accordingly, using stop now will stop all other remaining threads when a thread is a failure

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If you have any feedback on this topic, please contact us at documentation@appvance.ai

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