Jmeter – Testing the IMWA (J2EE/8080) & IM Web Servers (SMWA/443) for CA Identity Manager Use-Cases

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Jan 2016

References:
http://jmeter.apache.org/
https://jmeter.apache.org/usermanual/jmeter_proxy_step_by_step.pdf

Content

- Background
- Acknowledgements
- High-Level View / Value Proposition
- Current Test Plan
- How to leverage Jmeter's ability to auto-build 95% of a test plan for HTTP(S)
- Examples
- CSRF Token Challenge / Resolution
- Optional Plugin / Server Agent
  - Useful if CA APM (Introscope) is not available
- Supporting Slides / Information

Background

- Challenge:
  - Low cost, available performance testing tools for the IM solution are usually limited to the low end spectrum of functionality
    - CLI (Command Line)
      - Bulk Loader Client (blc) for top tier (Web Application) testing of create, modify, delete user objects only.
      - etautil / ldapsearch (imps version) for the mid-tier (Provisioning Server) testing of create, modify, reset passwords, delete, to the GU and endpoint accounts.
  - High cost performance testing tools for projects typically required customers to own or purchase HP Loadrunner or similar vendor tools.
    - Usually owned and executed by specialized business units at customer site
    - Required future scheduling to occur. Limited ad-hoc testing
    - No proactive testing available or limited.
- Proposal: Apache Jmeter is an amazing testing suite that provide non-invasive benchmark & performance testing
  - Benefits:
    - Open Source License
    - No install required; just extract and run from workstation/desktop [zip or tar]
    - Low learning curve [less than 2 hours to learn & use]
    - No agents required to be deployed for majority of test plans
      - May use the included "PerfMon" Server Agent to view disk I/O CPU, Network utilization
    - Easy to share test plans.
      - May copy-n-paste sections. Note: Passwords are stored in clear-text
    - Use of a built-in HTTP proxy recorder to auto-build test plans. This can NOT be emphasized enough. Jmeter will auto-build 95% of your test plan for HTTP(S).

This deck focus on the use of Jmeter and HTTP(S) protocol used by the upper-tier component of IM.

- Upper-Tier: The Web Server (Apache + SSO Agent) & Web Application Server (JBOSS + IM Application)
- The SSO Auth Bind, IM Create User, IM Reset User Password, IM Delete User operations have been defined in the example labs. These operations were captured using the built-in HTTP proxy recorder; and adjusted for use with SSO (Siteminder) integration with cookies & IM Cross Site Request Forgery (OWASP_CSRFTOKEN) session token.

Acknowledgements

- General Education. Jump start knowledge with Apache Jmeter and use of HTTP protocol & test plans
  - Performance Testing with Jmeter 2.9 by Bayo Erinle , Packt Publishing Open Source, 2013
  - Recommended: This is a quick read with excellent labs to follow along with. Includes PerfMon
  - https://www.packtpub.com/application-development/performance-testing-jmeter-29 [$5.00]
- Excellent examples how to setup the Jmeter built-in HTTP(S) Recorder to auto-build a test plan:
  - https://jmeter.apache.org/usermanual/jmeter_proxy_step_by_step.pdf [Peter Lin]
  - https://www.digitalocean.com/community/tutorials/how-to-use-jmeter-to-record-test-scenarios
  - Recommend using the default exclusions to avoid non-useful "bloat" returned from standard HTTP GET operations.
    - These returned objects are NOT needed for a test plan; and can be deleted. To view: Leave off default exclusions and view the many objects returned to understand.
    - Suggest using FireFox as go-to browser to switch to proxy use for HTTP/HTTPS; however may use any browser from desktop to communicate to the Jmeter HTTP Proxy
- CA Support Site Tech Note #TEC478754: Using Jmeter to test Siteminder performance, 11/28/2012
  - http://www.ca.com/us/support/ca-support-online/product-content/knowledgebase-articles/tec478754.aspx
  - Excellent notes on using the HTTP(S) operations; use of select Jmeter functions to manage Siteminder Cookies
  - Includes a note that SM Authentication schema must NOT be BASIC, but HTML FORM to allow use of Jmeter with Siteminder Protected Apps.
    - Use SM UI (WAMUI or FSSUI) to update the default IM IMS Realm to use HTML FORM. May need to define the HTML FORM first.
  - Note: Jmeter Cookie Handler must use Cookie Policy: rfc2109 & Implementation: HC3CookieHandler [IM:SM uses IPv4 & FQDN]
- Management of the Identity Manager Built-In Cross Site Request Forgery Token Process [OWASP_CSRFTOKEN]
  - http://hxtpoe.github.io/performanceTests/testing-login-using-jmeter.html [CSS/Jquery example]
  - https://blazemeter.com/blog/how-load-test-csrf-protected-web-sites [CSS/Jquery, RegEx, & Xpath Examples] by Dmitri Tikhanski
- JMeter How to Run Performance tests - CA IG 1.1 by Ricky Gloden, CA Sr. Architect
  - Excellent examples of HTTP Labs and use the Jmeter PerfMon tool to monitor disk I/O, CPU & Network Utilization
  - Important Note: Update the default HTTPS protocol from SSLv3 to TLSv1 in the Jmeter properties files to use HTTPS protocol.

High Level Example of Jmeter in Use

- The following two (2) slides display using IM VST & Jmeter, the ability of Jmeter to emulate an administrative user to:
  - Read a CSV files of 100 user objects
    - Userid, first_name, last_name, full_name, password, new password
  - Bind (authenticate) to the IM User Console protected via SSO (SiteMinder)
  - Create a new User [for all 100 user objects]
  - Find and then Reset the password for that new user [for all 100 user objects]
  - Find and delete that User [for all 100 user objects]
- Perform the above steps for the same 100 accounts, ten times.
  - With a ramp-up time of 100 accounts (threads) over one (1) minute.
    - Note: If the ramp time is “shorten”, then more memory must be allocated to the JVM of the application to hold the data, to avoid overwhelming a single server. Or ensure that Load Balancing is enabled that the data may switch between the peer servers.

Example of 100 Accounts Created, Updated, Deleted via Jmeter in IM

File Edit View

CA Identity Manager : Vie... | Options

https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/special/submitted_tasks.jsp

Search

Skip to main content

CA Identity Manager

idmadmin | Sign out | Help

Tasks

- Home
- My Access
- Services
- Users
- Organizations
- Groups
- Roles and Tasks
- Policies
- Reports
- Environment Administration
- System
  - Bulk Tasks
  - Email
  - JDBC Connection Management
  - Logical Attributes
  - Select Box Data
  - Web Services
  - Bulk Loader
  - Cleanup Submitted Tasks
  - Configure Global Policy Based Wor
  - Delete Recurring Tasks
  - Secret Keys
  - View Submitted Tasks
  - Reporting

Delete User task, User bugsbunny040	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny049	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny024	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny028	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny053	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny056	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny033	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny063	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny071	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny035	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny057	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny046	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny050	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny051	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny058	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny060	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny021	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny034	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny039	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny098	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny013	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny019	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny029	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny032	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny043	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Reset User Password task, User bugsbunny054	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny026	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	
Delete User task, User bugsbunny048	Completed	Medium	idmadmin	12/30/2015 7:08 AM	12/30/2015 7:08 AM	

1-50 of 1,000 › »

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About CA Identity Manager

Example of 100 Accounts Created, Updated, Deleted via Jmeter x10 times

http_recorder_example_v501_Working_Clean_Up.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v501_Working_Clean_Up.jmx) - Apache JMeter (2.13 r...

File Edit Search R

0 / 100

- Test Plan - IM
  - CSV Data Set Config for IM Login
  - Testing Loop for IM
    - HTTP Cookie Manager for IM
    - HTTP Authorization Manager for IM
    - HTTP Request Defaults for IM
    - HTTP Header Manager for IM
    - Gaussian Random Timer for IM
    - 01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM
      - 01a - SM AUTH VIA LOGIN.FCC & PARAMETERS
      - 01b - IM LANDING PAGE
    - 02 - LAUNCH CREATE USER TASK
      - 02a-Launch Create User Task
        - 02a - CSS/JQuery Extractor - Pull The OWASP_CSRFTOKEN
        - 02a - Regular Expression Extractor - Pull The OWASP_CSRF
        - 02a - XPath Extractor - Pull The OWASP_CSRFTOKEN from u
      - 02b - Select NEW User to be Created
      - 02c - !st Page Loaded
      - 02d - Search on OU Placement
      - 02e - Submit OU Placement for Default OU
    - 03 - CREATE USER
      - 03a - Submit Create User Task & UPDATE OWASP_CSRFTOKEN
      - 03b - Confirm Submit to Create User & UPDATE OWASP_CSRFTO
    - 04-LAUNCH RESET USER PASSWORD TASK
      - 04a - Launch Reset User Password Task
        - CSS/JQuery Extractor - Pull The OWASP_CSRFTOKEN from u
        - Regular Expression Extractor - Pull The OWASP_CSRFTOKEN
        - XPath Extractor - Pull The OWASP_CSRFTOKEN from user_c
    - 05-FIND USER
      - 05a - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS
      - 05b - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS
    - 06-RESET PASSWORD FOR USER
    - 07 - DELETE USER
      - 07a - Launch Delete User Task
      - 07b - Find User to Delete & UPDATE OWASP_CSRFTOKEN PARA
      - 07c - Selected User to Delete
      - 07d - Submit Delete User Task & UPDATE OWASP_CSRFTOKEN F
      - 07e - Confirm Submit Delete User Task & UPDATE OWASP_CSRF
    - 05-LAUNCH VIEW SUBMITTED TASKS
    - 06-SUBMITTED VST
    - 07-LOG OUT OF IM
  - View Results Tree
  - Graph Results
  - Aggregate Report
  - Aggregate Graph
- WorkBench
  - HTTP(S) Test Script Recorder for IM
    - View Results Tree

Aggregate Report

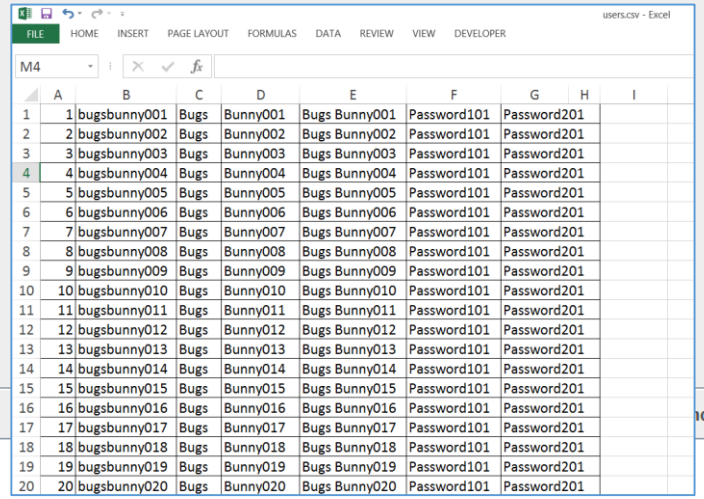
Name: Aggregate Report

Comments:

Write results to file / Read from file

Filename | Browse... | Log/Display Only: Errors Successes | Configure

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput	KB/sec
01a - SM AUTH VIA LOGIN.FCC & PARAMETERS	1000	659	529	1340	1646	2154	44	2818	0.00%	2.1/sec	202.3
01b - IM LANDING PAGE	1000	158	128	313	396	618	17	1186	0.00%	2.1/sec	195.4
01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM	1000	817	698	1502	1805	2347	117	3207	0.00%	2.1/sec	397.2
02a-Launch Create User Task	1000	459	414	825	974	1298	24	2131	0.00%	2.1/sec	185.8
02b - Select NEW User to be Created	1000	1497	1388	2459	2769	3413	70	4346	0.00%	2.1/sec	273.5
02c - !st Page Loaded	1000	530	476	860	1038	1370	144	1710	0.00%	2.1/sec	184.8
02d - Search on OU Placement	1000	995	923	1651	1960	2391	43	3770	0.00%	2.1/sec	190.3
02e - Submit OU Placement for Default OU	1000	302	254	552	728	1033	27	1467	0.00%	2.1/sec	274.1
02 - LAUNCH CREATE USER TASK	1000	3786	3691	5655	6248	7521	309	8510	0.00%	2.0/sec	1104.3
03a - Submit Create User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	1000	1036	967	1642	1833	2491	150	3528	0.00%	2.1/sec	176.1
03b - Confirm Submit to Create User & UPDATE OWASP_CSRFTOKEN PARAMETER	1000	8837	2166	17887	18372	19222	71	20769	0.00%	2.1/sec	226.7
03 - CREATE USER	1000	9873	3802	19104	19796	20907	256	22556	0.00%	2.1/sec	402.3
04a - Launch Reset User Password Task	1000	437	385	769	900	1468	23	2128	0.00%	2.1/sec	183.2
04-LAUNCH RESET USER PASSWORD TASK	1000	437	385	769	900	1468	23	2128	0.00%	2.1/sec	183.1
05a - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	1000	899	818	1580	1848	2396	38	4065	0.00%	2.1/sec	186.3
05b - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	1000	643	555	1405	1684	2299	17	2928	0.00%	2.1/sec	183.1
05-FIND USER	1000	1542	1427	2691	3088	3995	83	5849	0.00%	2.1/sec	369.0
06a - CHANGE TO NEW PASSWORD & UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	1000	414	322	907	1128	1571	16	2064	0.00%	2.1/sec	176.2
06b - Submit Password Change & UPDATE OWASP_CSRFTOKEN PARAMETER	1000	10746	16606	18483	18987	19655	44	20803	0.00%	2.1/sec	175.9
06-RESET PASSWORD FOR USER	1000	11161	16992	19221	19806	20942	99	21894	0.00%	2.1/sec	351.7
07a - Launch Delete User Task	1000	431	373	775	974	1360	24	1795	0.00%	2.1/sec	185.1
07b - Find User to Delete & UPDATE OWASP_CSRFTOKEN PARAMETER	1000	821	763	1366	1618	2247	38	3055	0.00%	2.1/sec	187.8
07c - Selected User to Delete	1000	148	110	311	413	638	16	1014	0.00%	2.1/sec	183.8
07d - Submit Delete User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	1000	279	206	642	797	1129	16	1680	0.00%	2.1/sec	181.2
07e - Confirm Submit Delete User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	1000	9176	15506	17039	17365	18142	45	18667	0.00%	2.1/sec	177.2
07 - DELETE USER	1000	10857	16175	19364	19845	21248	232	22118	0.00%	2.1/sec	912.2
TOTAL	26000	2959	702	16511	17889	19413	16	22556	0.00%	52.8/sec	7347.0



users.csv - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER

M4

	A	B	C	D	E	F	G
1	1	bugsbunny001	Bugs	Bunny001	Bugs Bunny001	Password101	Password201
2	2	bugsbunny002	Bugs	Bunny002	Bugs Bunny002	Password101	Password201
3	3	bugsbunny003	Bugs	Bunny003	Bugs Bunny003	Password101	Password201
4	4	bugsbunny004	Bugs	Bunny004	Bugs Bunny004	Password101	Password201
5	5	bugsbunny005	Bugs	Bunny005	Bugs Bunny005	Password101	Password201
6	6	bugsbunny006	Bugs	Bunny006	Bugs Bunny006	Password101	Password201
7	7	bugsbunny007	Bugs	Bunny007	Bugs Bunny007	Password101	Password201
8	8	bugsbunny008	Bugs	Bunny008	Bugs Bunny008	Password101	Password201
9	9	bugsbunny009	Bugs	Bunny009	Bugs Bunny009	Password101	Password201
10	10	bugsbunny010	Bugs	Bunny010	Bugs Bunny010	Password101	Password201
11	11	bugsbunny011	Bugs	Bunny011	Bugs Bunny011	Password101	Password201
12	12	bugsbunny012	Bugs	Bunny012	Bugs Bunny012	Password101	Password201
13	13	bugsbunny013	Bugs	Bunny013	Bugs Bunny013	Password101	Password201
14	14	bugsbunny014	Bugs	Bunny014	Bugs Bunny014	Password101	Password201
15	15	bugsbunny015	Bugs	Bunny015	Bugs Bunny015	Password101	Password201
16	16	bugsbunny016	Bugs	Bunny016	Bugs Bunny016	Password101	Password201
17	17	bugsbunny017	Bugs	Bunny017	Bugs Bunny017	Password101	Password201
18	18	bugsbunny018	Bugs	Bunny018	Bugs Bunny018	Password101	Password201
19	19	bugsbunny019	Bugs	Bunny019	Bugs Bunny019	Password101	Password201
20	20	bugsbunny020	Bugs	Bunny020	Bugs Bunny020	Password101	Password201

nclude group name in label? | Save Table Data | Save Table Header

Outline of Slides

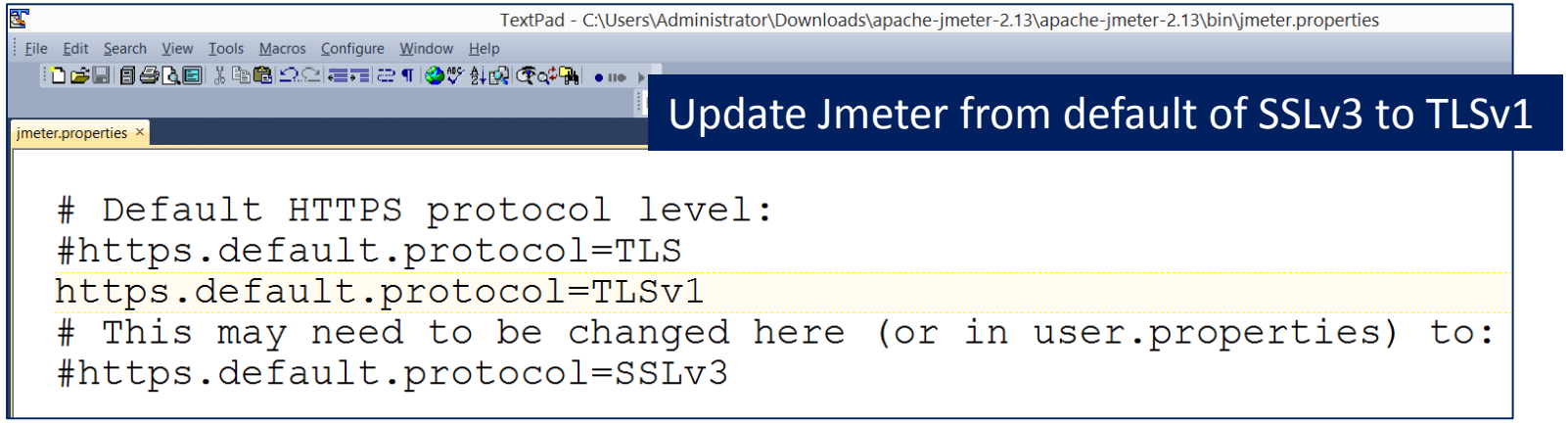
- The following slides will review the current test plan, to allow users to immediate jump into the use of the current plan, to use AS-IS or adjust as needed.
- Next, slides will review where to download Jmeter and any plugin option packages.
- Other slides will follow this section that outline how the initial test plan was built & how the IM Token was identified and corrected for.
- Lastly, a view of using the Jmeter Server Agent will be presented.
  - It has value to help identify disk I/O, CPU and Network utilization.
  - A preferred and robust alternative solution is the CA APM (Application Performance Management) if available.

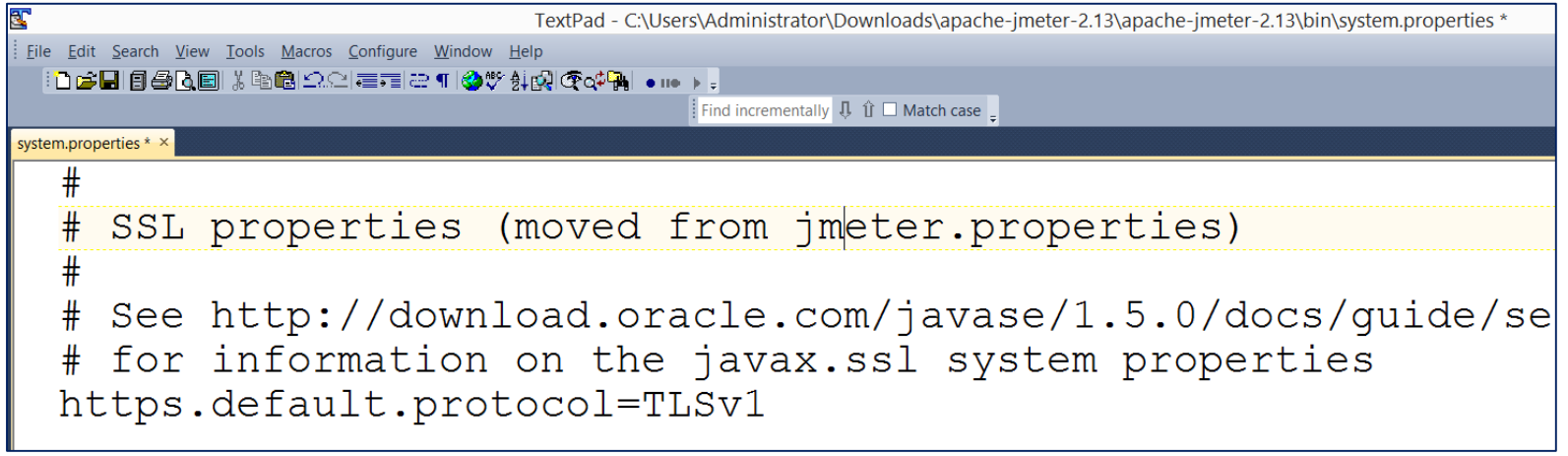
Current Jmeter Test Plan for IMWA

- Use of the Jmeter HTTP Recorder was used to capture / record the steps perform manually via the IM User Console.
- After the steps / operations were recorded, selected POST operations were updated for any variable that would be pulled from the CSV file or needed to be managed as an extra Session token.
- This is a good starting point to use for testing with OOTB IM tasks.
- This or a new test plan can be created for your own IM tasks.
  - No limit on which tasks to use.
  - This process provide extended testing functionality over ALL possible IM tasks.

Pre-Step01: Jmeter Test Plan for IMWA: Properties Files

- After extracting Jmeter, navigate to the JMETER_HOME\bin folder & adjust one SSL/TLS setting in jmeter.properties & system.properties:





Pre-Step 02: Jmeter Test Plan for IMWA: Outline

TestPlan – Very top; Jmeter is hierarchal such that object defined above will be available for any line items below.

- Have defined & included common variables that will be used by other line items

- All fields will be clear text.

Notes – Hijacked use of this item “user defined variables” to “hold” useful notes.

CSV Data Set – For IM, used this item to query a predefined csv file with user object fields, e.g userID, FN, LN, etc.

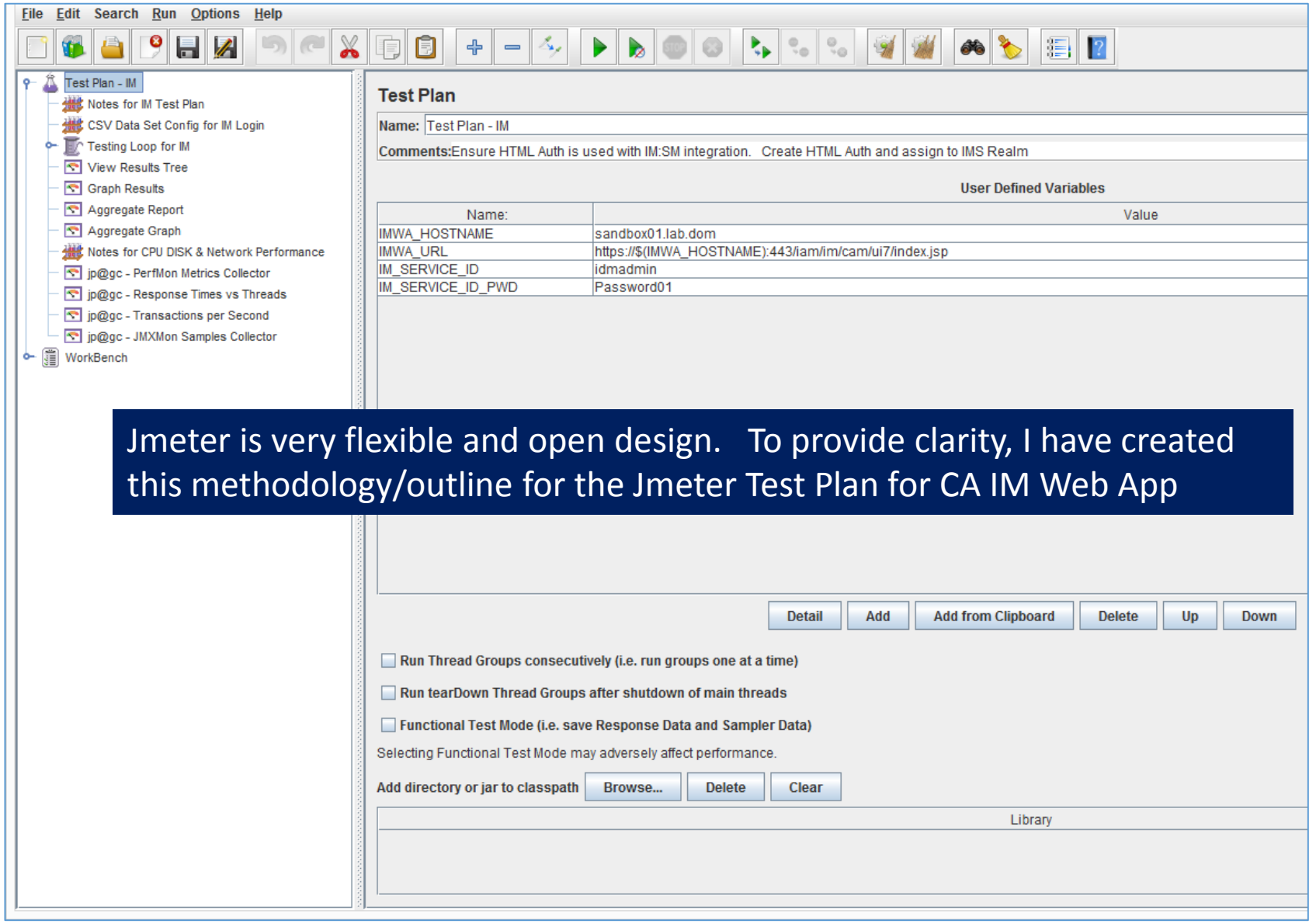
Testing Loop – The “container” of all testing objectives/lines.

Tree / Graph – Output Reports (aka Listeners) that will collect and report high value reports

Notes – Hijacked use of this item “user defined variables” to “hold” useful notes about PerfMon “Server Agent” for disk I/O, CPU & memory utilization.

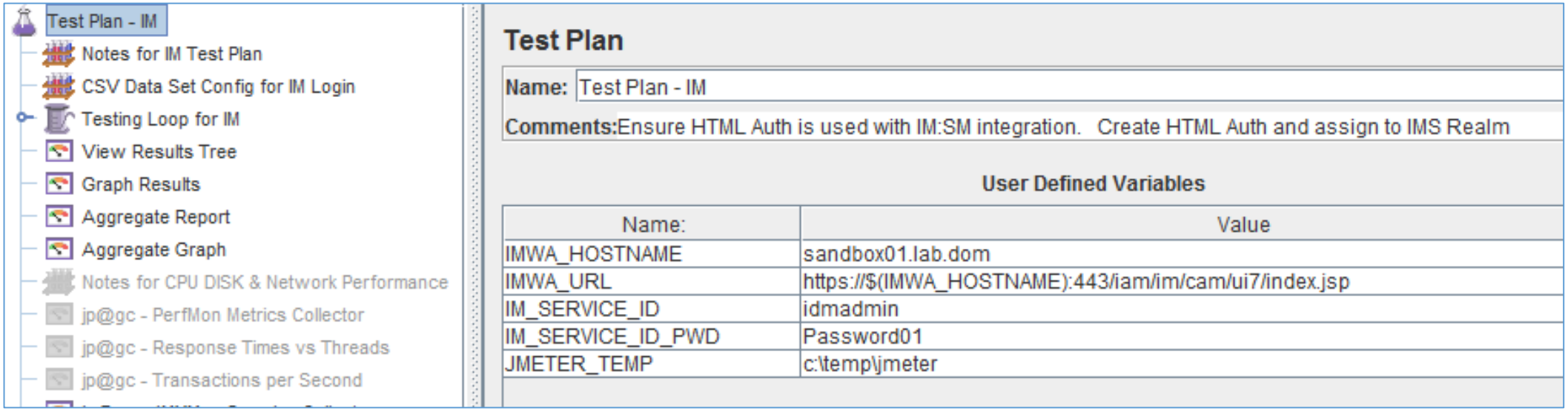
jp@gc – PerfMon Collectors; PerfMon Metrics Collectors requires ServerAgent be deployed and updated with a service account. These reports are ONLY available with the extended Jmeter Plug-in packages. NOT Required for benchmark/performance testing.

WorkBench – The Jmeter section to allow a HTTP Proxy Server to be used + any other customization.



Jmeter is very flexible and open design. To provide clarity, I have created this methodology/outline for the Jmeter Test Plan for CA IM Web App

Step 01: Jmeter Test Plan for IMWA: TestPlan

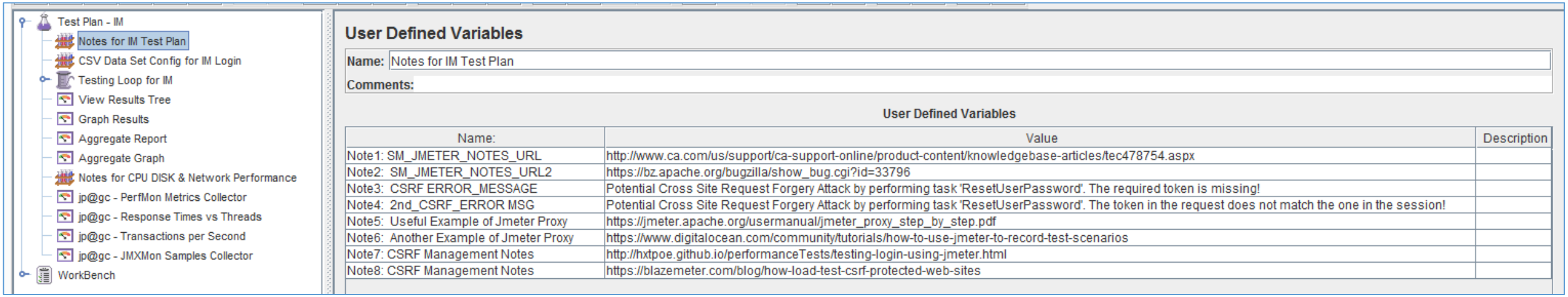


The **top** level.

Define a name & variables to be used.

Jmeter Variables are referenced by ${NAME}

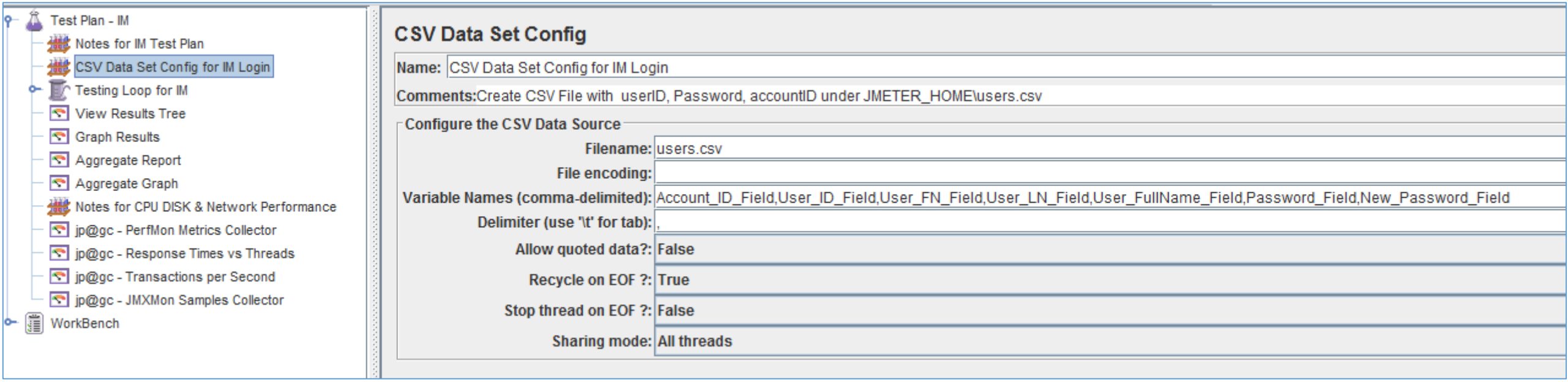
Step 02: Jmeter Test Plan for IMWA: Notes



This “User Defined Variables” item was “re-purposed” to hold useful notes. Has no other input or value to the test plan.

Included notes or URL examples that were found to have value

Step 03: Jmeter Test Plan for IMWA: CSV File

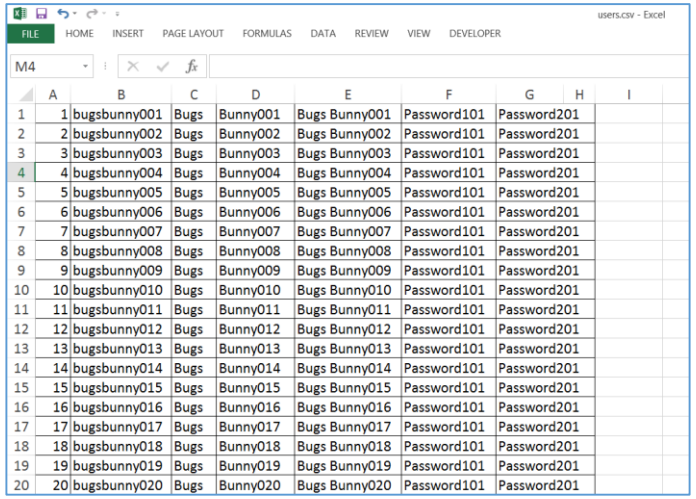


This “CSV Data Set Config” is Jmeter method to introduce multiple inputs.

A “users.csv file was created (no header), with 100 rows.

The headers are defined in the “Variable Names” Edit Field.

Accepted the defaults of “Allow quoted data, Recycle on EOF, Stop thread on EOF, Shared mode”



users.csv - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER

M4

	A	B	C	D	E	F	G	H	I
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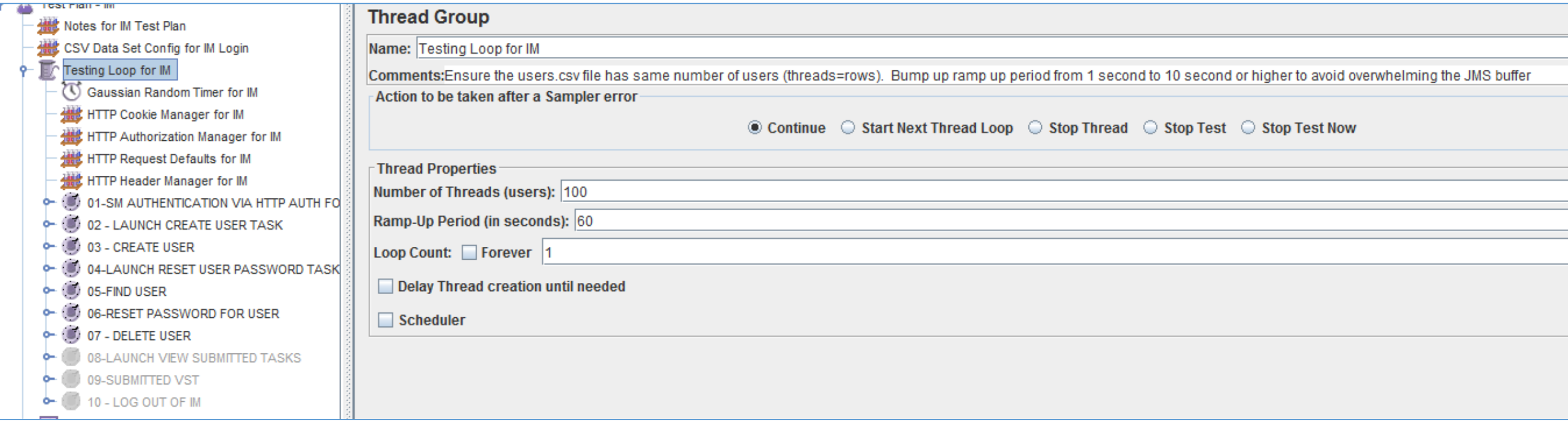
3	3	bugsbunny003	Bugs	Bunny003	Bugs Bunny003	Password101	Password201		
4	4	bugsbunny004	Bugs	Bunny004	Bugs Bunny004	Password101	Password201		
5	5	bugsbunny005	Bugs	Bunny005	Bugs Bunny005	Password101	Password201		
6	6	bugsbunny006	Bugs	Bunny006	Bugs Bunny006	Password101	Password201		
7	7	bugsbunny007	Bugs	Bunny007	Bugs Bunny007	Password101	Password201		
8	8	bugsbunny008	Bugs	Bunny008	Bugs Bunny008	Password101	Password201		
9	9	bugsbunny009	Bugs	Bunny009	Bugs Bunny009	Password101	Password201		
10	10	bugsbunny010	Bugs	Bunny010	Bugs Bunny010	Password101	Password201		
11	11	bugsbunny011	Bugs	Bunny011	Bugs Bunny011	Password101	Password201		
12	12	bugsbunny012	Bugs	Bunny012	Bugs Bunny012	Password101	Password201		
13	13	bugsbunny013	Bugs	Bunny013	Bugs Bunny013	Password101	Password201		
14	14	bugsbunny014	Bugs	Bunny014	Bugs Bunny014	Password101	Password201		
15	15	bugsbunny015	Bugs	Bunny015	Bugs Bunny015	Password101	Password201		
16	16	bugsbunny016	Bugs	Bunny016	Bugs Bunny016	Password101	Password201		
17	17	bugsbunny017	Bugs	Bunny017	Bugs Bunny017	Password101	Password201		
18	18	bugsbunny018	Bugs	Bunny018	Bugs Bunny018	Password101	Password201		
19	19	bugsbunny019	Bugs	Bunny019	Bugs Bunny019	Password101	Password201		
20	20	bugsbunny020	Bugs	Bunny020	Bugs Bunny020	Password101	Password201		

Step 04: Jmeter Test Plan for IMWA: Thread Group (Loop)

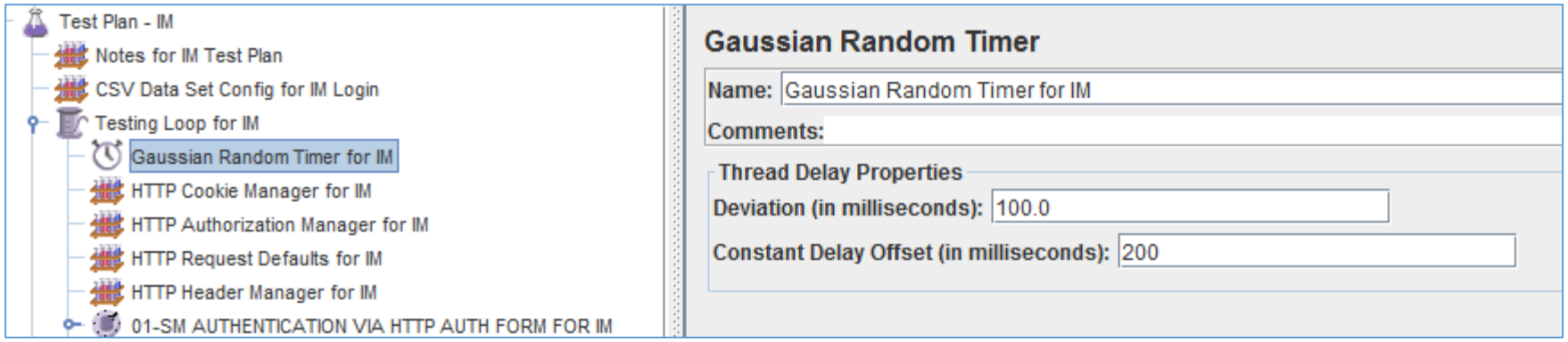


A Jmeter Test Plan is managed by a Thread Group “container”.

The Thread Group will define how the test is executed and how many threads & loops.

This “Thread Group” for IM testing uses the following as a peak of the excepted use-cases.
100 (threads=users), ramped up over 60 seconds, for 1 iteration.

Step 05: Jmeter Test Plan for IMWA: Timer



A Jmeter Test Plan will execute as RAPIDLY as possible.

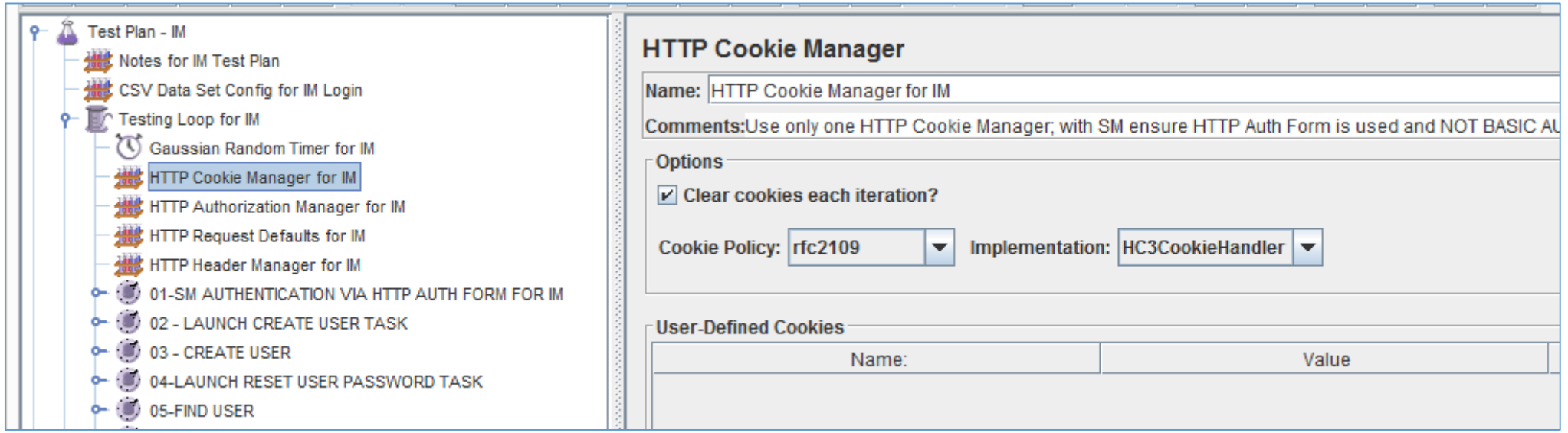
To slow down this process & emulate what a user(s) may perform, Jmeter offers several different “Timer” operations.

Jmeter is managed hierarchal, such that objected defined prior, are available to all subsequent operations.

The Gaussian Random Timer was chosen with a constant delay of 200 milliseconds & attached immediately after the Jmeter Thread Group was defined.

This timer may be temporarily disabled by “right click” on the operation, and select DISABLE

Step 06: Jmeter Test Plan for IMWA: Cookie Manager



To manage web session cookie for IM and SiteMinder, a Jmeter HTTP Cookie Manager is added to the Thread Group.

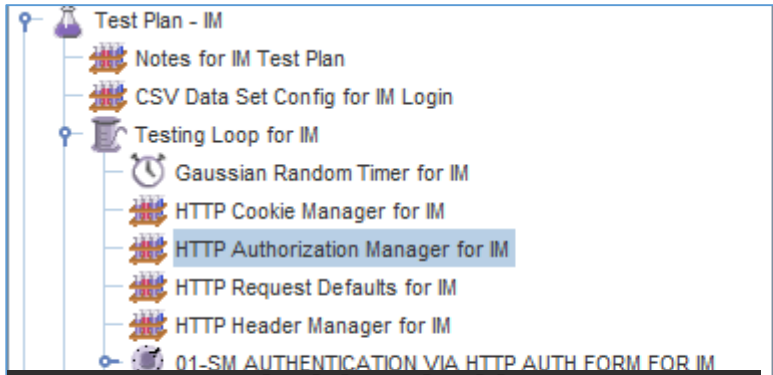
SiteMinder Session Cookies require use of the following:

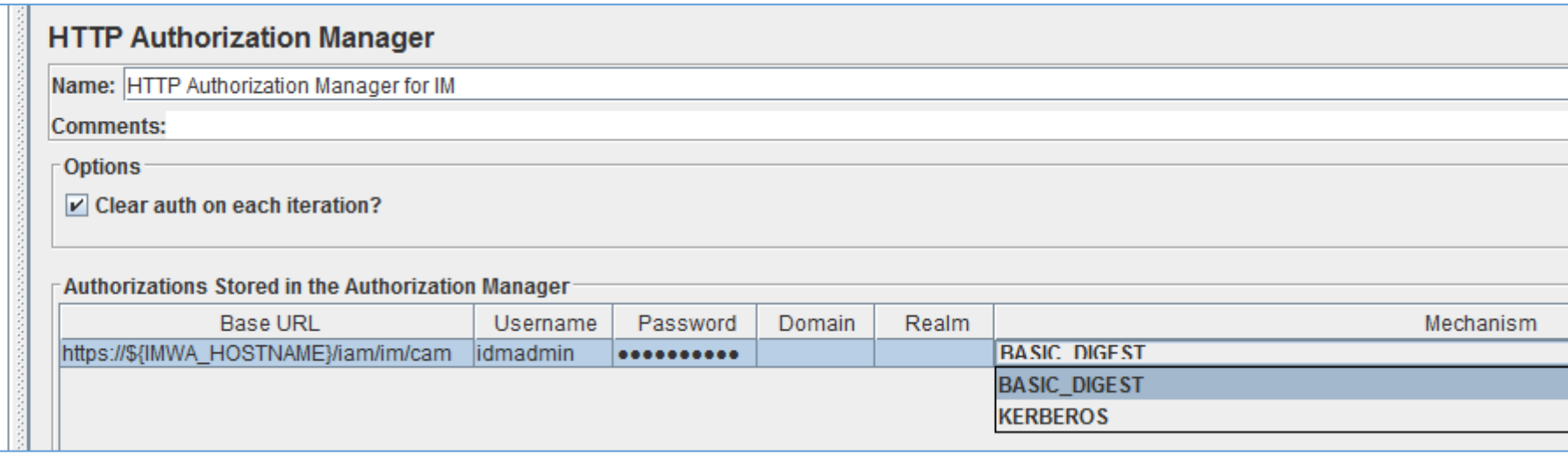
Jmeter Cookie policy: **rfc2109** & Implementation of **HC3CookieHandler.**

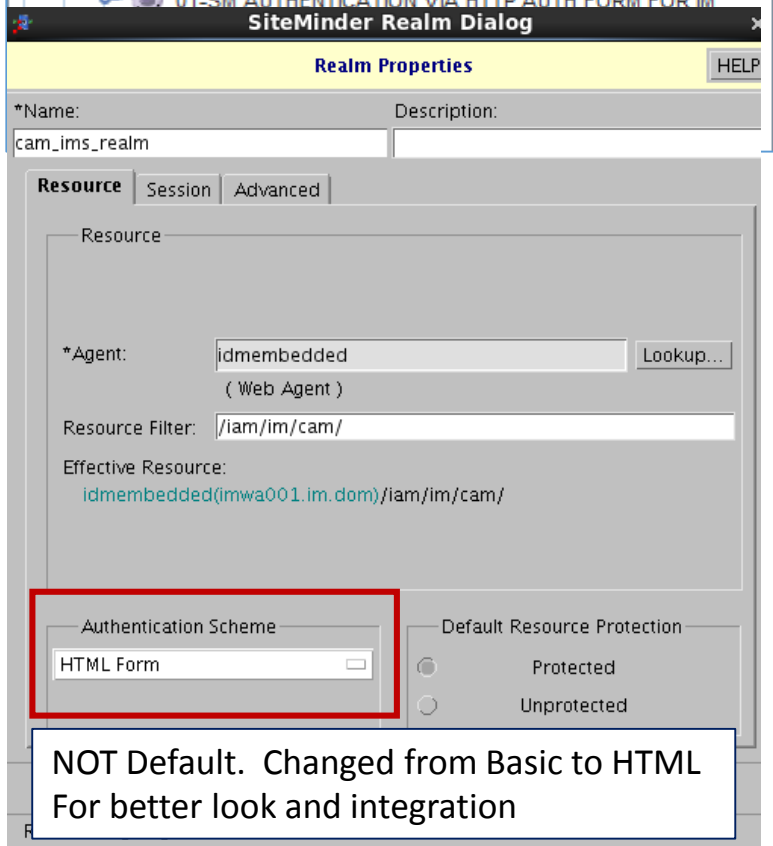
SiteMinder follows RFC2109 standards for session cookies & uses IPv4.

HC3CookieHander = IPv4 HC4CookieHandler = IPv6

Step 07: Jmeter Test Plan for IMWA: Auth Manager





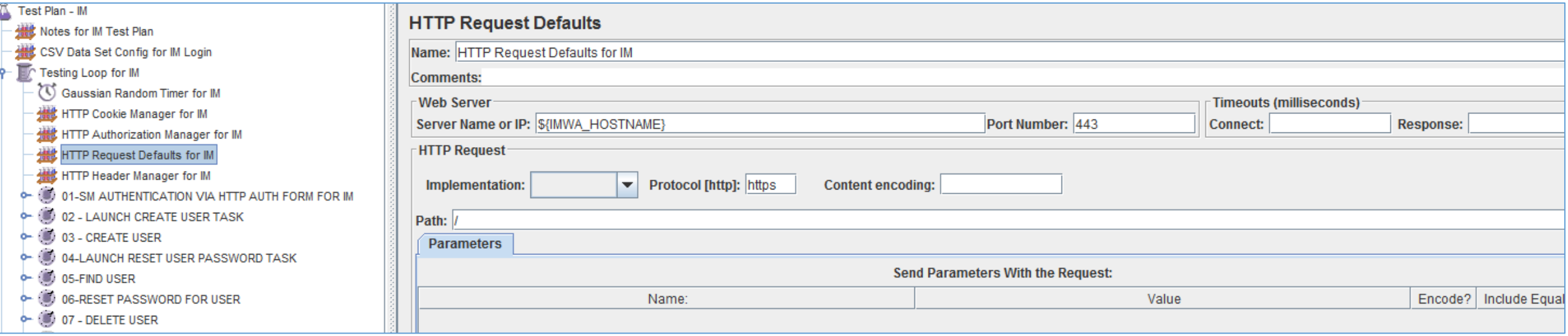


NOT Default. Changed from Basic to HTML For better look and integration

To manage HTTP authentication for IM and SiteMinder, a Jmeter HTTP Authorization Manager is added to the Thread Group.

Jmeter requires SiteMinder Authentication to be HTML Form based. Update the IM IMS Realm from default of BASIC to HTML Form using SSO UI (SM WAMUI or SM FSSUI)

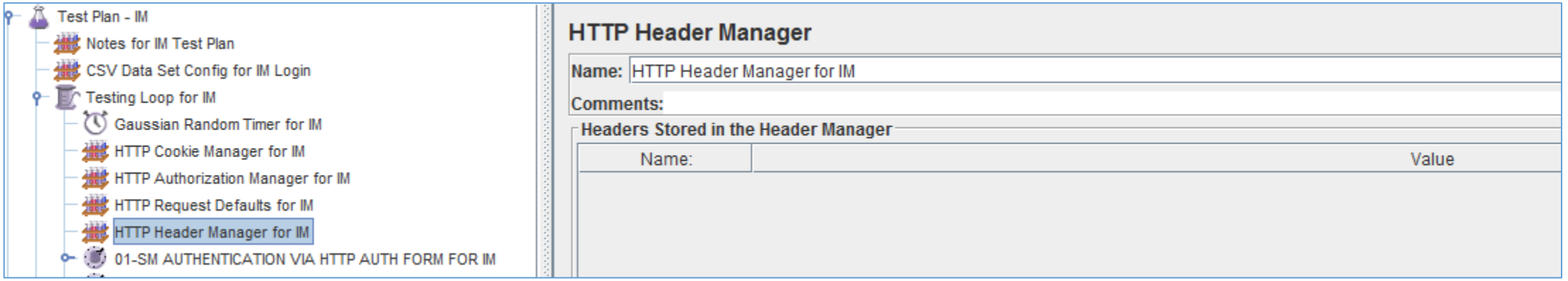
Step 08: Jmeter Test Plan for IMWA: Request Defaults



To manage any possible unique parameter for a test plan; a Jmeter HTTP Request Defaults operation is added to the Thread Group.

No changes other than definition of the Web Server's Server Name to a variable and the Port Number, were required or needed.

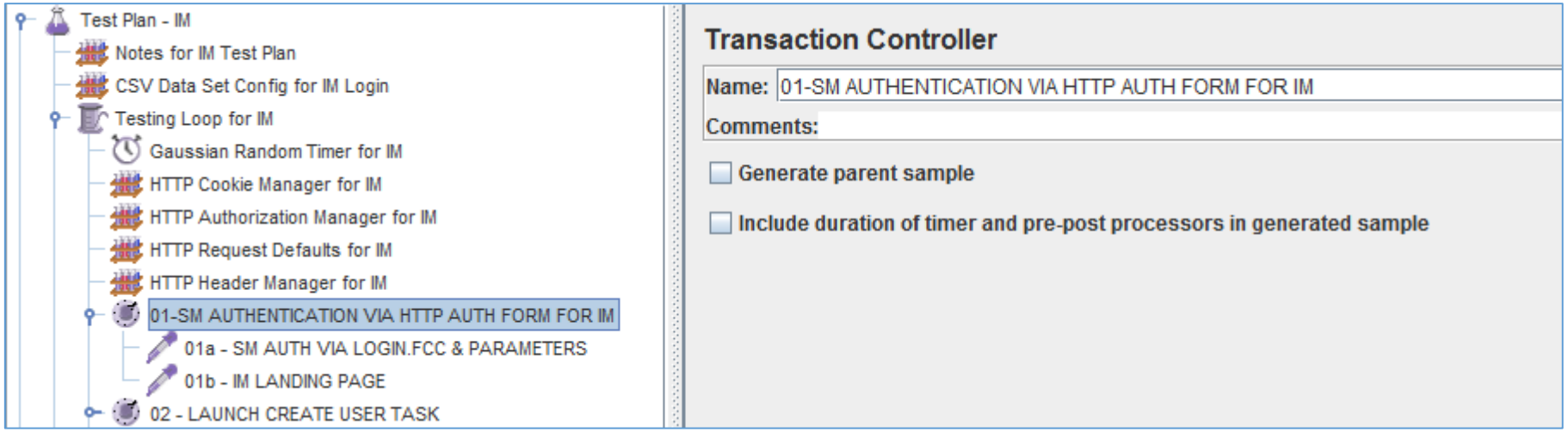
Step 09: Jmeter Test Plan for IMWA: Header Manager



To manage any possible unique header parameter for a test plan; a Jmeter HTTP Header Manager operation is added to the Thread Group.

No changes required to be defined.

Step 10: Jmeter Test Plan for IMWA: Transaction Controller



The first of the HTTP operations to be managed.

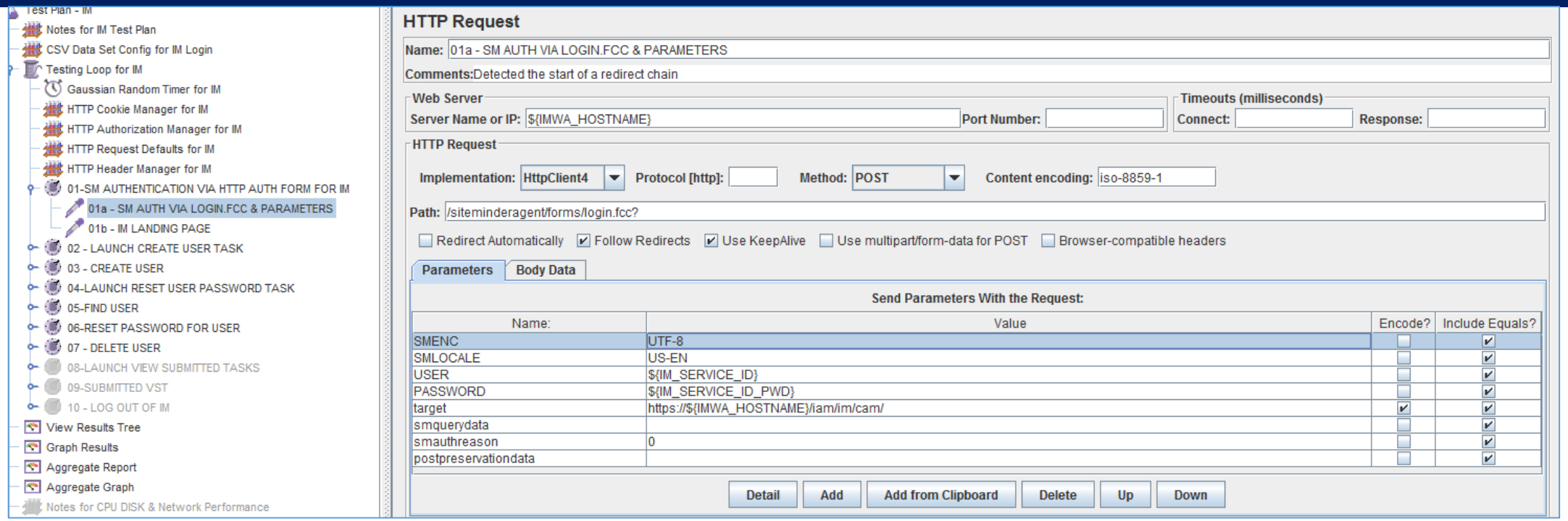
A Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the initial BIND operation.

No changes to be defined on this item

Step 11: Jmeter Test Plan for IMWA: HTTP Request



The first of the HTTP Request

This was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

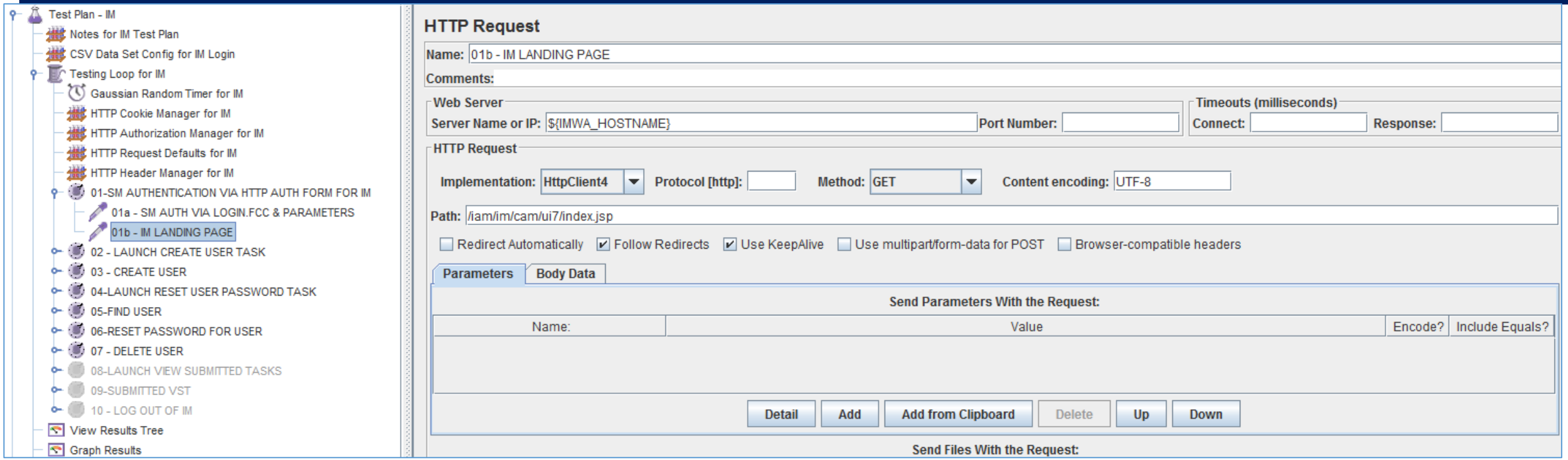
The title was re-labeled to clarify the operation being performed.

Any static values related to session cookies were removed. The USER & PASSWORD fields were auto-populated by Jmeter with the Jmeter variables.

This item will manage the initial BIND operation.

No other changes to be defined on this item

Step 12: Jmeter Test Plan for IMWA: HTTP Request



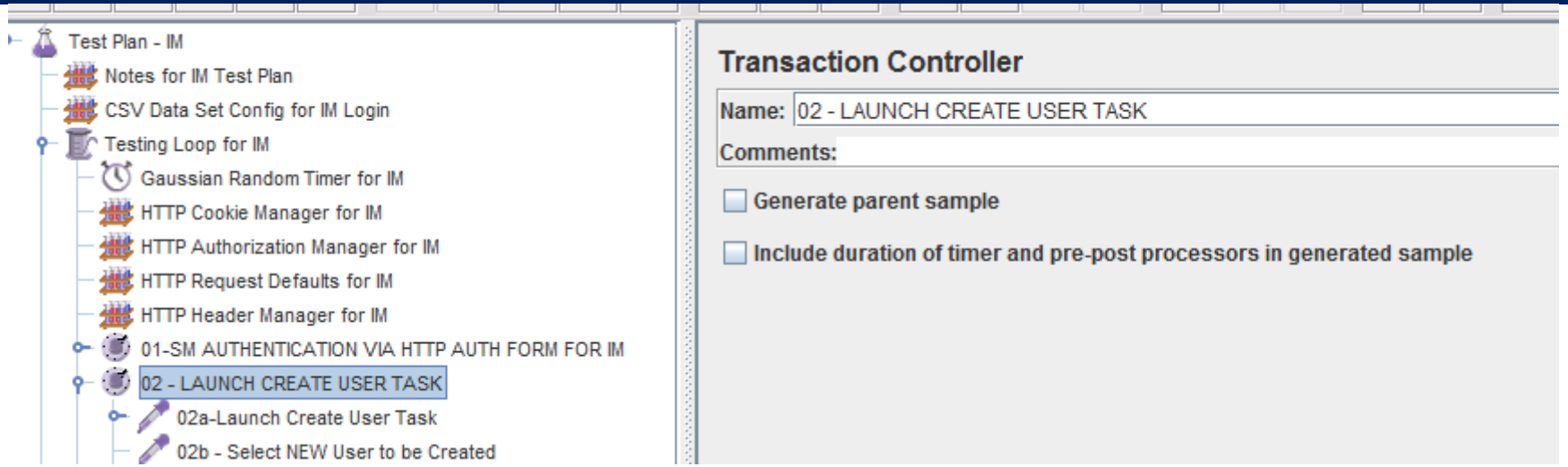
This was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

This is a GET operation is likely is NOT required for the test plan. It was left for clarity where SiteMinder was referred from. ion.

No other changes to be defined on this item

Step 13: Jmeter Test Plan for IMWA: Transaction Controller

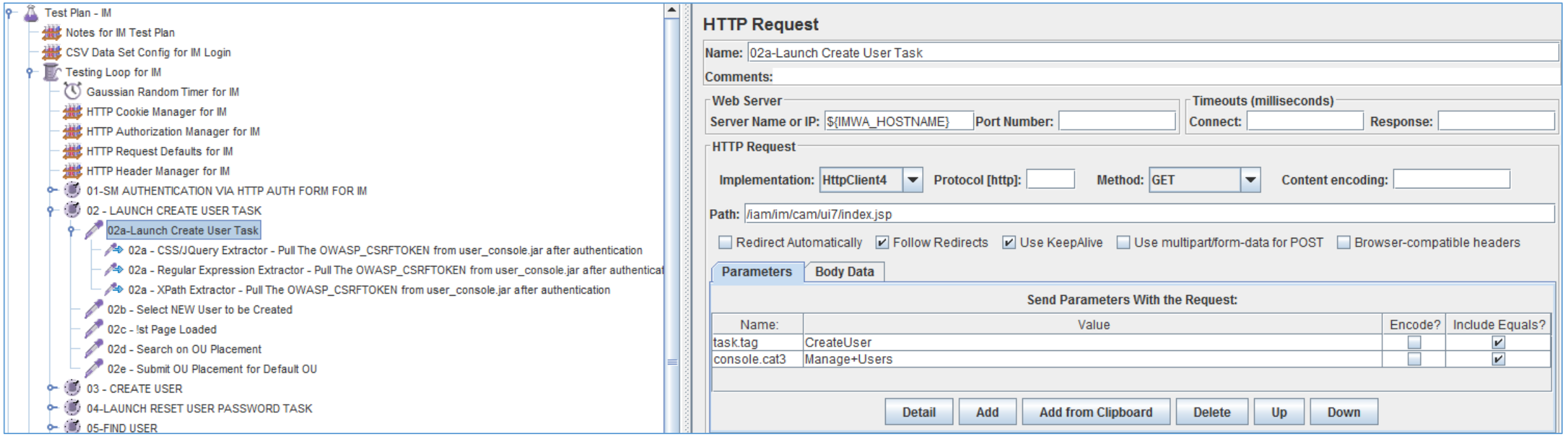


The 2nd of the HTTP operations to be managed.
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.
This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the IM Create User Task operation.

No changes to be defined on this item

Step 14: Jmeter Test Plan for IMWA: HTTP Request



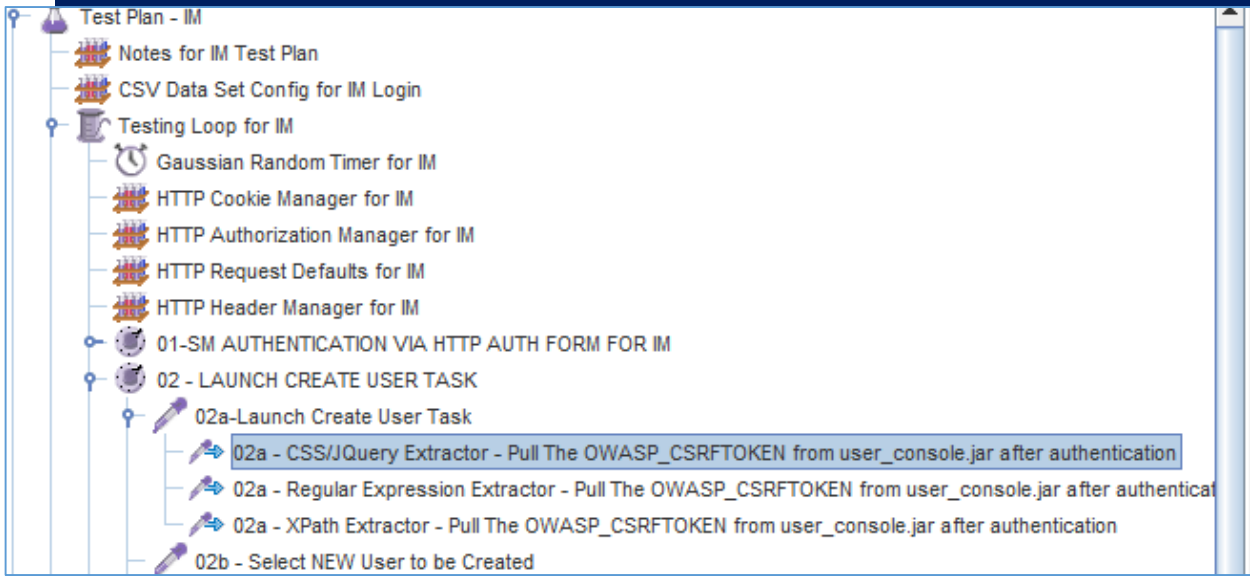
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

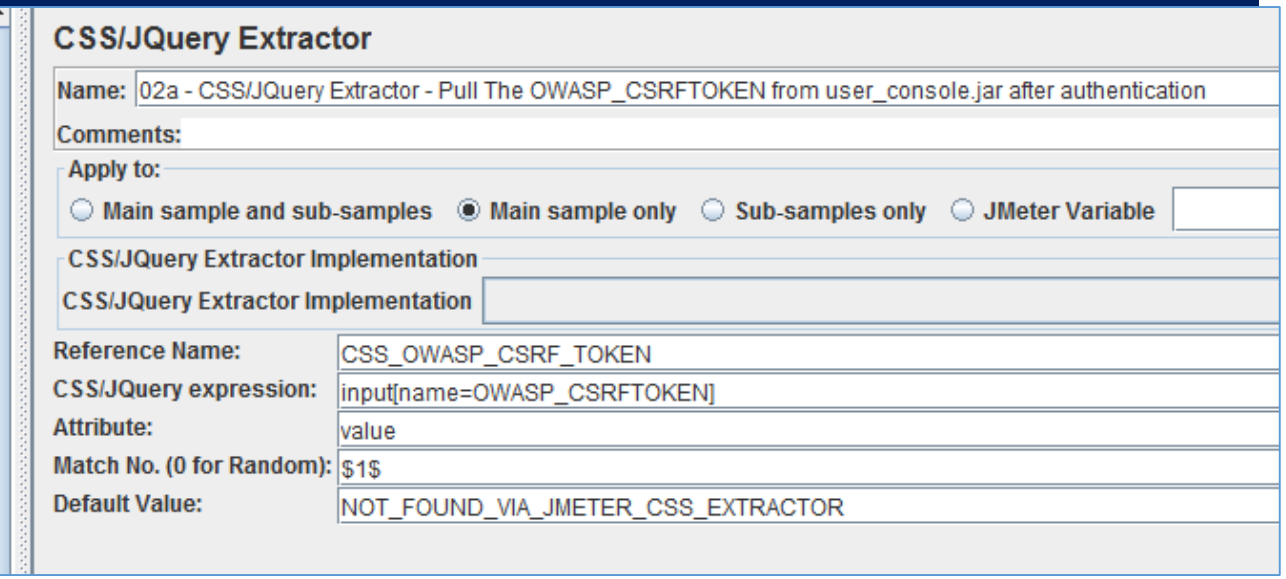
The title was re-labeled to clarify the operation being performed.

This HTTP GET operation is NEEDED, as it will launch the IM CreateUser Task & execute the security process to protect the IM solution from Cross Site Request Forgery.

No changes required for this operation

Step 15a: Jmeter Test Plan for IMWA: CSS/Jquery





This operation was NOT captured by the Jmeter HTTP Recorder.

During validation of the original test plan, it was observed that an error message would occur and state that a Cross Site Request Forgery was occurring, and needed to be addressed.

To ensure this CSRF Token is auto-generated and capture in a variable, one of three (3) methods may be used:

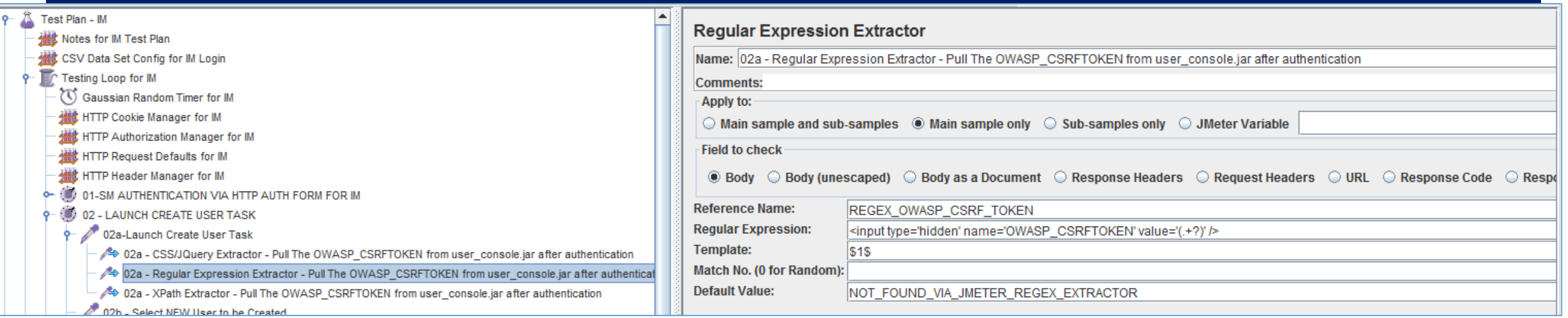
1) CSS/Jquery Extractor 2) Regular Express 3) Xpath Extractor

The example LAB uses the CSS / Jquery Extractor

This process is copied to every IM task operation, to allow a test administrator to disable parts of the lab, but not lose this functionality, if this one section is disabled.

Every IM task that has a HTTP POST and this OWASP_CSRFTOKEN parameter defined, will be updated with the ${CSS_OWASP_CSRF_TOKEN} variable.

Step 15b: Jmeter Test Plan for IMWA: RegEx



This operation was NOT captured by the Jmeter HTTP Recorder.

During validation of the original test plan, it was observed that an error message would occur and state that a Cross Site Request Forgery was occurring, and needed to be addressed.

To ensure this CSRF Token is auto-generated and capture in a variable, one of three (3) methods may be used:

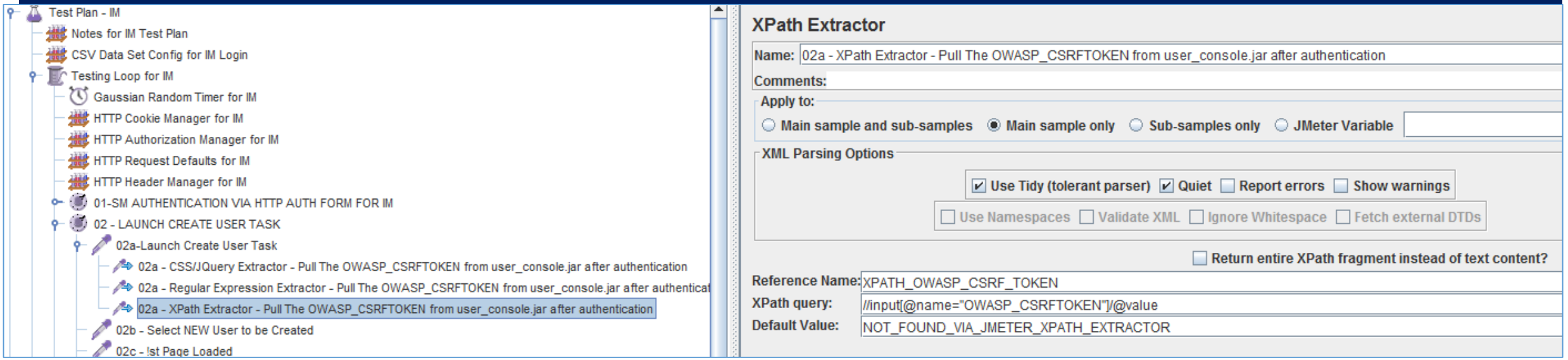
1) CSS/Jquery Extractor 2) Regular Express 3) Xpath Extractor

The example LAB uses the CSS / Jquery Extractor

This process is copied to every IM task operation, to allow a test administrator to disable parts of the lab, but not lose this functionality, if this one section is disabled.

Every IM task that has a HTTP POST and this OWASP_CSRFTOKEN parameter defined, will be updated with the ${CSS_OWASP_CSRF_TOKEN} variable.

Step 15c: Jmeter Test Plan for IMWA: Xpath Extractor



This operation was NOT captured by the Jmeter HTTP Recorder.

During validation of the original test plan, it was observed that an error message would occur and state that a Cross Site Request Forgery was occurring, and needed to be addressed.

To ensure this CSRF Token is auto-generated and capture in a variable, one of three (3) methods may be used:

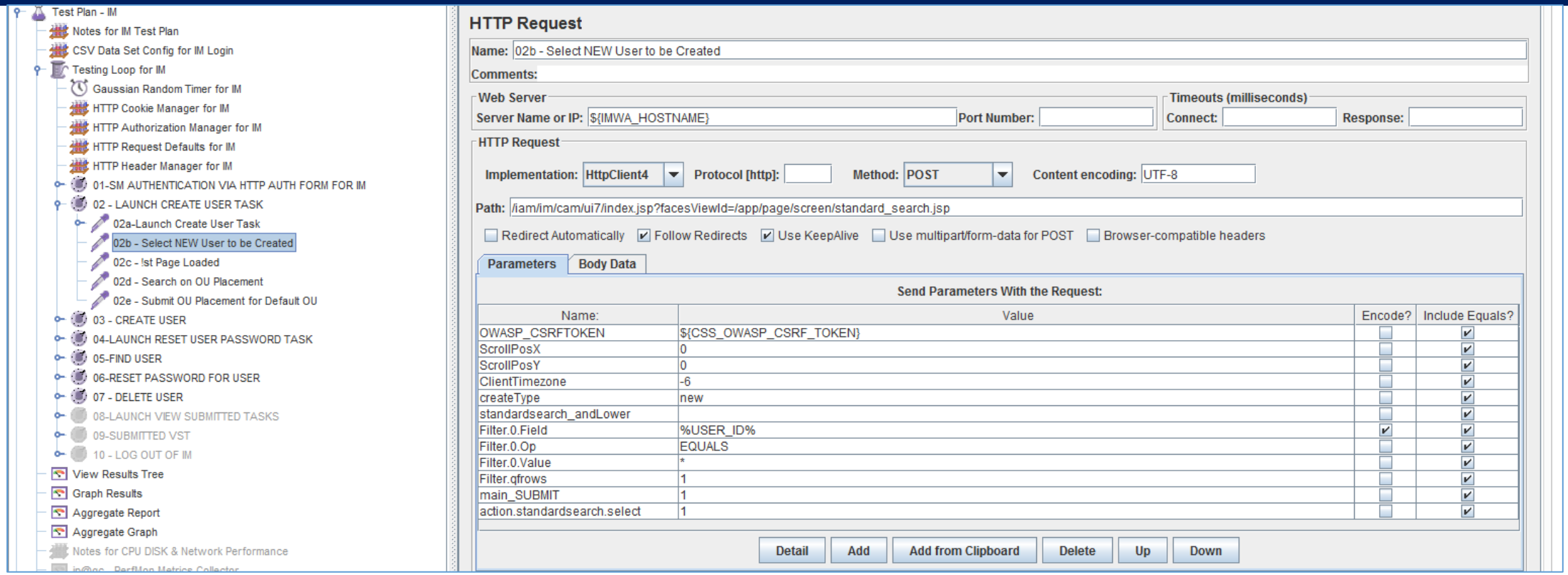
1) CSS/Jquery Extractor 2) Regular Express 3) Xpath Extractor

The example LAB uses the CSS / Jquery Extractor

This process is copied to every IM task operation, to allow a test administrator to disable parts of the lab, but not lose this functionality, if this one section is disabled.

Every IM task that has a HTTP POST and this OWASP_CSRFTOKEN parameter defined, will be updated with the ${CSS_OWASP_CSRF_TOKEN} variable.

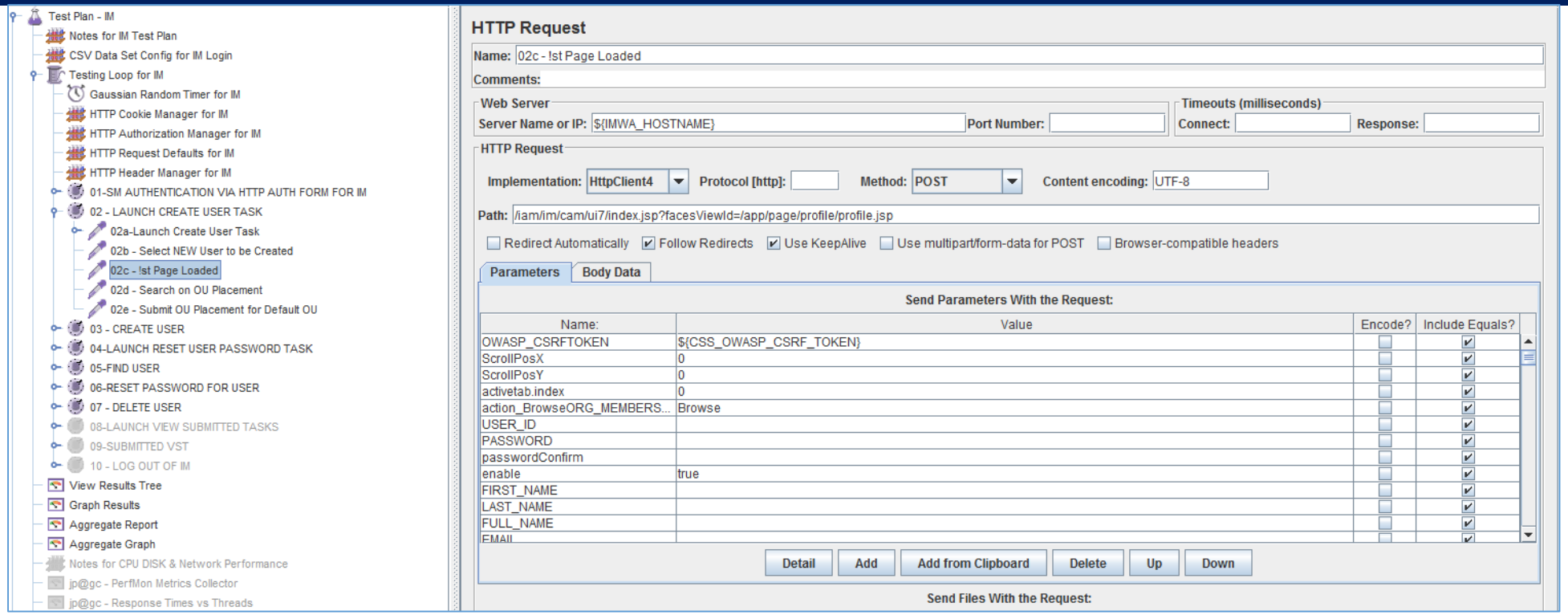
Step 16: Jmeter Test Plan for IMWA: HTTP Request



This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.
The title was re-labeled to clarify the operation being performed.

Note the “createType” = “new” parameter
Only the OWASP_CSRFTOKEN parameter was updated with the ${CSS_OWASP_CSRF_TOKEN}

Step 17: Jmeter Test Plan for IMWA: HTTP Request



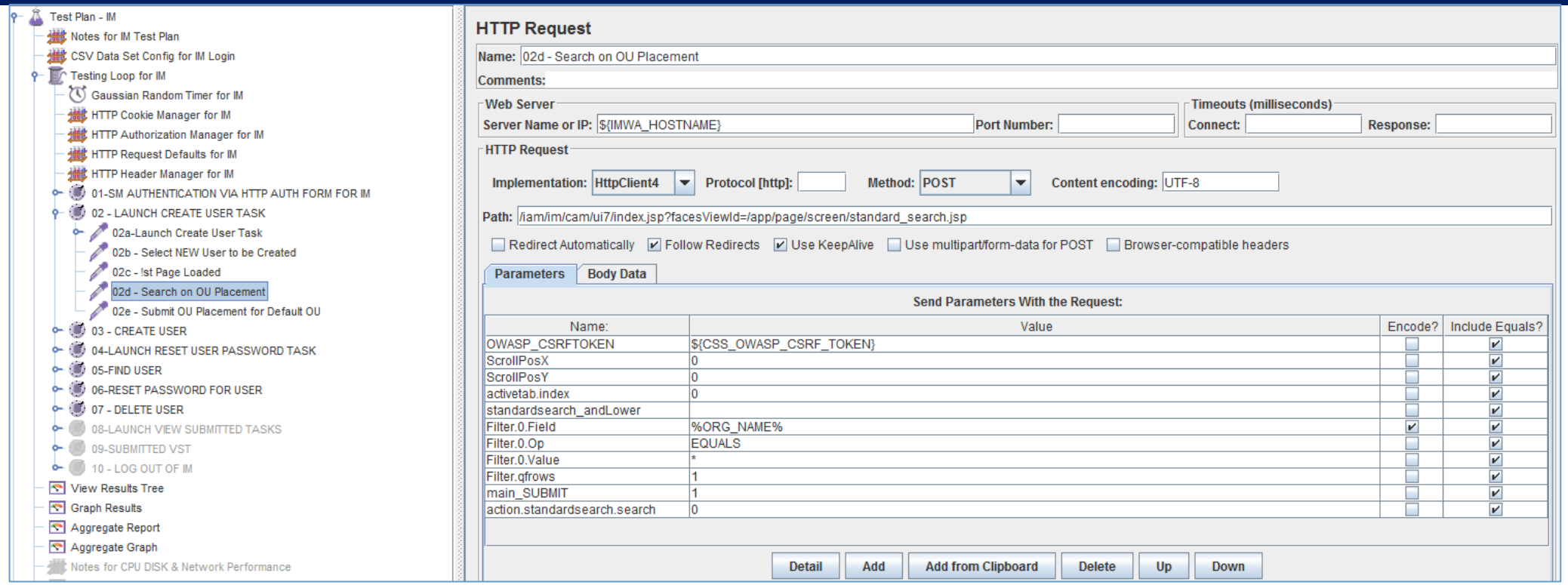
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

Note the “enable” = “true” parameter. The entire IM Create User Screen was loaded but only this attribute was pre-define on this page

The OWASP_CSRFTOKEN parameter was updated with the ${CSS_OWASP_CSRF_TOKEN}

Step 18: Jmeter Test Plan for IMWA: HTTP Request



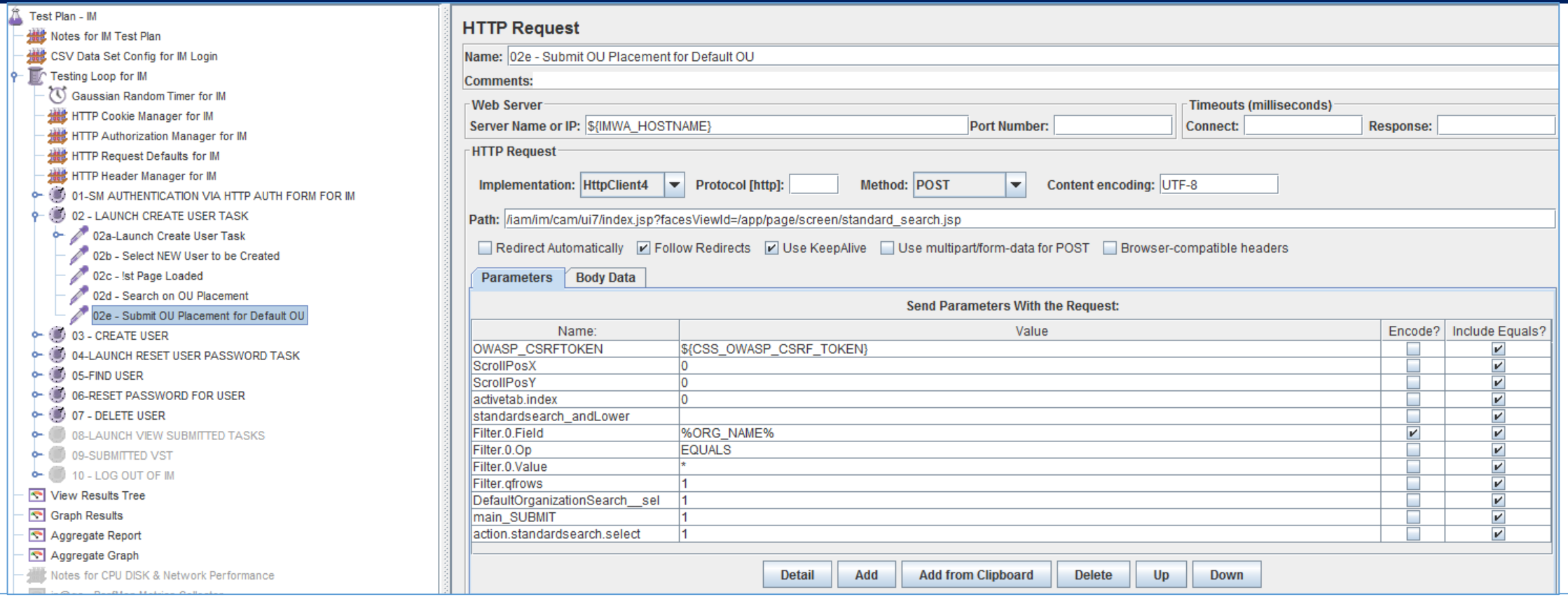
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

The initial search on user's OU may NOT be necessary, but was retained to emulate the user's experience.

The OWASP_CSRFTOKEN parameter was updated with the ${CSS_OWASP_CSRF_TOKEN}

Step 19: Jmeter Test Plan for IMWA: HTTP Request



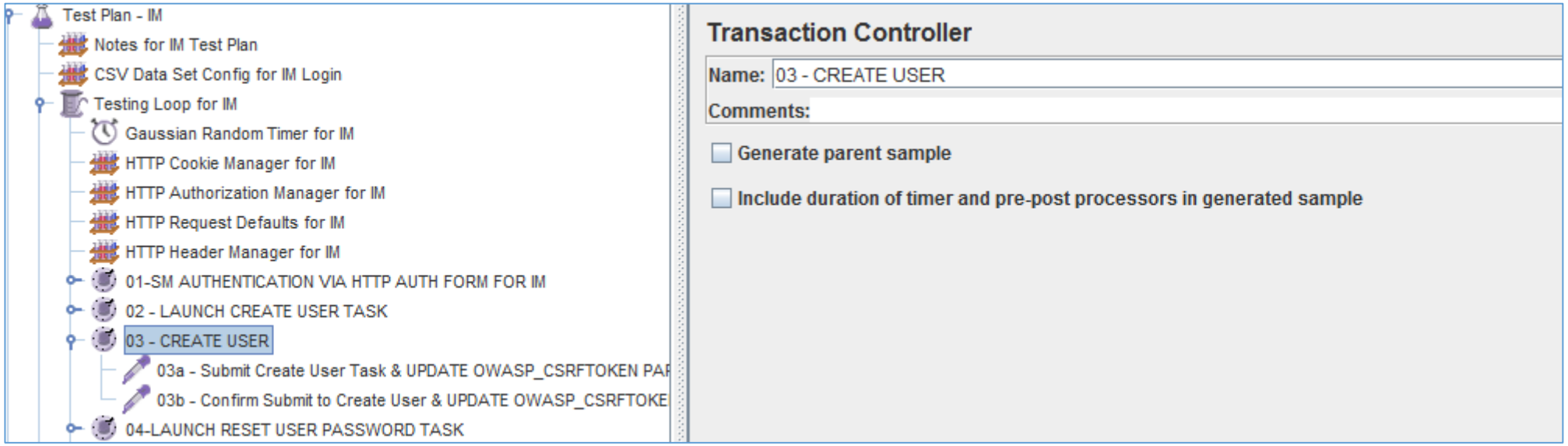
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

Note “DefaultOrganizationSearch__sel” = “1”

The OWASP_CSRFTOKEN parameter was updated with the ${CSS_OWASP_CSRF_TOKEN} value.

Step 20: Jmeter Test Plan for IMWA: Transaction Controller



The 3rd of the HTTP operations to be managed.

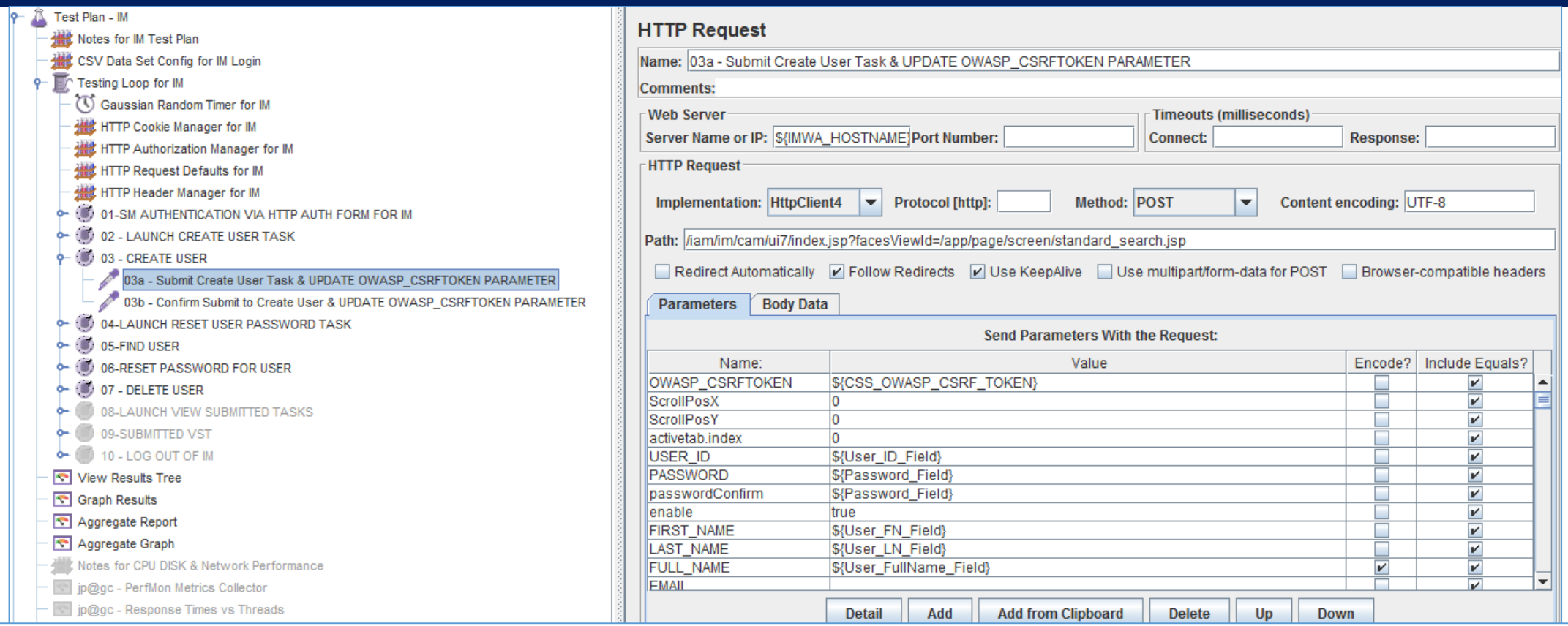
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the submission of the IM Create User Task operation.

No changes to be defined on this item

Step 21: Jmeter Test Plan for IMWA: HTTP Request



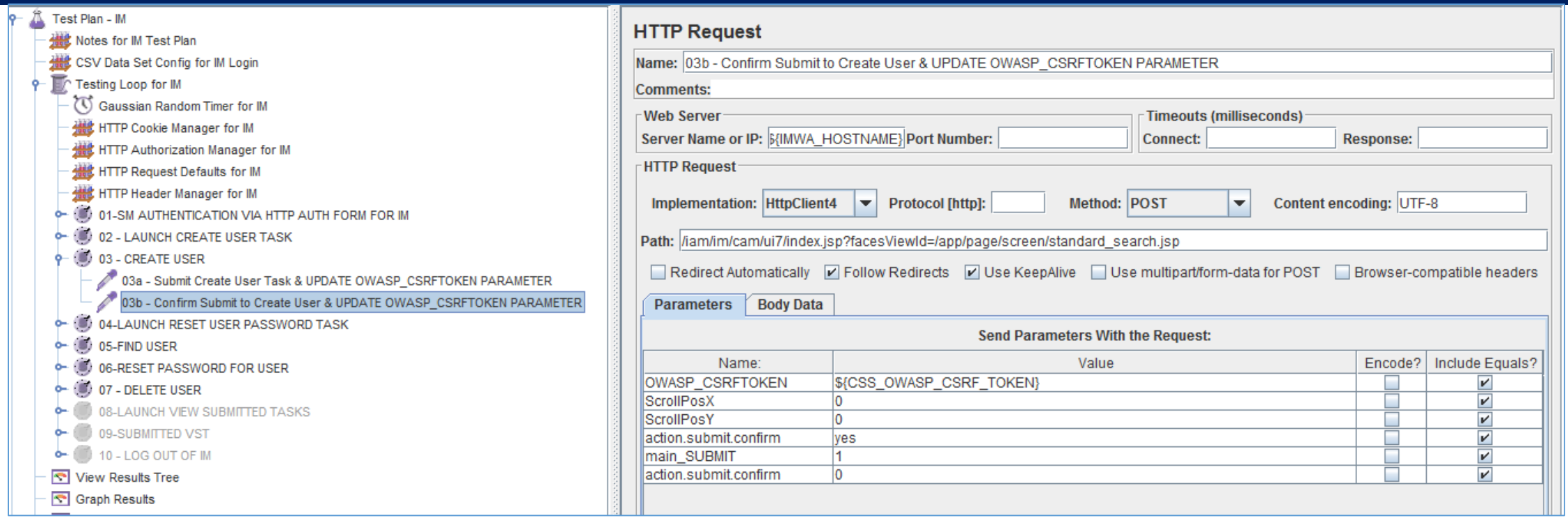
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

The following minimal required parameters were updated to use the CSV variables:

USER_ID = ${User_ID_Field}, PASSWORD = ${Password_Field},passwordConfirm = ${Password_Field}, FIRST_NAME = ${User_FN_Field}, LAST_NAME = ${User_LN_Field}, FULL_NAME = ${User_FullName_Field}, & OWASP_CSRFTOKEN = ${CSS_OWASP_CSRF_TOKEN}

Step 22: Jmeter Test Plan for IMWA: HTTP Request



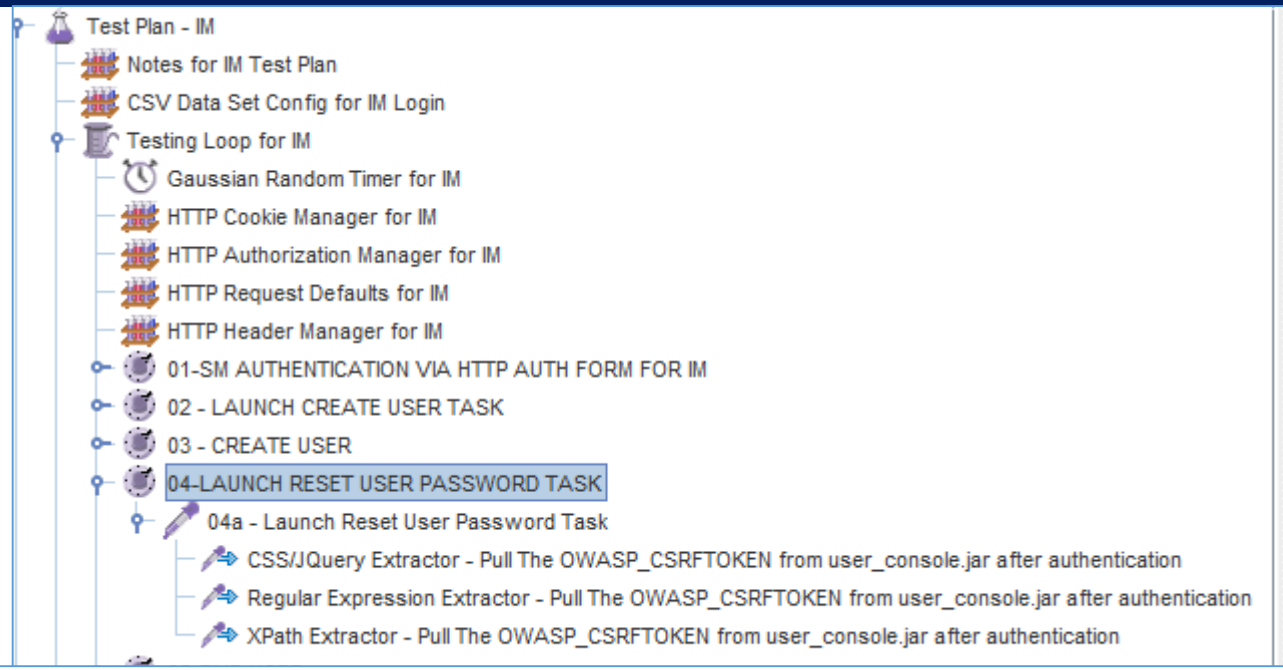
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

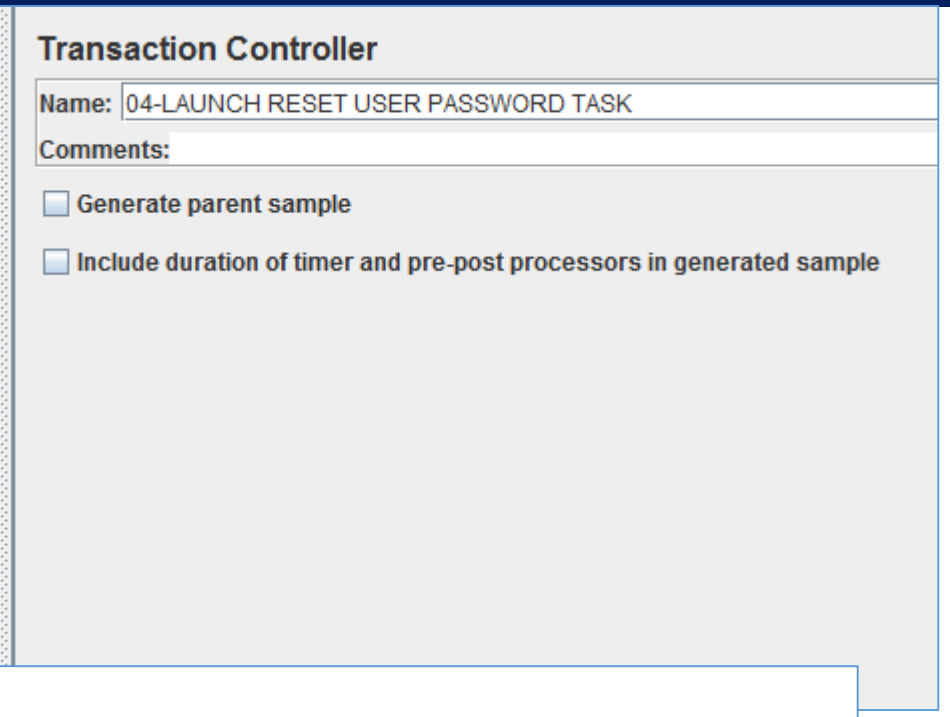
The title was re-labeled to clarify the operation being performed.

Note “action.submit.confirm” = “yes”

The OWASP_CSRFTOKEN parameter was updated with the ${CSS_OWASP_CSRF_TOKEN} value.

Step 23: Jmeter Test Plan for IMWA: Transaction Controller





The 4th of the HTTP operations to be managed.

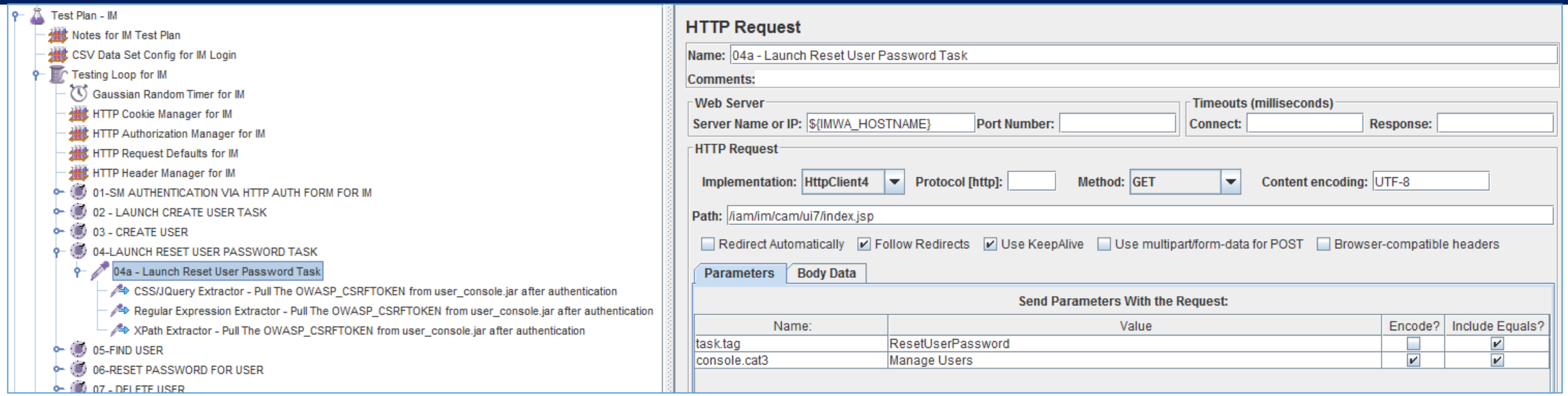
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the launch of the IM Reset a User Password operation. This section assumes the users' accounts exist or were created prior.

No changes to be defined on this item

Step 24: Jmeter Test Plan for IMWA: HTTP Request



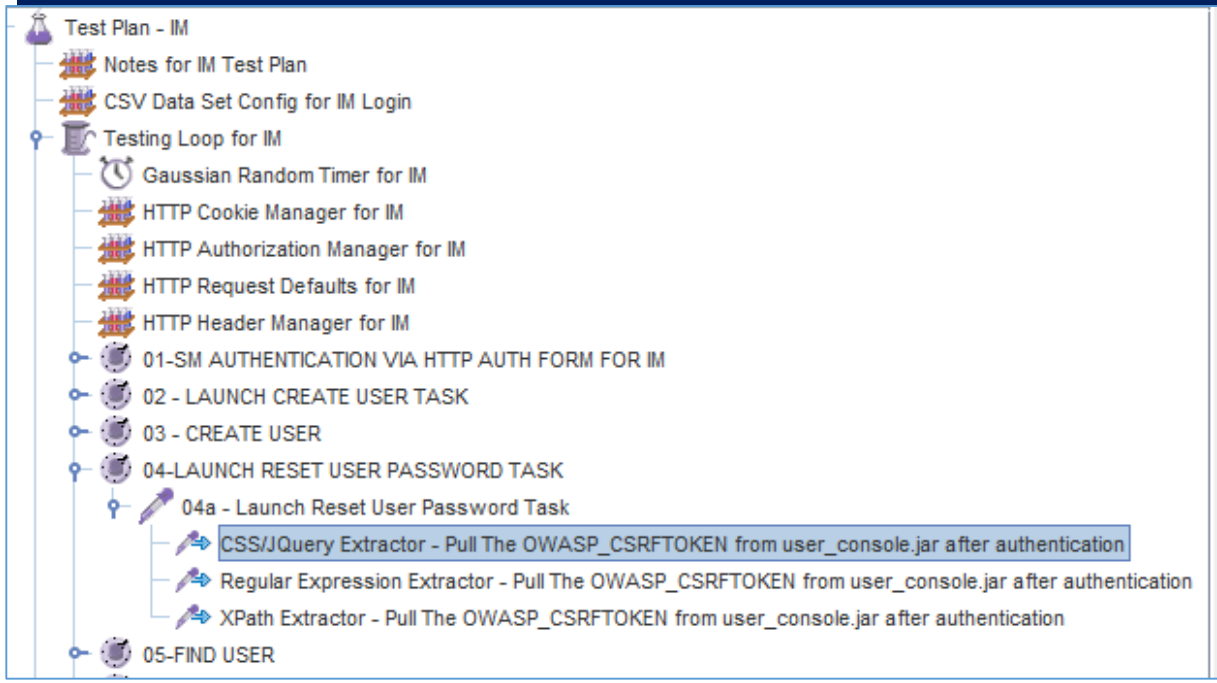
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

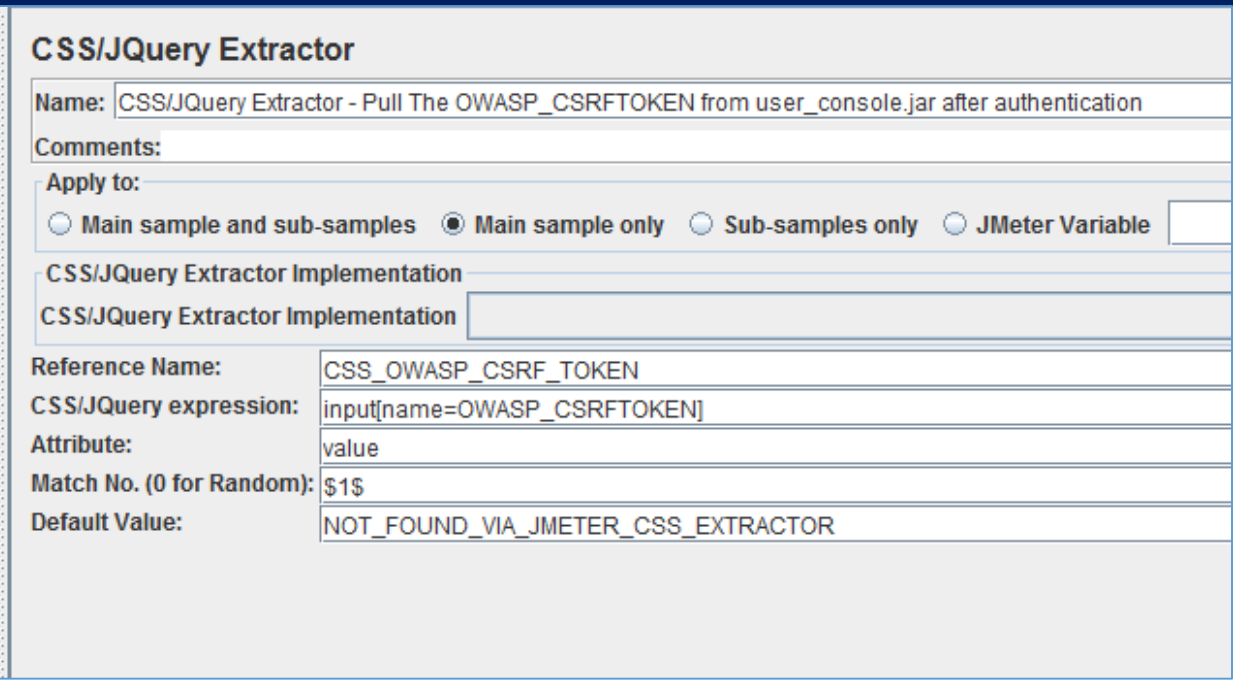
The title was re-labeled to clarify the operation being performed.

This HTTP GET operation is NEEDED, as it will launch the IM ResetUserPassword Task & execute the security process to protect the IM solution from Cross Site Request Forgery (if it was NOT already performed)

No changes required for this operation

Step 25a: Jmeter Test Plan for IMWA: CSS/JQuery





This operation was NOT captured by the Jmeter HTTP Recorder.

During validation of the original test plan, it was observed that an error message would occur and state that a Cross Site Request Forgery was occurring, and needed to be addressed.

To ensure this CSRF Token is auto-generated and capture in a variable, one of three (3) methods may be used:

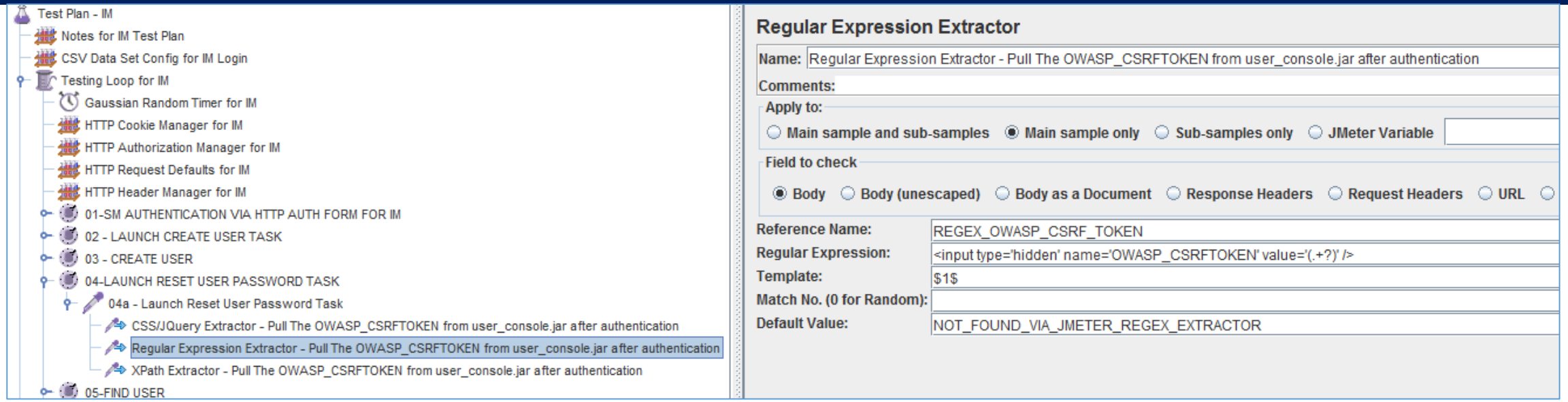
1) CSS/Jquery Extractor 2) Regular Express 3) Xpath Extractor

The example LAB uses the CSS / Jquery Extractor

This process is copied to every IM task operation, to allow a test administrator to disable parts of the lab, but not lose this functionality, if this one section is disabled.

Every IM task that has a HTTP POST and this OWASP_CSRFTOKEN parameter defined, will be updated with the ${CSS_OWASP_CSRF_TOKEN} variable.

Step 25b: Jmeter Test Plan for IMWA: RegEx



This operation was NOT captured by the Jmeter HTTP Recorder.

During validation of the original test plan, it was observed that an error message would occur and state that a Cross Site Request Forgery was occurring, and needed to be addressed.

To ensure this CSRF Token is auto-generated and capture in a variable, one of three (3) methods may be used:

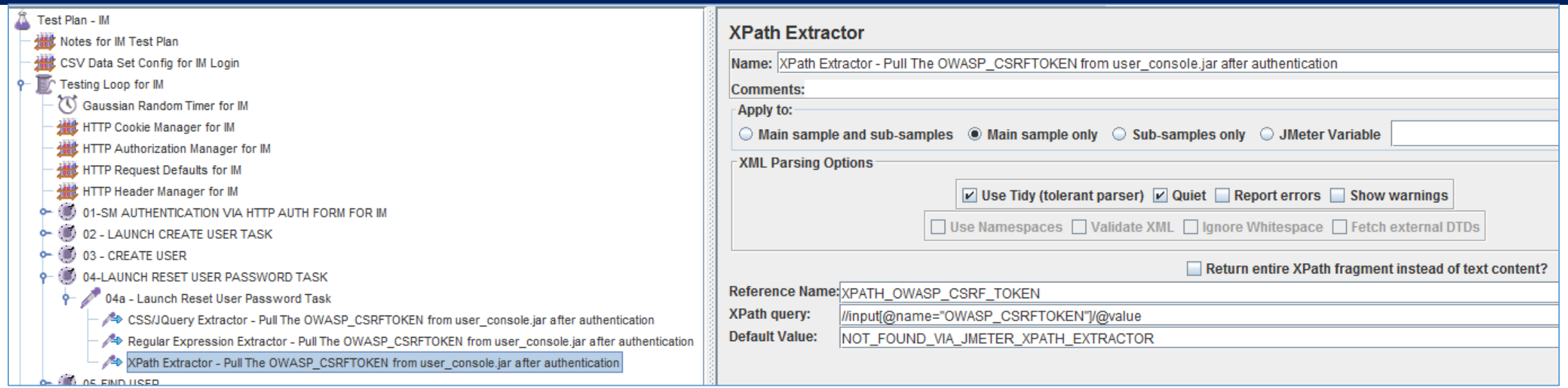
1) CSS/Jquery Extractor 2) Regular Express 3) Xpath Extractor

The example LAB uses the CSS / Jquery Extractor

This process is copied to every IM task operation, to allow a test administrator to disable parts of the lab, but not lose this functionality, if this one section is disabled.

Every IM task that has a HTTP POST and this OWASP_CSRFTOKEN parameter defined, will be updated with the ${CSS_OWASP_CSRF_TOKEN} variable.

Step 25c: Jmeter Test Plan for IMWA: Xpath Extractor



This operation was NOT captured by the Jmeter HTTP Recorder.

During validation of the original test plan, it was observed that an error message would occur and state that a Cross Site Request Forgery was occurring, and needed to be addressed.

To ensure this CSRF Token is auto-generated and capture in a variable, one of three (3) methods may be used:

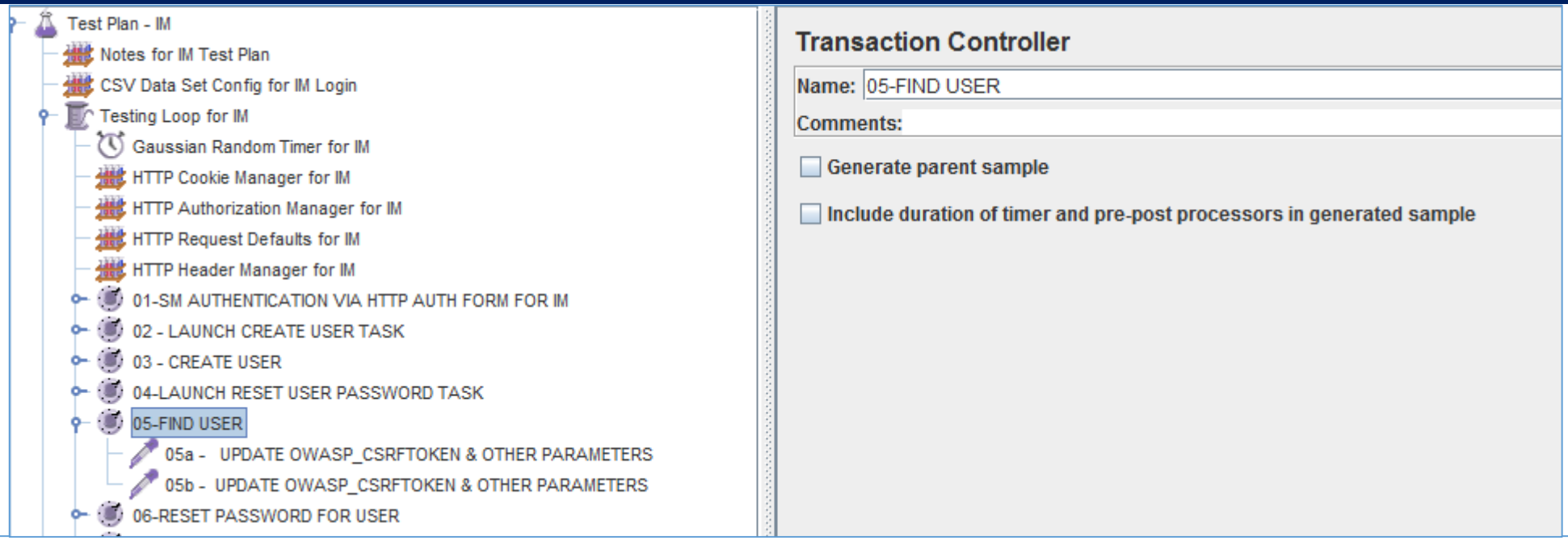
1) CSS/Jquery Extractor 2) Regular Express 3) Xpath Extractor

The example LAB uses the CSS / Jquery Extractor

This process is copied to every IM task operation, to allow a test administrator to disable parts of the lab, but not lose this functionality, if this one section is disabled.

Every IM task that has a HTTP POST and this OWASP_CSRFTOKEN parameter defined, will be updated with the ${CSS_OWASP_CSRF_TOKEN} variable.

Step 26: Jmeter Test Plan for IMWA: Transaction Controller



The 5th of the HTTP operations to be managed.

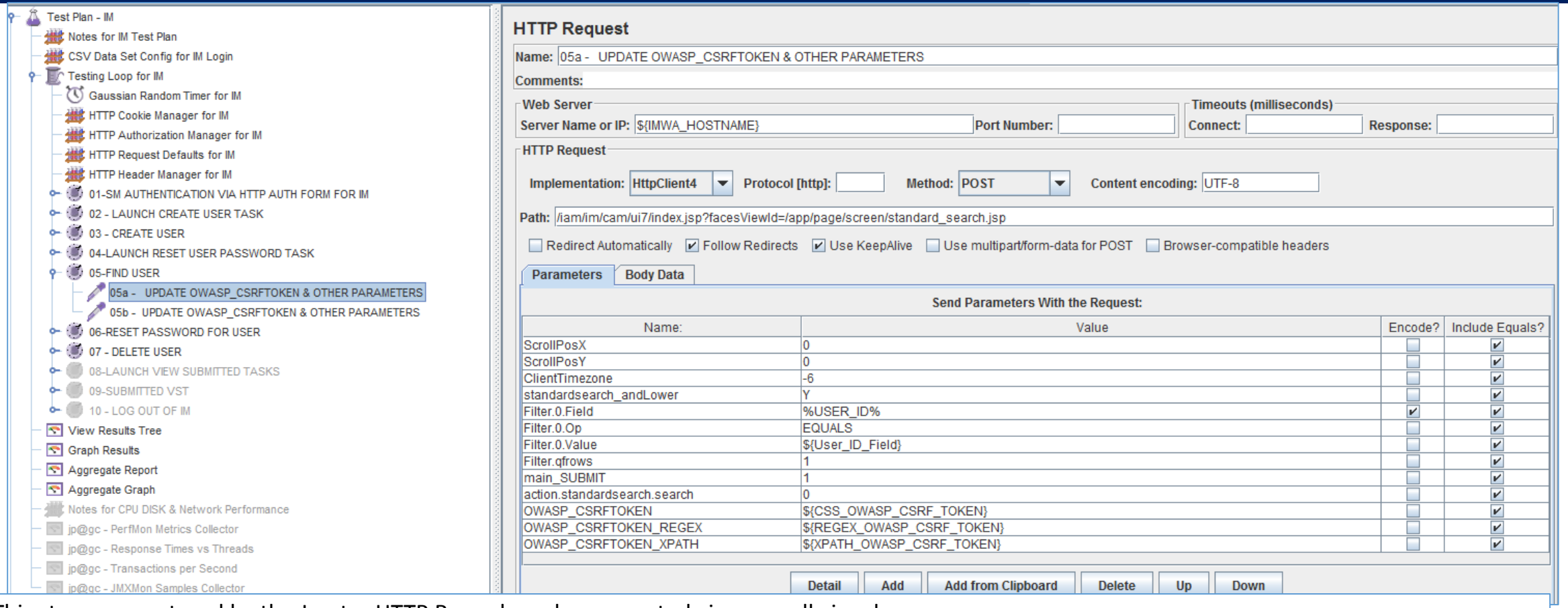
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the search operation for IM Reset a User Password operation. This section assumes the users' accounts exist or were created prior.

No changes to be defined on this item

Step 27: Jmeter Test Plan for IMWA: HTTP Request



This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

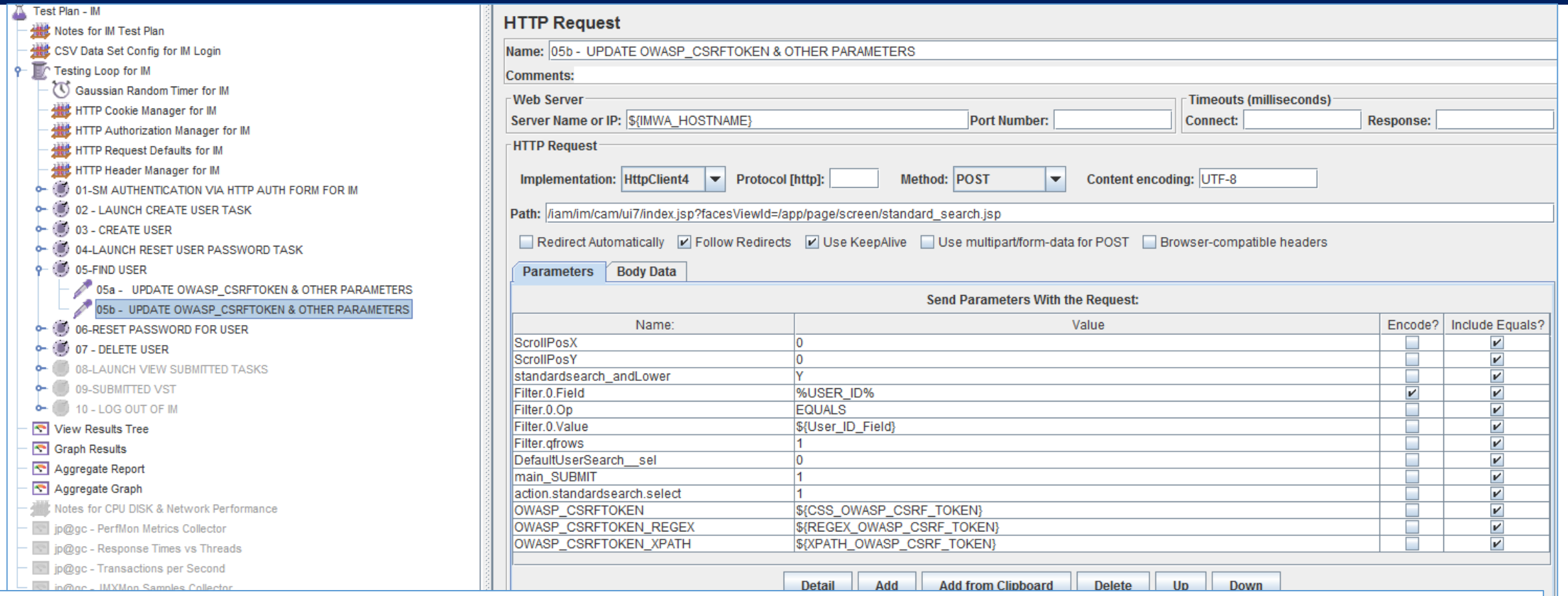
The title was re-labeled to clarify the operation being performed.

The following parameter values were updated:

“Filter.0.Value” = “${User_ID_Field}, “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

The two (2) other CSRF tokens were added as a TEST ONLY Not required.

Step 28: Jmeter Test Plan for IMWA: HTTP Request



This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

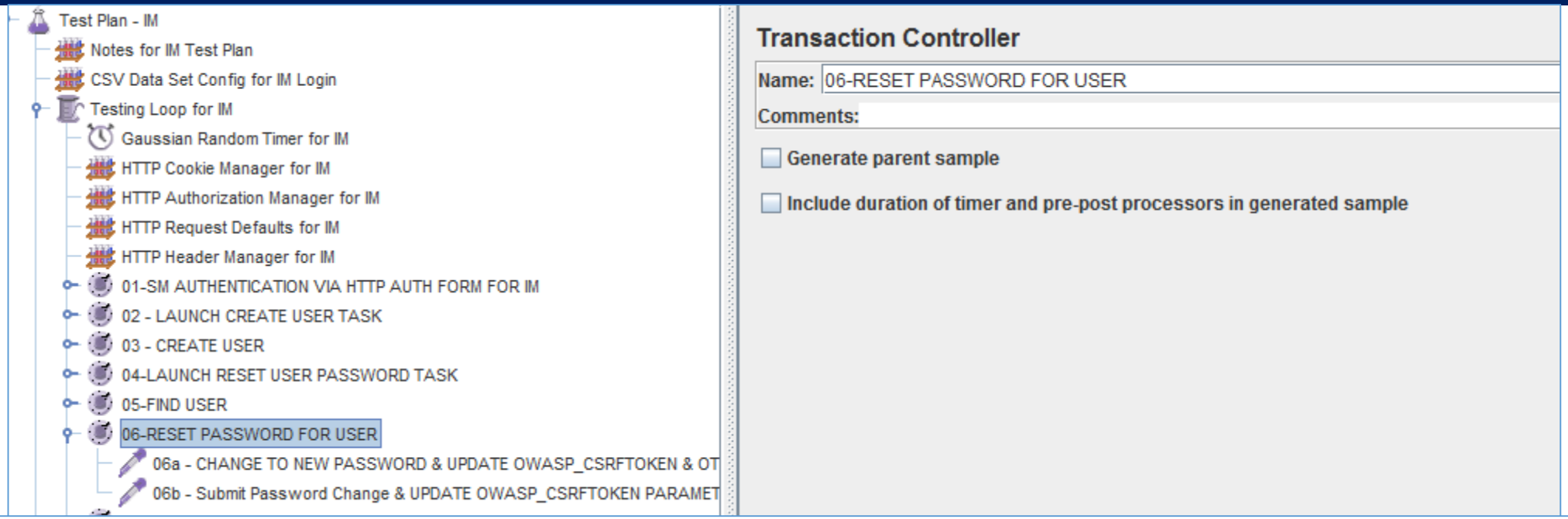
The title was re-labeled to clarify the operation being performed.

The following parameter values were updated:

“Filter.0.Value” = “${User_ID_Field}, “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

The two (2) other CSRF tokens were added as a TEST ONLY Not required.

Step 29: Jmeter Test Plan for IMWA: Transaction Controller



The 6th of the HTTP operations to be managed.

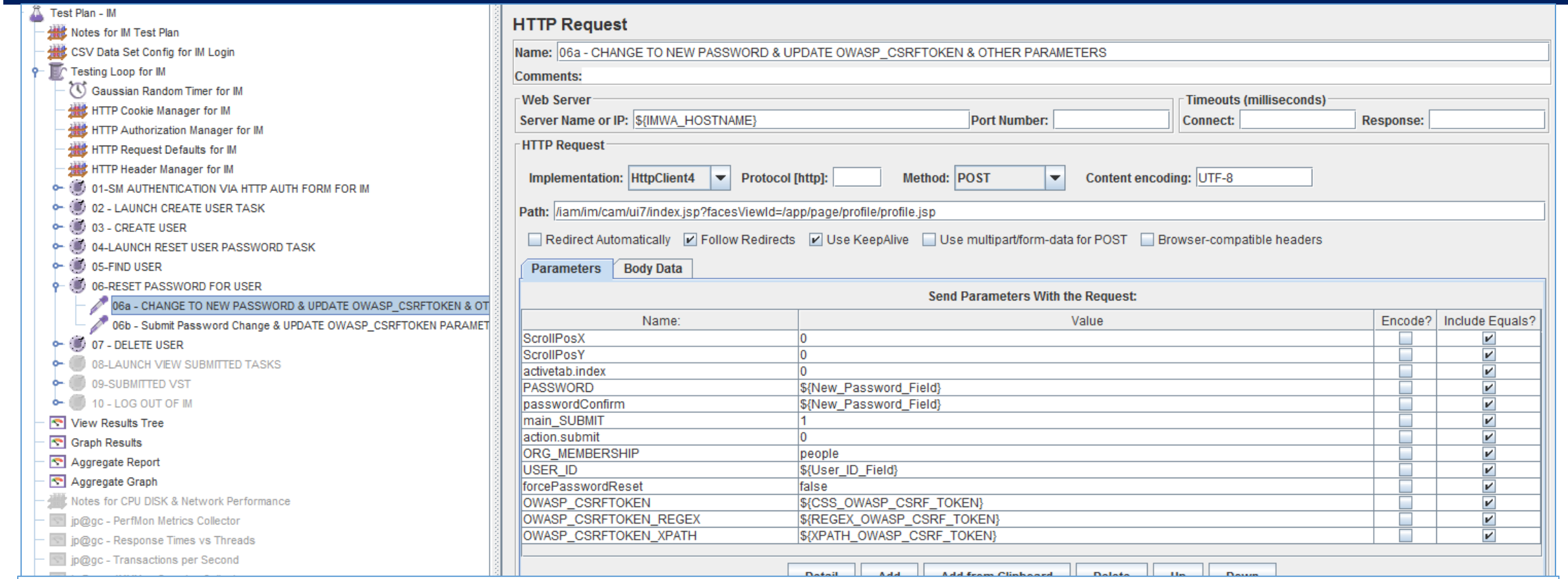
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the actual change operation for IM Reset a User Password task. This section assumes the users' accounts exist or were created prior.

No changes to be defined on this item

Step 30: Jmeter Test Plan for IMWA: HTTP Request



This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

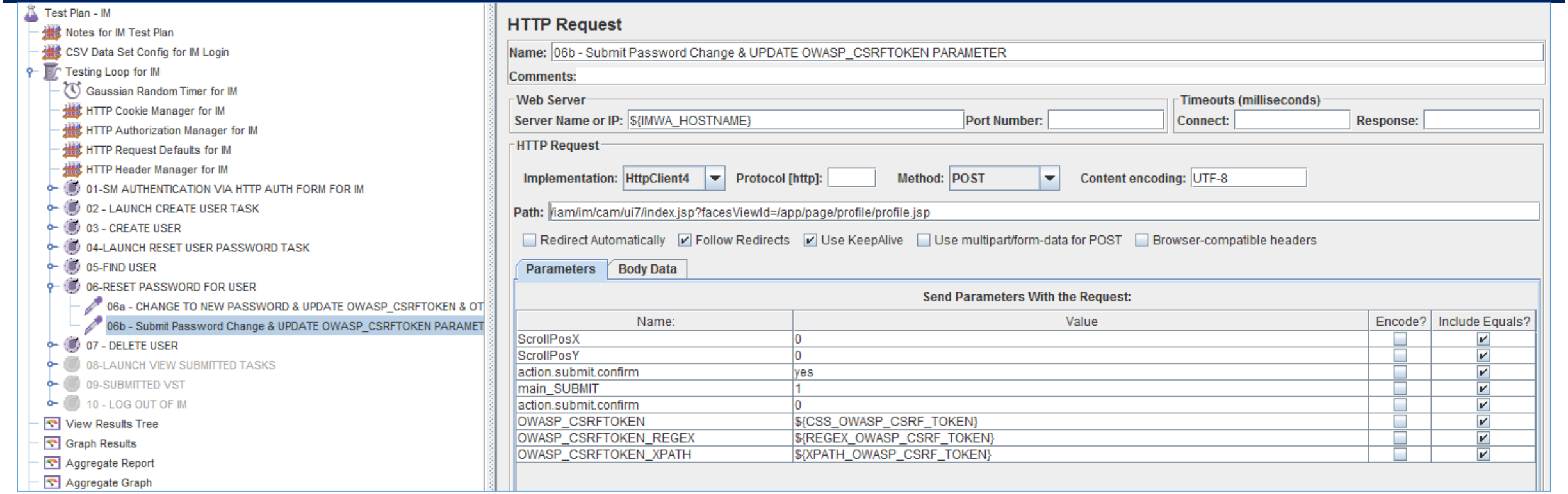
The title was re-labeled to clarify the operation being performed.

The following parameter values were updated:

“USER_ID” = “${User_ID_Field}”, “PASSWORD” = “${New_Password_Field}”, “passwordConfirm” = “${New_Password_Field}”, “ORG_MEMBERSHIP” = “people”, “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

The two (2) other CSRF tokens were added as a TEST ONLY Not required.

Step 31: Jmeter Test Plan for IMWA: HTTP Request



This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

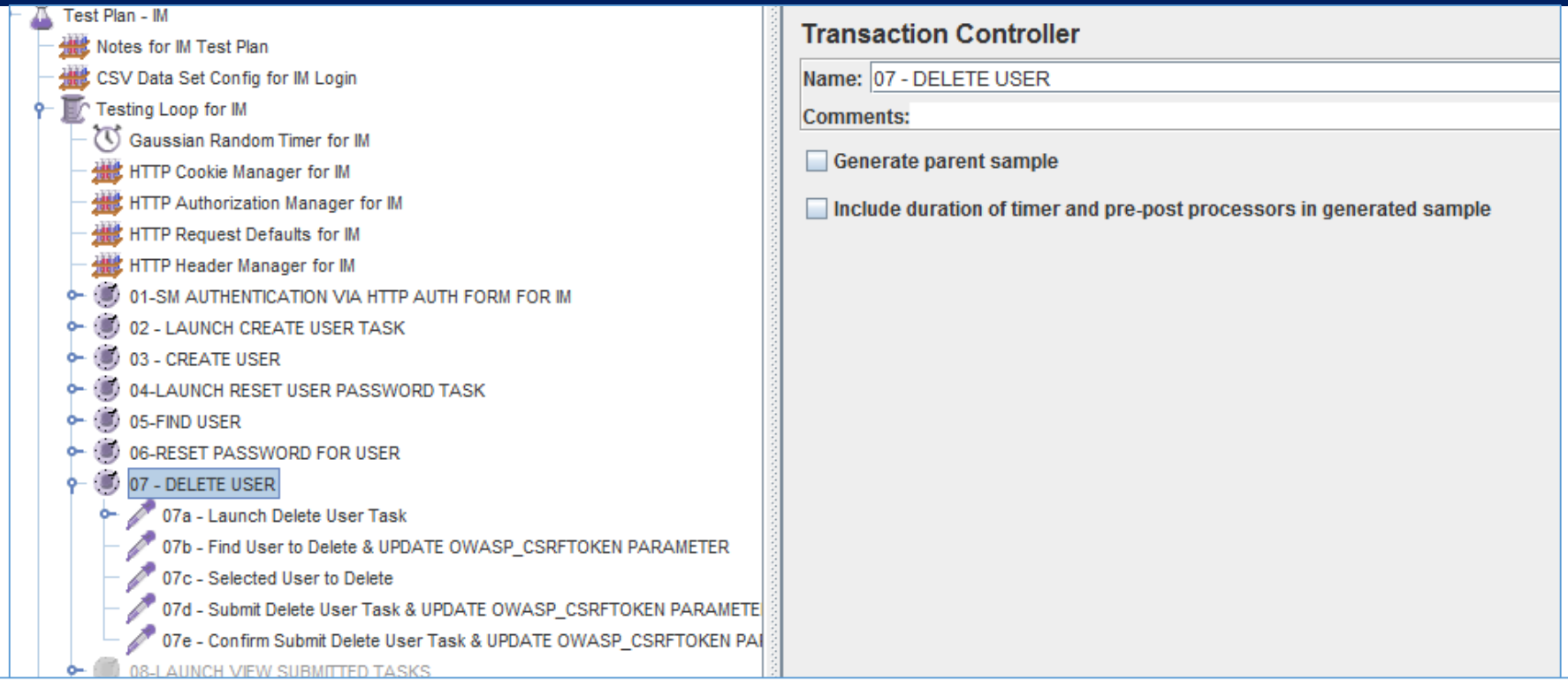
The title was re-labeled to clarify the operation being performed.

Note “action.submit.confirm” = “yes”

The following parameter values were updated: “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

The two (2) other CSRF tokens were added as a TEST ONLY Not required.

Step 32: Jmeter Test Plan for IMWA: Transaction Controller



The 7th of the HTTP operations to be managed.

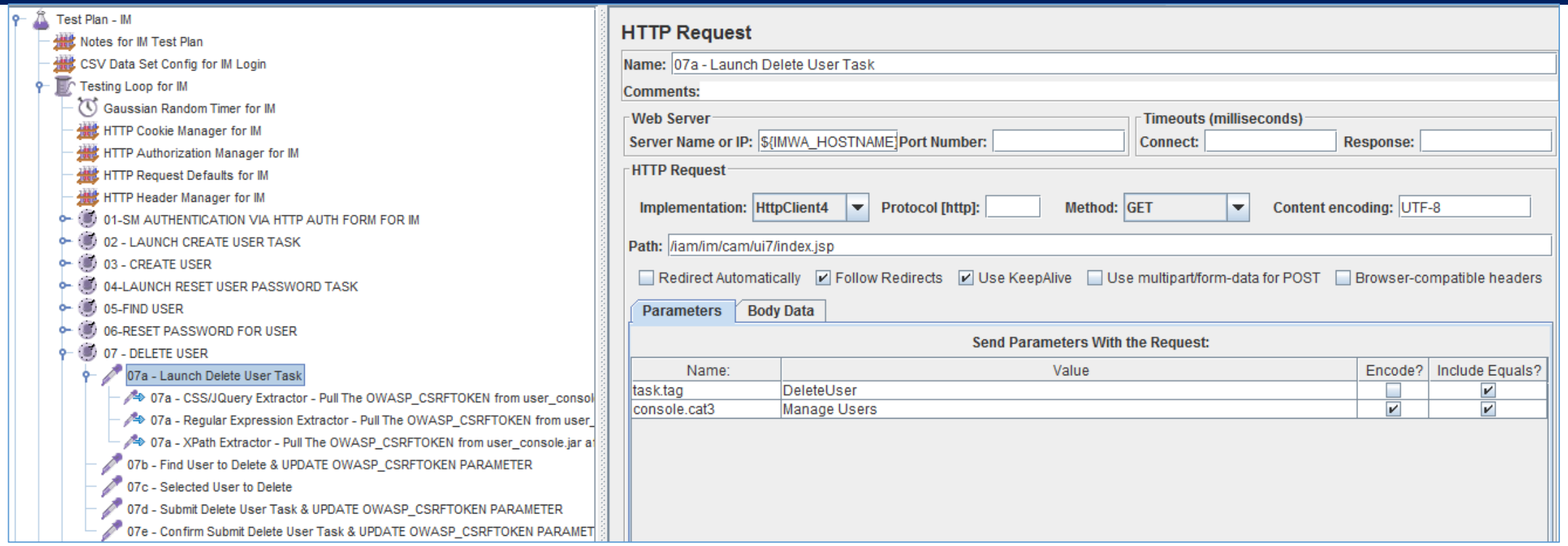
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage IM Delete User task. This section assumes the users' accounts exist or were created prior.

No changes to be defined on this item

Step 33: Jmeter Test Plan for IMWA: HTTP Request



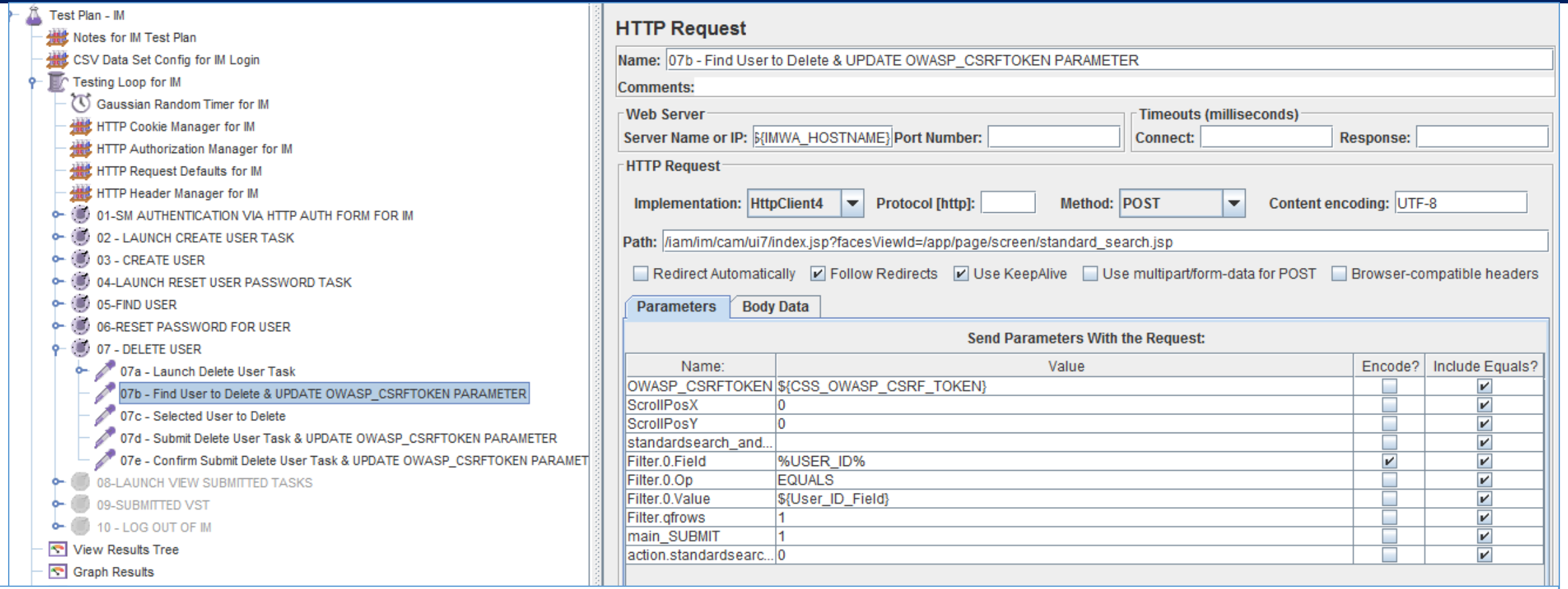
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

This HTTP GET operation is NEEDED, as it will launch the IM DeleteUser Task & execute the security process to protect the IM solution from Cross Site Request Forgery (if it was NOT already performed)

No changes required for this operation [See prior examples for 07a, 07b, 07c]

Step 34: Jmeter Test Plan for IMWA: HTTP Request

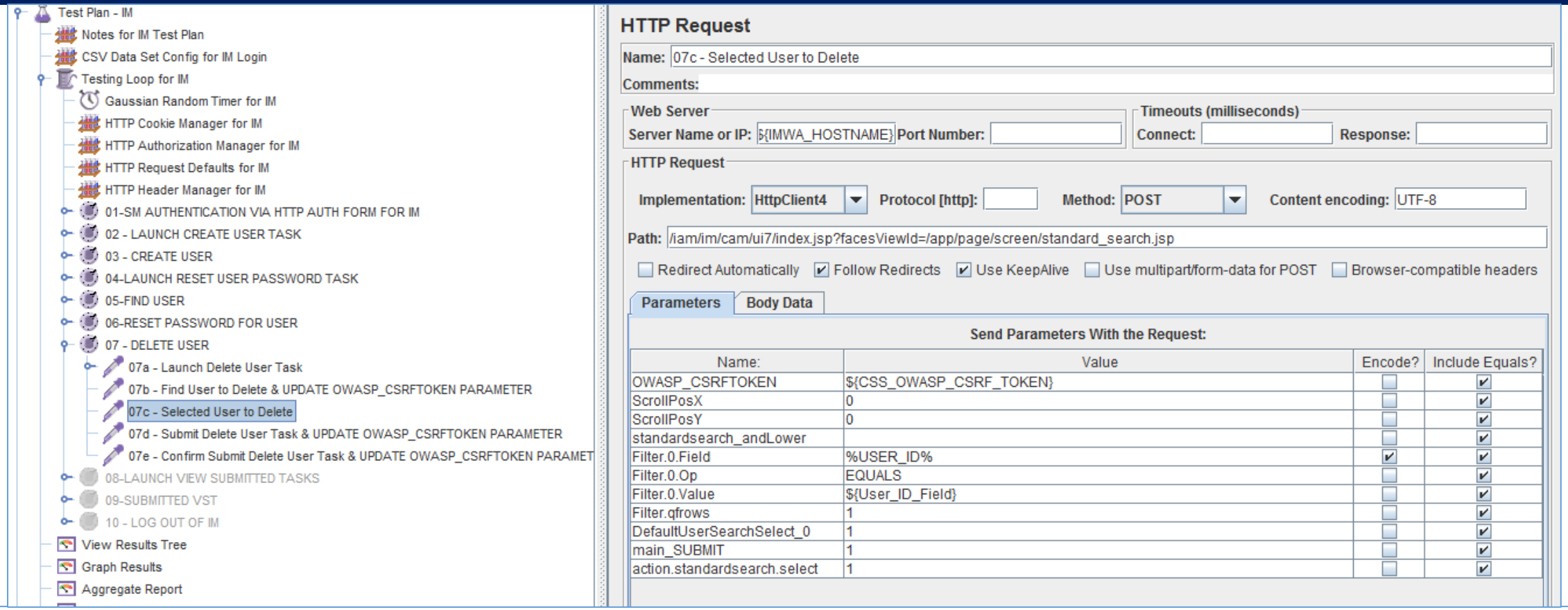


This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

The following parameter values were updated: “Filter.0.Value” = “${User_ID_Field}”, “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

Step 35: Jmeter Test Plan for IMWA: HTTP Request



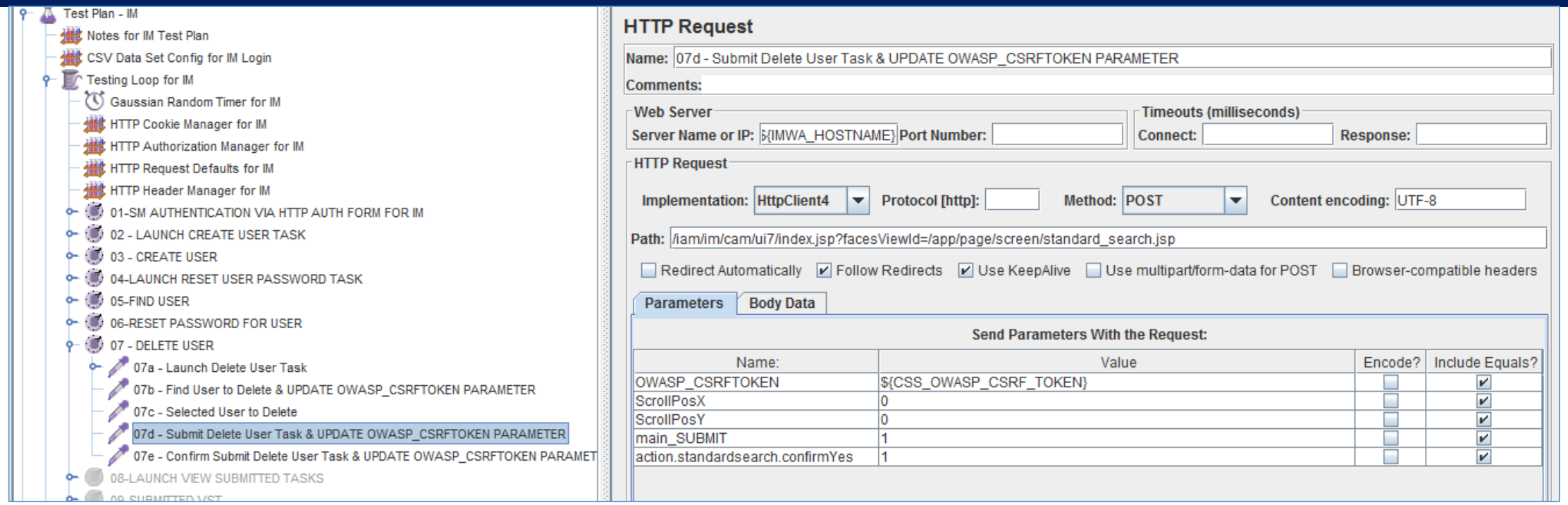
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

Note “DefaultUserSearchSelect_0” = “1”

The following parameter values were updated: “Filter.0.Value” = “${User_ID_Field}”, “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

Step 36: Jmeter Test Plan for IMWA: HTTP Request

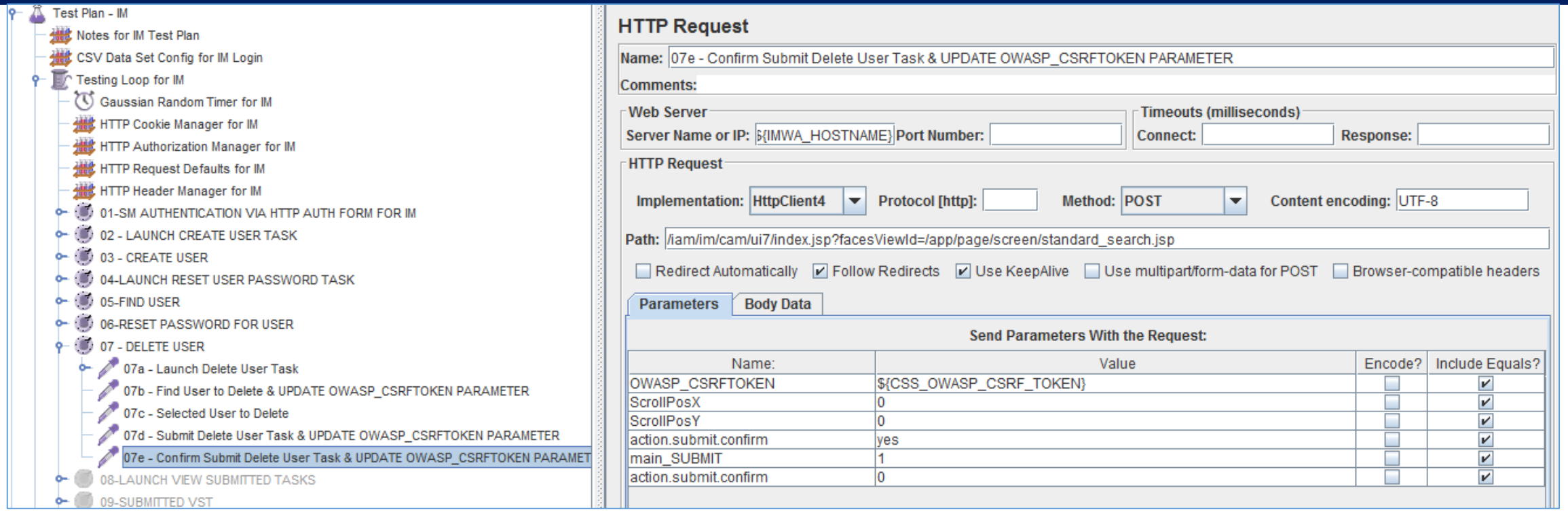


This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

The following parameter values were updated: “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

Step 37: Jmeter Test Plan for IMWA: HTTP Request



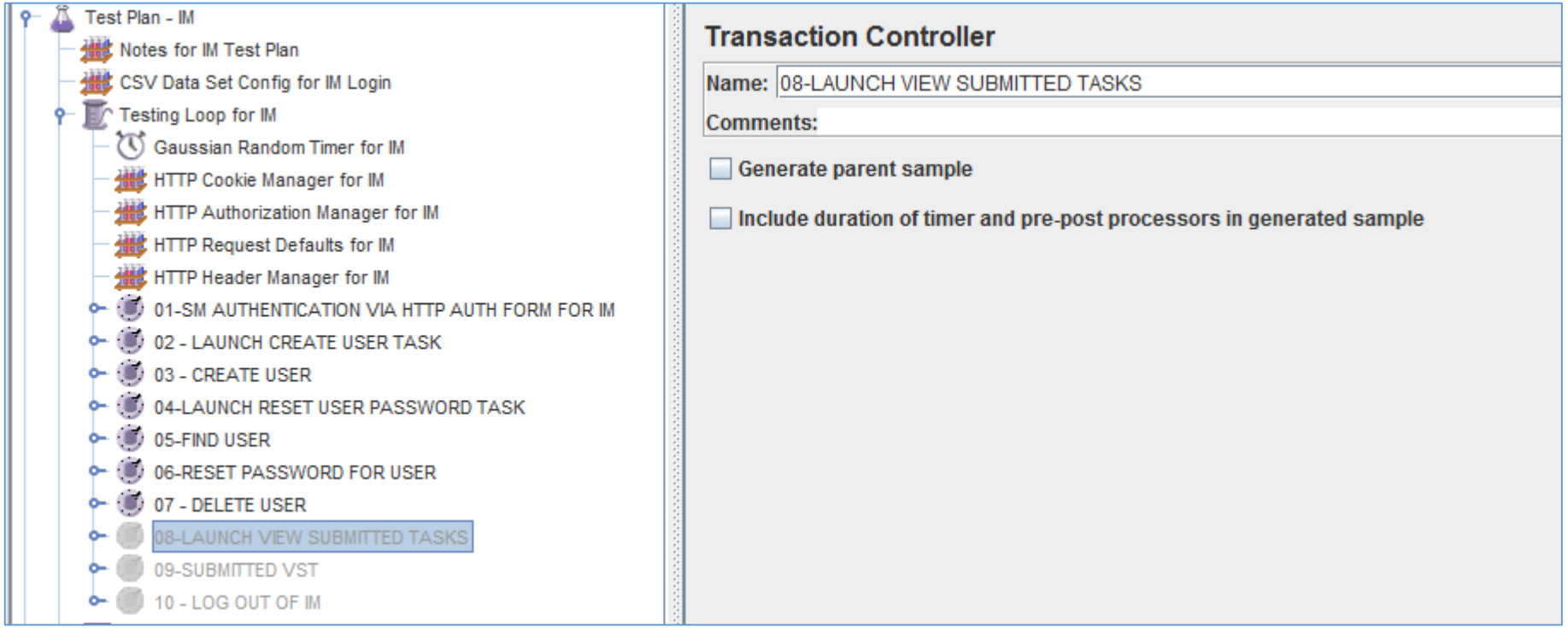
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

Note “action.submit.confirm” = “1”

The following parameter values were updated: “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

Step 38: Jmeter Test Plan for IMWA: Transaction Controller



The 8th of the HTTP operations to be managed.

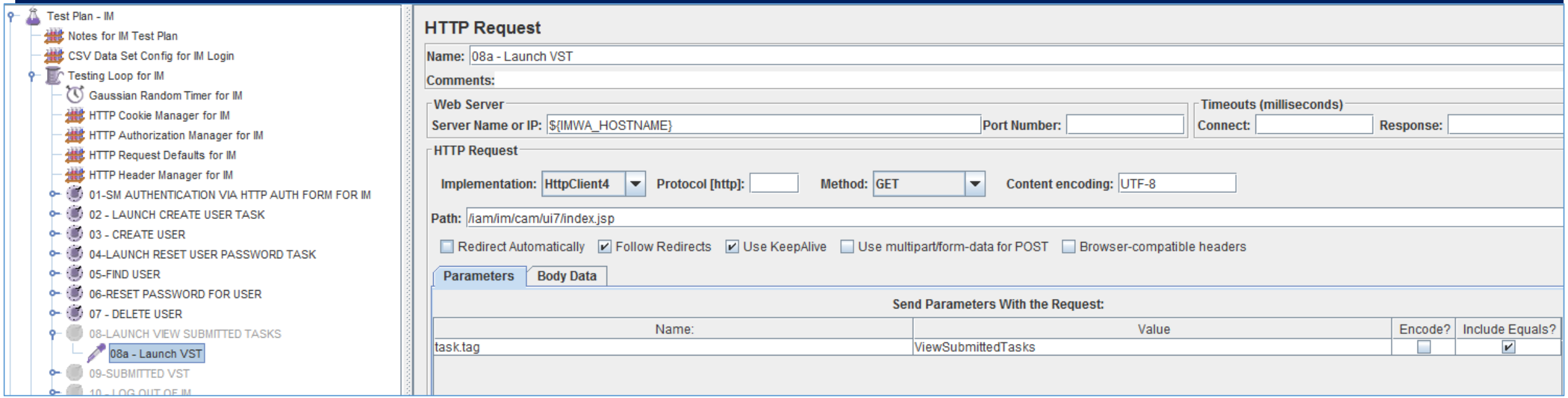
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the launch of the IM View Submitted Task.

No changes to be defined on this item. It is currently DISABLED (right click).

Step 39: Jmeter Test Plan for IMWA: HTTP Request



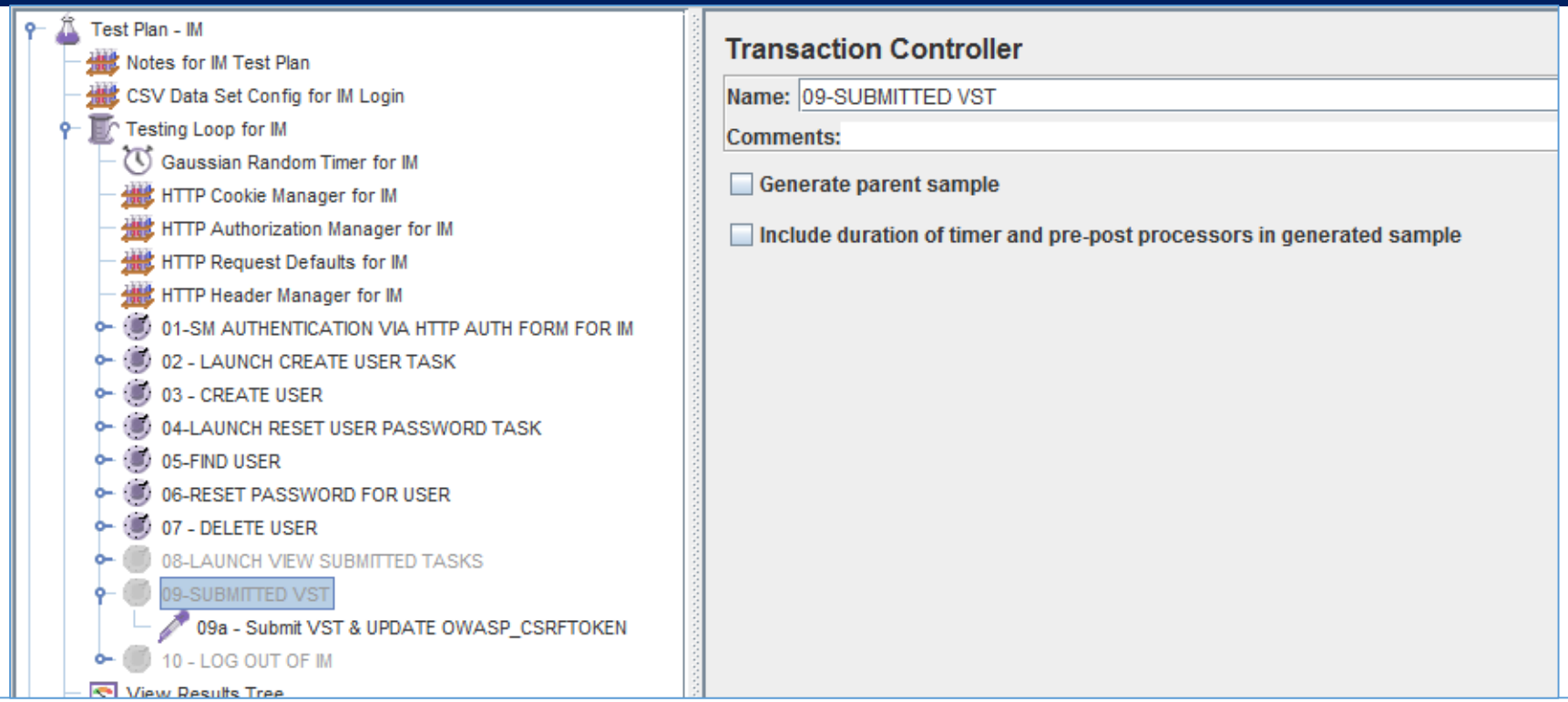
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

This HTTP GET operation is NEEDED, as it will launch the IM View Submitted Task & execute the security process to protect the IM solution from Cross Site Request Forgery (if it was NOT already performed)

No changes required for this operation [See prior examples for 07a, 07b, 07c]

Step 40: Jmeter Test Plan for IMWA: Transaction Controller



The 9th of the HTTP operations to be managed.

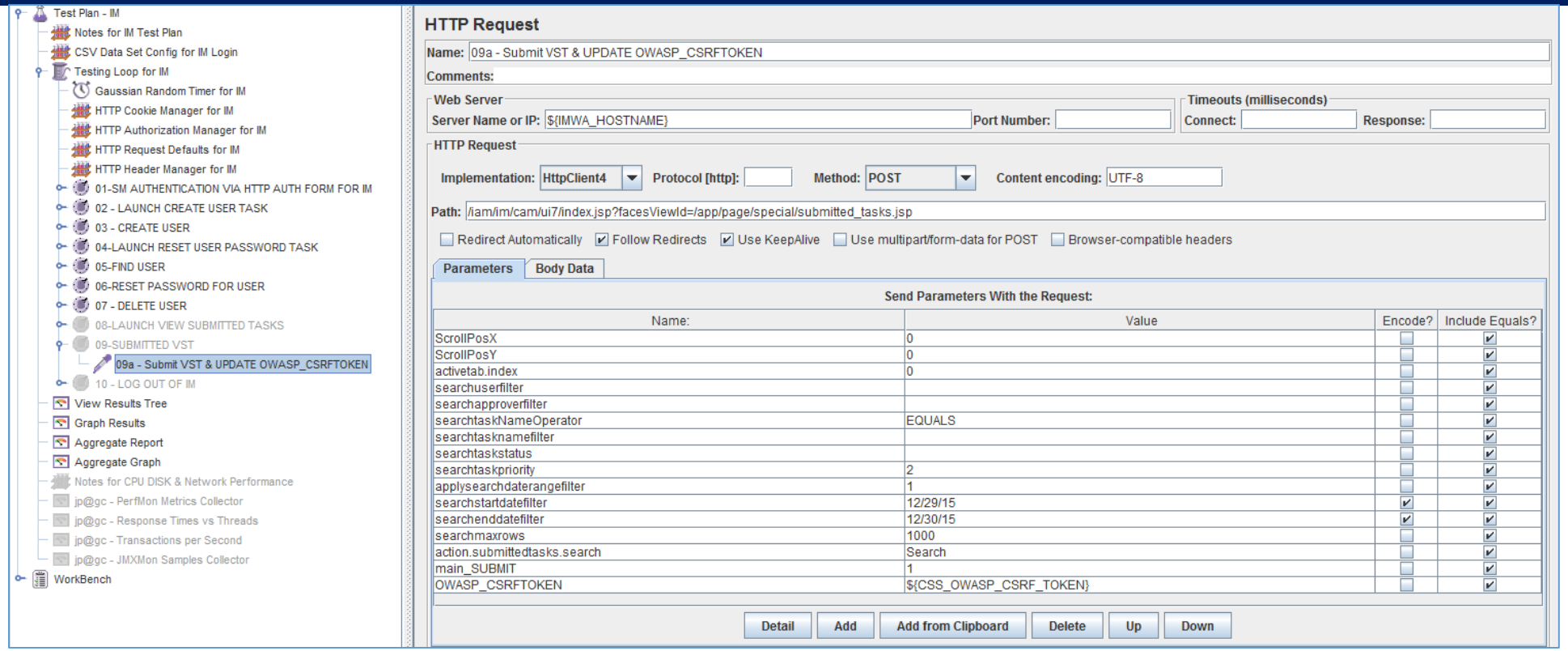
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the submission of the IM View Submitted Task.

No changes to be defined on this item. It is currently DISABLED (right click).

Step 41: Jmeter Test Plan for IMWA: HTTP Request



This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

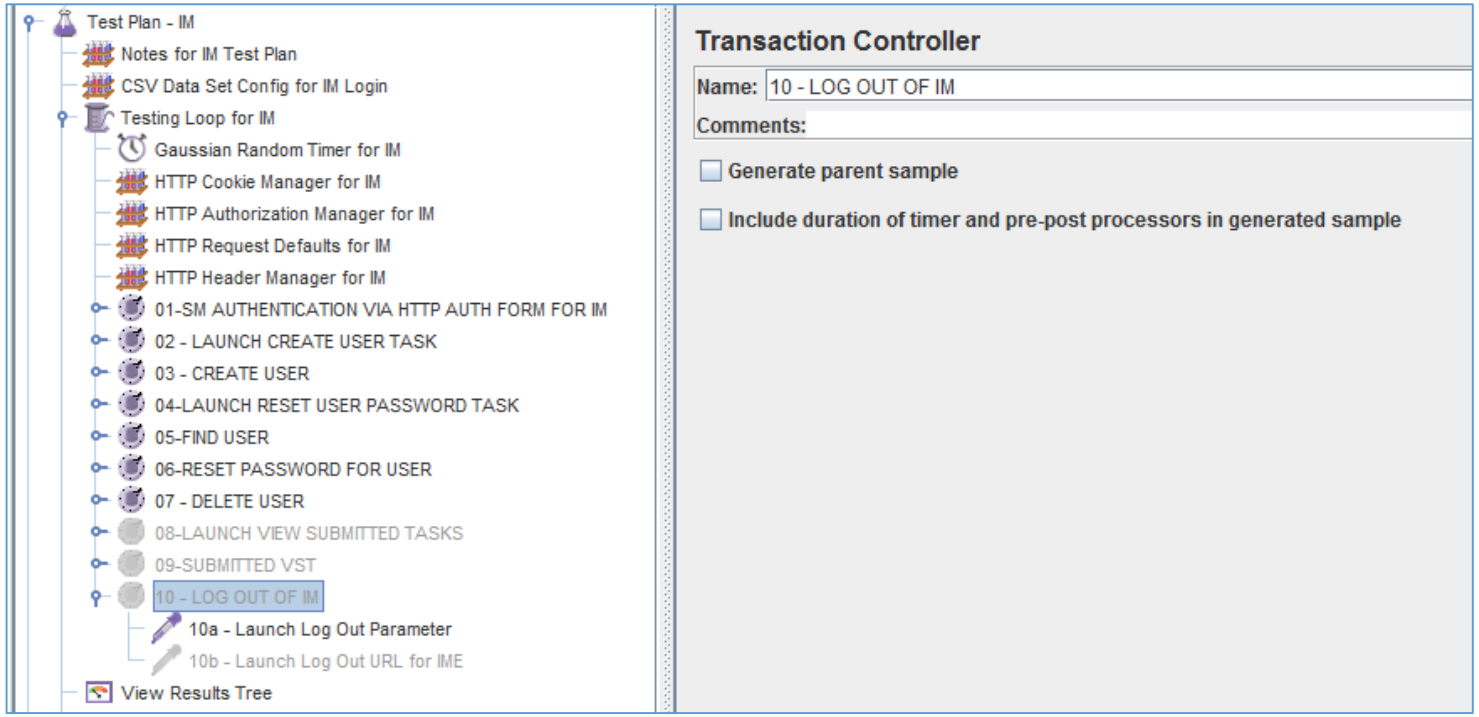
The title was re-labeled to clarify the operation being performed.

The following parameter values were updated: “OWASP_CSRFTOKEN” = “${CSS_OWASP_CSRF_TOKEN}.

Other fields that may be updated: “searchstartdatefilter” = “${__time(dd/MM/yyyy,)}”, searchenddatefilter = “${__time(dd/MM/yyyy,)}”

Ref: http://jmeter.apache.org/usermanual/functions.html#__time

Step 42: Jmeter Test Plan for IMWA: Transaction Controller



The 10th of the HTTP operations to be managed.

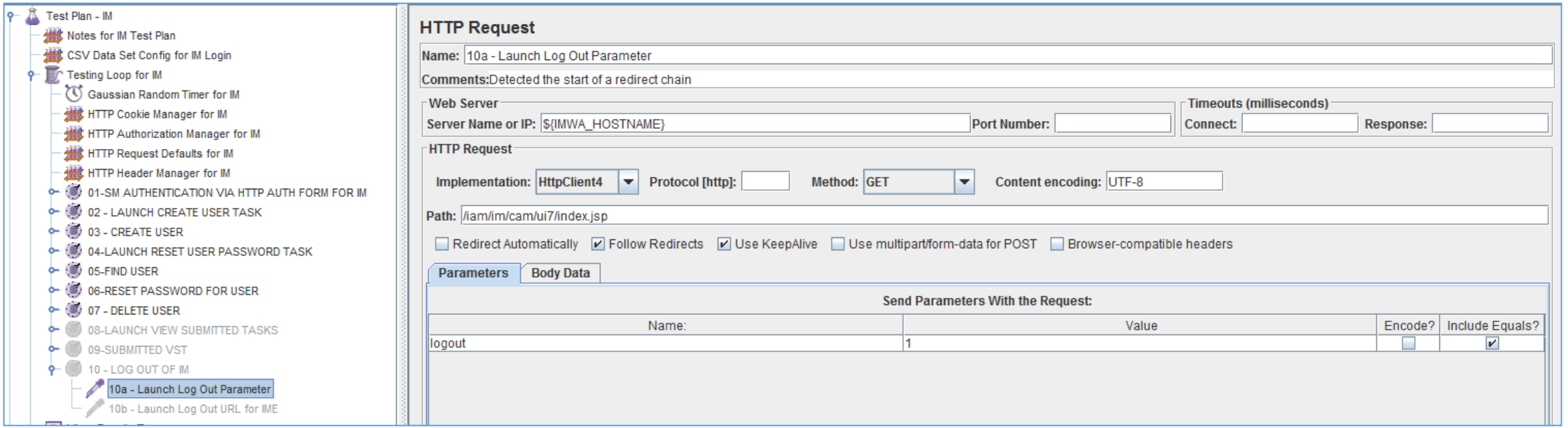
This Jmeter Transaction Controller was created by the Jmeter HTTP Recorder.

This Transaction Controller was re-labeled to clarify the operation being performed.

This section will manage the submission of the IM Log Out Event.

No changes to be defined on this item. It is currently DISABLED (right click).

Step 43: Jmeter Test Plan for IMWA: HTTP Request



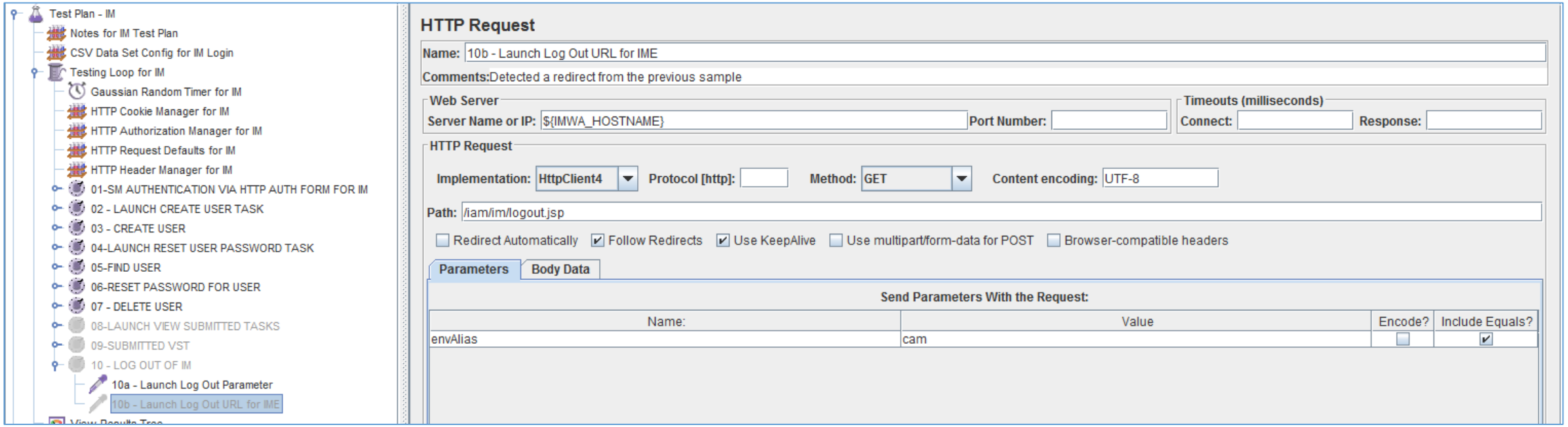
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

This HTTP GET operation is NEEDED, as it will launch the IM Log Out Event

No changes required for this operation

Step 44: Jmeter Test Plan for IMWA: HTTP Request



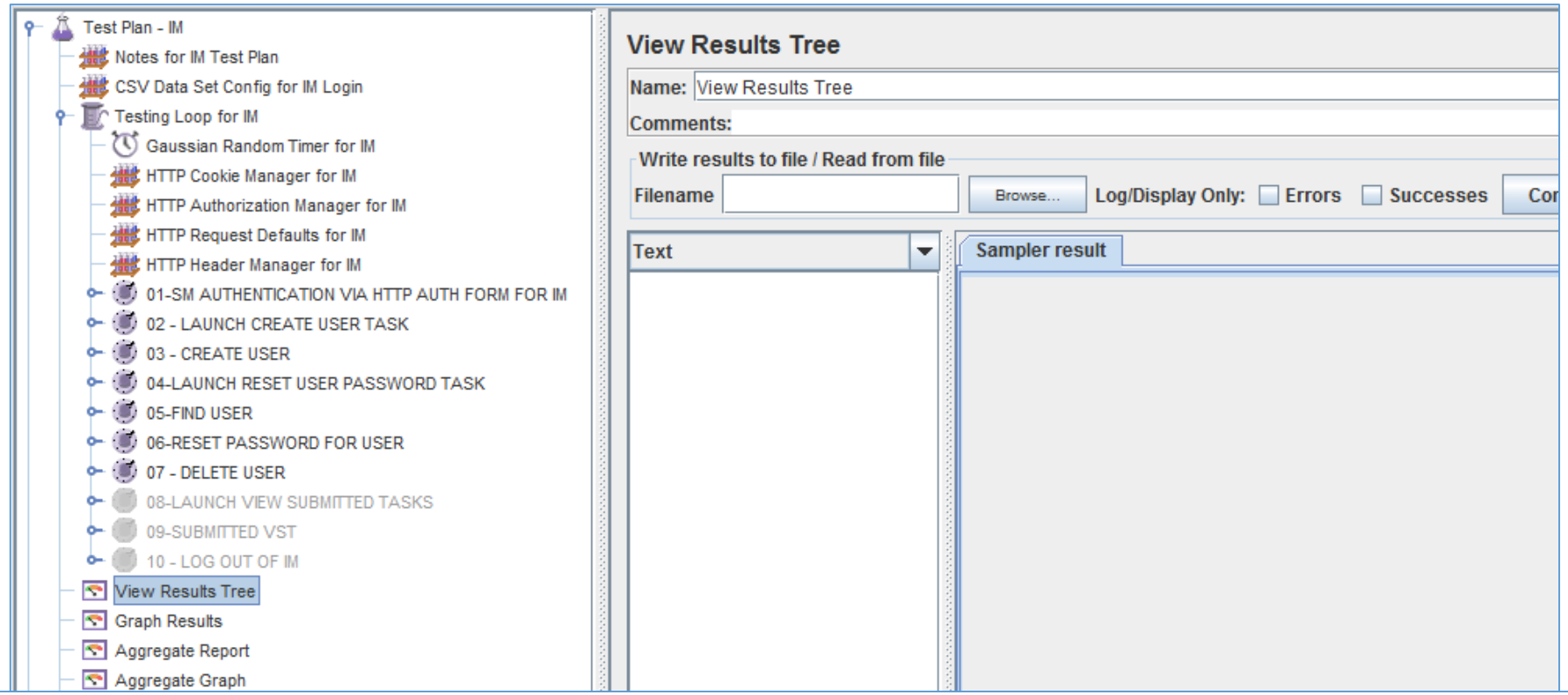
This step was captured by the Jmeter HTTP Recorder, when executed via manually in a browser.

The title was re-labeled to clarify the operation being performed.

This HTTP GET operation is NEEDED, as it will execute the IM Log Out Event for the selected IME

No changes required for this operation

Step 45: Jmeter Test Plan for IMWA: Listeners/Reports

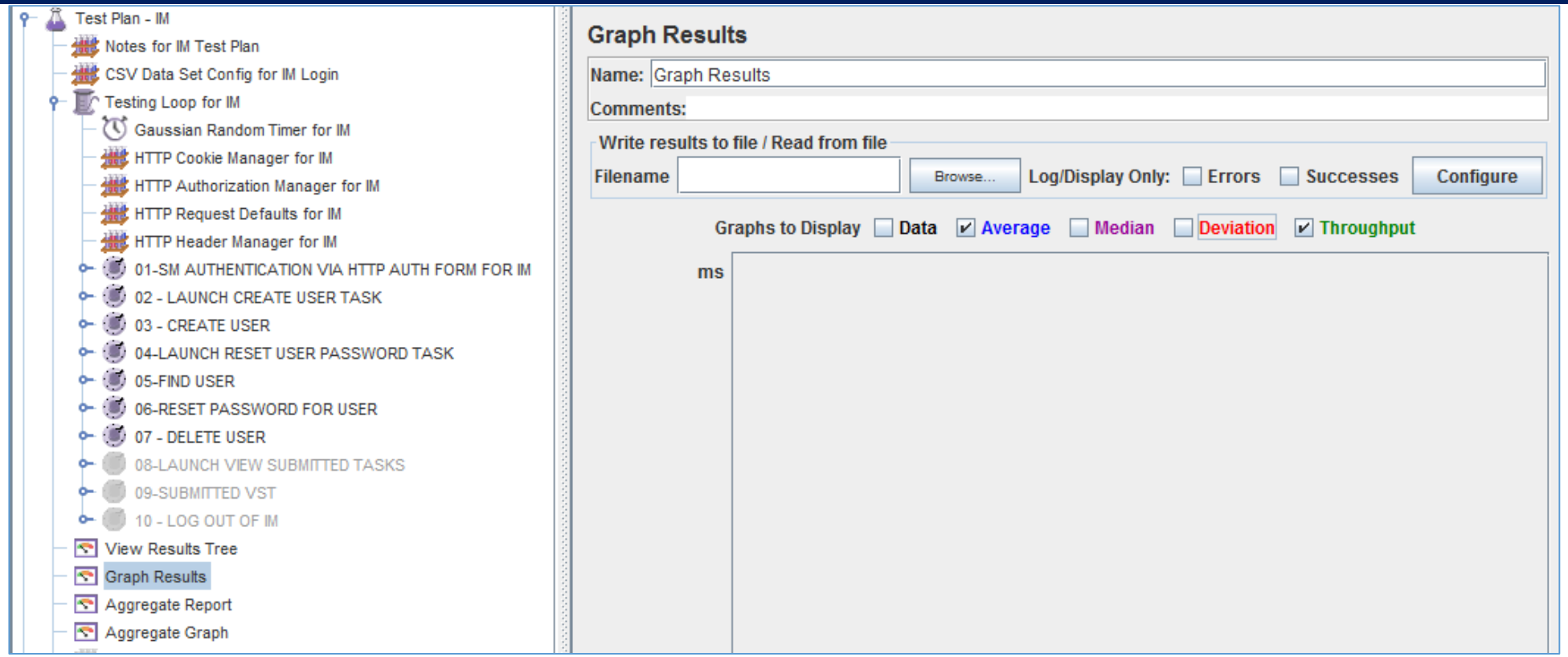


Four (4) Listeners / Reports / Graphs were added to this test plan.

The View Results Tree is a very common report to add, and provide immediate view to the execution of the steps of the test plan.

If data is to be retained, a filename may be created to capture the data to a temporary folder.

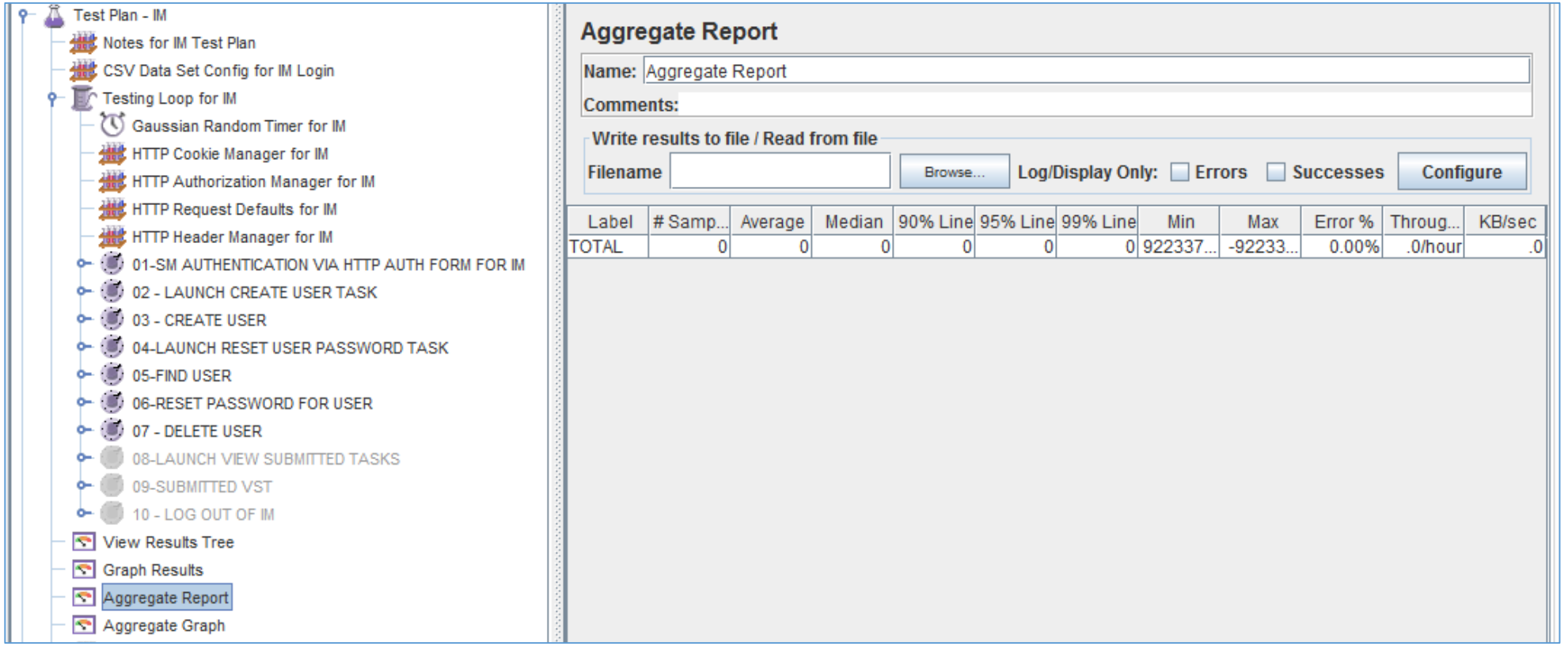
Step 46: Jmeter Test Plan for IMWA: Listeners/Reports



Four (4) Listeners / Reports / Graphs were added to this test plan.

The Graph Results provide an immediate view to the time aspect of the steps of the test plan. Suggest only “Average” and “Throughput” be used, to avoid excessive clutter of this graph. If data is to be retained, a filename may be created to capture the data to a temporary folder.

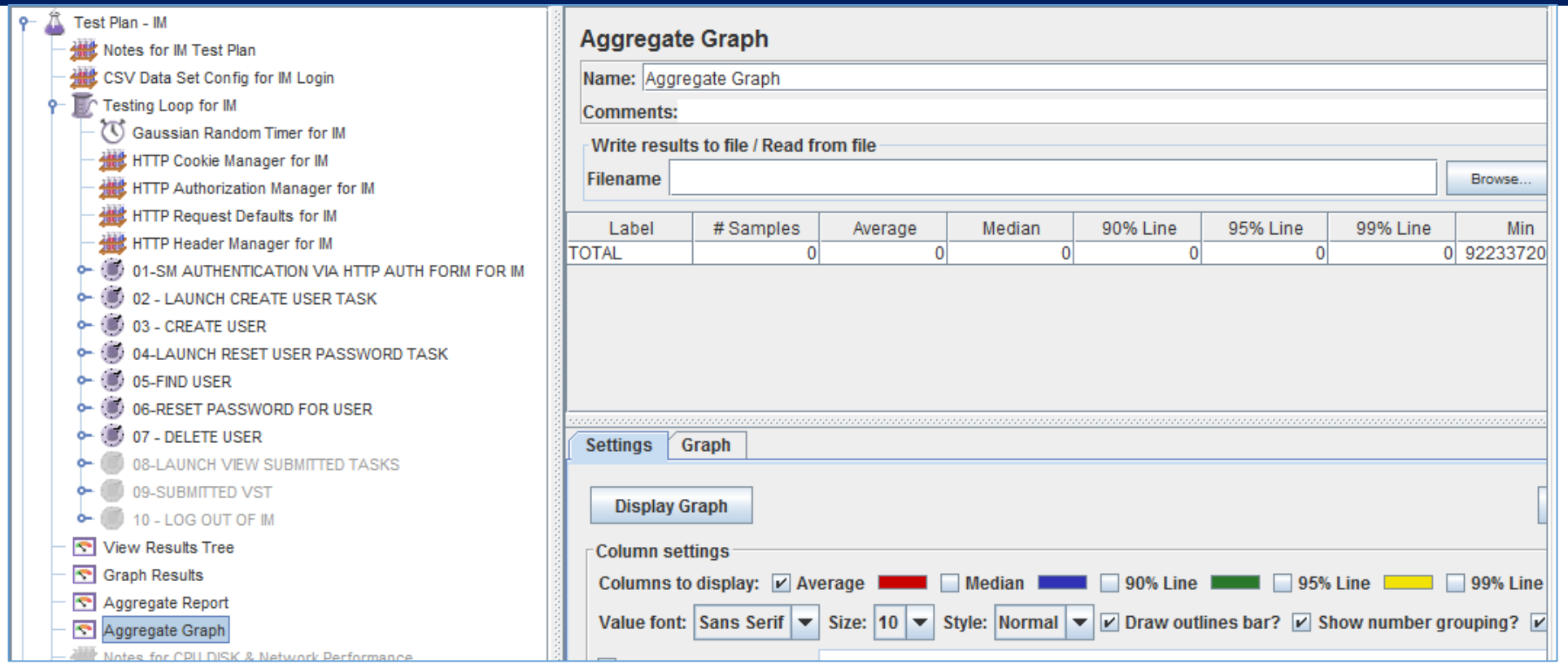
Step 47: Jmeter Test Plan for IMWA: Listeners/Reports



Four (4) Listeners / Reports / Graphs were added to this test plan.

The Aggregate Report provide an view to monitor the iteration of each step; allow a view to bottleneck of any operation and any errors.

Step 48: Jmeter Test Plan for IMWA: Listeners/Reports



Four (4) Listeners / Reports / Graphs were added to this test plan.

The Aggregate Graph provide an visual view to monitor the iteration of each step; allow a view to bottleneck of any operation and any errors.

Other listeners may be added to the Test Plan

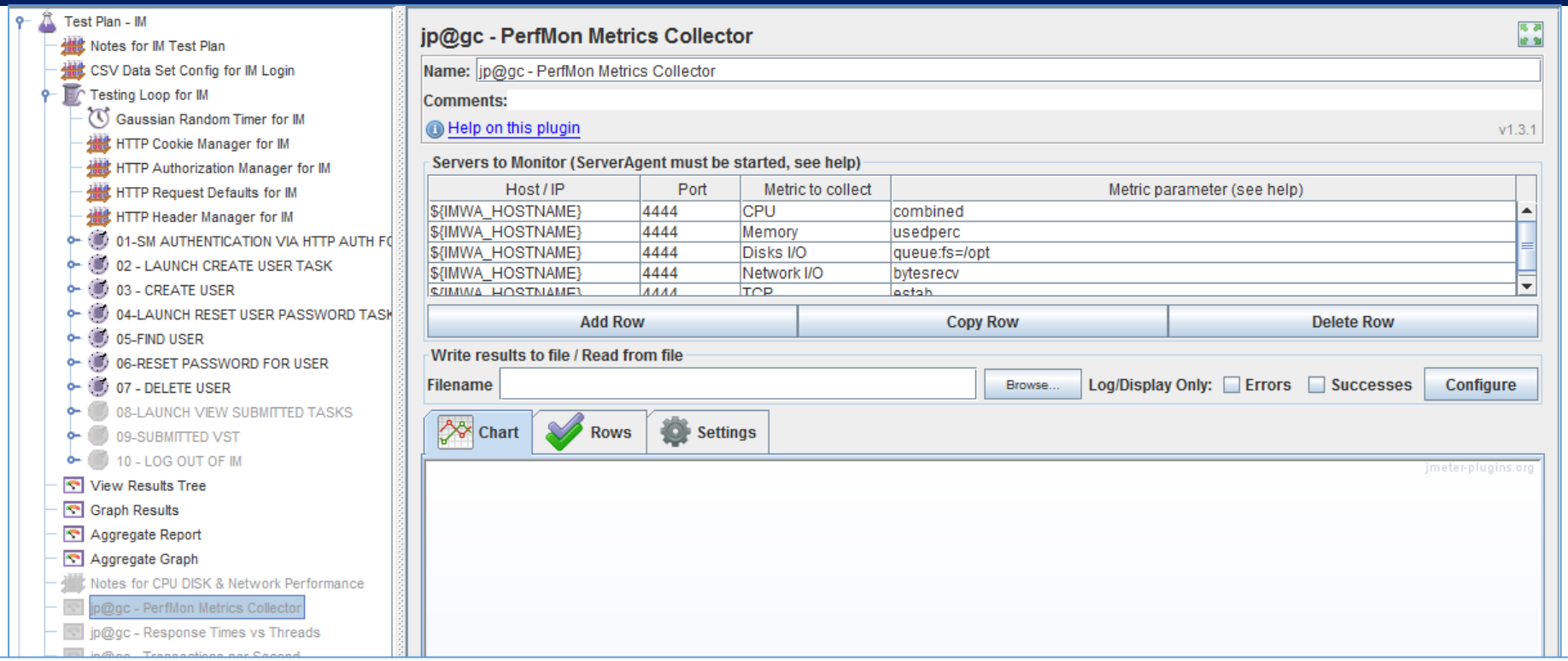
Step 49: OPTIONAL for IMWA: Notes for Expansion Kit

To monitor disk I/O, CPU & Network utilization, Thread Counts, there are additional Jmeter Libraries that need to be added to the base Jmeter solution: http://jmeter-plugins.org/

STANDARD SET: http://jmeter-plugins.org/wiki/StandardSet/ [Required for PerfMon]

EXTRA SET: http://jmeter-plugins.org/wiki/ExtrasSet/ [Required for monitoring JBOSS JMX]

Step 50: OPTIONAL for IMWA: Notes for Expansion Kit

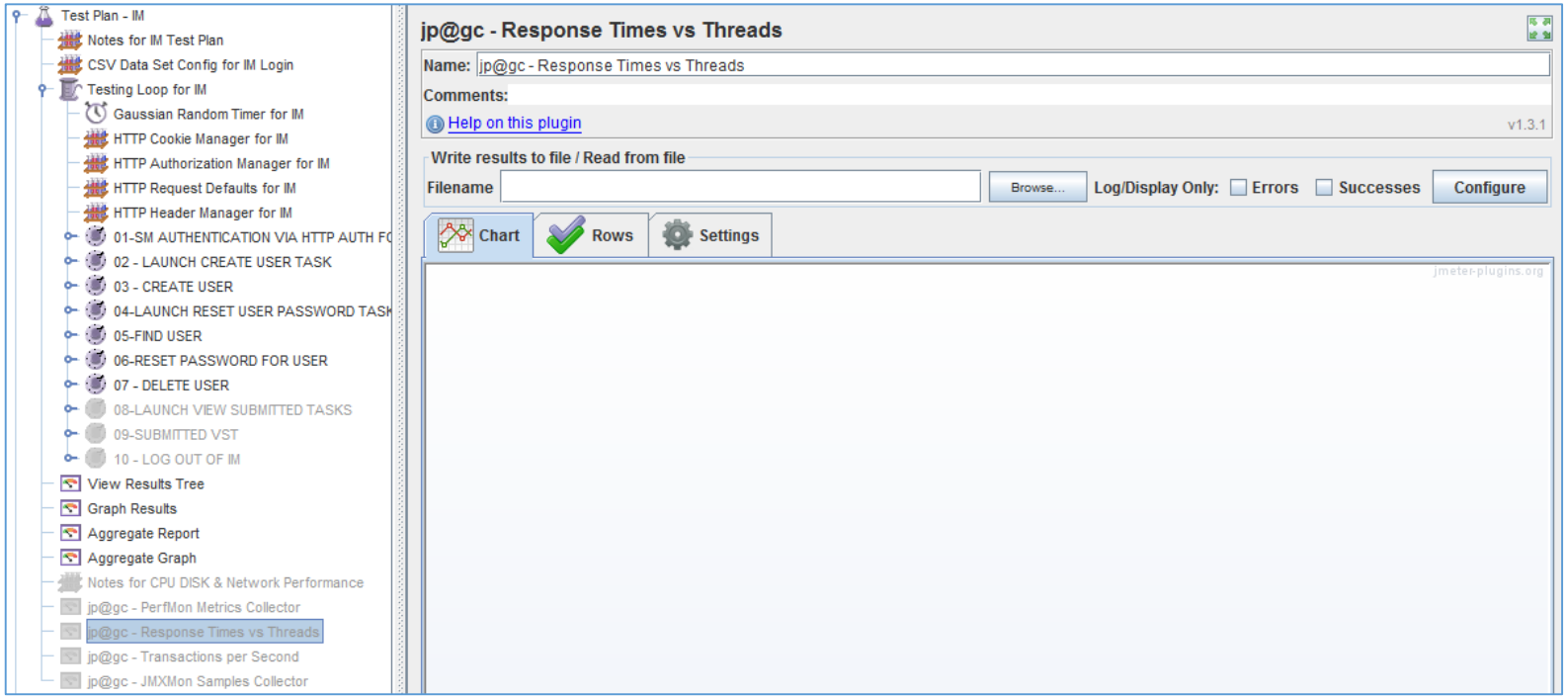


To monitor disk I/O, CPU & Network utilization, requires three (3) steps:

1) Update existing Jmeter lib folder with the STANDARD SET PLUG-IN libraries
2) Download, copy, & run the standalone JMETER PERFMON SERVER on the Server to be monitored.
   a. http://jmeter-plugins.org/downloads/file/ServerAgent-2.2.1.zip
3) Add & configure the “jp@gc - PerfMon Metric Collector” Listener to your test plan.
   a. Use default TCP port of 4444; & add CPU, Memory, Disk I/O, Network I/O, TCP.

This report will populate during an execution of the test lab.

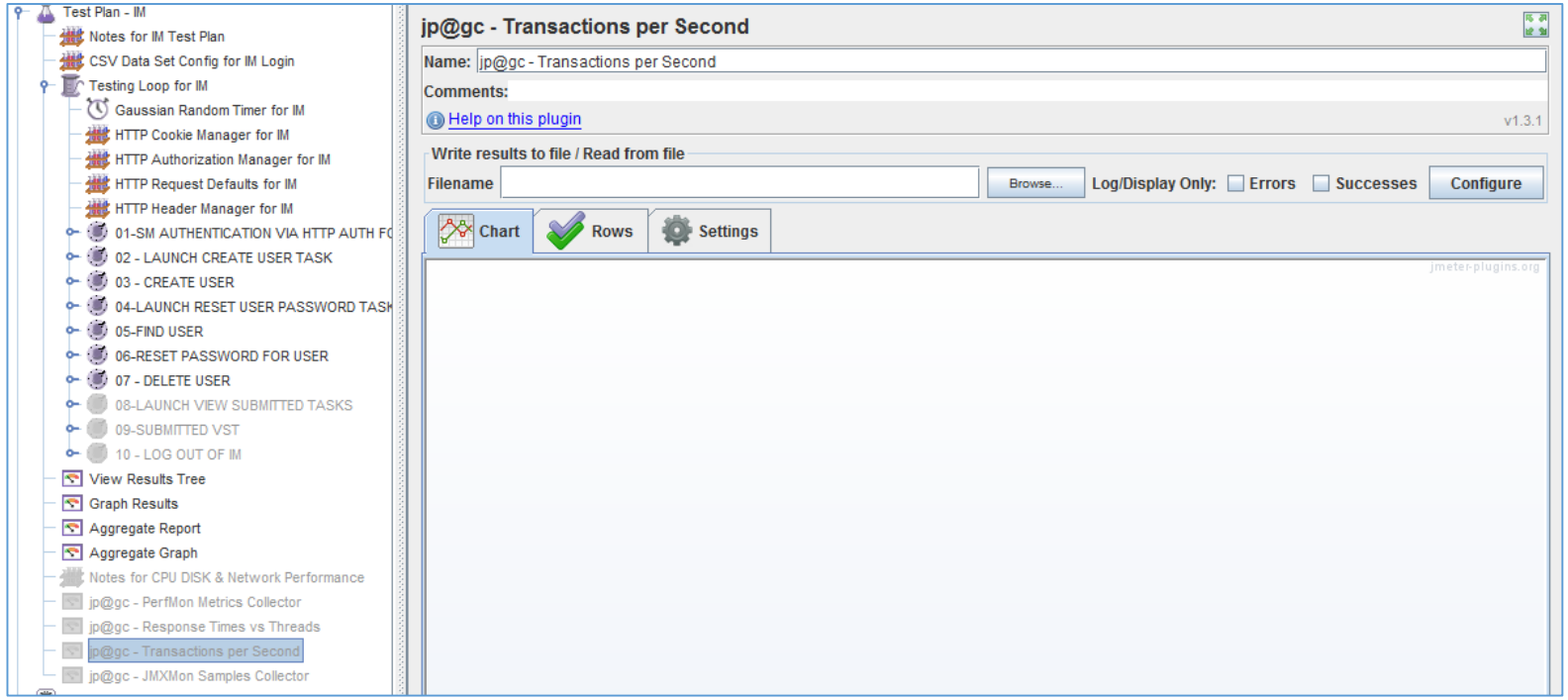
Step 51: OPTIONAL for IMWA: Notes for Expansion Kit



The “jp@gc - Response Time vs Threads” is an excellent report to identify when expansion of the solution should be adjusted, e.g. # of connection pools, horizontal scaling of the solution with load balancers, or increase of JVM memory.

This report will populate during an execution of the test lab.

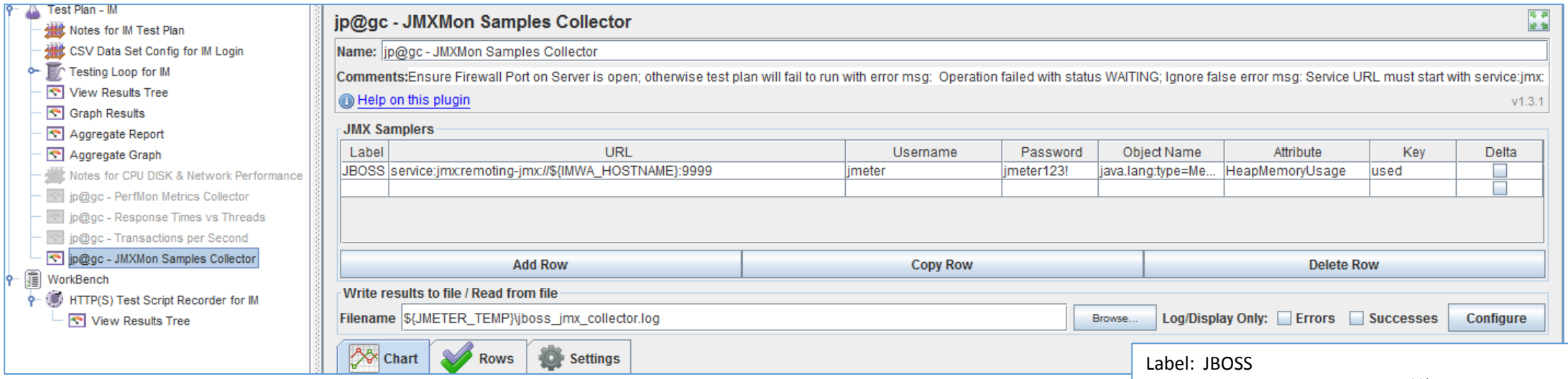
Step 52: OPTIONAL for IMWA: Notes for Expansion Kit



The “jp@gc - Transactions per Second” is an report to identify how quickly the solution is managing various operations.

This report will populate during an execution of the test lab.

Step 53: OPTIONAL for IMWA: Notes for Expansion Kit



The "jp@gc - JMXMon Samples Collector" is an report to pull J2EE data directly; using the J2EE Administrative Console.

Requires the following:

1) Ensure the current jboss-cli-client.jar is copied to Jmeter lib folder

2) JBOSS Administrative Console be accessible remotely; [Update standalone.sh/bat with IDM_OPTS="$IDM_OPTS -Djboss.bind.address.management=0.0.0.0"]

3) JBOSS userID/password is defined in the Admin Console for access to J2EE stats. [Execute add-user.sh/bat & create management user with password]

This report will populate during an execution of the test lab.

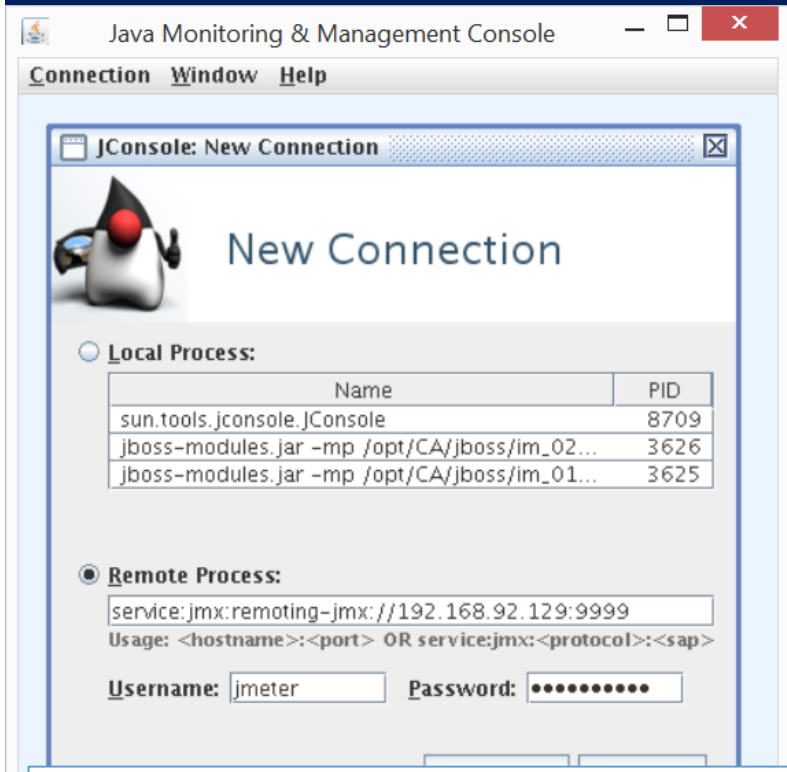
Label: JBOSS
URL: service:jmx:remoting-jmx://${IMWA_HOSTNAME}:9999
Username: jmeter
Password: jmeter123!
Object Name: java.lang:type=Memory
Attribute: HeapMemoryUsage
Key (for composite JMX values): used

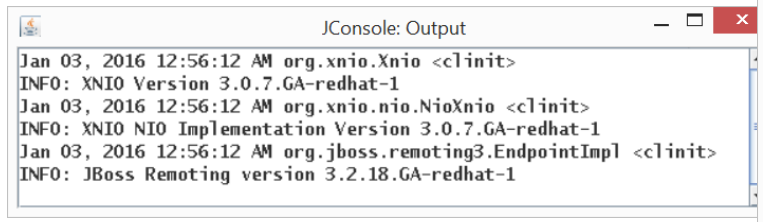
Ref: http://jmeter-plugins.org/wiki/JMXMon/?utm_source=jmeter&utm_medium=helplink&utm_campaign=JMXMon

https://planet.jboss.org/post/jmx_connections_to_jboss_as

http://jmeter-plugins.org/wiki/JMXMon/
https://github.com/undera/jmeter-plugins/blob/master/extras/src/kg/apc/jmeter/jmxmon/JMXMonCollector.java

Step 53b OPTIONAL for IMWA: Notes for Expansion Kit

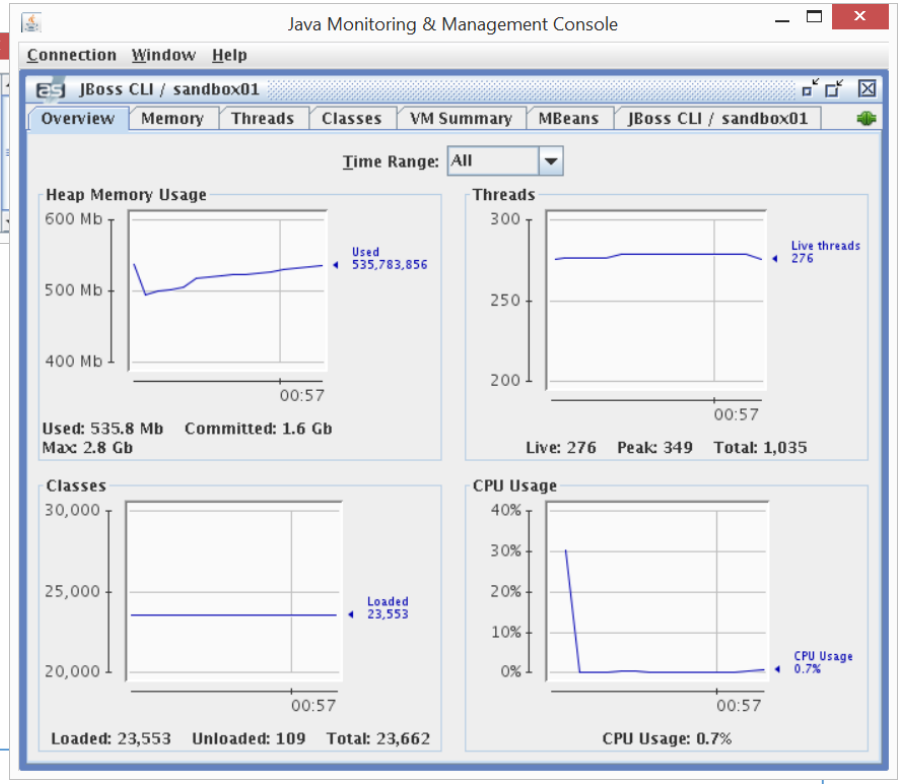




Label: JBOSS
URL: service:jmx:remoting-jmx://${IMWA_HOSTNAME}:9999
Username: jmeter
Password: jmeter123!
Object Name: java.lang:type=Memory
Attribute: HeapMemoryUsage
Key (for composite JMX values): used

Ref: http://jmeter-plugins.org/wiki/JMXMon/?utm_source=jmeter&utm_medium=helplink&utm_campaign=JMXMon

https://planet.jboss.org/post/jmx_connections_to_jboss_as



Validate REMOTE JMX for JBOSS with JBOSS Java Jconsole

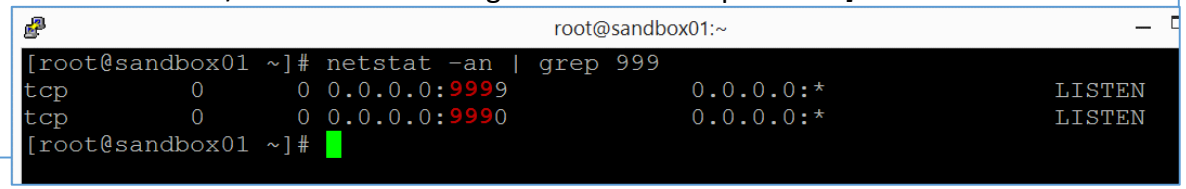
Requires the following:

1) X-Ming or similar X-Window on desktop for remote execution. Putty enabled with X11 Redirect & Linux environment variable DISPLAY=IP:0.0

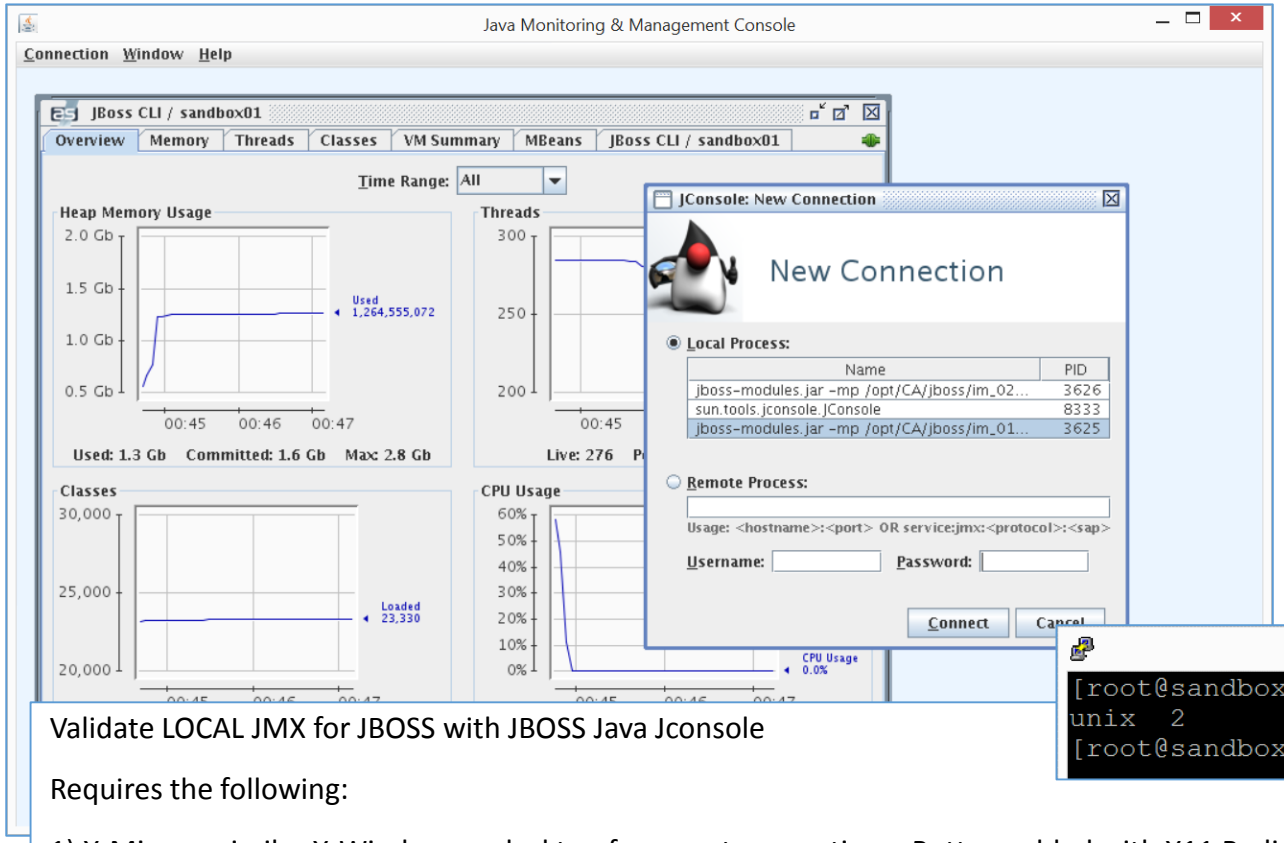
2) Execute JBOSS_HOME\bin\jconsole.sh [Should appear in X-Window]

3) JBOSS userID/password is defined in the Admin Console for access to J2EE stats. [Execute add-user.sh/bat & create management user with password]

This report will populate during an execution of the test lab.



Step 53c OPTIONAL for IMWA: Notes for Expansion Kit



http://docs.oracle.com/javase/7/docs/technotes/guides/management/agent.html

Validate LOCAL JMX for JBOSS with JBOSS Java Jconsole

Requires the following:

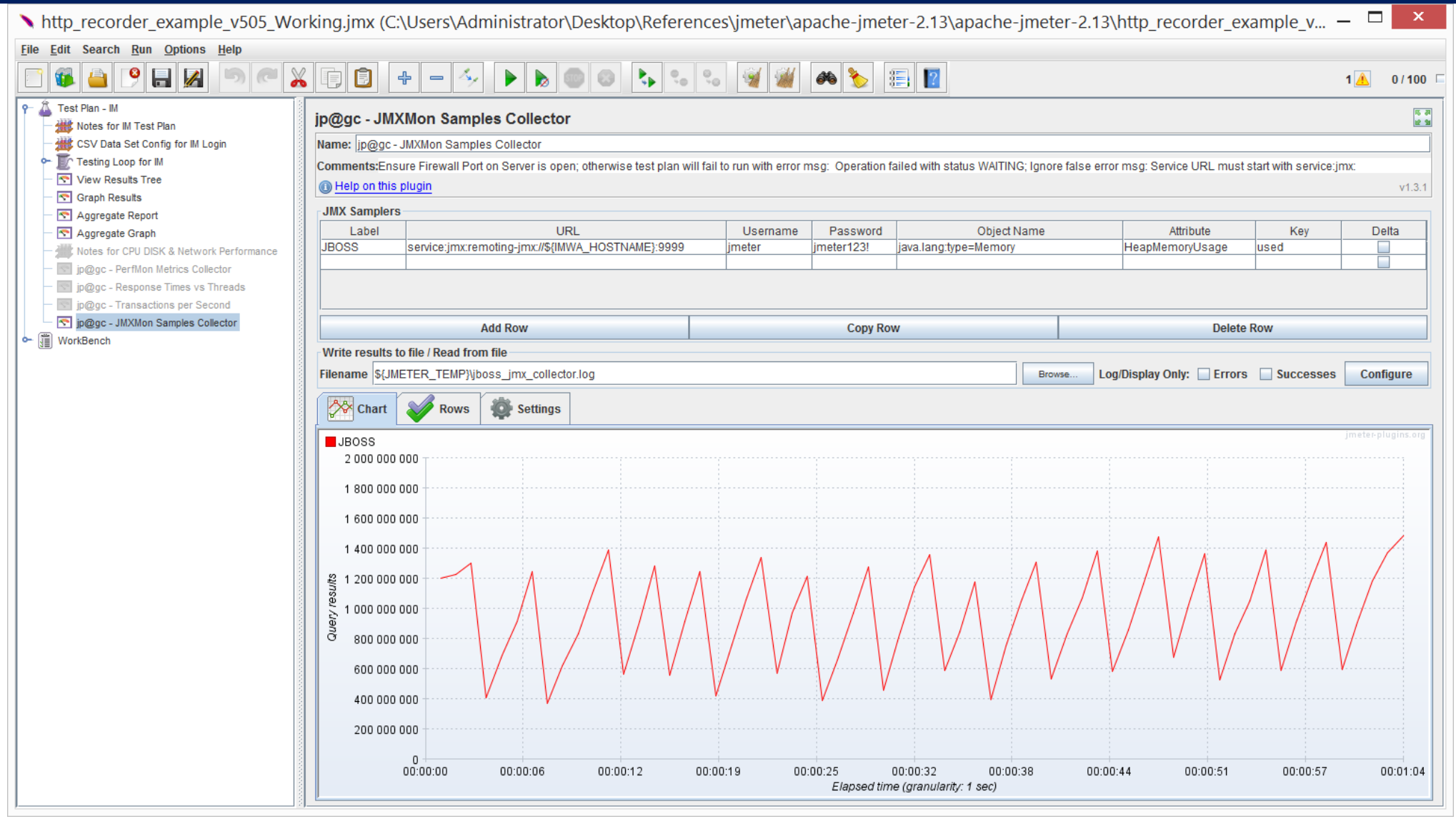
1) X-Ming or similar X-Window on desktop for remote execution. Putty enabled with X11 Redirect & Linux environment variable DISPLAY=IP:0.0

2) Execute JBOSS_HOME\bin\jconsole.sh [Should appear in X-Window]

3) No authentication required.

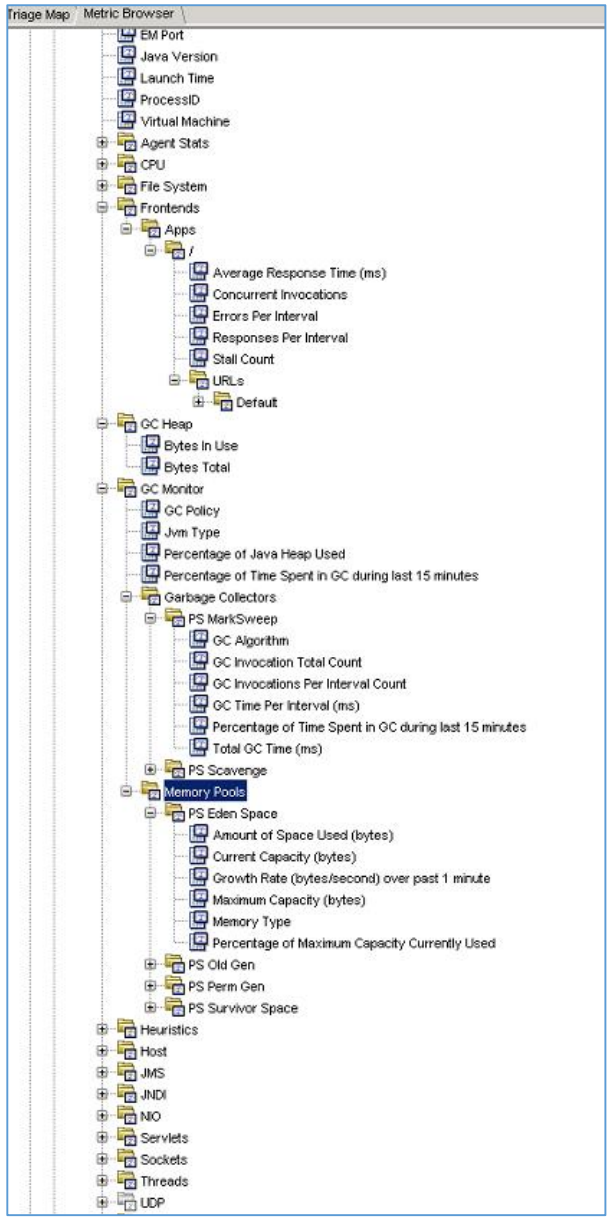
This report will populate during an execution of the test lab.

Step 53d OPTIONAL for IMWA: Notes for Expansion Kit



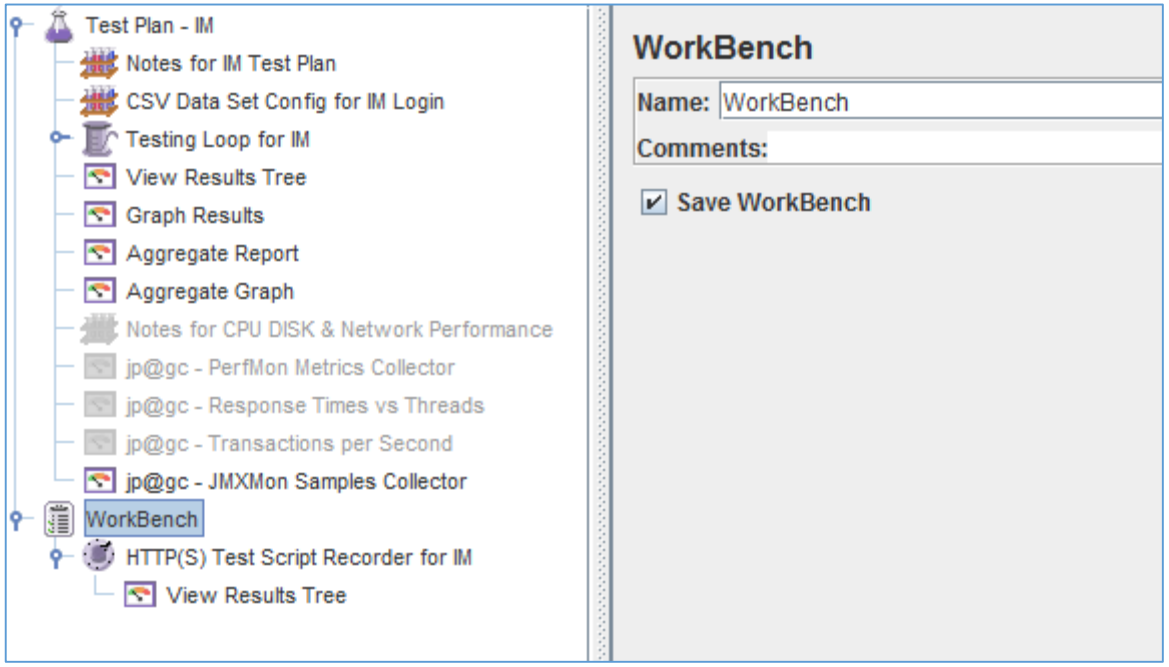
Ignore false error message: MalformedURLException: Service URL must start with service:jmx:

Step 53e OPTIONAL for IMWA: Notes for Expansion Kit



Example of CA APM (Introscope) – Robust Monitoring

Step 54: Jmeter Test Plan for IMWA: Workbench



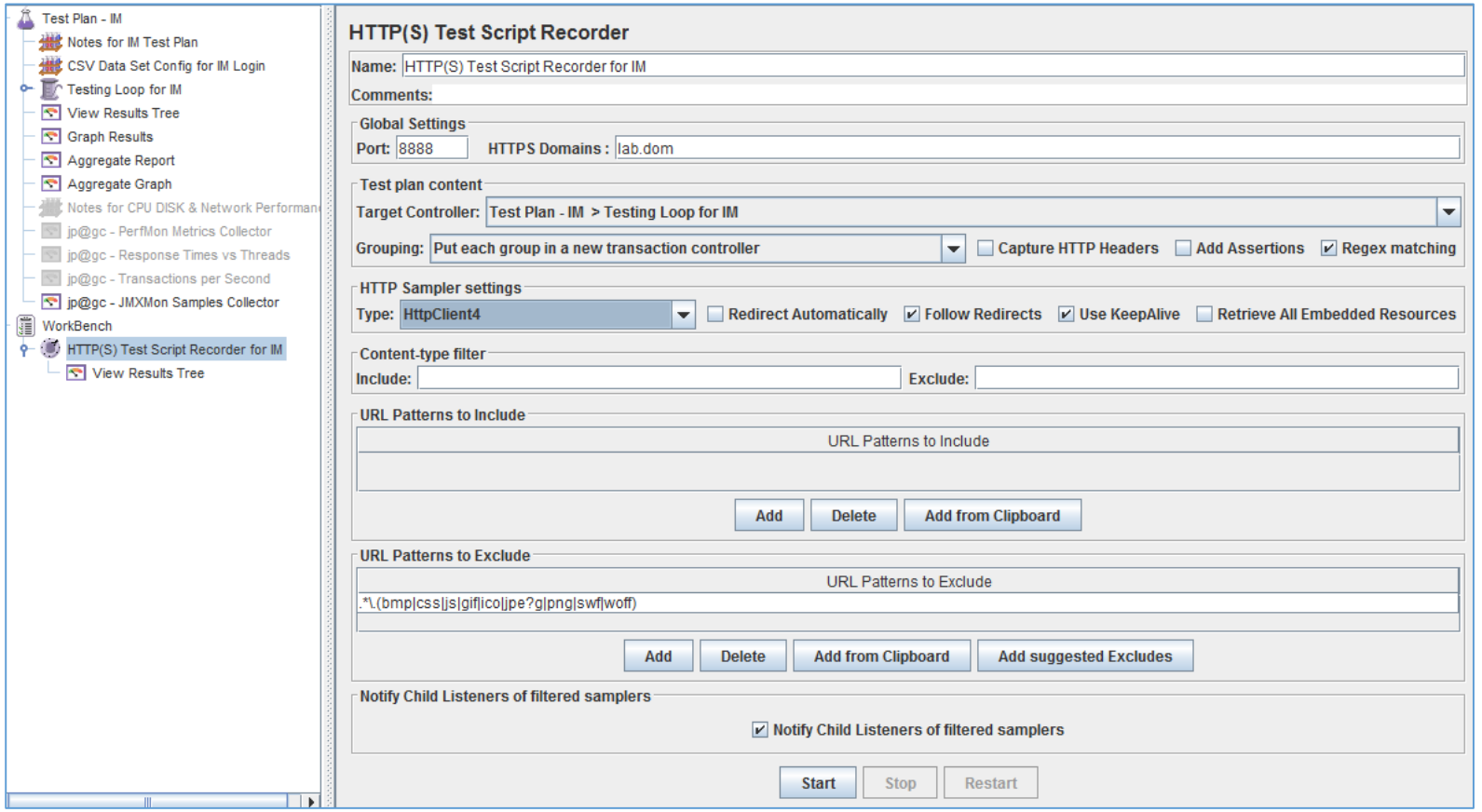
The JMETER WORKBENCH allows temporary components / steps to be used.

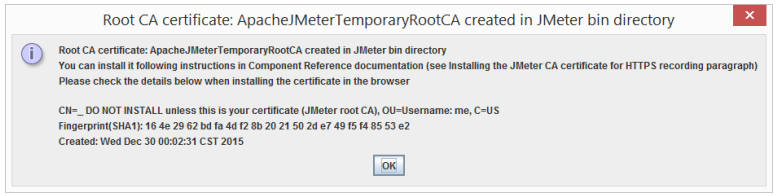
This section is where the JMETER HTTP Recorder will be attached for later use.

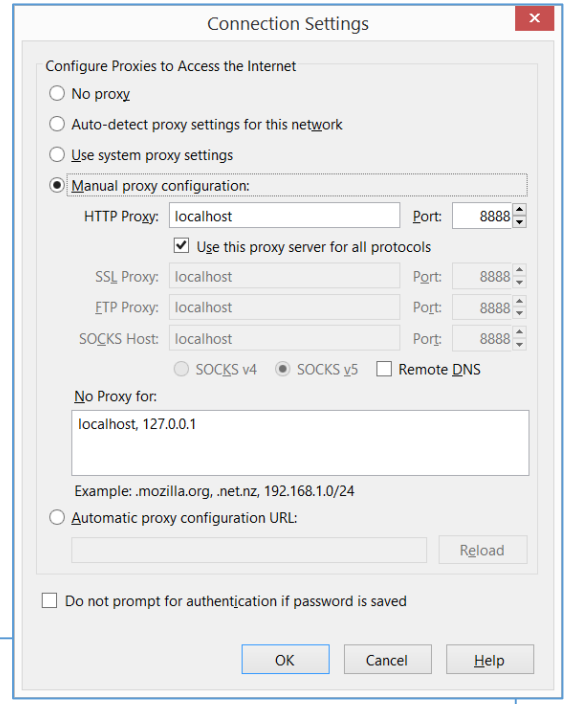
This is STANDARD with JMETER

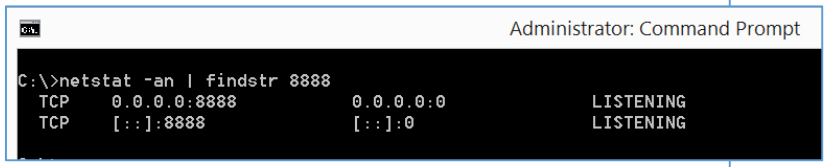
No changes required for this operation

Step 55: Jmeter Test Plan for IMWA: HTTP Test Recorder









The HTTP Test Script Recorder was added manually to capture ALL web traffic to the IM User Console.

The Proxy Port was defined as 8888. And the HTTPS SSL Domain was defined as lab.dom

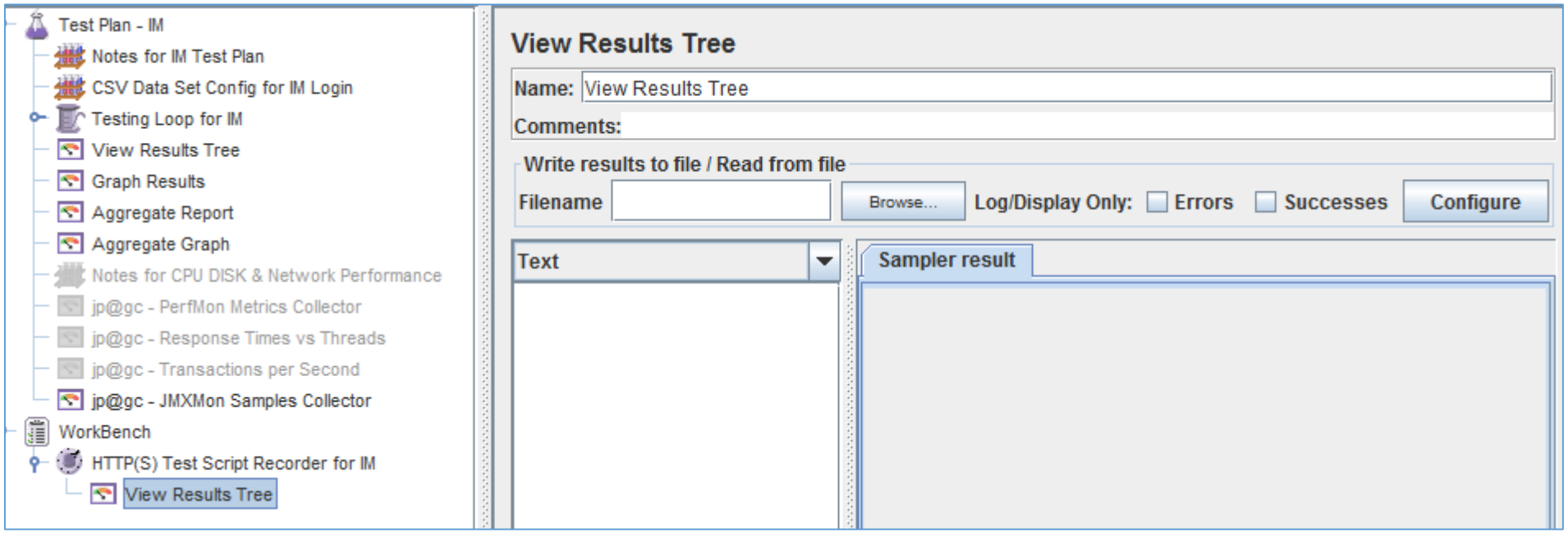
The Test Plan Content was setup to use a Targeted Controller. This is where ALL operations will be placed, under this “folder”

Added URL Patterns to Exclude. These “images” and other static information will not be displayed to avoid clutter.

When READY, click START. This will cause the JMETER to monitor ALL HTTP(S) Traffic.

- A temporary SSL CA Cert will be created for use with any HTTPS URLs. Update the browser Network configurations for a Proxy, to localhost port 8888.

Step 56: Jmeter Test Plan for IMWA: HTTP Test Recorder



The View Results Tree Listener was added to view data as is was being collected.

This is the END of the current TEST PLAN.

Examples of Using Jmeter HTTP Recorder

Jmeter Configurations – HTTP Recorder

WHY? HIGH VALUE METHOD TO CREATE IM USE-CASE AUTOMATED TEST PLANS FOR EXECUTE

USE a HTTP Recorder Proxy to build the test plans to 90-95% completion.

HOW? Simple Steps

1) Configure Jmeter to run as a local proxy on port 8888
2) Configure local browser (IE/FF/Chrome) to use local proxy on port 8888
3) Launch browser and execute IM use-cases, e.g. authentication, change a user's password, create a user.
4) Monitor Jmeter for its information that it captured.

5) Add in SSL Certificates with TLSv1 support to allow use of HTTPS, to Jmeter

Jmeter Configurations – HTTP Recorder

1. Create “Test Plan” for HTTP
2. Right click on the “Test Plan” and add a new thread group: Add > Threads (Users) > Thread Group
3. Select the Thread Group
4. Right click on Thread Group: “Add -> Config Element -> HTTP Request Defaults”
5. In the new HTTP Request Defaults element set the variables for:

Server name: ${IMWA001}

Port: 8888

Jmeter Configurations – HTTP Recorder

1. WorkBench. Click checkbox, “Save WorkBench”
2. Right click on WorkBench and add the recorder: Add -> Non-Test Elements -> HTTP(S) Test Script Recorder
3. On HTTP(S) Test Script Recorder configuration pane, click the “Add” button in “URL Patterns to Include”. Enter “.*\.html” or “.*”.
4. Right click on “HTTP(S) Test Script Recorder” and add a listener: Add -> Listener -> View Results Tree [See results].
5. Return to HTTP(S) Test Script Recorder, and click the “**Start**” button at the bottom. [JMeter proxy server proxies to port 8888.]

A file called ApacheJMeterTemporaryRootCA.crt will be generated in jmeter/bin folder. Install this certificate in your browser if you are using https. http://jmeter.apache.org/usermanual/component_reference.html#HTTP%28S%29_Test_Script_Recorder

Configure your browser to use the JMeter Proxy, at this point, JMeter's proxy is running.

13. Start IE 11, but do not close JMeter. 14. Open the browser options.

IE11: Tools > Internet Options > Connections > Lan Settings

FireFox: Edit -> Preferences -> Advanced -> Network -> Settings On the new pop-up, FireFox: check “Manual proxy configuration”.

IE11: check “Use a proxy server …” The address and port fields should be enabled now.

18. Address – enter “localhost” or the IP address of your system 19. Port – enter “8888”.

20. Check “Use this proxy server for all protocols”, Click “OK” button to save the settings & Click “OK” button again. This should return you to the browser

Jmeter HTTP Traffic Recorder

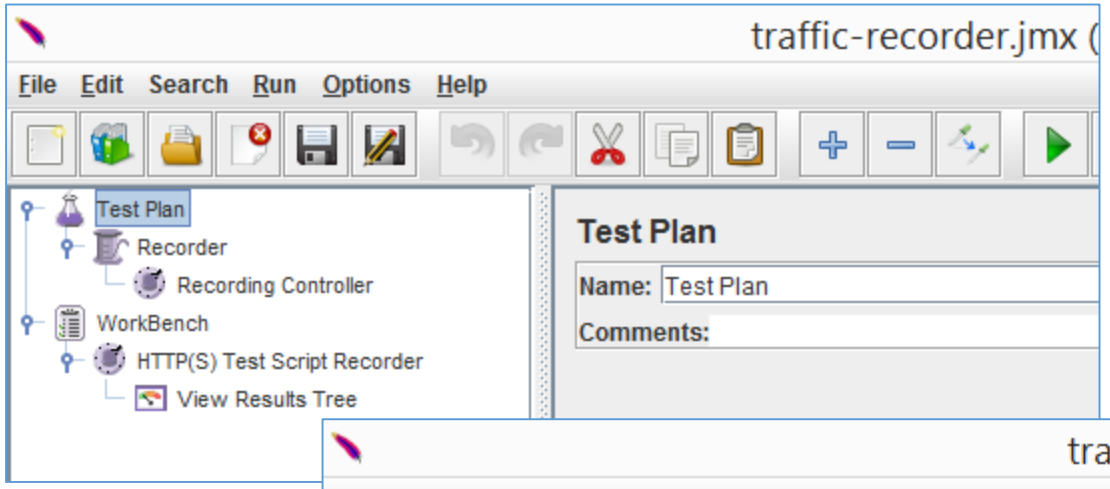
- High Value
- Don’t Guess. Let Jmeter capture your browsing & execution of use-cases.

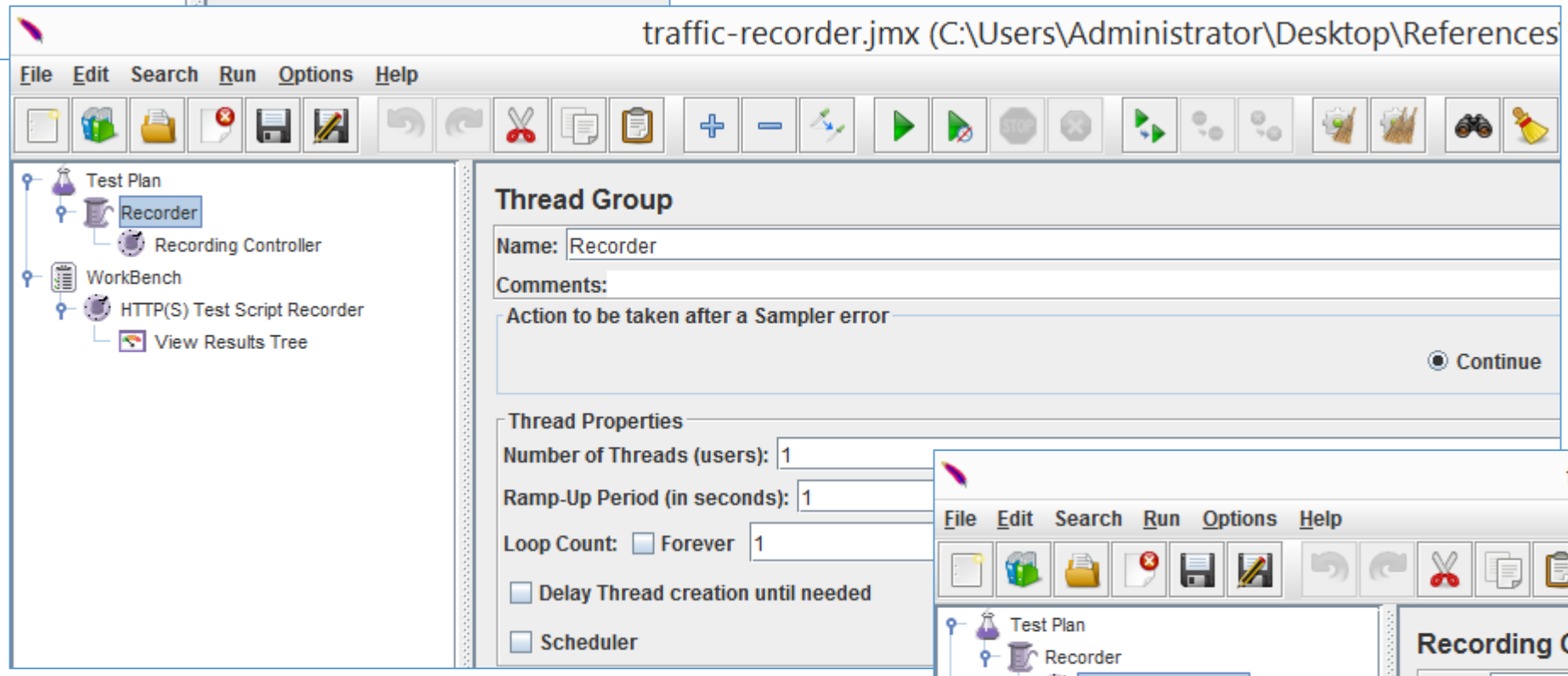
Quick Example by Peter Lin

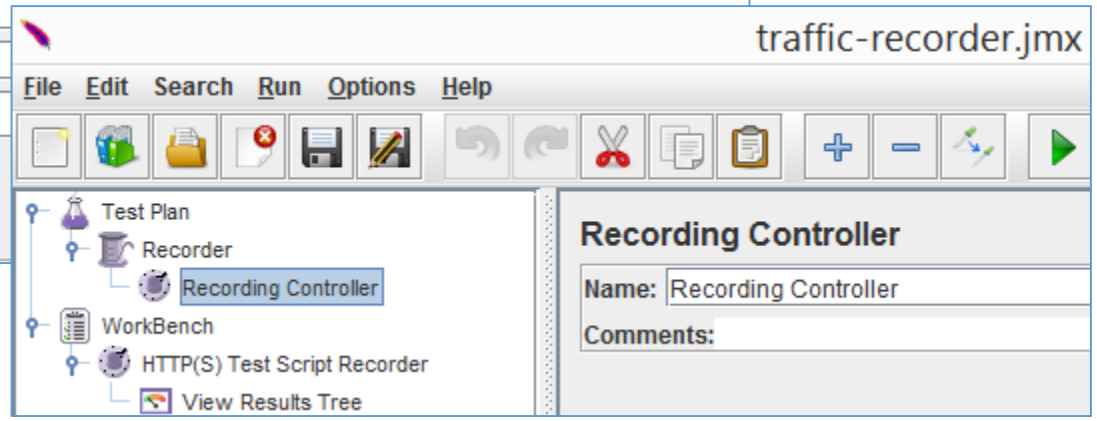
Adobe Acrobat Document

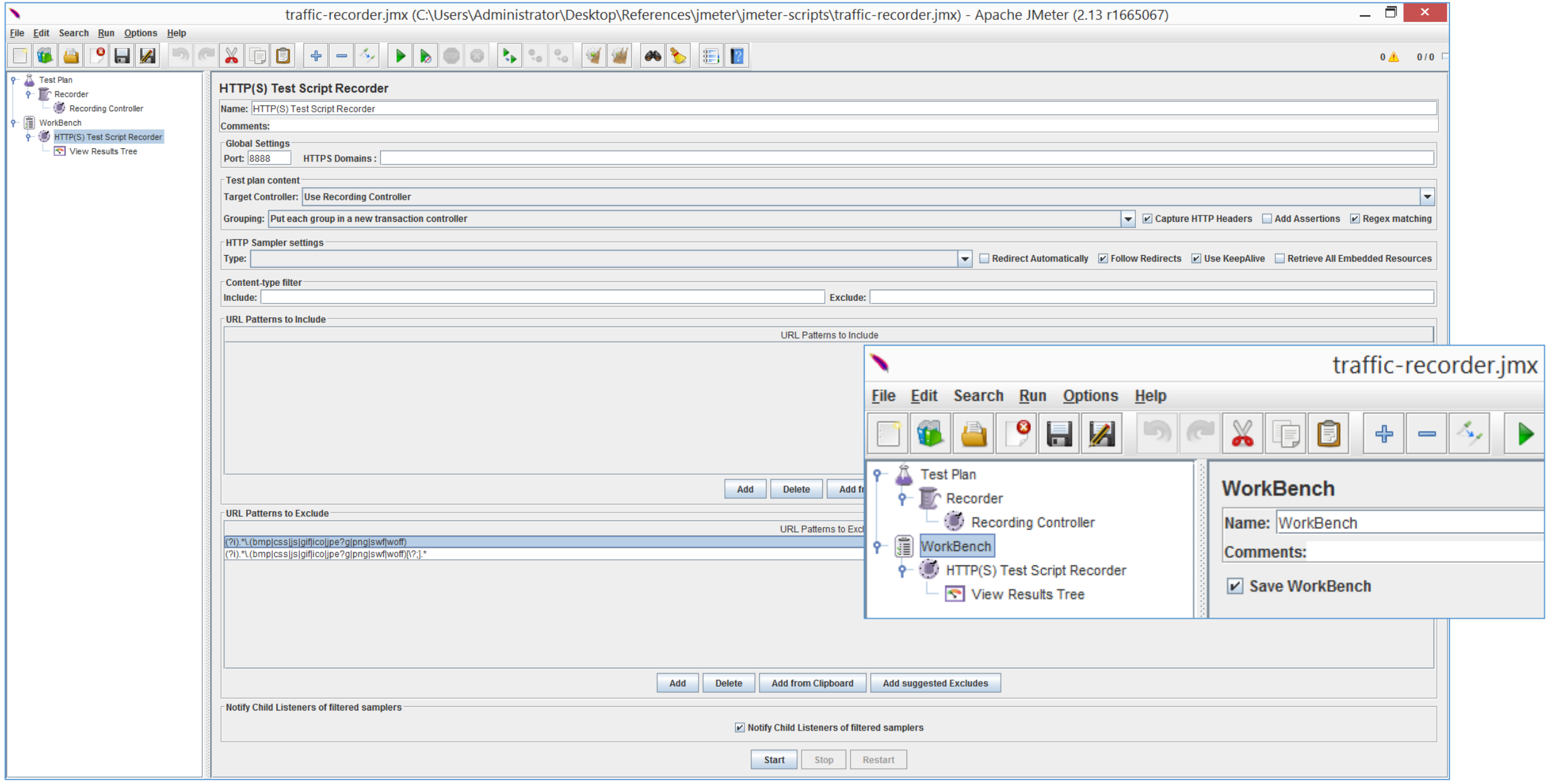
https://jmeter.apache.org/usermanual/jmeter_proxy_step_by_step.pdf

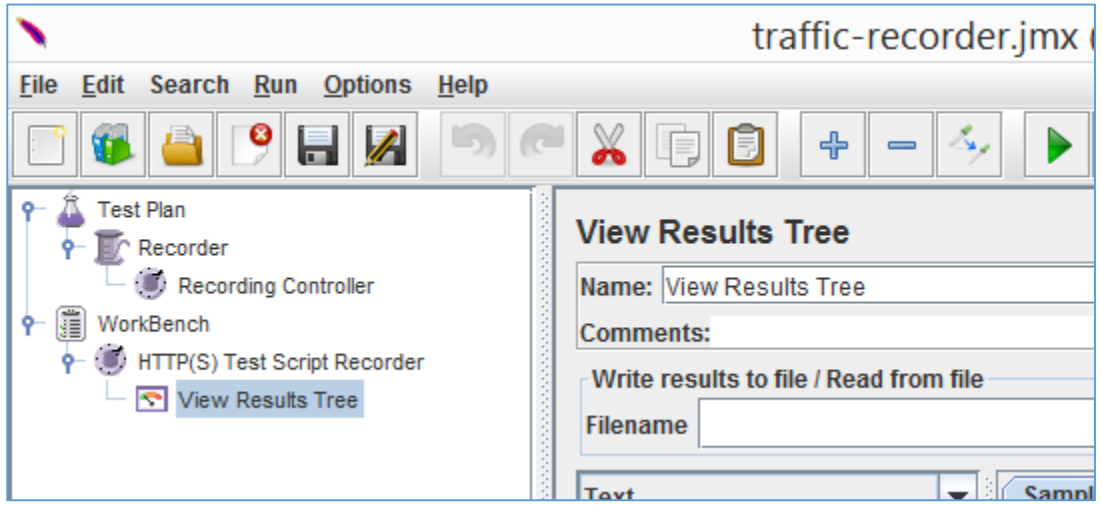
Create a Jmeter Test Plan that will record all web traffic over HTTP/S



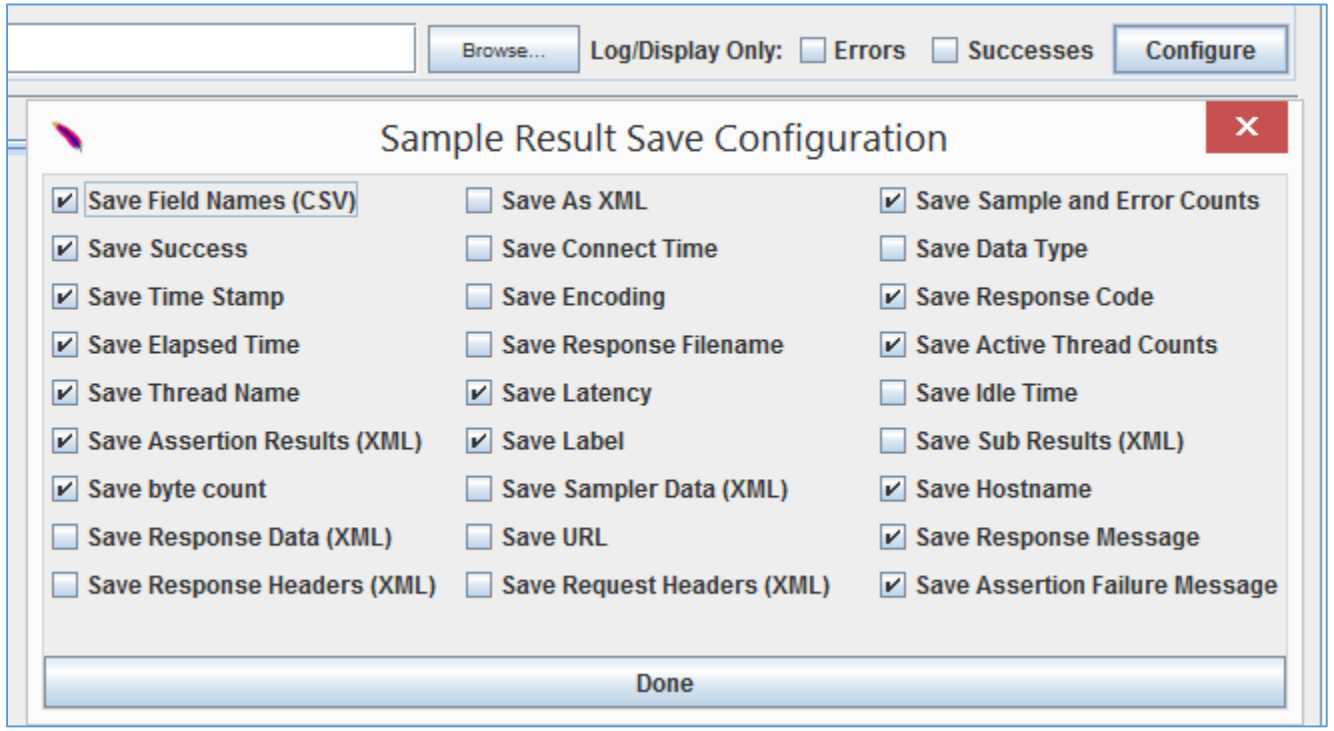


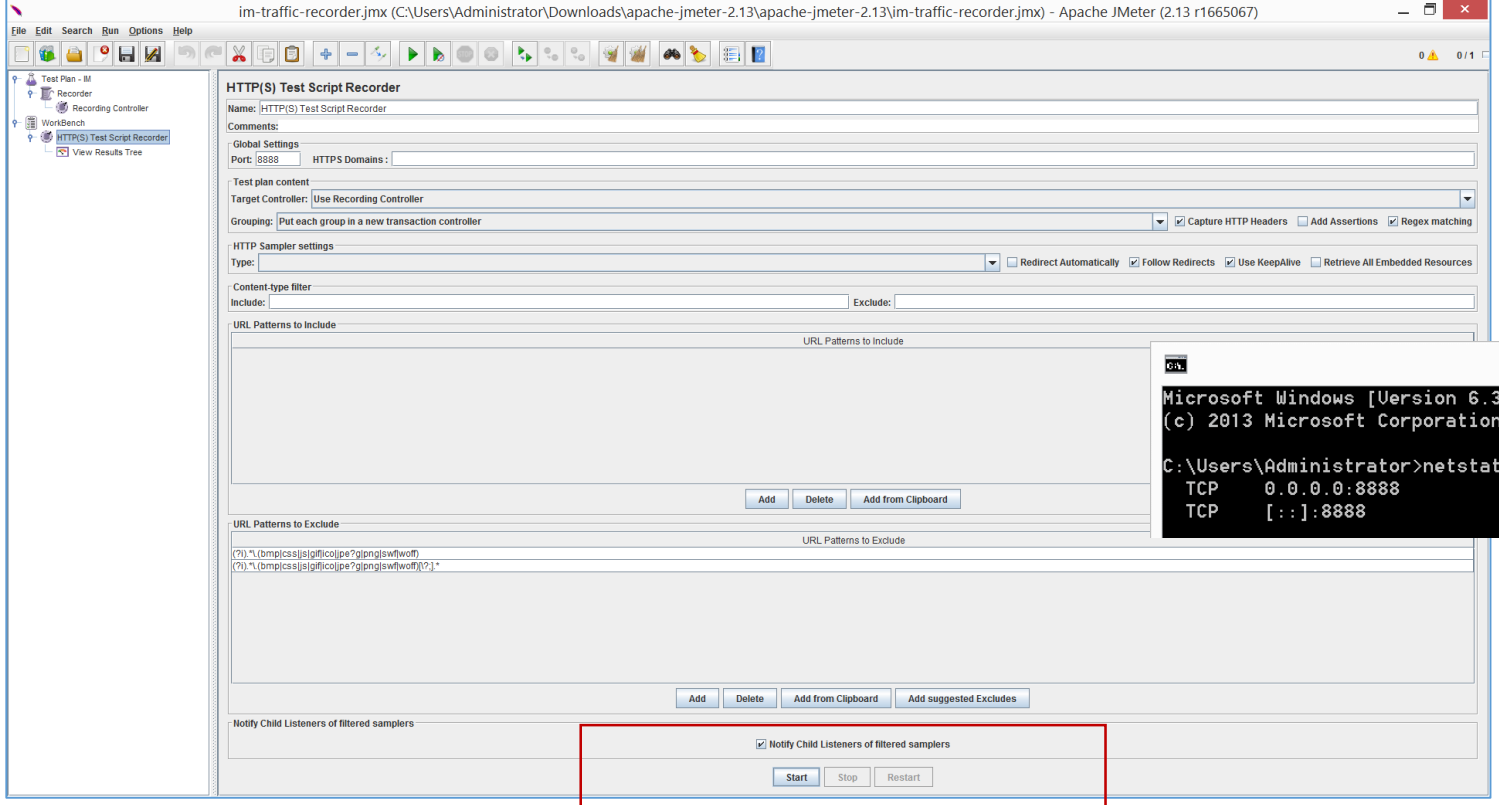



traffic-recorder.jmx (C:\Users\Administrator\Desktop\References\jmeter\jmeter-scripts\traffic-recorder.jmx) - Apache JMeter (2.13 r1665067)
File Edit Search Run Options Help
Test Plan
Recorder
Recording Controller
WorkBench
HTTP(S) Test Script Recorder
View Results Tree
HTTP(S) Test Script Recorder
Name: HTTP(S) Test Script Recorder
Comments:
Global Settings
Port: 8888
HTTPS Domains :
Test plan content
Target Controller: Use Recording Controller
Grouping: Put each group in a new transaction controller
Capture HTTP Headers
Add Assertions
Regex matching
HTTP Sampler settings
Type:
Redirect Automatically
Follow Redirects
Use KeepAlive
Retrieve All Embedded Resources
Content-type filter
Include:
Exclude:
URL Patterns to Include
URL Patterns to Include
Add
Delete
URL Patterns to Exclude
URL Patterns to Excl
(?i).*\.(bmp|css|js|gif|ico|jpe?g|png|swf|woff)
(?i).*\.(bmp|css|js|gif|ico|jpe?g|png|swf|woff)\?.*
Add
Delete
Add from Clipboard
Add suggested Excludes
Notify Child Listeners of filtered samplers
Notify Child Listeners of filtered samplers
Start
Stop
Restart
traffic-recorder.jmx
File Edit Search Run Options Help
Test Plan
Recorder
Recording Controller
WorkBench
HTTP(S) Test Script Recorder
View Results Tree
WorkBench
Name: WorkBench
Comments:
Save WorkBench

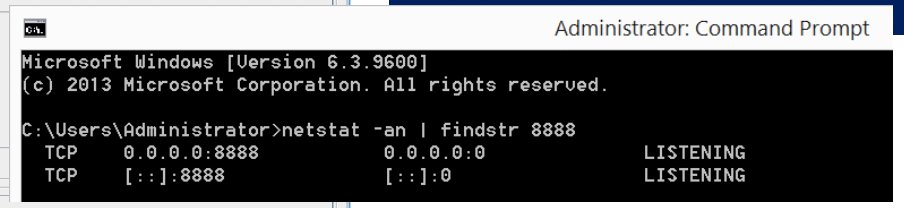


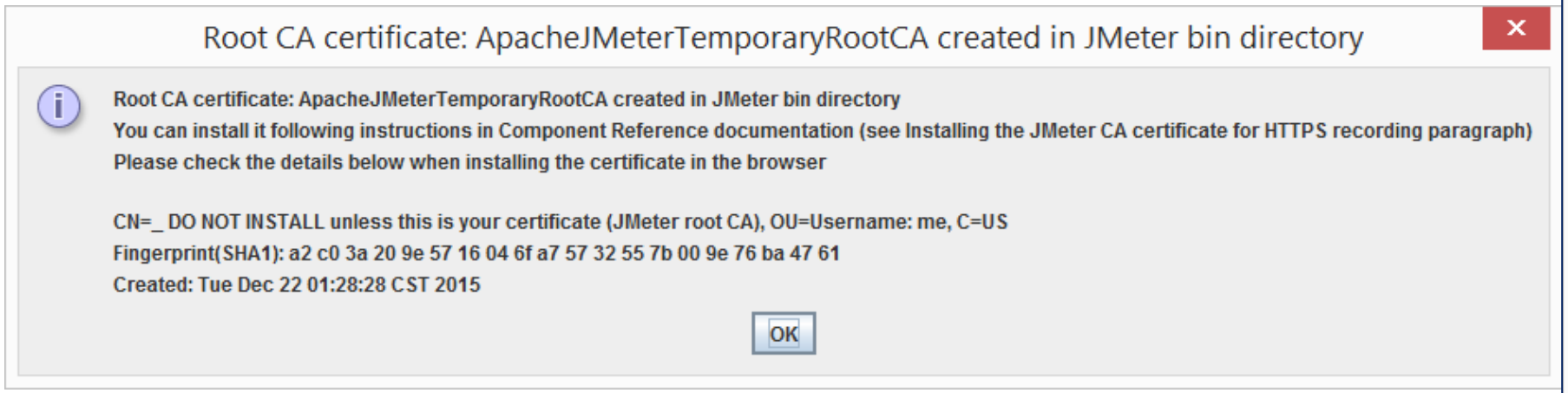
View Results Tree

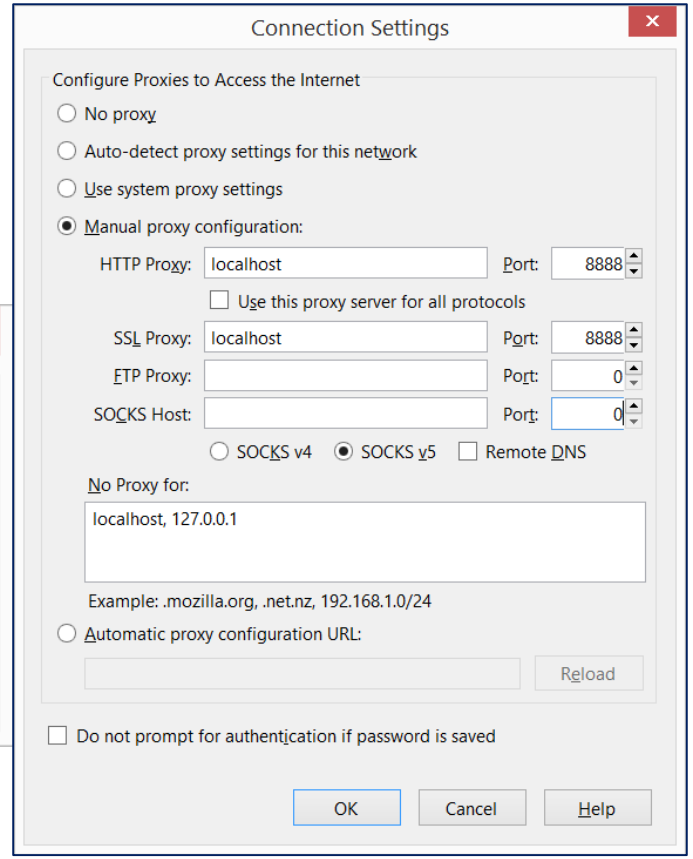




Click “START” on the Listener, to have Jmeter listen for web traffic on port 8888. & Update Proxy in Browser (FF)







File Edit View History Bookmarks Tools Help

https://sandbo.../cam/index.jsp | Options

Firefox about:preferences#advanced

Search

General
Search
Content
Applications
Privacy
Security
Sync
Advanced

Advanced

General | Data Choices | Network | Update | Certificates

Connection

Configure how Firefox connects to the Internet

Settings...

Cached Web Content

Your web content cache is currently using 40.9 MB of disk

Override automatic cache management

Limit cache to 350 MB of space

Clear Now

Offline Web Content and User Data

Your application cache is currently using 0 bytes of disk s

Tell me when a website asks to store data for offline

The following websites are allowed to store data for offlin

Clear Now

Exceptions...

Connection Settings

Configure Proxies to Access the Internet

- No proxy
- Auto-detect proxy settings for this network
- Use system proxy settings
- Manual proxy configuration:

HTTP Proxy: localhost Port: 8888

Use this proxy server for all protocols

SSL Proxy: localhost Port: 8888

FTP Proxy: localhost Port: 8888

SOCKS Host: localhost Port: 8888

SOCKS v4 SOCKS v5 Remote DNS

No Proxy for:

localhost, 127.0.0.1

Example: .mozilla.org, .net.nz, 192.168.1.0/24

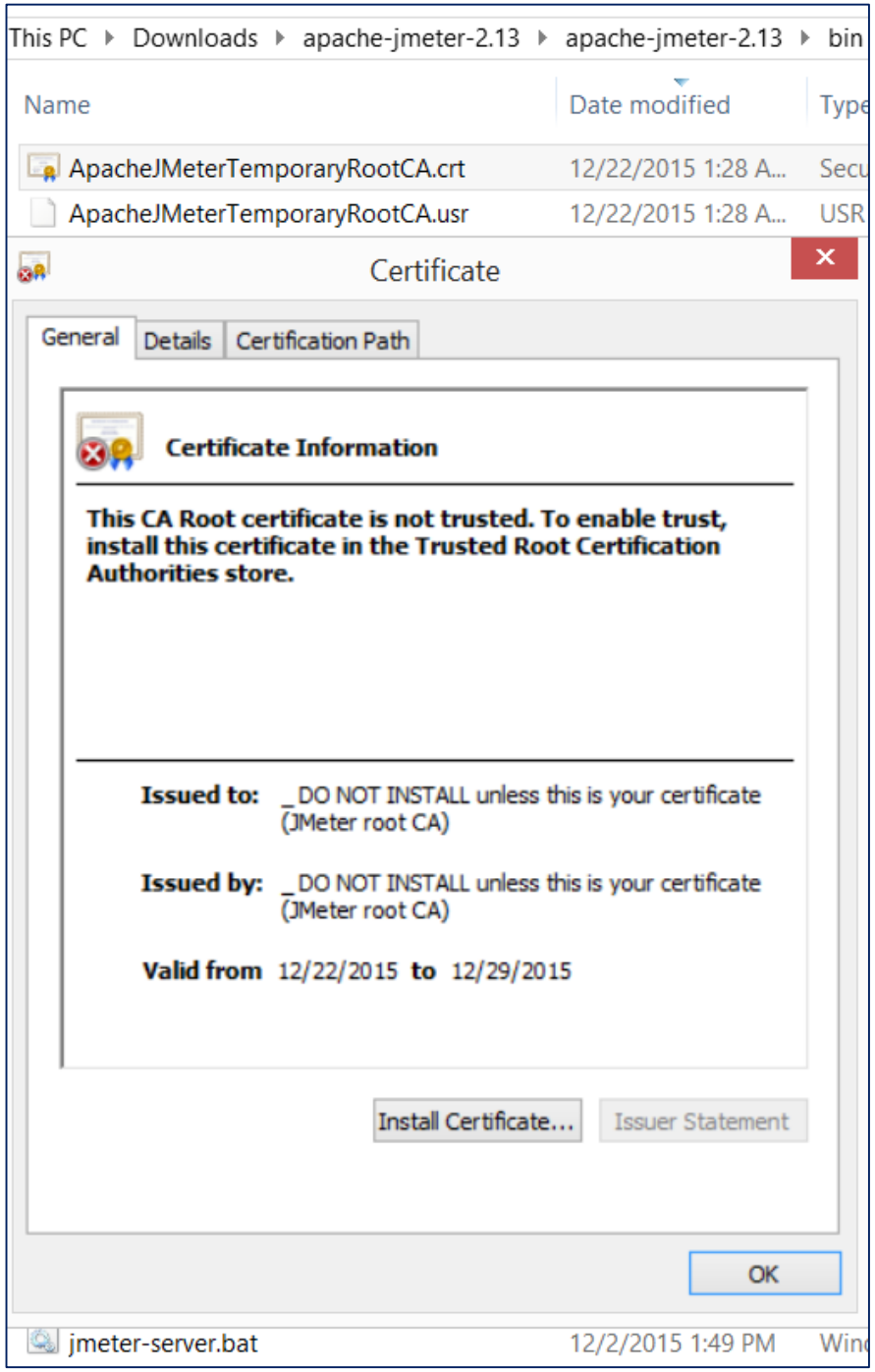
- Automatic proxy configuration URL:

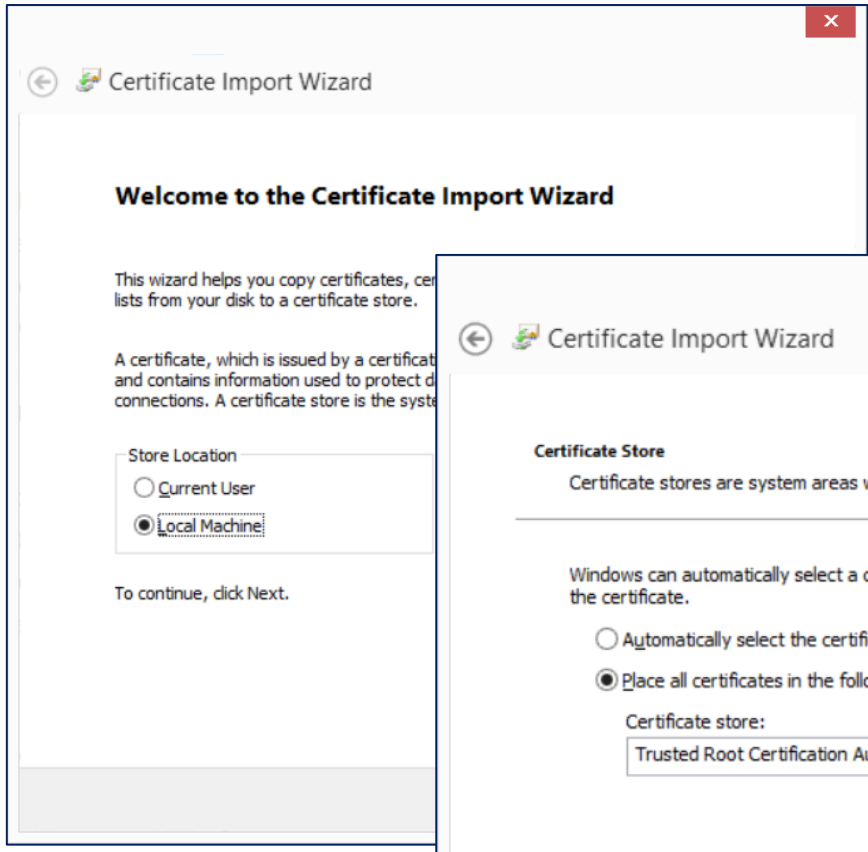
Reload

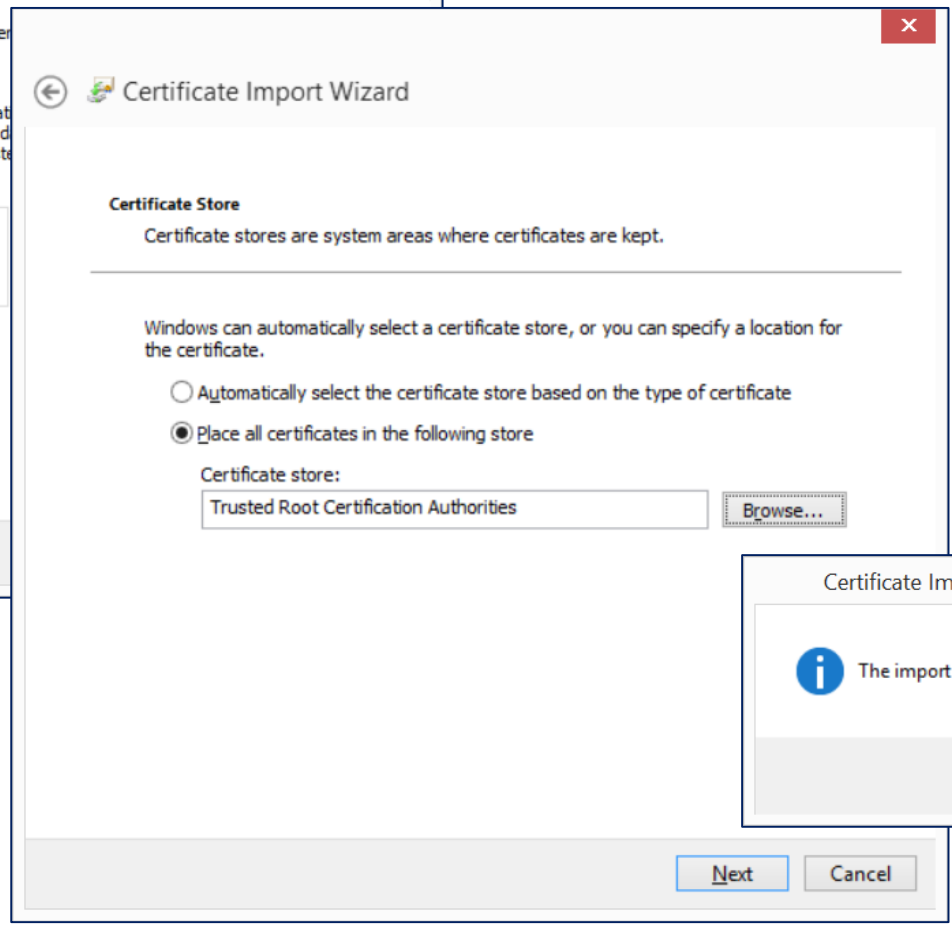
Do not prompt for authentication if password is saved

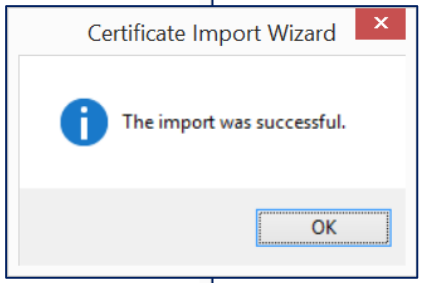
OK Cancel Help

Install Jmeter Temporary Root CA Cert

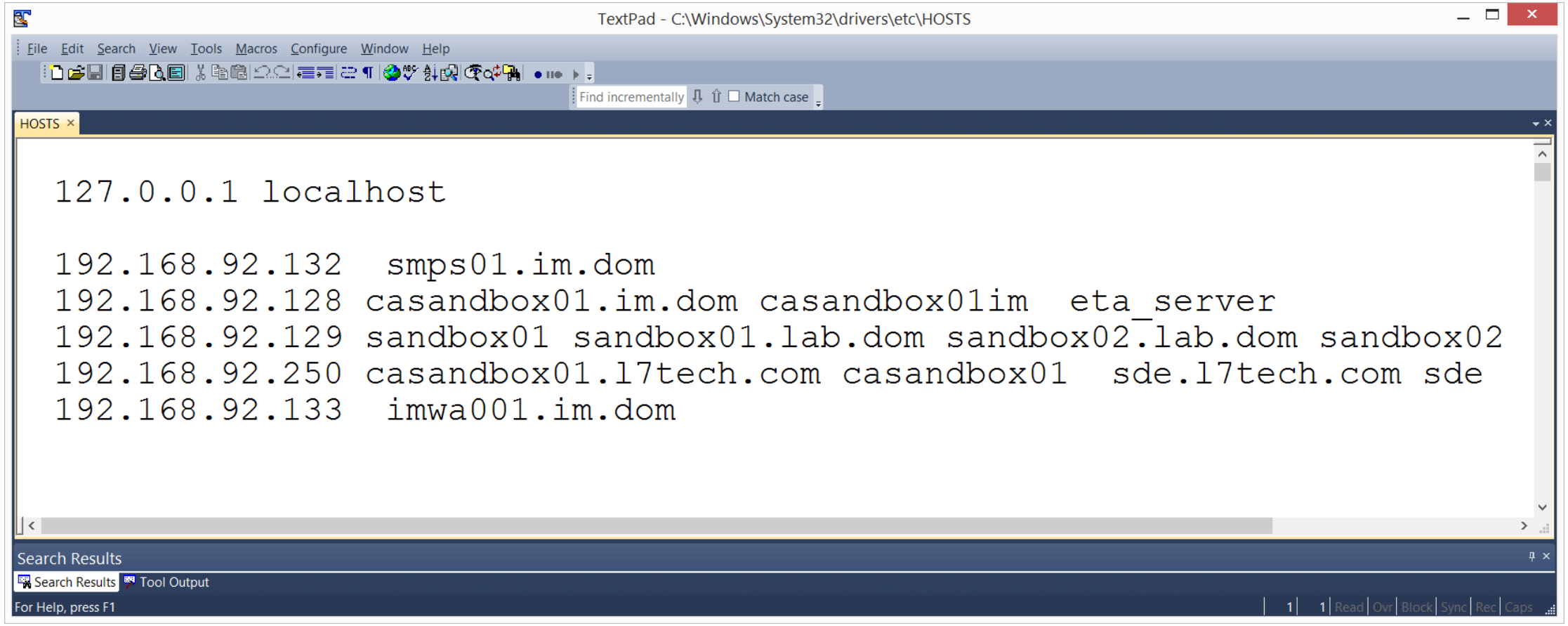




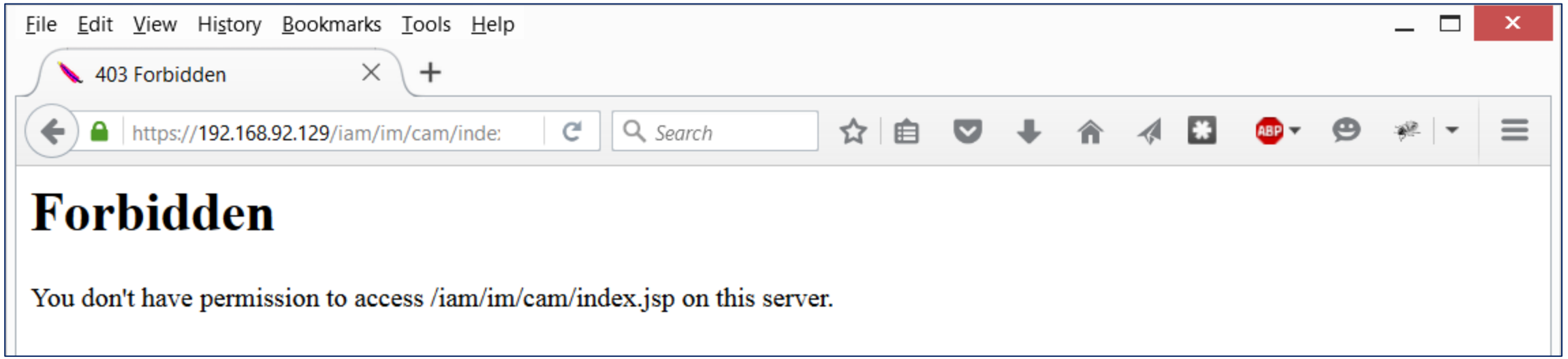


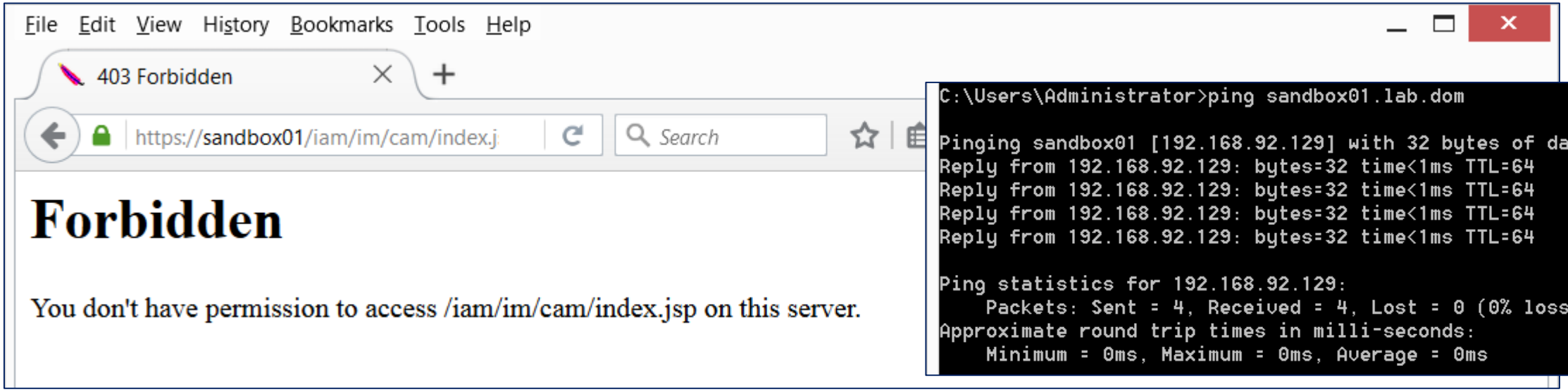


Ensure hostname is in DNS or host files

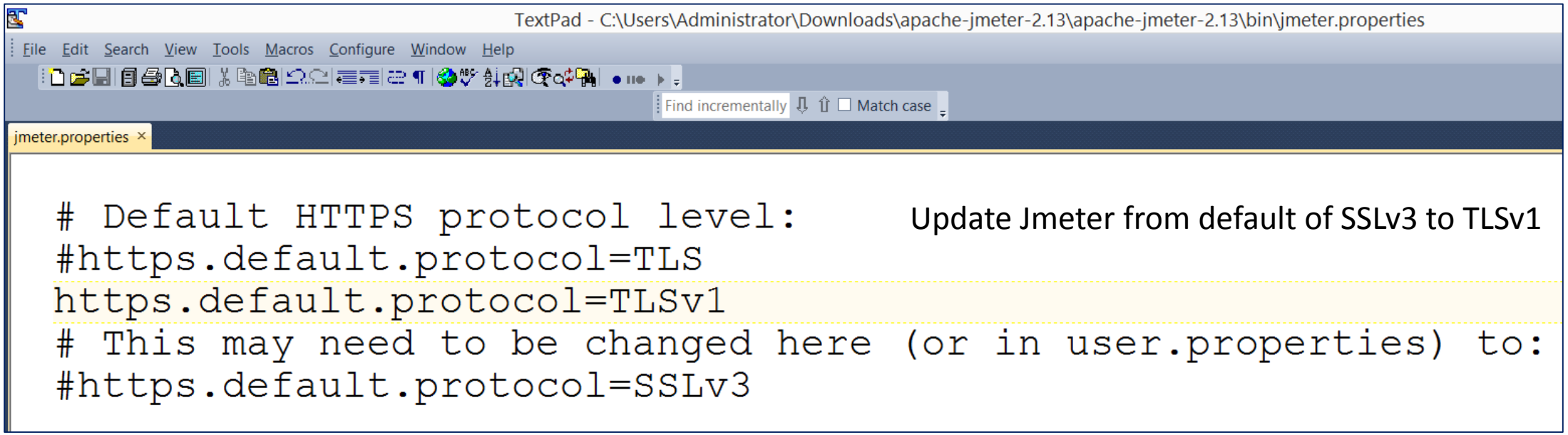


Must use FQDN with SSL for proper redirect from Web Servers to J2EE Servers

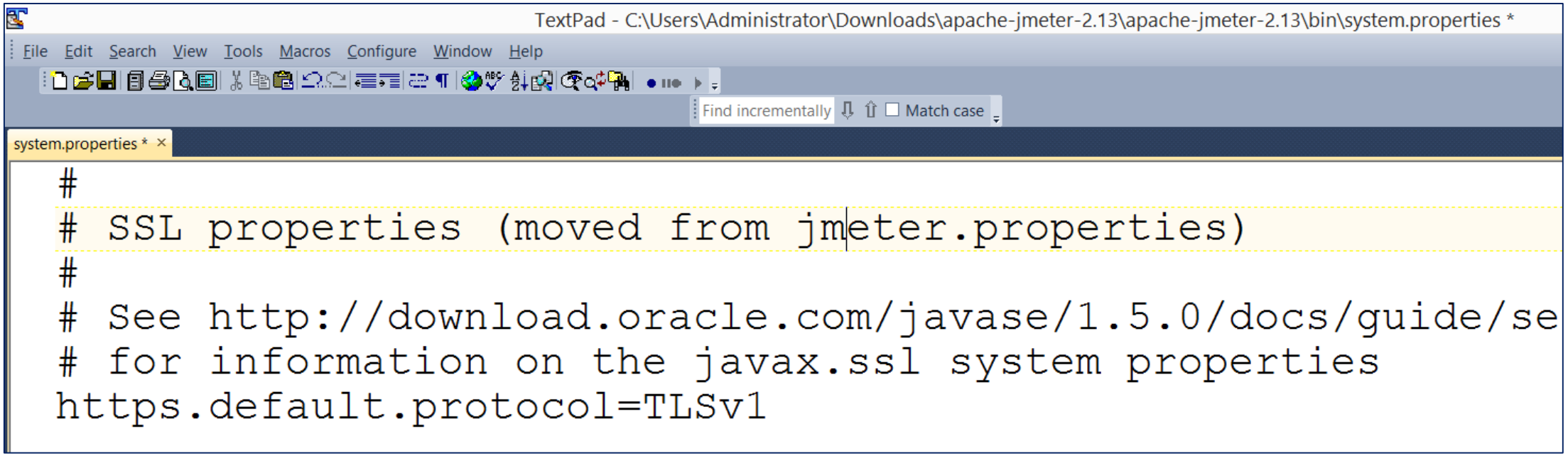




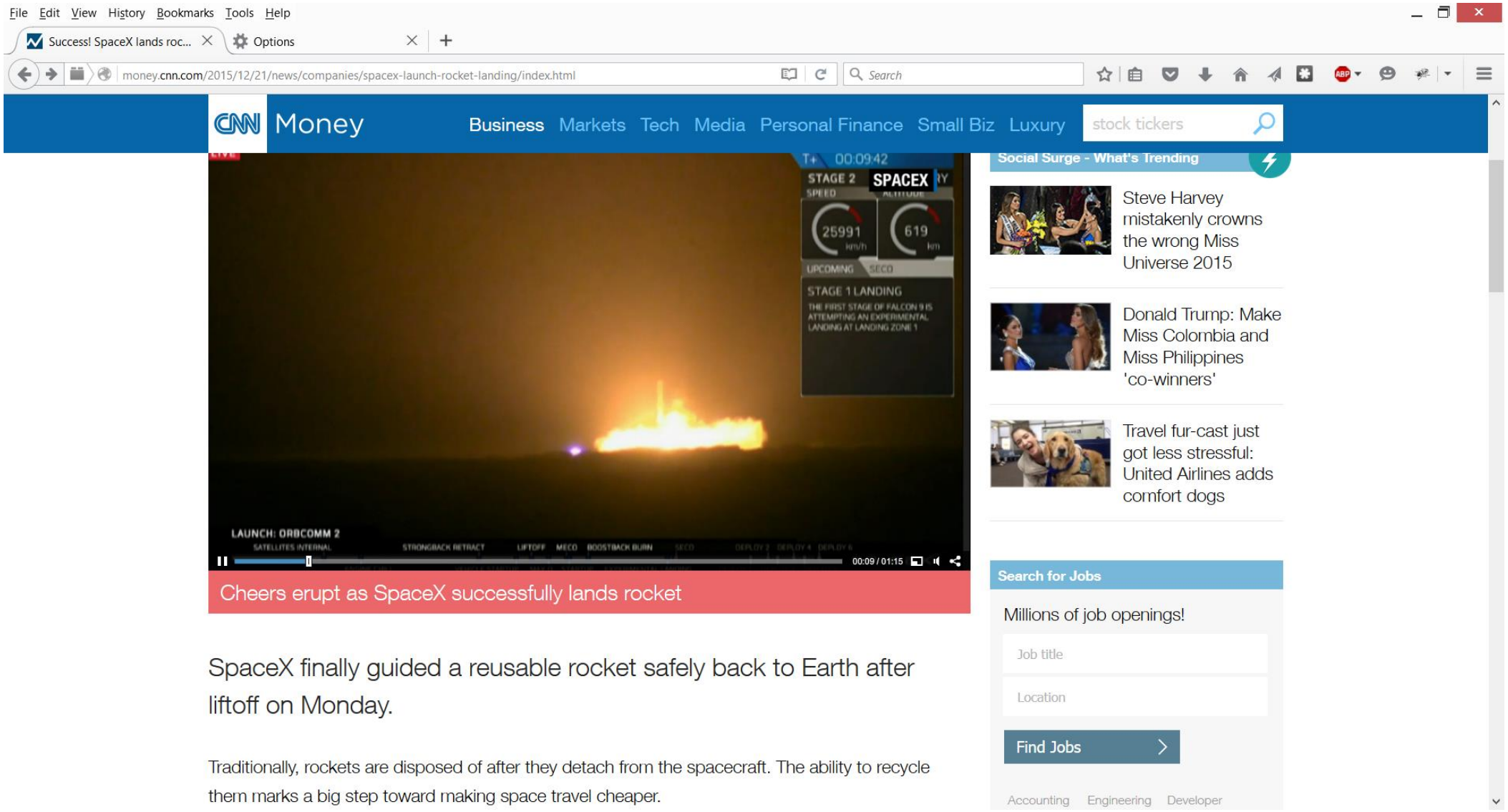

```
C:\Users\Administrator>ping sandbox01.lab.dom

Pinging sandbox01 [192.168.92.129] with 32 bytes of data:
Reply from 192.168.92.129: bytes=32 time<1ms TTL=64
Reply from 192.168.92.129: bytes=32 time<1ms TTL=64
Reply from 192.168.92.129: bytes=32 time<1ms TTL=64
Reply from 192.168.92.129: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.92.129:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

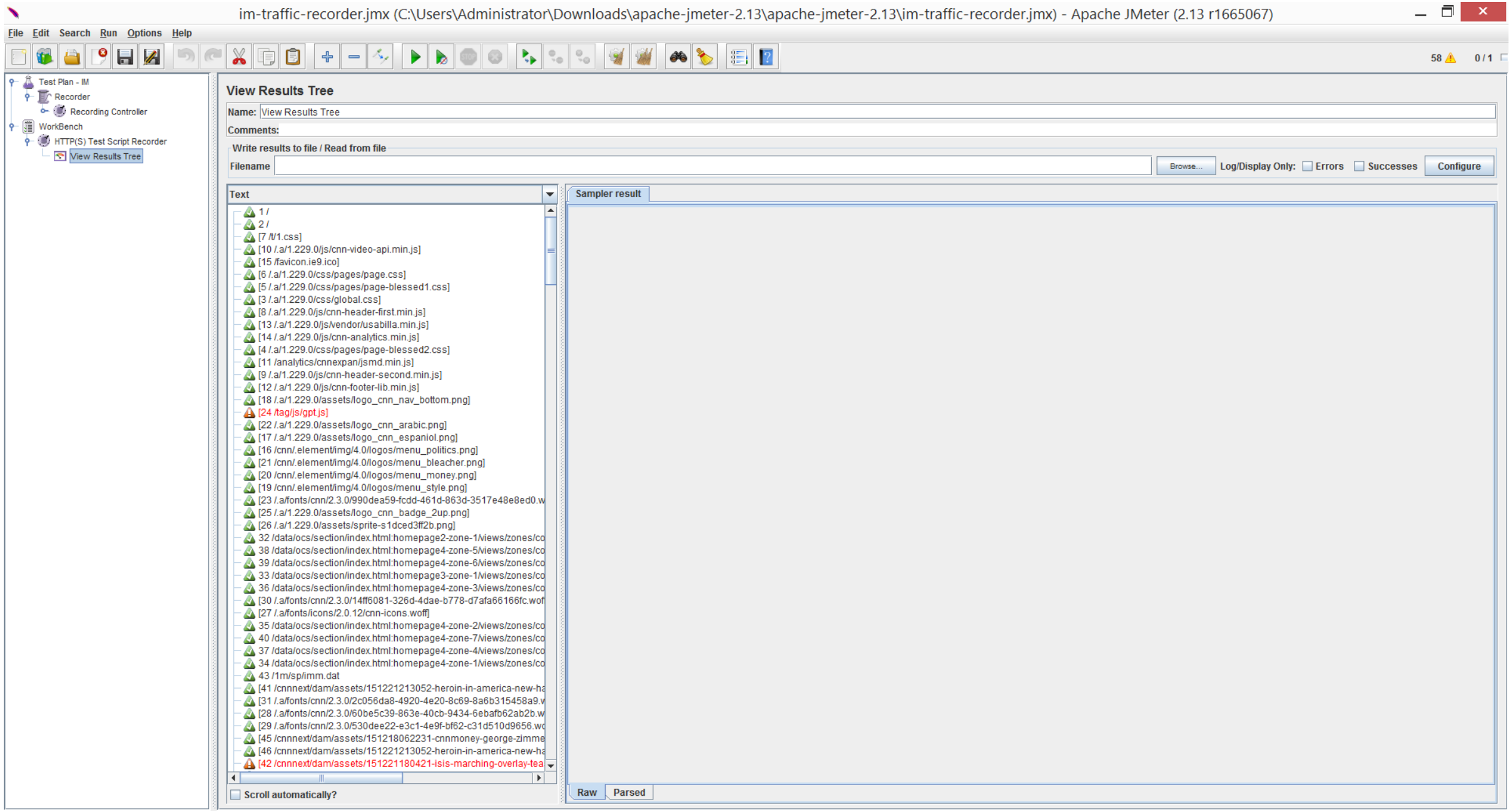


Update Jmeter from default of SSLv3 to TLSv1



Test Jmeter Capture with sample web site




im-traffic-recorder.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder.jmx) - Apache JMeter (2.13 r1665067)
File Edit Search Run Options Help
58
0 / 1
Test Plan - IM
Recorder
Recording Controller
WorkBench
HTTP(S) Test Script Recorder
View Results Tree
View Results Tree
Name: View Results Tree
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only: Errors Successes
Configure
Text
1 /
2 /
[7 /t/1.css]
[10 /.a/1.229.0/js/cnn-video-api.min.js]
[15 /favicon.ie9.ico]
[6 /.a/1.229.0/css/pages/page.css]
[5 /.a/1.229.0/css/pages/page-blessed1.css]
[3 /.a/1.229.0/css/global.css]
[8 /.a/1.229.0/js/cnn-header-first.min.js]
[13 /.a/1.229.0/js/vendor/usabilla.min.js]
[14 /.a/1.229.0/js/cnn-analytics.min.js]
[4 /.a/1.229.0/css/pages/page-blessed2.css]
[11 /analytics/cnnexpan/jsmd.min.js]
[9 /.a/1.229.0/js/cnn-header-second.min.js]
[12 /.a/1.229.0/js/cnn-footer-lib.min.js]
[18 /.a/1.229.0/assets/logo_cnn_nav_bottom.png]
[24 /tag/js/gpt.js]
[22 /.a/1.229.0/assets/logo_cnn_arabic.png]
[17 /.a/1.229.0/assets/logo_cnn_espaniol.png]
[16 /cnn/.element/img/4.0/logos/menu_politics.png]
[21 /cnn/.element/img/4.0/logos/menu_bleacher.png]
[20 /cnn/.element/img/4.0/logos/menu_money.png]
[19 /cnn/.element/img/4.0/logos/menu_style.png]
[23 /.a/fonts/cnn/2.3.0/990dea59-fcdd-461d-863d-3517e48e8ed0.w
[25 /.a/1.229.0/assets/logo_cnn_badge_2up.png]
[26 /.a/1.229.0/assets/sprite-s1dced3ff2b.png]
32 /data/ocs/section/index.html:homepage2-zone-1/views/zones/co
38 /data/ocs/section/index.html:homepage4-zone-5/views/zones/co
39 /data/ocs/section/index.html:homepage4-zone-6/views/zones/co
33 /data/ocs/section/index.html:homepage3-zone-1/views/zones/co
36 /data/ocs/section/index.html:homepage4-zone-3/views/zones/co
[30 /.a/fonts/cnn/2.3.0/14ff6081-326d-4dae-b778-d7afa66166fc.wof
[27 /.a/fonts/icons/2.0.12/cnn-icons.woff]
35 /data/ocs/section/index.html:homepage4-zone-2/views/zones/co
40 /data/ocs/section/index.html:homepage4-zone-7/views/zones/co
37 /data/ocs/section/index.html:homepage4-zone-4/views/zones/co
34 /data/ocs/section/index.html:homepage4-zone-1/views/zones/co
43 /1m/sp/imm.dat
[41 /cnnnext/dam/assets/151221213052-heroin-in-america-new-ha
[31 /.a/fonts/cnn/2.3.0/2c056da8-4920-4e20-8c69-8a6b315458a9.w
[28 /.a/fonts/cnn/2.3.0/60be5c39-863e-40cb-9434-6ebafb62ab2b.w
[29 /.a/fonts/cnn/2.3.0/530dee22-e3c1-4e9f-bf62-c31d510d9656.wo
[45 /cnnnext/dam/assets/151218062231-cnnmoney-george-zimme
[46 /cnnnext/dam/assets/151221213052-heroin-in-america-new-ha
[42 /cnnnext/dam/assets/151221180421-isis-marching-overlay-tea
Scroll automatically?
Sampler result
Raw
Parsed

im-traffic-recorder.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

60 ⚠ 0 / 1

- Test Plan - IM
  - Recorder
    - Recording Controller
  - WorkBench
    - HTTP(S) Test Script Recorder
    - View Results Tree

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename | Browse... | Log/Display Only: Errors Successes | Configure

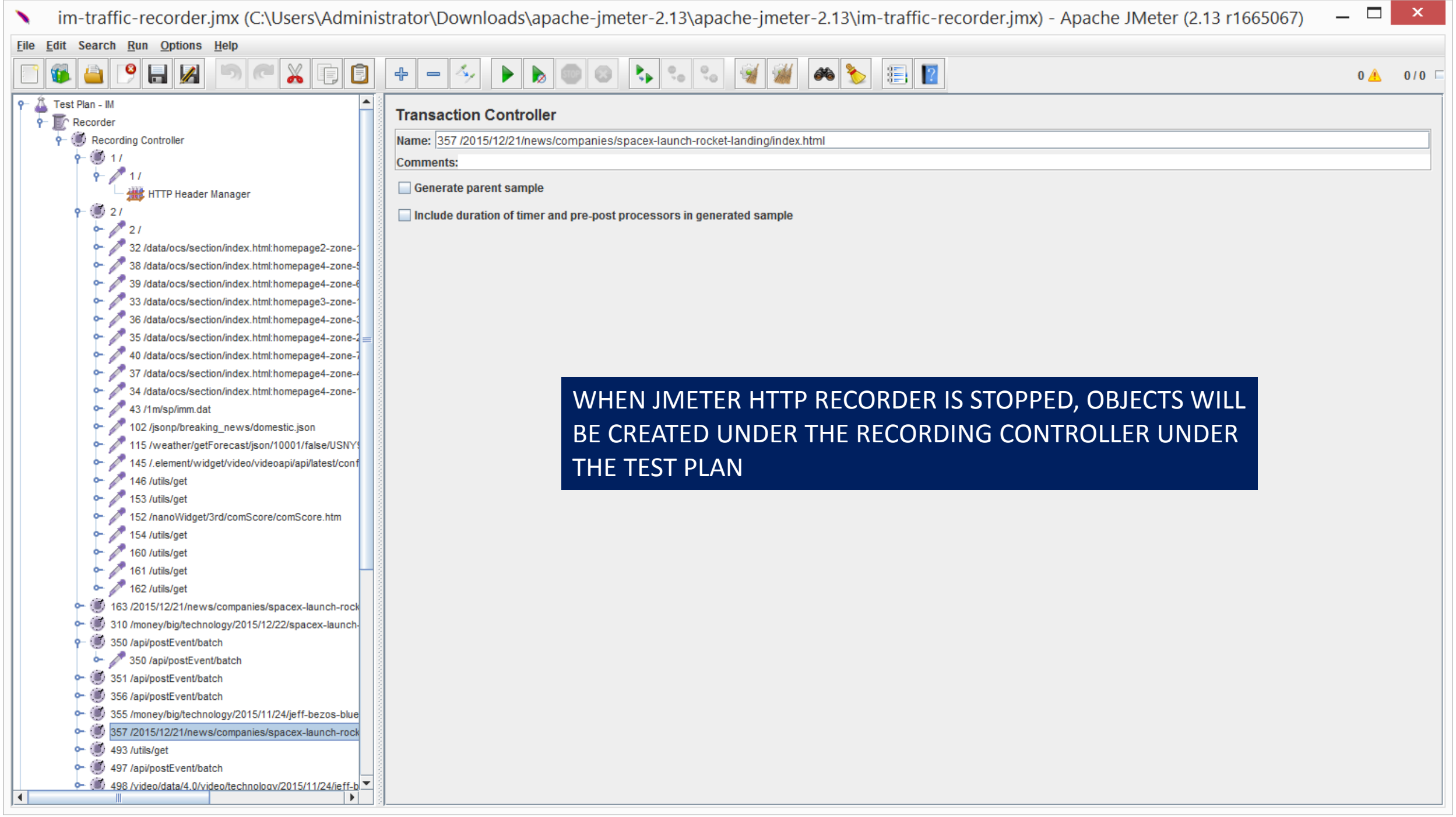
Text

[22 /.a/1.229.0/assets/logo_cnn_arabic.png]
[17 /.a/1.229.0/assets/logo_cnn_espaniol.png]
[16 /cnn/.element/img/4.0/logos/menu_politics.png]
[21 /cnn/.element/img/4.0/logos/menu_bleacher.png]
[20 /cnn/.element/img/4.0/logos/menu_money.png]
[19 /cnn/.element/img/4.0/logos/menu_style.png]
[23 /.a/fonts/cnn/2.3.0/990dea59-fcdd-461d-863d-3517e48e8ed0.w
[25 /.a/1.229.0/assets/logo_cnn_badge_2up.png]
[26 /.a/1.229.0/assets/sprite-s1dced3ff2b.png]
32 /data/ocs/section/index.html:homepage2-zone-1/views/zones/co
38 /data/ocs/section/index.html:homepage4-zone-5/views/zones/co
39 /data/ocs/section/index.html:homepage4-zone-6/views/zones/co
33 /data/ocs/section/index.html:homepage3-zone-1/views/zones/co
36 /data/ocs/section/index.html:homepage4-zone-3/views/zones/co
[30 /.a/fonts/cnn/2.3.0/14ff6081-326d-4dae-b778-d7afa66166fc.wof
[27 /.a/fonts/icons/2.0.12/cnn-icons.woff]
35 /data/ocs/section/index.html:homepage4-zone-2/views/zones/co
40 /data/ocs/section/index.html:homepage4-zone-7/views/zones/co
37 /data/ocs/section/index.html:homepage4-zone-4/views/zones/co
34 /data/ocs/section/index.html:homepage4-zone-1/views/zones/co
43 /1m/sp/imm.dat
[41 /cnnnext/dam/assets/151221213052-heroin-in-america-new-ha
[31 /.a/fonts/cnn/2.3.0/2c056da8-4920-4e20-8c69-8a6b315458a9.w
[28 /.a/fonts/cnn/2.3.0/60be5c39-863e-40cb-9434-6ebafb62ab2b.w
[29 /.a/fonts/cnn/2.3.0/530dee22-e3c1-4e9f-bf62-c31d510d9656.wo
[45 /cnnnext/dam/assets/151218062231-cnnmoney-george-zimme
[46 /cnnnext/dam/assets/151221213052-heroin-in-america-new-ha
[42 /cnnnext/dam/assets/151221180421-isis-marching-overlay-tea
[44 /.a/fonts/cnn/2.3.0/8e9ee02b-f337-4f13-ad6c-969d6d6536c8.wo
[47 /cnnnext/dam/assets/151218152240-10-emerging-destinations
[48 /cnnnext/dam/assets/151111165556-symmetry-1-large-tease.jp
[50 /cnnnext/dam/assets/151221125702-slow-mo-guys-fire-breatin
[49 /cnnnext/dam/assets/150707065823-restricted-amanda-peters
[51 /cnnnext/dam/assets/151218152240-10-emerging-destinations
[52 /cnnnext/dam/assets/151111165556-symmetry-1-medium-teas
[53 /cnnnext/dam/assets/150707065823-restricted-amanda-peters
[54 /cnnnext/dam/assets/151221125702-slow-mo-guys-fire-breatin
[57 /cnnnext/dam/assets/150227093938-amy-schumer-fat-shamin
[55 /cnnnext/dam/assets/151017162331-sea-snake-washes-asho
[56 /cnnnext/dam/assets/151218014423-32000-accidentally-left-ap
[58 /cnnnext/dam/assets/150310171255-future-of-airliners-4-small
[59 /cnnnext/dam/assets/150423212044-maglev-train-2-large-169.
[60 /cnnnext/dam/assets/151220193858-indonesian-prodigy-gram
[61 /cnnnext/dam/assets/151221215453-space-x-rocket-launch-lar
[63 /cnnnext/dam/assets/151220073641-snl-republican-debate-ori

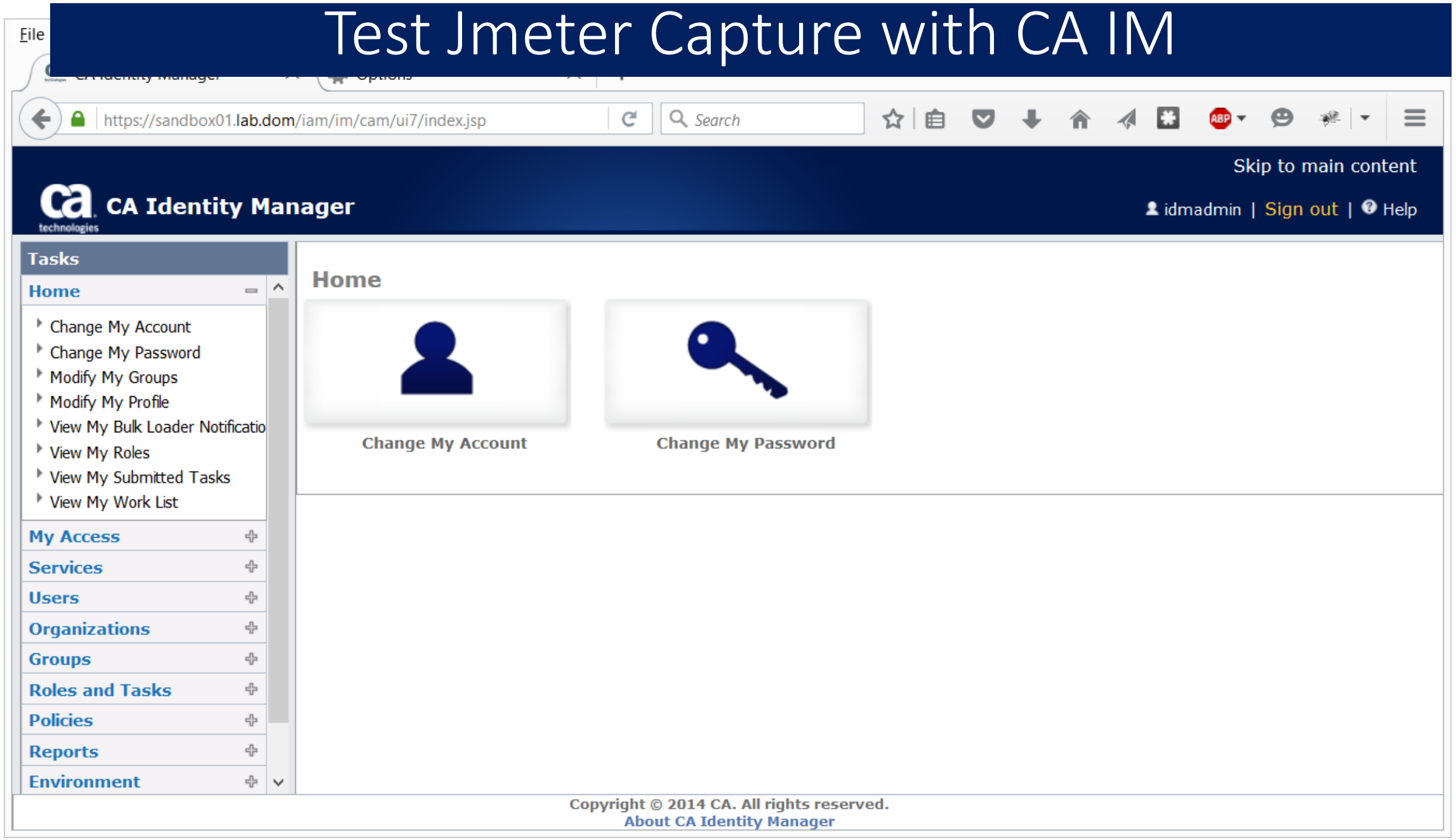
Scroll automatically?

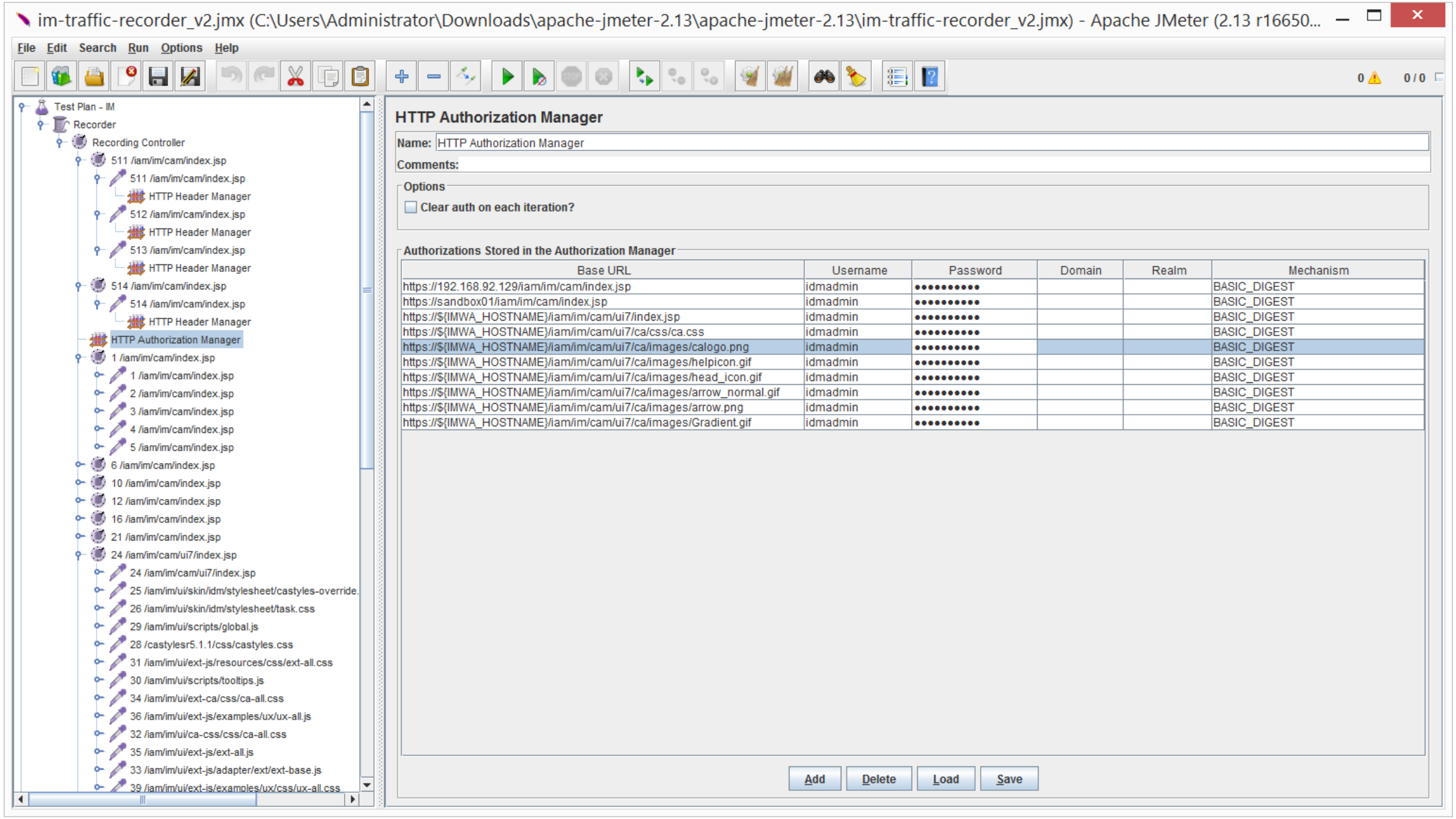
Sampler result | Request | Response data

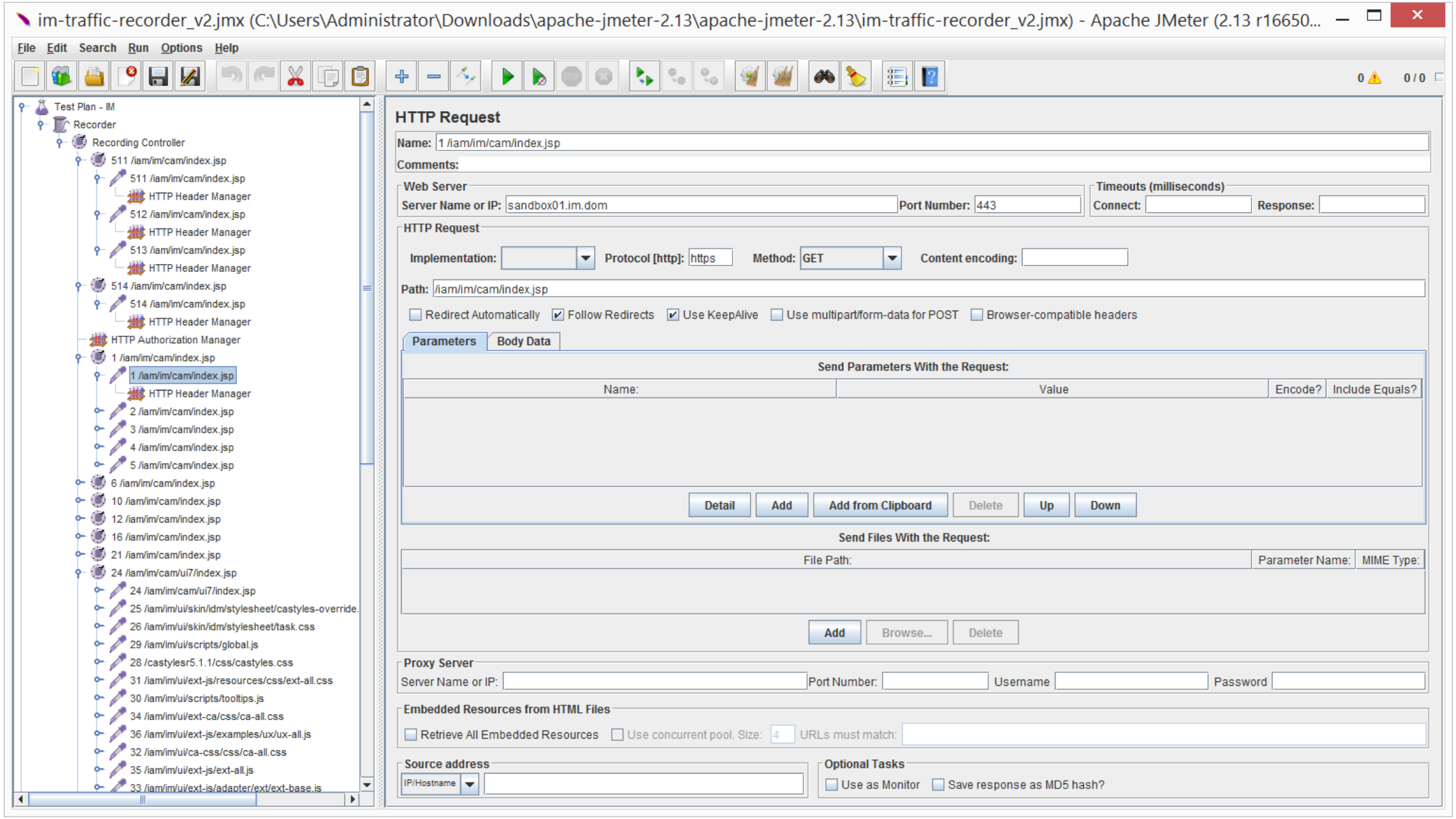
Search: | Find | Case sensitive | Regular exp.

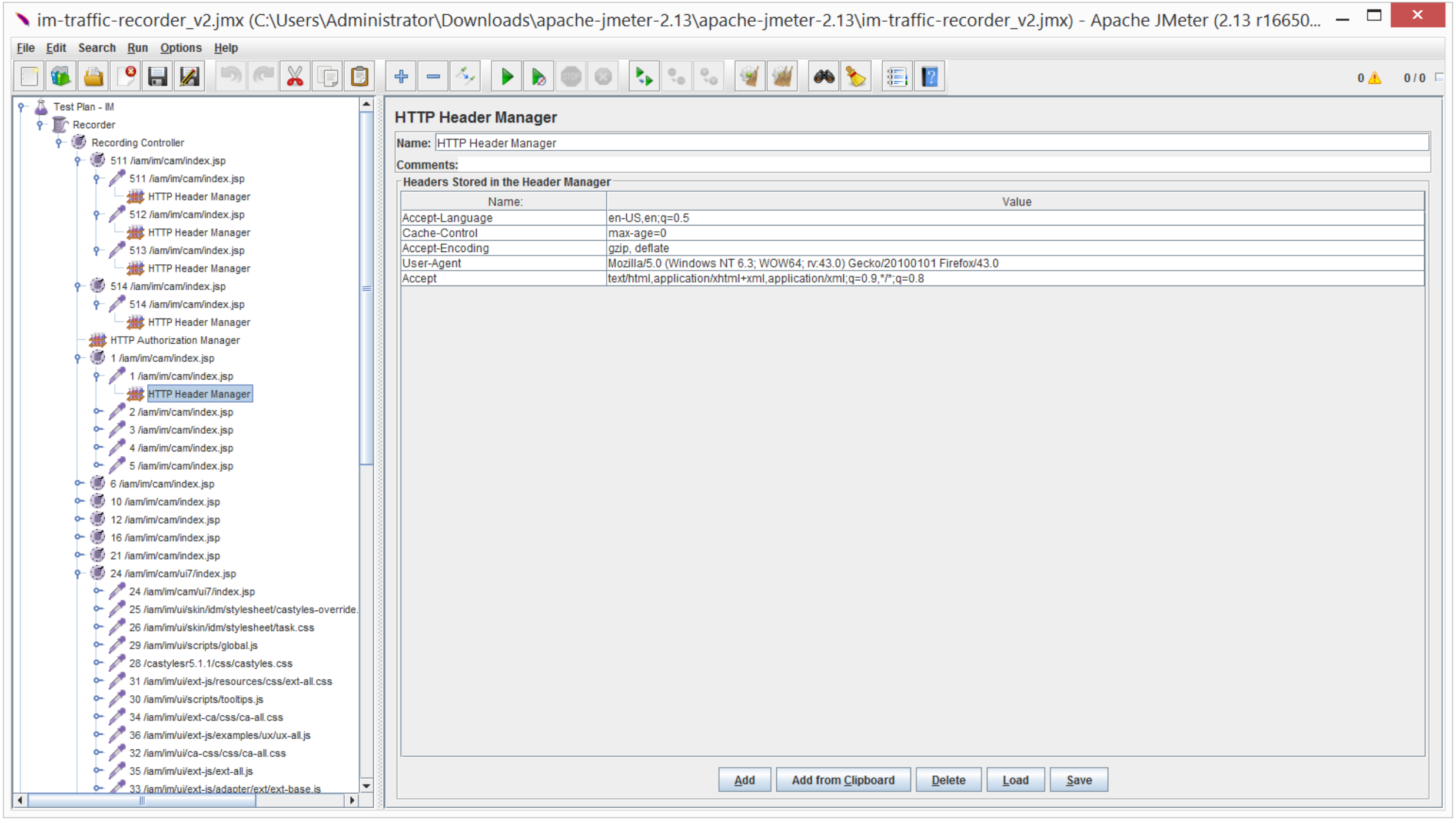

im-traffic-recorder.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder.jmx) - Apache JMeter (2.13 r1665067)
File Edit Search Run Options Help
Test Plan - IM
Recorder
Recording Controller
1 /
1 /
HTTP Header Manager
2 /
2 /
32 /data/ocs/section/index.html:homepage2-zone-
38 /data/ocs/section/index.html:homepage4-zone-
39 /data/ocs/section/index.html:homepage4-zone-
33 /data/ocs/section/index.html:homepage3-zone-
36 /data/ocs/section/index.html:homepage4-zone-
35 /data/ocs/section/index.html:homepage4-zone-
40 /data/ocs/section/index.html:homepage4-zone-
37 /data/ocs/section/index.html:homepage4-zone-
34 /data/ocs/section/index.html:homepage4-zone-
43 /1m/sp/imm.dat
102 /jsonp/breaking_news/domestic.json
115 /weather/getForecast/json/10001/false/USNY
145 /.element/widget/video/videoapi/api/latest/conf
146 /utils/get
153 /utils/get
152 /nanoWidget/3rd/comScore/comScore.htm
154 /utils/get
160 /utils/get
161 /utils/get
162 /utils/get
163 /2015/12/21/news/companies/spacex-launch-rock
310 /money/big/technology/2015/12/22/spacex-launch-
350 /api/postEvent/batch
350 /api/postEvent/batch
351 /api/postEvent/batch
356 /api/postEvent/batch
355 /money/big/technology/2015/11/24/jeff-bezos-blue
357 /2015/12/21/news/companies/spacex-launch-rock
493 /utils/get
497 /api/postEvent/batch
498 /video/data/4.0/video/technology/2015/11/24/jeff-b
0
0 / 0
Transaction Controller
Name: 357 /2015/12/21/news/companies/spacex-launch-rocket-landing/index.html
Comments:
Generate parent sample
Include duration of timer and pre-post processors in generated sample
WHEN JMETER HTTP RECORDER IS STOPPED, OBJECTS WILL BE CREATED UNDER THE RECORDING CONTROLLER UNDER THE TEST PLAN

Test Jmeter Capture with CA IM




im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
0 0 / 0
Test Plan - IM
Recorder
Recording Controller
511 /iam/im/cam/index.jsp
511 /iam/im/cam/index.jsp
HTTP Header Manager
512 /iam/im/cam/index.jsp
HTTP Header Manager
513 /iam/im/cam/index.jsp
HTTP Header Manager
514 /iam/im/cam/index.jsp
514 /iam/im/cam/index.jsp
HTTP Header Manager
HTTP Authorization Manager
1 /iam/im/cam/index.jsp
1 /iam/im/cam/index.jsp
2 /iam/im/cam/index.jsp
3 /iam/im/cam/index.jsp
4 /iam/im/cam/index.jsp
5 /iam/im/cam/index.jsp
6 /iam/im/cam/index.jsp
10 /iam/im/cam/index.jsp
12 /iam/im/cam/index.jsp
16 /iam/im/cam/index.jsp
21 /iam/im/cam/index.jsp
24 /iam/im/cam/ui7/index.jsp
24 /iam/im/cam/ui7/index.jsp
25 /iam/im/ui/skin/idm/stylesheet/castyles-override.
26 /iam/im/ui/skin/idm/stylesheet/task.css
29 /iam/im/ui/scripts/global.js
28 /castylesr5.1.1/css/castyles.css
31 /iam/im/ui/ext-js/resources/css/ext-all.css
30 /iam/im/ui/scripts/tooltips.js
34 /iam/im/ui/ext-ca/css/ca-all.css
36 /iam/im/ui/ext-js/examples/ux/ux-all.js
32 /iam/im/ui/ca-css/css/ca-all.css
35 /iam/im/ui/ext-js/ext-all.js
33 /iam/im/ui/ext-js/adapter/ext/ext-base.js
39 /iam/im/ui/ext-js/examples/ux/css/ux-all.css
HTTP Authorization Manager
Name: HTTP Authorization Manager
Comments:
Options
Clear auth on each iteration?
Authorizations Stored in the Authorization Manager
Base URL
Username
Password
Domain
Realm
Mechanism
https://192.168.92.129/iam/im/cam/index.jsp idmadmin •••••••••• BASIC_DIGEST
https://sandbox01/iam/im/cam/index.jsp idmadmin •••••••••• BASIC_DIGEST
https://${IMWA_HOSTNAME}/iam/im/cam/ui7/index.jsp idmadmin •••••••••• BASIC_DIGEST
https://${IMWA_HOSTNAME}/iam/im/cam/ui7/ca/css/ca.css idmadmin •••••••••• BASIC_DIGEST
https://${IMWA_HOSTNAME}/iam/im/cam/ui7/ca/images/calogo.png idmadmin •••••••••• BASIC_DIGEST
https://${IMWA_HOSTNAME}/iam/im/cam/ui7/ca/images/helpicon.gif idmadmin •••••••••• BASIC_DIGEST
https://${IMWA_HOSTNAME}/iam/im/cam/ui7/ca/images/head_icon.gif idmadmin •••••••••• BASIC_DIGEST
https://${IMWA_HOSTNAME}/iam/im/cam/ui7/ca/images/arrow_normal.gif idmadmin •••••••••• BASIC_DIGEST
https://${IMWA_HOSTNAME}/iam/im/cam/ui7/ca/images/arrow.png idmadmin •••••••••• BASIC_DIGEST
https://${IMWA_HOSTNAME}/iam/im/cam/ui7/ca/images/Gradient.gif idmadmin •••••••••• BASIC_DIGEST
Add
Delete
Load
Save


im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
0 0 / 0
Test Plan - IM
Recorder
Recording Controller
511 /iam/im/cam/index.jsp
511 /iam/im/cam/index.jsp
HTTP Header Manager
512 /iam/im/cam/index.jsp
HTTP Header Manager
513 /iam/im/cam/index.jsp
HTTP Header Manager
514 /iam/im/cam/index.jsp
514 /iam/im/cam/index.jsp
HTTP Header Manager
HTTP Authorization Manager
1 /iam/im/cam/index.jsp
1 /iam/im/cam/index.jsp
HTTP Header Manager
2 /iam/im/cam/index.jsp
3 /iam/im/cam/index.jsp
4 /iam/im/cam/index.jsp
5 /iam/im/cam/index.jsp
6 /iam/im/cam/index.jsp
10 /iam/im/cam/index.jsp
12 /iam/im/cam/index.jsp
16 /iam/im/cam/index.jsp
21 /iam/im/cam/index.jsp
24 /iam/im/cam/ui7/index.jsp
24 /iam/im/cam/ui7/index.jsp
25 /iam/im/ui/skin/idm/stylesheet/castyles-override.
26 /iam/im/ui/skin/idm/stylesheet/task.css
29 /iam/im/ui/scripts/global.js
28 /castylesr5.1.1/css/castyles.css
31 /iam/im/ui/ext-js/resources/css/ext-all.css
30 /iam/im/ui/scripts/tooltips.js
34 /iam/im/ui/ext-ca/css/ca-all.css
36 /iam/im/ui/ext-js/examples/ux/ux-all.js
32 /iam/im/ui/ca-css/css/ca-all.css
35 /iam/im/ui/ext-js/ext-all.js
33 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Request
Name: 1 /iam/im/cam/index.jsp
Comments:
Web Server
Server Name or IP: sandbox01.im.dom
Port Number: 443
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]: https
Method: GET
Content encoding:
Path: /iam/im/cam/index.jsp
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data for POST
Browser-compatible headers
Parameters
Body Data
Send Parameters With the Request:
Name:
Value
Encode?
Include Equals?
Detail
Add
Add from Clipboard
Delete
Up
Down
Send Files With the Request:
File Path:
Parameter Name:
MIME Type:
Add
Browse...
Delete
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size:
4
URLs must match:
Source address
IP/Hostname
Optional Tasks
Use as Monitor
Save response as MD5 hash?


im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
0 0 / 0
Test Plan - IM
Recorder
Recording Controller
511 /iam/im/cam/index.jsp
511 /iam/im/cam/index.jsp
HTTP Header Manager
512 /iam/im/cam/index.jsp
HTTP Header Manager
513 /iam/im/cam/index.jsp
HTTP Header Manager
514 /iam/im/cam/index.jsp
514 /iam/im/cam/index.jsp
HTTP Header Manager
HTTP Authorization Manager
1 /iam/im/cam/index.jsp
1 /iam/im/cam/index.jsp
HTTP Header Manager
2 /iam/im/cam/index.jsp
3 /iam/im/cam/index.jsp
4 /iam/im/cam/index.jsp
5 /iam/im/cam/index.jsp
6 /iam/im/cam/index.jsp
10 /iam/im/cam/index.jsp
12 /iam/im/cam/index.jsp
16 /iam/im/cam/index.jsp
21 /iam/im/cam/index.jsp
24 /iam/im/cam/ui7/index.jsp
24 /iam/im/cam/ui7/index.jsp
25 /iam/im/ui/skin/idm/stylesheet/castyles-override.
26 /iam/im/ui/skin/idm/stylesheet/task.css
29 /iam/im/ui/scripts/global.js
28 /castylesr5.1.1/css/castyles.css
31 /iam/im/ui/ext-js/resources/css/ext-all.css
30 /iam/im/ui/scripts/tooltips.js
34 /iam/im/ui/ext-ca/css/ca-all.css
36 /iam/im/ui/ext-js/examples/ux/ux-all.js
32 /iam/im/ui/ca-css/css/ca-all.css
35 /iam/im/ui/ext-js/ext-all.js
33 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Header Manager
Name: HTTP Header Manager
Comments:
Headers Stored in the Header Manager
Name: Value
Accept-Language en-US,en;q=0.5
Cache-Control max-age=0
Accept-Encoding gzip, deflate
User-Agent Mozilla/5.0 (Windows NT 6.3; WOW64; rv:43.0) Gecko/20100101 Firefox/43.0
Accept text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Add
Add from Clipboard
Delete
Load
Save

im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...

File Edit Search Run Options Help

0 0 / 0

- Test Plan - IM
  - Recorder
    - Recording Controller
      - 511 /iam/im/cam/index.jsp
        - 511 /iam/im/cam/index.jsp
          - HTTP Header Manager
        - 512 /iam/im/cam/index.jsp
          - HTTP Header Manager
        - 513 /iam/im/cam/index.jsp
          - HTTP Header Manager
      - 514 /iam/im/cam/index.jsp
        - 514 /iam/im/cam/index.jsp
          - HTTP Header Manager
      - HTTP Authorization Manager
      - 1 /iam/im/cam/index.jsp
        - 1 /iam/im/cam/index.jsp
          - HTTP Header Manager
        - 2 /iam/im/cam/index.jsp
          - HTTP Header Manager
        - 3 /iam/im/cam/index.jsp
        - 4 /iam/im/cam/index.jsp
        - 5 /iam/im/cam/index.jsp
      - 6 /iam/im/cam/index.jsp
      - 10 /iam/im/cam/index.jsp
      - 12 /iam/im/cam/index.jsp
      - 16 /iam/im/cam/index.jsp
      - 21 /iam/im/cam/index.jsp
      - 24 /iam/im/cam/ui7/index.jsp
        - 24 /iam/im/cam/ui7/index.jsp
          - HTTP Header Manager
        - 25 /iam/im/ui/skin/idm/stylesheet/castyles-override.
        - 26 /iam/im/ui/skin/idm/stylesheet/task.css
        - 29 /iam/im/ui/scripts/global.js
        - 28 /castylesr5.1.1/css/castyles.css
        - 31 /iam/im/ui/ext-js/resources/css/ext-all.css
        - 30 /iam/im/ui/scripts/tooltips.js
        - 34 /iam/im/ui/ext-ca/css/ca-all.css
        - 36 /iam/im/ui/ext-js/examples/ux/ux-all.js
        - 32 /iam/im/ui/ca-css/css/ca-all.css

HTTP Request

Name: 24 /iam/im/cam/ui7/index.jsp

Comments:

Web Server

Server Name or IP: ${IMWA_HOSTNAME} Port Number: 443

Timeouts (milliseconds)

Connect: Response:

HTTP Request

Implementation: Protocol [http]: https Method: GET Content encoding:

Path: /iam/im/cam/ui7/index.jsp

☐ Redirect Automatically ☑ Follow Redirects ☑ Use KeepAlive ☐ Use multipart/form-data for POST ☐ Browser-compatible headers

Parameters | Body Data

Send Parameters With the Request:

Name:	Value	Encode?	Include Equals?

Detail Add Add from Clipboard Delete Up Down

Send Files With the Request:

File Path:	Parameter Name:	MIME Type:

Add Browse... Delete

Proxy Server

Server Name or IP: Port Number: Username Password

Embedded Resources from HTML Files

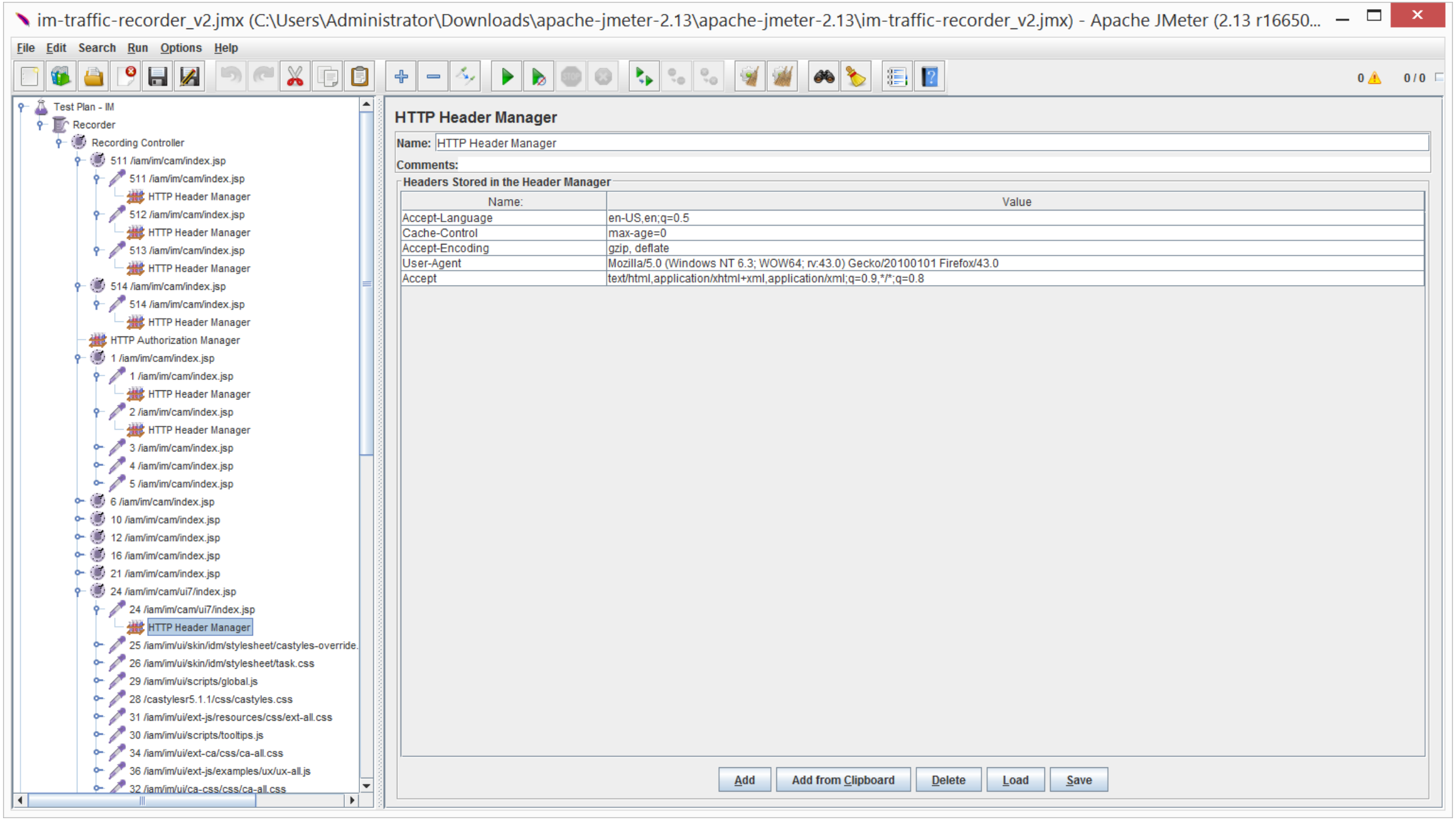
☐ Retrieve All Embedded Resources ☐ Use concurrent pool. Size: 4 URLs must match:

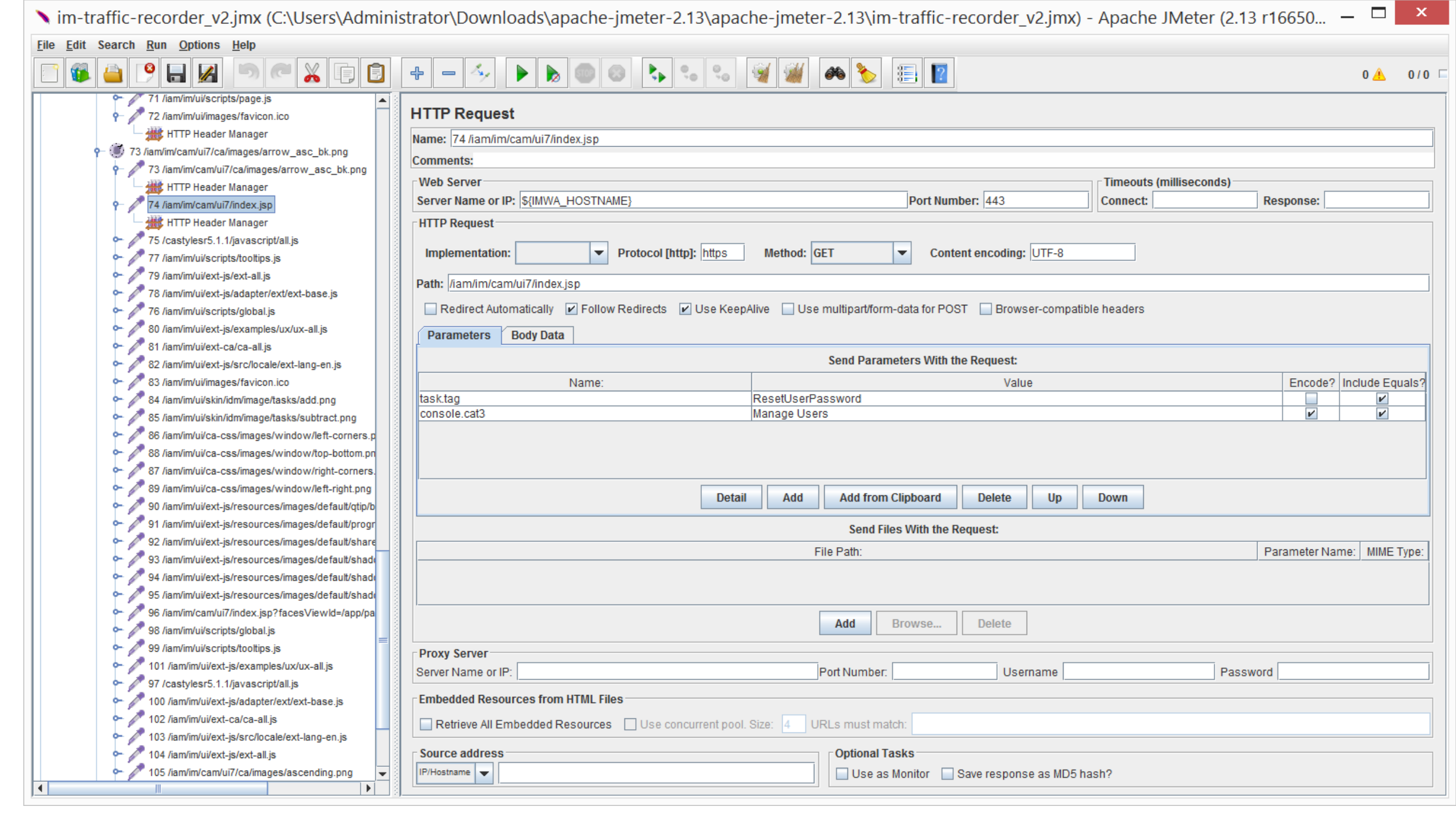
Source address

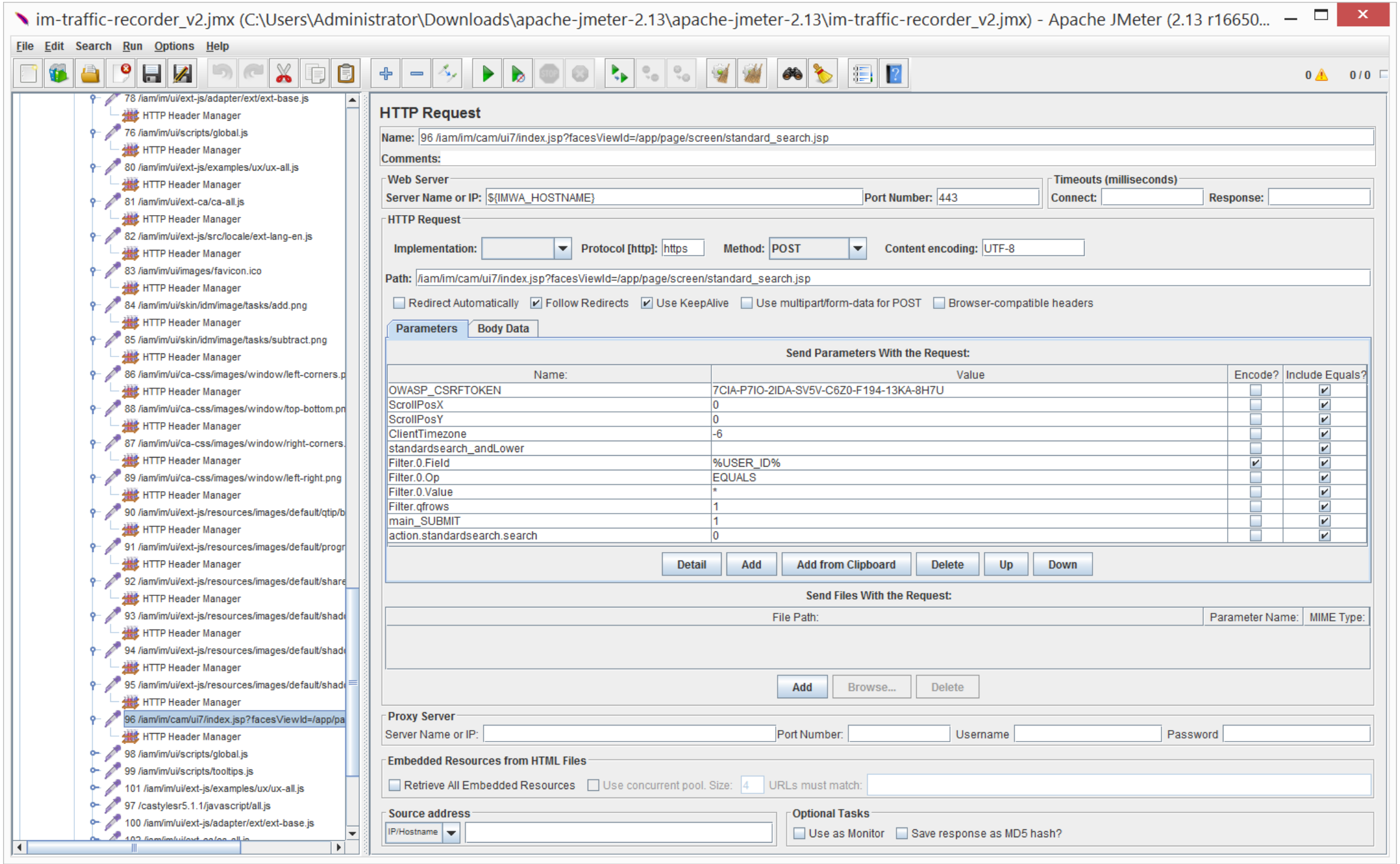
IP/Hostname

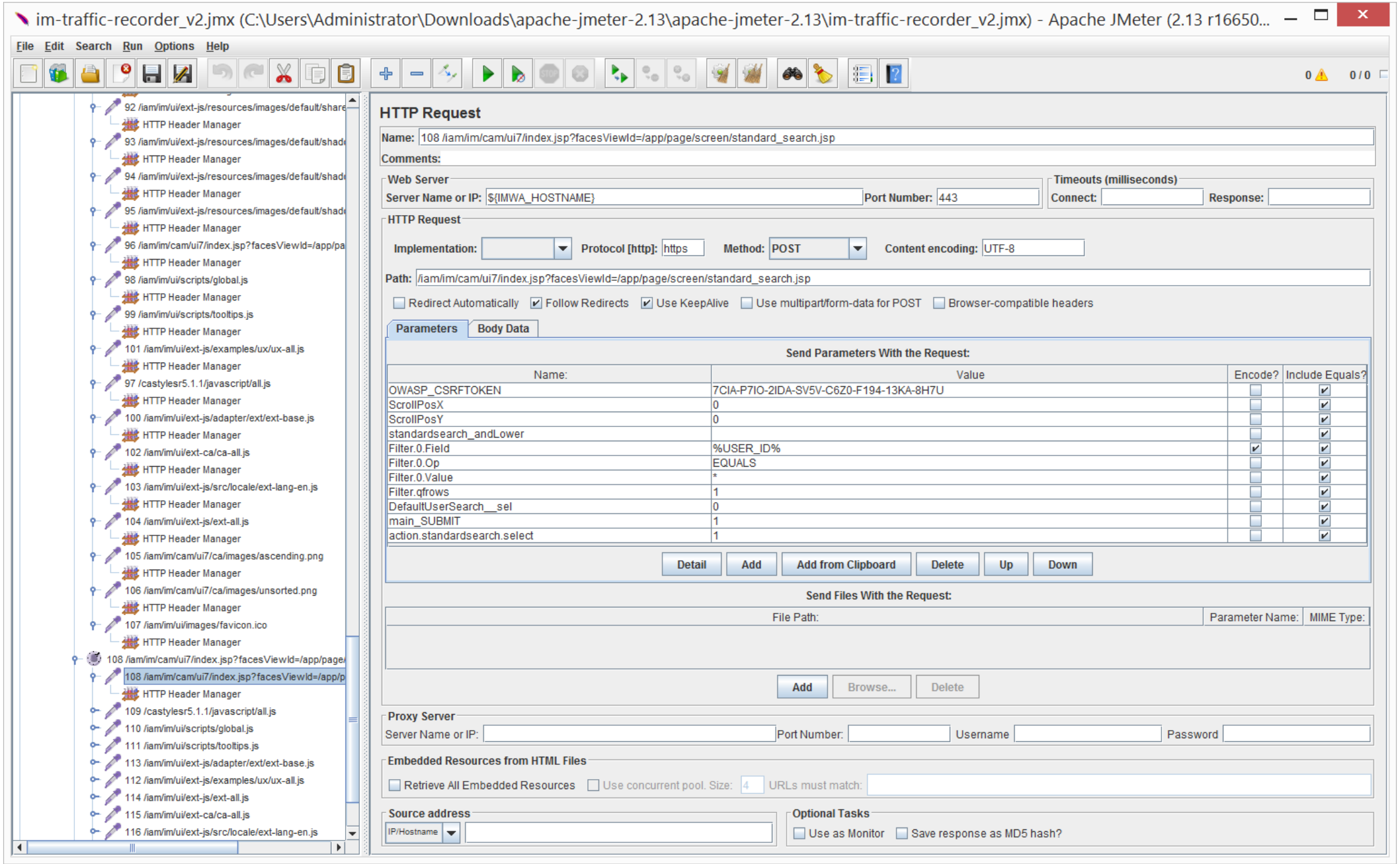
Optional Tasks

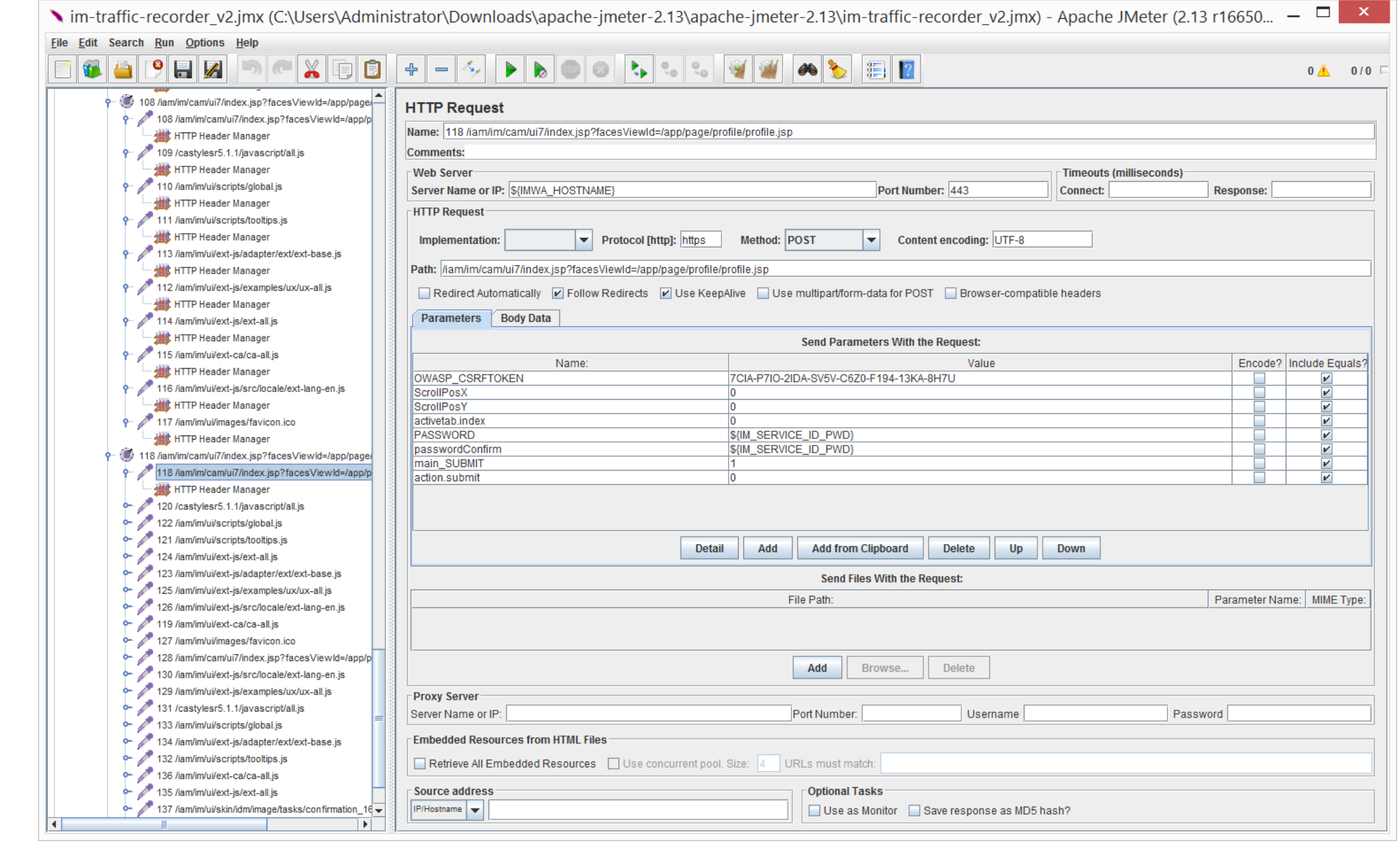
☐ Use as Monitor ☐ Save response as MD5 hash?

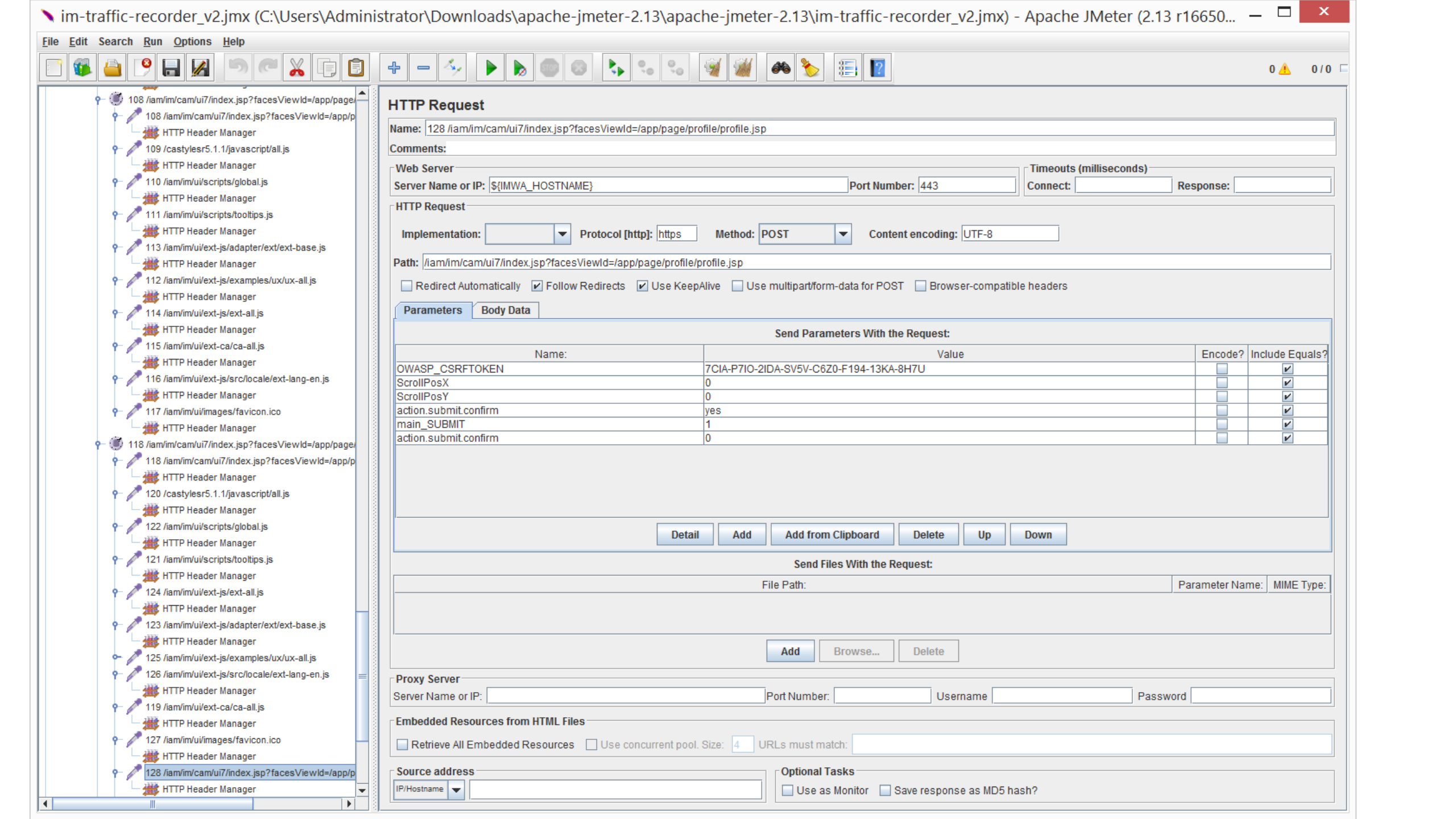

im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
0 0 / 0
Test Plan - IM
Recorder
Recording Controller
511 /iam/im/cam/index.jsp
511 /iam/im/cam/index.jsp
HTTP Header Manager
512 /iam/im/cam/index.jsp
HTTP Header Manager
513 /iam/im/cam/index.jsp
HTTP Header Manager
514 /iam/im/cam/index.jsp
514 /iam/im/cam/index.jsp
HTTP Header Manager
HTTP Authorization Manager
1 /iam/im/cam/index.jsp
1 /iam/im/cam/index.jsp
HTTP Header Manager
2 /iam/im/cam/index.jsp
HTTP Header Manager
3 /iam/im/cam/index.jsp
4 /iam/im/cam/index.jsp
5 /iam/im/cam/index.jsp
6 /iam/im/cam/index.jsp
10 /iam/im/cam/index.jsp
12 /iam/im/cam/index.jsp
16 /iam/im/cam/index.jsp
21 /iam/im/cam/index.jsp
24 /iam/im/cam/ui7/index.jsp
24 /iam/im/cam/ui7/index.jsp
HTTP Header Manager
25 /iam/im/ui/skin/idm/stylesheet/castyles-override.
26 /iam/im/ui/skin/idm/stylesheet/task.css
29 /iam/im/ui/scripts/global.js
28 /castylesr5.1.1/css/castyles.css
31 /iam/im/ui/ext-js/resources/css/ext-all.css
30 /iam/im/ui/scripts/tooltips.js
34 /iam/im/ui/ext-ca/css/ca-all.css
36 /iam/im/ui/ext-js/examples/ux/ux-all.js
32 /iam/im/ui/ca-css/css/ca-all.css
HTTP Header Manager
Name: HTTP Header Manager
Comments:
Headers Stored in the Header Manager
Name: Value
Accept-Language en-US,en;q=0.5
Cache-Control max-age=0
Accept-Encoding gzip, deflate
User-Agent Mozilla/5.0 (Windows NT 6.3; WOW64; rv:43.0) Gecko/20100101 Firefox/43.0
Accept text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Add
Add from Clipboard
Delete
Load
Save

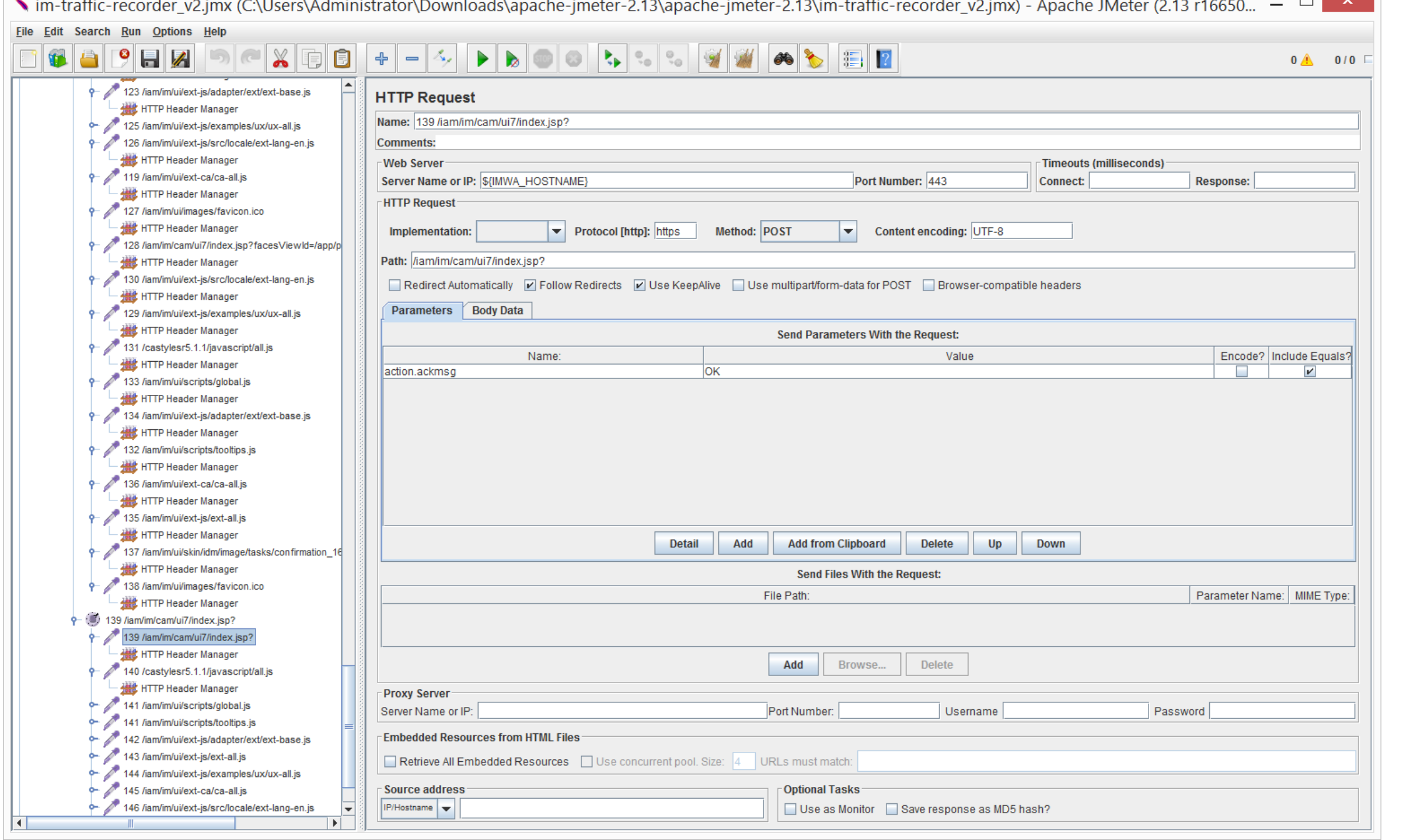

im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
0 0 / 0
71 /iam/im/ui/scripts/page.js
72 /iam/im/ui/images/favicon.ico
HTTP Header Manager
73 /iam/im/cam/ui7/ca/images/arrow_asc_bk.png
73 /iam/im/cam/ui7/ca/images/arrow_asc_bk.png
HTTP Header Manager
74 /iam/im/cam/ui7/index.jsp
HTTP Header Manager
75 /castylesr5.1.1/javascript/all.js
77 /iam/im/ui/scripts/tooltips.js
79 /iam/im/ui/ext-js/ext-all.js
78 /iam/im/ui/ext-js/adapter/ext/ext-base.js
76 /iam/im/ui/scripts/global.js
80 /iam/im/ui/ext-js/examples/ux/ux-all.js
81 /iam/im/ui/ext-ca/ca-all.js
82 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
83 /iam/im/ui/images/favicon.ico
84 /iam/im/ui/skin/idm/image/tasks/add.png
85 /iam/im/ui/skin/idm/image/tasks/subtract.png
86 /iam/im/ui/ca-css/images/window/left-corners.p
88 /iam/im/ui/ca-css/images/window/top-bottom.pn
87 /iam/im/ui/ca-css/images/window/right-corners.
89 /iam/im/ui/ca-css/images/window/left-right.png
90 /iam/im/ui/ext-js/resources/images/default/qtip/b
91 /iam/im/ui/ext-js/resources/images/default/progr
92 /iam/im/ui/ext-js/resources/images/default/share
93 /iam/im/ui/ext-js/resources/images/default/shad
94 /iam/im/ui/ext-js/resources/images/default/shad
95 /iam/im/ui/ext-js/resources/images/default/shad
96 /iam/im/cam/ui7/index.jsp?facesViewId=/app/pa
98 /iam/im/ui/scripts/global.js
99 /iam/im/ui/scripts/tooltips.js
101 /iam/im/ui/ext-js/examples/ux/ux-all.js
97 /castylesr5.1.1/javascript/all.js
100 /iam/im/ui/ext-js/adapter/ext/ext-base.js
102 /iam/im/ui/ext-ca/ca-all.js
103 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
104 /iam/im/ui/ext-js/ext-all.js
105 /iam/im/cam/ui7/ca/images/ascending.png
HTTP Request
Name: 74 /iam/im/cam/ui7/index.jsp
Comments:
Web Server
Server Name or IP: ${IMWA_HOSTNAME}
Port Number: 443
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]: https
Method: GET
Content encoding: UTF-8
Path: /iam/im/cam/ui7/index.jsp
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data for POST
Browser-compatible headers
Parameters
Body Data
Send Parameters With the Request:
Name:
Value
Encode?
Include Equals?
task.tag
ResetUserPassword
console.cat3
Manage Users
Detail
Add
Add from Clipboard
Delete
Up
Down
Send Files With the Request:
File Path:
Parameter Name:
MIME Type:
Add
Browse...
Delete
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size:
4
URLs must match:
Source address
IP/Hostname
Optional Tasks
Use as Monitor
Save response as MD5 hash?


im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
78 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Header Manager
76 /iam/im/ui/scripts/global.js
HTTP Header Manager
80 /iam/im/ui/ext-js/examples/ux/ux-all.js
HTTP Header Manager
81 /iam/im/ui/ext-ca/ca-all.js
HTTP Header Manager
82 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
HTTP Header Manager
83 /iam/im/ui/images/favicon.ico
HTTP Header Manager
84 /iam/im/ui/skin/idm/image/tasks/add.png
HTTP Header Manager
85 /iam/im/ui/skin/idm/image/tasks/subtract.png
HTTP Header Manager
86 /iam/im/ui/ca-css/images/window/left-corners.p
HTTP Header Manager
88 /iam/im/ui/ca-css/images/window/top-bottom.pn
HTTP Header Manager
87 /iam/im/ui/ca-css/images/window/right-corners.
HTTP Header Manager
89 /iam/im/ui/ca-css/images/window/left-right.png
HTTP Header Manager
90 /iam/im/ui/ext-js/resources/images/default/qtip/b
HTTP Header Manager
91 /iam/im/ui/ext-js/resources/images/default/progr
HTTP Header Manager
92 /iam/im/ui/ext-js/resources/images/default/share
HTTP Header Manager
93 /iam/im/ui/ext-js/resources/images/default/shad
HTTP Header Manager
94 /iam/im/ui/ext-js/resources/images/default/shad
HTTP Header Manager
95 /iam/im/ui/ext-js/resources/images/default/shad
HTTP Header Manager
96 /iam/im/cam/ui7/index.jsp?facesViewId=/app/pa
HTTP Header Manager
98 /iam/im/ui/scripts/global.js
99 /iam/im/ui/scripts/tooltips.js
101 /iam/im/ui/ext-js/examples/ux/ux-all.js
97 /castylesr5.1.1/javascript/all.js
100 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Request
Name: 96 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
Comments:
Web Server
Server Name or IP: ${IMWA_HOSTNAME}
Port Number: 443
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]: https
Method: POST
Content encoding: UTF-8
Path: /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data for POST
Browser-compatible headers
Parameters
Body Data
Send Parameters With the Request:
Name: | Value | Encode? | Include Equals?
OWASP_CSRFTOKEN | 7CIA-P7IO-2IDA-SV5V-C6Z0-F194-13KA-8H7U
ScrollPosX | 0
ScrollPosY | 0
ClientTimezone | -6
standardsearch_andLower |
Filter.0.Field | %USER_ID%
Filter.0.Op | EQUALS
Filter.0.Value | *
Filter.qfrows | 1
main_SUBMIT | 1
action.standardsearch.search | 0
Detail
Add
Add from Clipboard
Delete
Up
Down
Send Files With the Request:
File Path:
Parameter Name:
MIME Type:
Add
Browse...
Delete
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size: 4
URLs must match:
Source address
IP/Hostname
Optional Tasks
Use as Monitor
Save response as MD5 hash?


im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
0 0 / 0
92 /iam/im/ui/ext-js/resources/images/default/share
HTTP Header Manager
93 /iam/im/ui/ext-js/resources/images/default/shad
HTTP Header Manager
94 /iam/im/ui/ext-js/resources/images/default/shad
HTTP Header Manager
95 /iam/im/ui/ext-js/resources/images/default/shad
HTTP Header Manager
96 /iam/im/cam/ui7/index.jsp?facesViewId=/app/pa
HTTP Header Manager
98 /iam/im/ui/scripts/global.js
HTTP Header Manager
99 /iam/im/ui/scripts/tooltips.js
HTTP Header Manager
101 /iam/im/ui/ext-js/examples/ux/ux-all.js
HTTP Header Manager
97 /castylesr5.1.1/javascript/all.js
HTTP Header Manager
100 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Header Manager
102 /iam/im/ui/ext-ca/ca-all.js
HTTP Header Manager
103 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
HTTP Header Manager
104 /iam/im/ui/ext-js/ext-all.js
HTTP Header Manager
105 /iam/im/cam/ui7/ca/images/ascending.png
HTTP Header Manager
106 /iam/im/cam/ui7/ca/images/unsorted.png
HTTP Header Manager
107 /iam/im/ui/images/favicon.ico
HTTP Header Manager
108 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page
108 /iam/im/cam/ui7/index.jsp?facesViewId=/app/p
HTTP Header Manager
109 /castylesr5.1.1/javascript/all.js
110 /iam/im/ui/scripts/global.js
111 /iam/im/ui/scripts/tooltips.js
113 /iam/im/ui/ext-js/adapter/ext/ext-base.js
112 /iam/im/ui/ext-js/examples/ux/ux-all.js
114 /iam/im/ui/ext-js/ext-all.js
115 /iam/im/ui/ext-ca/ca-all.js
116 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
HTTP Request
Name: 108 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
Comments:
Web Server
Server Name or IP: ${IMWA_HOSTNAME}
Port Number: 443
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]: https
Method: POST
Content encoding: UTF-8
Path: /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data for POST
Browser-compatible headers
Parameters
Body Data
Send Parameters With the Request:
Name: | Value | Encode? | Include Equals?
OWASP_CSRFTOKEN | 7CIA-P7IO-2IDA-SV5V-C6Z0-F194-13KA-8H7U
ScrollPosX | 0
ScrollPosY | 0
standardsearch_andLower |
Filter.0.Field | %USER_ID%
Filter.0.Op | EQUALS
Filter.0.Value | *
Filter.qfrows | 1
DefaultUserSearch__sel | 0
main_SUBMIT | 1
action.standardsearch.select | 1
Detail
Add
Add from Clipboard
Delete
Up
Down
Send Files With the Request:
File Path:
Parameter Name:
MIME Type:
Add
Browse...
Delete
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size: 4
URLs must match:
Source address
IP/Hostname
Optional Tasks
Use as Monitor
Save response as MD5 hash?


im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
108 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/
108 /iam/im/cam/ui7/index.jsp?facesViewId=/app/p
HTTP Header Manager
109 /castylesr5.1.1/javascript/all.js
HTTP Header Manager
110 /iam/im/ui/scripts/global.js
HTTP Header Manager
111 /iam/im/ui/scripts/tooltips.js
HTTP Header Manager
113 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Header Manager
112 /iam/im/ui/ext-js/examples/ux/ux-all.js
HTTP Header Manager
114 /iam/im/ui/ext-js/ext-all.js
HTTP Header Manager
115 /iam/im/ui/ext-ca/ca-all.js
HTTP Header Manager
116 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
HTTP Header Manager
117 /iam/im/ui/images/favicon.ico
HTTP Header Manager
118 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/
118 /iam/im/cam/ui7/index.jsp?facesViewId=/app/p
HTTP Header Manager
120 /castylesr5.1.1/javascript/all.js
122 /iam/im/ui/scripts/global.js
121 /iam/im/ui/scripts/tooltips.js
124 /iam/im/ui/ext-js/ext-all.js
123 /iam/im/ui/ext-js/adapter/ext/ext-base.js
125 /iam/im/ui/ext-js/examples/ux/ux-all.js
126 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
119 /iam/im/ui/ext-ca/ca-all.js
127 /iam/im/ui/images/favicon.ico
128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/p
130 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
129 /iam/im/ui/ext-js/examples/ux/ux-all.js
131 /castylesr5.1.1/javascript/all.js
133 /iam/im/ui/scripts/global.js
134 /iam/im/ui/ext-js/adapter/ext/ext-base.js
132 /iam/im/ui/scripts/tooltips.js
136 /iam/im/ui/ext-ca/ca-all.js
135 /iam/im/ui/ext-js/ext-all.js
137 /iam/im/ui/skin/idm/image/tasks/confirmation_16
0 0 / 0
HTTP Request
Name: 118 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profile.jsp
Comments:
Web Server
Server Name or IP: ${IMWA_HOSTNAME}
Port Number: 443
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]: https
Method: POST
Content encoding: UTF-8
Path: /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profile.jsp
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data for POST
Browser-compatible headers
Parameters
Body Data
Send Parameters With the Request:
Name:
Value
Encode?
Include Equals?
OWASP_CSRFTOKEN 7CIA-P7IO-2IDA-SV5V-C6Z0-F194-13KA-8H7U
ScrollPosX 0
ScrollPosY 0
activetab.index 0
PASSWORD ${IM_SERVICE_ID_PWD}
passwordConfirm ${IM_SERVICE_ID_PWD}
main_SUBMIT 1
action.submit 0
Detail
Add
Add from Clipboard
Delete
Up
Down
Send Files With the Request:
File Path:
Parameter Name:
MIME Type:
Add
Browse...
Delete
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size: 4
URLs must match:
Source address
IP/Hostname
Optional Tasks
Use as Monitor
Save response as MD5 hash?


im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
0 0 / 0
108 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/
108 /iam/im/cam/ui7/index.jsp?facesViewId=/app/p
HTTP Header Manager
109 /castylesr5.1.1/javascript/all.js
HTTP Header Manager
110 /iam/im/ui/scripts/global.js
HTTP Header Manager
111 /iam/im/ui/scripts/tooltips.js
HTTP Header Manager
113 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Header Manager
112 /iam/im/ui/ext-js/examples/ux/ux-all.js
HTTP Header Manager
114 /iam/im/ui/ext-js/ext-all.js
HTTP Header Manager
115 /iam/im/ui/ext-ca/ca-all.js
HTTP Header Manager
116 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
HTTP Header Manager
117 /iam/im/ui/images/favicon.ico
HTTP Header Manager
118 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/
118 /iam/im/cam/ui7/index.jsp?facesViewId=/app/p
HTTP Header Manager
120 /castylesr5.1.1/javascript/all.js
HTTP Header Manager
122 /iam/im/ui/scripts/global.js
HTTP Header Manager
121 /iam/im/ui/scripts/tooltips.js
HTTP Header Manager
124 /iam/im/ui/ext-js/ext-all.js
HTTP Header Manager
123 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Header Manager
125 /iam/im/ui/ext-js/examples/ux/ux-all.js
126 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
HTTP Header Manager
119 /iam/im/ui/ext-ca/ca-all.js
HTTP Header Manager
127 /iam/im/ui/images/favicon.ico
HTTP Header Manager
128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/p
HTTP Header Manager
HTTP Request
Name: 128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profile.jsp
Comments:
Web Server
Server Name or IP: ${IMWA_HOSTNAME}
Port Number: 443
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]: https
Method: POST
Content encoding: UTF-8
Path: /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profile.jsp
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data for POST
Browser-compatible headers
Parameters
Body Data
Send Parameters With the Request:
Name:
Value
Encode?
Include Equals?
OWASP_CSRFTOKEN 7CIA-P7IO-2IDA-SV5V-C6Z0-F194-13KA-8H7U
ScrollPosX 0
ScrollPosY 0
action.submit.confirm yes
main_SUBMIT 1
action.submit.confirm 0
Detail
Add
Add from Clipboard
Delete
Up
Down
Send Files With the Request:
File Path:
Parameter Name:
MIME Type:
Add
Browse...
Delete
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size: 4
URLs must match:
Source address
IP/Hostname
Optional Tasks
Use as Monitor
Save response as MD5 hash?


im-traffic-recorder_v2.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\im-traffic-recorder_v2.jmx) - Apache JMeter (2.13 r16650...
File Edit Search Run Options Help
123 /iam/im/ui/ext-js/adapter/ext/ext-base.js
HTTP Header Manager
125 /iam/im/ui/ext-js/examples/ux/ux-all.js
126 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
119 /iam/im/ui/ext-ca/ca-all.js
127 /iam/im/ui/images/favicon.ico
128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/p
130 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
129 /iam/im/ui/ext-js/examples/ux/ux-all.js
131 /castylesr5.1.1/javascript/all.js
133 /iam/im/ui/scripts/global.js
134 /iam/im/ui/ext-js/adapter/ext/ext-base.js
132 /iam/im/ui/scripts/tooltips.js
136 /iam/im/ui/ext-ca/ca-all.js
135 /iam/im/ui/ext-js/ext-all.js
137 /iam/im/ui/skin/idm/image/tasks/confirmation_16
138 /iam/im/ui/images/favicon.ico
139 /iam/im/cam/ui7/index.jsp?
139 /iam/im/cam/ui7/index.jsp?
140 /castylesr5.1.1/javascript/all.js
141 /iam/im/ui/scripts/global.js
141 /iam/im/ui/scripts/tooltips.js
142 /iam/im/ui/ext-js/adapter/ext/ext-base.js
143 /iam/im/ui/ext-js/ext-all.js
144 /iam/im/ui/ext-js/examples/ux/ux-all.js
145 /iam/im/ui/ext-ca/ca-all.js
146 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
0 0 / 0
HTTP Request
Name: 139 /iam/im/cam/ui7/index.jsp?
Comments:
Web Server
Server Name or IP: ${IMWA_HOSTNAME}
Port Number: 443
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]: https
Method: POST
Content encoding: UTF-8
Path: /iam/im/cam/ui7/index.jsp?
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data for POST
Browser-compatible headers
Parameters
Body Data
Send Parameters With the Request:
Name:
Value
Encode?
Include Equals?
action.ackmsg
OK
Detail
Add
Add from Clipboard
Delete
Up
Down
Send Files With the Request:
File Path:
Parameter Name:
MIME Type:
Add
Browse...
Delete
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size: 4
URLs must match:
Source address
IP/Hostname
Optional Tasks
Use as Monitor
Save response as MD5 hash?

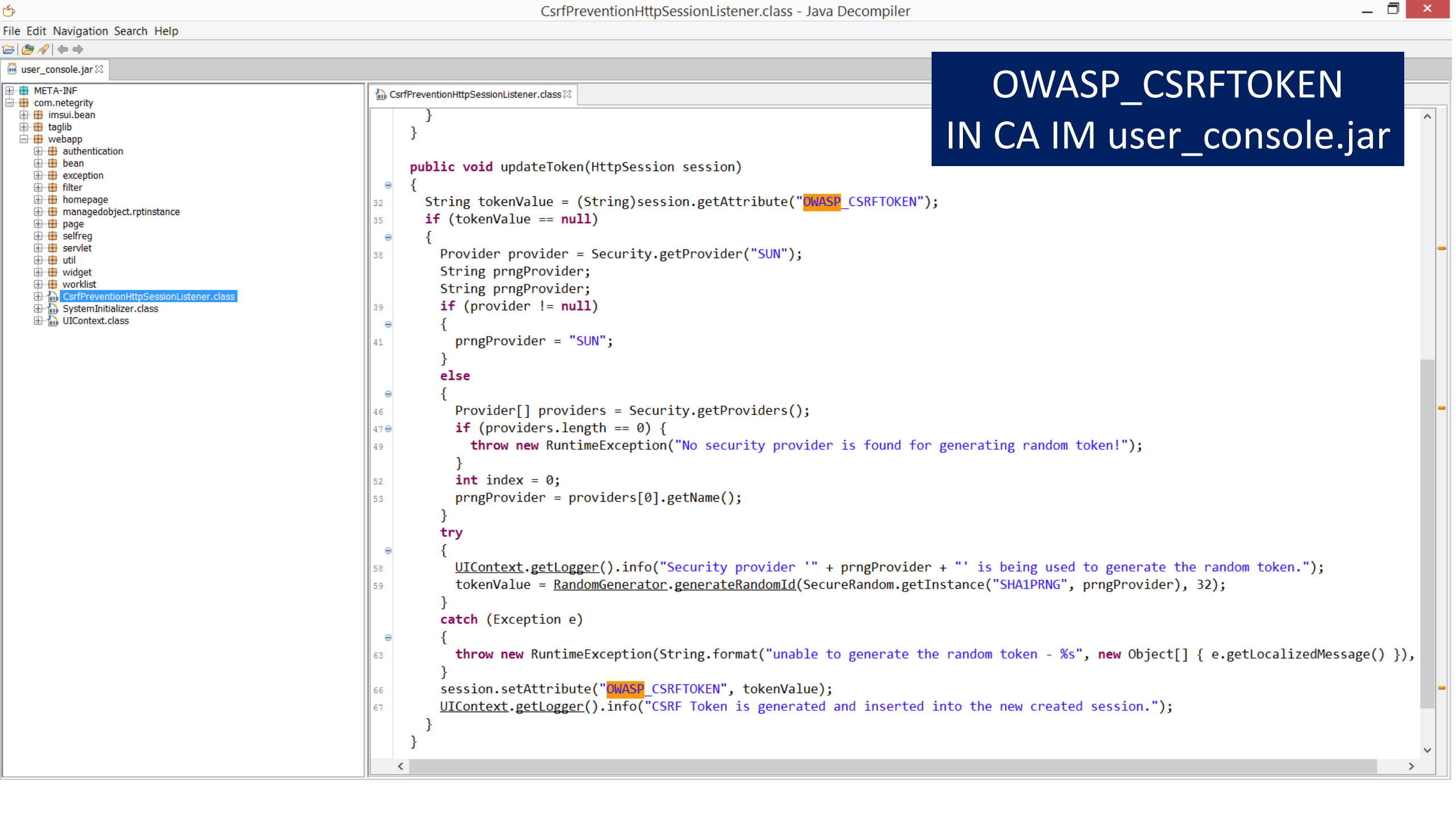
IDENTIFY JMETER CHALLENGE WITH CA IM'S OWASP_CSRFTOKEN

CA IM J2EE Logs display the following information about CSRF Token:

INFO [ims.ui] (http-/0.0.0.0:8080-43) Security provider 'SUN' is being used to generate the random token.

INFO [ims.ui] (http-/0.0.0.0:8080-43) CSRF Token is generated and inserted into the new created session.

ERROR [ims.ui] (http-/0.0.0.0:8080-43) Potential Cross Site Request Forgery Attack by performing task 'ResetUserPassword'. The token in the request does not match the one in the session!


CsrfPreventionHttpSessionListener.class - Java Decompiler
File Edit Navigation Search Help
user_console.jar
META-INF
com.netegrity
imsui.bean
taglib
webapp
authentication
bean
exception
filter
homepage
managedobject.rptinstance
page
selfreg
servlet
util
widget
worklist
CsrfPreventionHttpSessionListener.class
SystemInitializer.class
UIContext.class
CsrfPreventionHttpSessionListener.class
}
}
public void updateToken(HttpSession session)
{
32 String tokenValue = (String)session.getAttribute("OWASP_CSRFTOKEN");
35 if (tokenValue == null)
{
38 Provider provider = Security.getProvider("SUN");
String prngProvider;
String prngProvider;
39 if (provider != null)
{
41 prngProvider = "SUN";
}
else
{
46 Provider[] providers = Security.getProviders();
47 if (providers.length == 0) {
49 throw new RuntimeException("No security provider is found for generating random token!");
}
52 int index = 0;
53 prngProvider = providers[0].getName();
}
try
{
58 UIContext.getLogger().info("Security provider '" + prngProvider + "' is being used to generate the random token.");
59 tokenValue = RandomGenerator.generateRandomId(SecureRandom.getInstance("SHA1PRNG", prngProvider), 32);
}
catch (Exception e)
{
63 throw new RuntimeException(String.format("unable to generate the random token - %s", new Object[] { e.getLocalizedMessage() }),
}
66 session.setAttribute("OWASP_CSRFTOKEN", tokenValue);
67 UIContext.getLogger().info("CSRF Token is generated and inserted into the new created session.");
}
}
OWASP_CSRFTOKEN
IN CA IM user_console.jar

OWASP_CSRFTOKEN IN CA IM user_console.jar

TaskController.class - Java Decompiler

File Edit Navigation Search Help

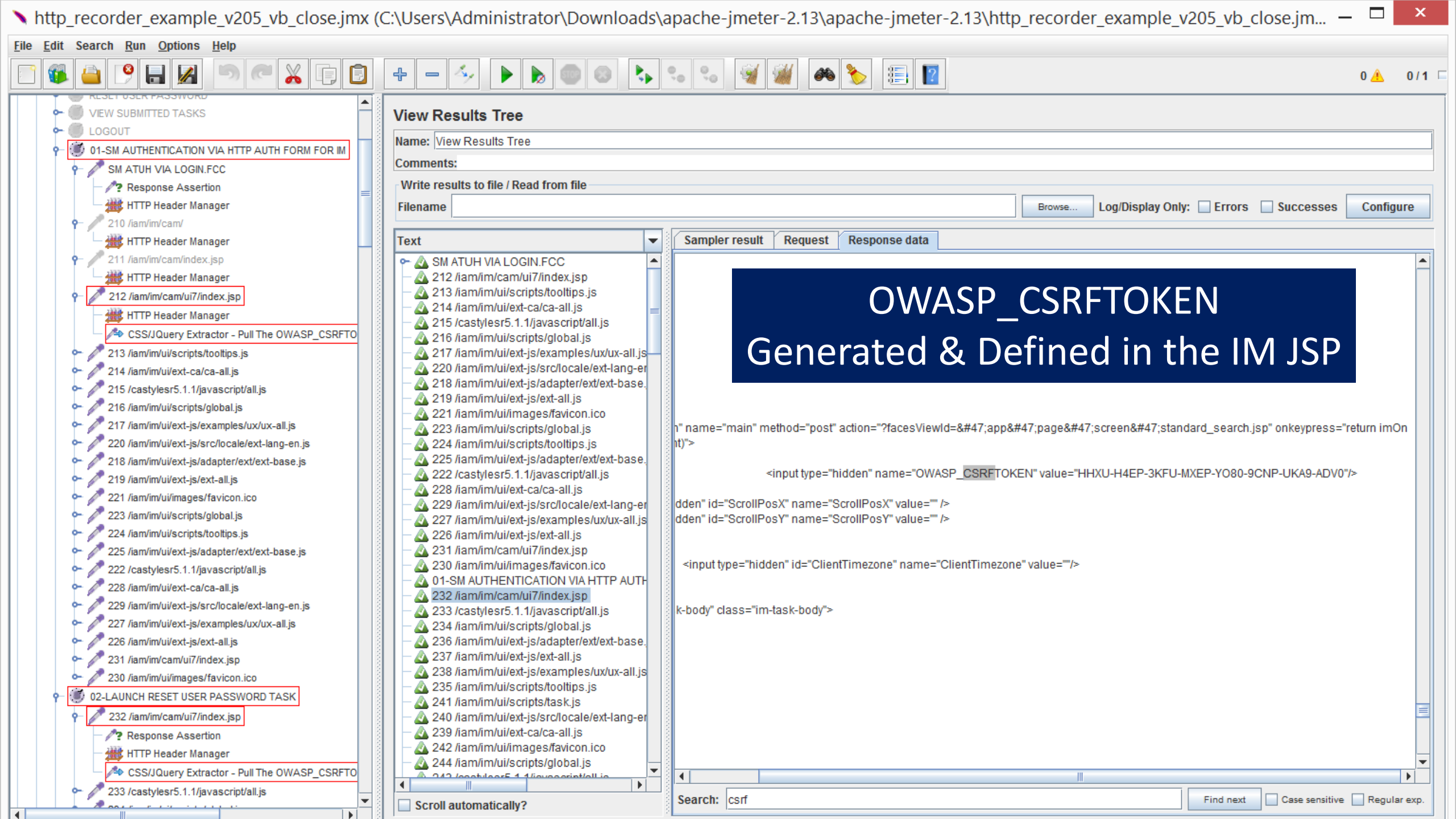
user_console.jar

- AbstractParentPage.class
- AbstractProfilePage.class
- AbstractScreenConfigPage.class
- AbstractSearchPage.class
- AbstractTabConfigPage.class
- AbstractTabPage.class
- ControllerAnalyticsHelper.class
- IAdminsTab.class
- IConfigPage.class
- IListPage.class
- INestingCallback.class
- IPage.class
- IParentPage.class
- IProfilePage.class
- IScreenConfigPage.class
- IScreenPage.class
- ISearchPage.class
- ITabConfigPage.class
- ITabPage.class
- NestingManager.class
- NestingWrapper.class
- RequestContext.class
- SearchPageContext.class
- SimpleCopyTabConfigPage.class
- SimpleNonvisualTabConfigPage.class
- SimpleVisualTabConfigPage.class
- StandardTabControllerConfigPage.class
- SubmitConfirmPage.class
- SubmitTaskPage.class
- SubmittedTasksTabConfigPage.class
- TabController.class
- TabPageContext.class
- TabSequenceTabController.class
- TabSequenceTabControllerConfigPage.class
- TaskController.class
  - TaskController
- TaskStatusPage.class
- WizardTabController.class
- selfreg
- servlet
- util
- widget
- worklist
- CsrfPreventionHttpSessionListener.class
  - CsrfPreventionHttpSessionListener
    - PRNG : String
    - SUN_PRNG_PROVIDER : String
    - TOKEN_LENGTH : int
    - TOKEN_NAME : String
    - CsrfPreventionHttpSessionListener()
    - sessionCreated(HttpSessionEvent) : void
    - sessionDestroyed(HttpSessionEvent) : void
    - updateToken(HttpSession) : void
- SystemInitializer.class
- UIContext.class

CsrfPreventionHttpSessionListener.class | helptopic.properties | BaseHandlerTag.class | TaskController.cla

```
  private boolean isTokenValid(HttpServletRequest request)
    throws Exception
  {
    if (UIContext.getUser(request) == null) {
      return true;
    }
    if (getTaskSession().getAttribute("ExternalTask") != null) {
      return true;
    }
    String[] tokenParameterValues = request.getParameterValues("OWASP_CSRFTOKEN");
    String taskName = getTaskSession().getTask().getTaskTag();
    if ((tokenParameterValues == null) || (tokenParameterValues.length == 0))
    {
      String errorMsg = "The required token is missing!";

      getTaskSession().addErrorObject(new TaskErrorObject(errorMsg, "", ProcessStep.DATAVALIDATE, ErrorLevel.ERROR, taskName));
      UIContext.getLogger().error("Potential Cross Site Request Forgery Attack by performing task '" + taskName + "'. " + errorMsg);
      return false;
    }
    String requestTokenValue = tokenParameterValues[0];

    String sessionTokenValue = (String)request.getSession().getAttribute("OWASP_CSRFTOKEN");
    if (!requestTokenValue.equals(sessionTokenValue))
    {
      String errorMsg = "The token in the request does not match the one in the session!";

      getTaskSession().addErrorObject(new TaskErrorObject(errorMsg, "", ProcessStep.DATAVALIDATE, ErrorLevel.ERROR, taskName));
      UIContext.getLogger().error("Potential Cross Site Request Forgery Attack by performing task '" + taskName + "'. " + errorMsg);
      return false;
    }
    return true;
  }

  public void taskSubmit(HttpServletRequest request)
    throws Exception
  {
```

Find: OWASP Next Previous Case sensitive


http_recorder_example_v205_vb_close.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v205_vb_close.jm...
File Edit Search Run Options Help
VIEW SUBMITTED TASKS
LOGOUT
01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM
SM ATUH VIA LOGIN.FCC
Response Assertion
HTTP Header Manager
210 /iam/im/cam/
HTTP Header Manager
211 /iam/im/cam/index.jsp
HTTP Header Manager
212 /iam/im/cam/ui7/index.jsp
HTTP Header Manager
CSS/JQuery Extractor - Pull The OWASP_CSRFTO
213 /iam/im/ui/scripts/tooltips.js
214 /iam/im/ui/ext-ca/ca-all.js
215 /castylesr5.1.1/javascript/all.js
216 /iam/im/ui/scripts/global.js
217 /iam/im/ui/ext-js/examples/ux/ux-all.js
220 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
218 /iam/im/ui/ext-js/adapter/ext/ext-base.js
219 /iam/im/ui/ext-js/ext-all.js
221 /iam/im/ui/images/favicon.ico
223 /iam/im/ui/scripts/global.js
224 /iam/im/ui/scripts/tooltips.js
225 /iam/im/ui/ext-js/adapter/ext/ext-base.js
222 /castylesr5.1.1/javascript/all.js
228 /iam/im/ui/ext-ca/ca-all.js
229 /iam/im/ui/ext-js/src/locale/ext-lang-en.js
227 /iam/im/ui/ext-js/examples/ux/ux-all.js
226 /iam/im/ui/ext-js/ext-all.js
231 /iam/im/cam/ui7/index.jsp
230 /iam/im/ui/images/favicon.ico
02-LAUNCH RESET USER PASSWORD TASK
232 /iam/im/cam/ui7/index.jsp
Response Assertion
HTTP Header Manager
CSS/JQuery Extractor - Pull The OWASP_CSRFTO
233 /castylesr5.1.1/javascript/all.js
View Results Tree
Name: View Results Tree
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only: Errors Successes
Configure
Text
SM ATUH VIA LOGIN.FCC
212 /iam/im/cam/ui7/index.jsp
213 /iam/im/ui/scripts/tooltips.js
214 /iam/im/ui/ext-ca/ca-all.js
215 /castylesr5.1.1/javascript/all.js
216 /iam/im/ui/scripts/global.js
217 /iam/im/ui/ext-js/examples/ux/ux-all.js
220 /iam/im/ui/ext-js/src/locale/ext-lang-en
218 /iam/im/ui/ext-js/adapter/ext/ext-base.
219 /iam/im/ui/ext-js/ext-all.js
221 /iam/im/ui/images/favicon.ico
223 /iam/im/ui/scripts/global.js
224 /iam/im/ui/scripts/tooltips.js
225 /iam/im/ui/ext-js/adapter/ext/ext-base.
222 /castylesr5.1.1/javascript/all.js
228 /iam/im/ui/ext-ca/ca-all.js
229 /iam/im/ui/ext-js/src/locale/ext-lang-en
227 /iam/im/ui/ext-js/examples/ux/ux-all.js
226 /iam/im/ui/ext-js/ext-all.js
231 /iam/im/cam/ui7/index.jsp
230 /iam/im/ui/images/favicon.ico
01-SM AUTHENTICATION VIA HTTP AUTH
232 /iam/im/cam/ui7/index.jsp
233 /castylesr5.1.1/javascript/all.js
234 /iam/im/ui/scripts/global.js
236 /iam/im/ui/ext-js/adapter/ext/ext-base.
237 /iam/im/ui/ext-js/ext-all.js
238 /iam/im/ui/ext-js/examples/ux/ux-all.js
235 /iam/im/ui/scripts/tooltips.js
241 /iam/im/ui/scripts/task.js
240 /iam/im/ui/ext-js/src/locale/ext-lang-en
239 /iam/im/ui/ext-ca/ca-all.js
242 /iam/im/ui/images/favicon.ico
244 /iam/im/ui/scripts/global.js
Scroll automatically?
Sampler result
Request
Response data
OWASP_CSRFTOKEN
Generated & Defined in the IM JSP
h" name="main" method="post" action="?facesViewId=/app/page/screen/standard_search.jsp" onkeypress="return imOn
ht)">
<input type="hidden" name="OWASP_CSRFTOKEN" value="HHXU-H4EP-3KFU-MXEP-YO80-9CNP-UKA9-ADV0"/>
dden" id="ScrollPosX" name="ScrollPosX" value="" />
dden" id="ScrollPosY" name="ScrollPosY" value="" />
<input type="hidden" id="ClientTimezone" name="ClientTimezone" value=""/>
k-body" class="im-task-body">
Search: csrf
Find next
Case sensitive
Regular exp.

https://blazemeter.com/blog/how-load-test-csrf-protected-web-sites

https://blazemeter.com/blog/how-load-test-csrf-protected-web-sites

Search

BlazeMeter

FEATURES PRICING WHY WE BLAZE BLOG SUPPORT SIGN IN STA

So let's add the View Results Tree listener to our recorded test plan and see the response details of the request before login.

Run the Recorded Scenario

Examples to pull the OWASP_CSRFTOKEN From pages returned by the IM JSP

1. Select the request before the actual login attempt (the failed one) in the View Results Tree listener
2. Switch to the "Response Data" tab - as this holds the actual server response
3. Type "csrf" into the "Search" input and click the "Find" button

Voila! We have a hidden input named "csrfmiddlewaretoken" and it looks like its value attribute is holding the dynamic CSRF token needed for a successful login.

<input type='hidden' name='csrfmiddlewaretoken' value='sTrKh7qgnuKtuNTkbwlyCv45W2sqOaiY' />

Now, based on the response nature, you can use the:

1. Regular Expression Extractor
2. XPath Extractor
3. CSS/JQuery Extractor
4. JSON Path Extractor (available via JMeter Plugins). Our article on the XPath Extractor covers the JSON Path as well.

I've listed below examples of the configurations of each of these PostProcessors.

Please note: in all cases, the 'Reference Name' is the name of the JMeter Variable where the extractor result will be stored. This name can be anything as long as it's meaningful. For example: if you set 'TOKEN' as the Reference Name, you'll be able to access this variable as ${TOKEN} later on in the script.

1. Regular Expression Extractor:
2. Apply to and Field to check: depends on where you expect the value to appear. In my case it's "Main Sample Only" and "Body"
3. Reference Name: REGEX_TOKEN
4. Regular Expression:

<input type='hidden' name='csrfmiddlewaretoken' value='(.+?)' />

stackoverflow.com/questions/27001134/unauthorized-csrf-validation-faile Search

3

CSRF stands for Cross-site request forgery and you're getting CSRF Validation error due to missing mandatory dynamic request parameter, usually a Cookie or a Header.

I would suggest executing your scenario in i.e. Firefox Browser with HttpFox or FireBug extension enabled and inspect request details. CSRF token usually comes as a cookie in server's response and needs to be passed as a header or request parameter. So it is similar to usual correlation. So the flow should look as follows:

1. First HTTP Request: open first page
2. Extract CSRF token from response via one of the following Post Processors
   - Regular Expression Extractor
   - XPath Extractor
   - CSS/JQuery Extractor
3. Second HTTP Request: open second page (CSRF-protected). Add the token, extracted in step 2 to one of the following:
   - HTTP Request Parameter
   - HTTP Header Manager
   - HTTP Cookie Manager

Depending on where your server expects the token to live.

For the future, looking at your "localhost" server name - don't run JMeter performance tests on the same machine where application lives.

share improve this answer

answered Nov 19 '14 at 7:46

Dmitri T

13.8k ● 1 ● 7 ● 15

Dmitri's Examples to pull the CSRF TOKEN

Three (3) ways to extract data

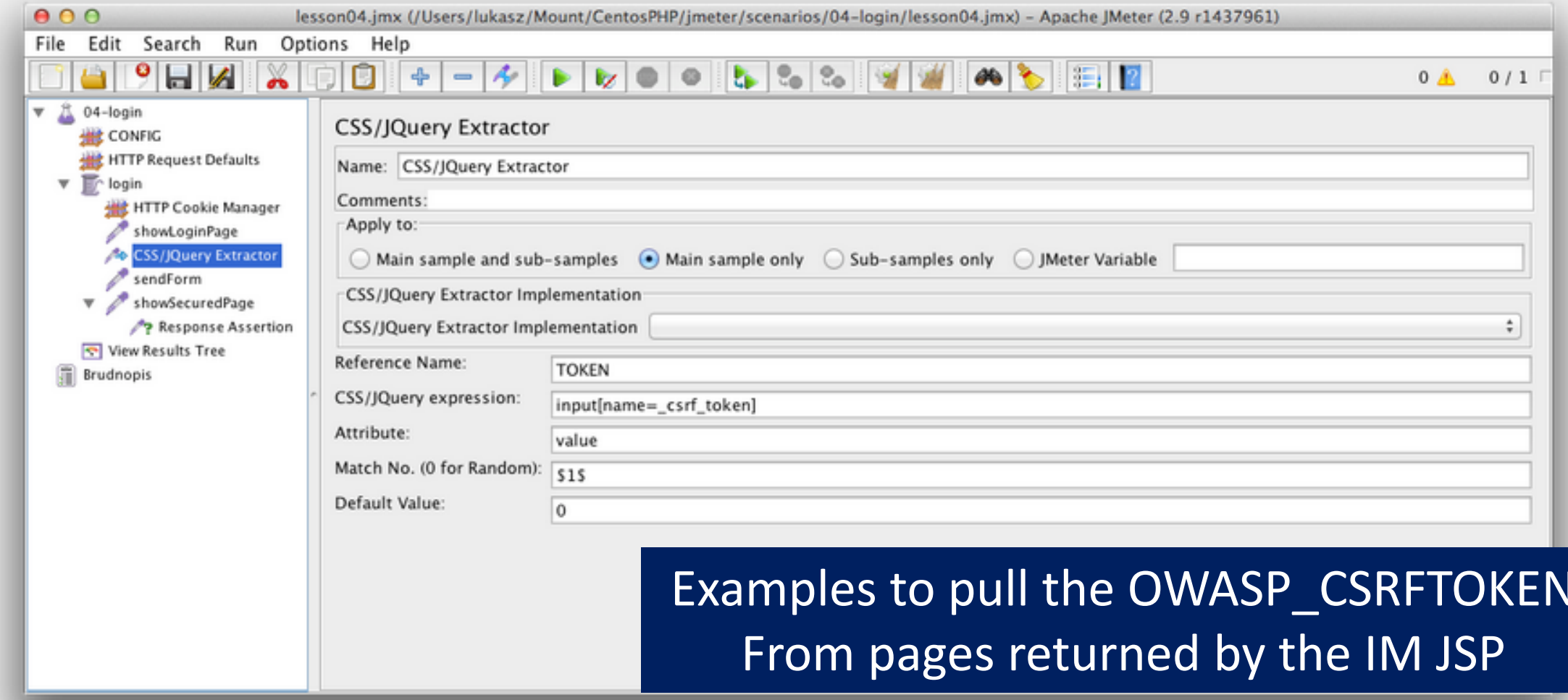
Regular Expression Extractor:

- Apply to and Field to check: depends on where you expect the value to appear.
  - Select “Main Sample Only” and “Body”
  - Reference Name: REGEX_OWASP_CSRF_TOKEN
  - Regular Expression:
    - <input type='hidden' name='OWASP_CSRFTOKEN' value='(.+?)' />
    - Template: 1
- XPath Extractor
  - If your response is not XML/XHTML compliant, check Use Tidy box
  - Reference Name: XPATH_OWASP_CSRF_TOKEN
  - XPath Query:
    - //input[@name='OWASP_CSRFTOKEN']/@value
- CSS/JQuery Extractor
  - Reference Name: CSS_OWASP_CSRF_TOKEN
  - CSS/JQuery Expression:
    - input[name=OWASP_CSRFTOKEN]
    - Attribute: value

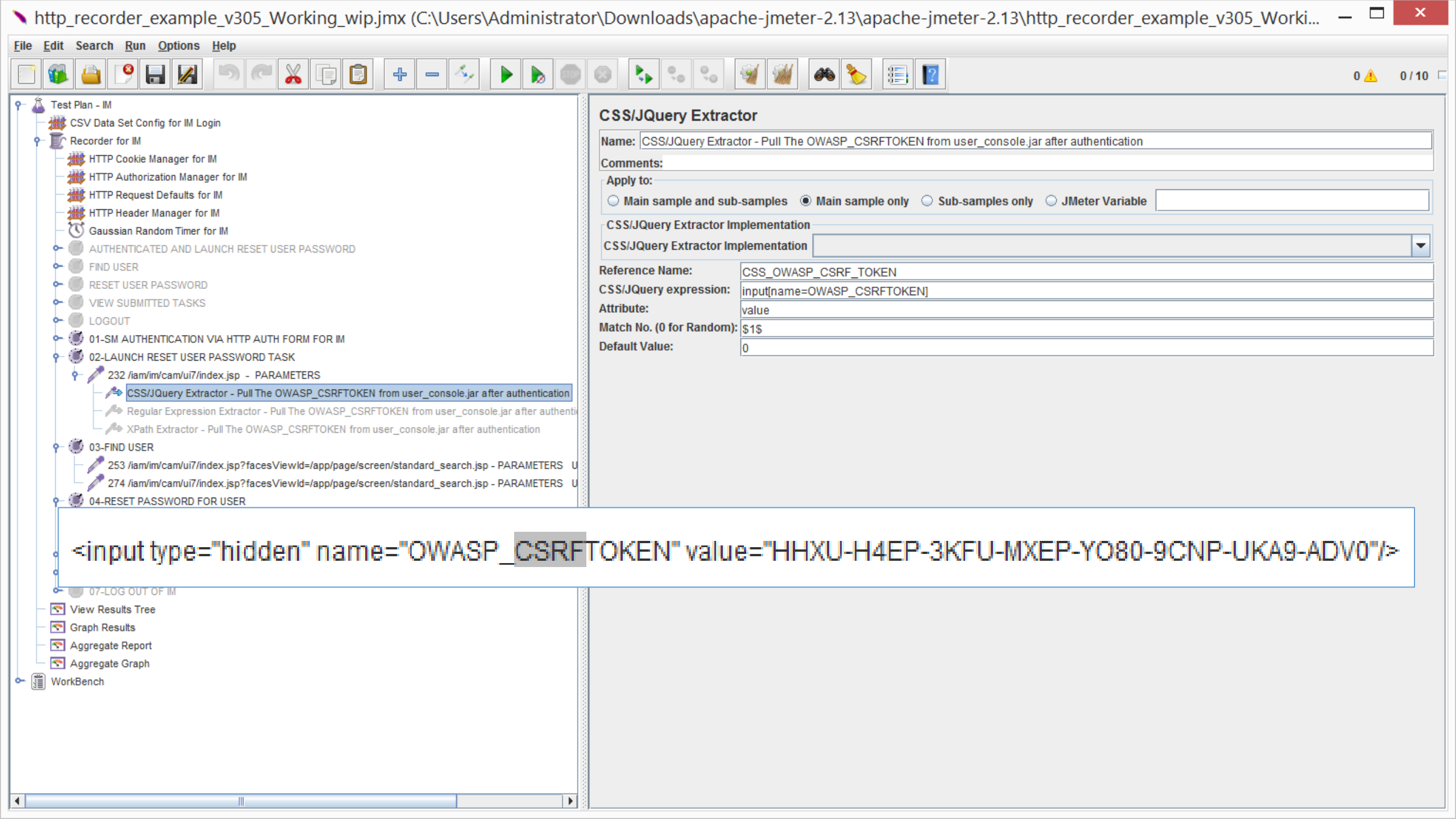
http://jmeter.apache.org/usermanual/component_reference.html#Regular_Expression_Extractor
https://blazemeter.com/blog/using-xpath-extractor-jmeter-0
http://jmeter.apache.org/usermanual/component_reference.html#CSS/JQuery_Extractor

http://hxtpoe.github.io/performanceTests/testing-login-using-jmeter.html

The value will be available in variable TOKEN (use ${TOKEN})



Examples to pull the OWASP_CSRFTOKEN
From pages returned by the IM JSP


http_recorder_example_v305_Working_wip.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v305_Worki...
File Edit Search Run Options Help
0 0 / 10
Test Plan - IM
CSV Data Set Config for IM Login
Recorder for IM
HTTP Cookie Manager for IM
HTTP Authorization Manager for IM
HTTP Request Defaults for IM
HTTP Header Manager for IM
Gaussian Random Timer for IM
AUTHENTICATED AND LAUNCH RESET USER PASSWORD
FIND USER
RESET USER PASSWORD
VIEW SUBMITTED TASKS
LOGOUT
01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM
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232 /iam/im/cam/ui7/index.jsp - PARAMETERS
CSS/JQuery Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after authentication
Regular Expression Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after authenti
XPath Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after authentication
03-FIND USER
253 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp - PARAMETERS U
274 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp - PARAMETERS U
04-RESET PASSWORD FOR USER
07-LOG OUT OF IM
View Results Tree
Graph Results
Aggregate Report
Aggregate Graph
WorkBench
CSS/JQuery Extractor
Name: CSS/JQuery Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after authentication
Comments:
Apply to:
Main sample and sub-samples
Main sample only
Sub-samples only
JMeter Variable
CSS/JQuery Extractor Implementation
CSS/JQuery Extractor Implementation
Reference Name: CSS_OWASP_CSRF_TOKEN
CSS/JQuery expression: input[name=OWASP_CSRFTOKEN]
Attribute: value
Match No. (0 for Random): 1
Default Value: 0
<input type="hidden" name="OWASP_CSRFTOKEN" value="HHXU-H4EP-3KFU-MXEP-YO80-9CNP-UKA9-ADV0"/>

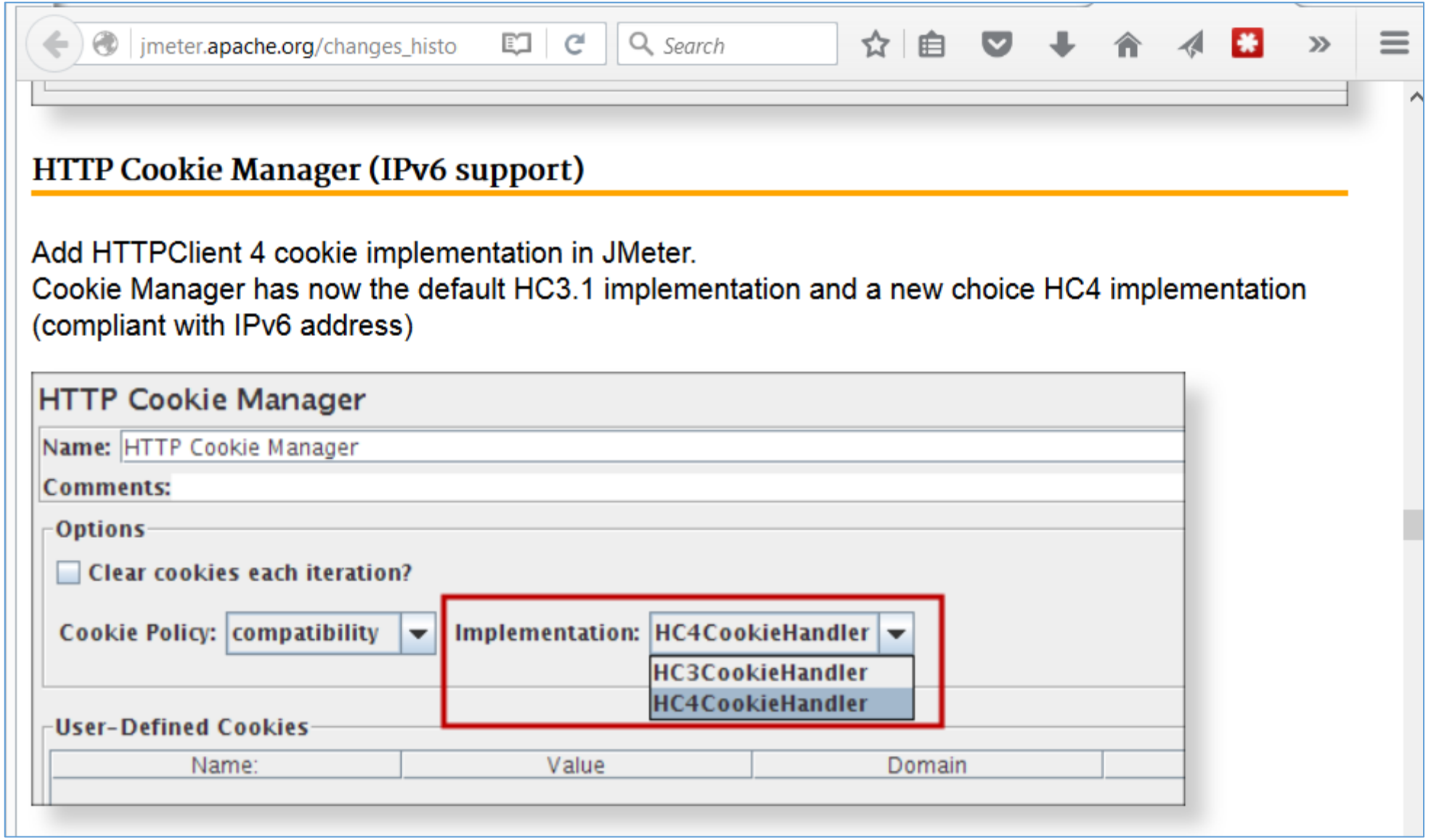
Supporting Information on Jmeter

- http://jmeter.apache.org/usermanual/functions.html
- http://hxtpoe.github.io/performanceTests/extract-information-from-response.html
- http://blog.wedoqa.com/2015/02/handling-csrf-prevention-tokens-dynamic-data-in-jmeter/
- https://blazemeter.com/blog/using-xpath-extractor-jmeter-0
- https://lincolnloop.com/blog/load-testing-jmeter-part-1-getting-started/
- https://blazemeter.com/blog/how-load-test-csrf-protected-web-sites

Supporting Slides for CA IM's Jmeter Test Plan

The following slides are not in any particular order, but were retained due to useful examples.

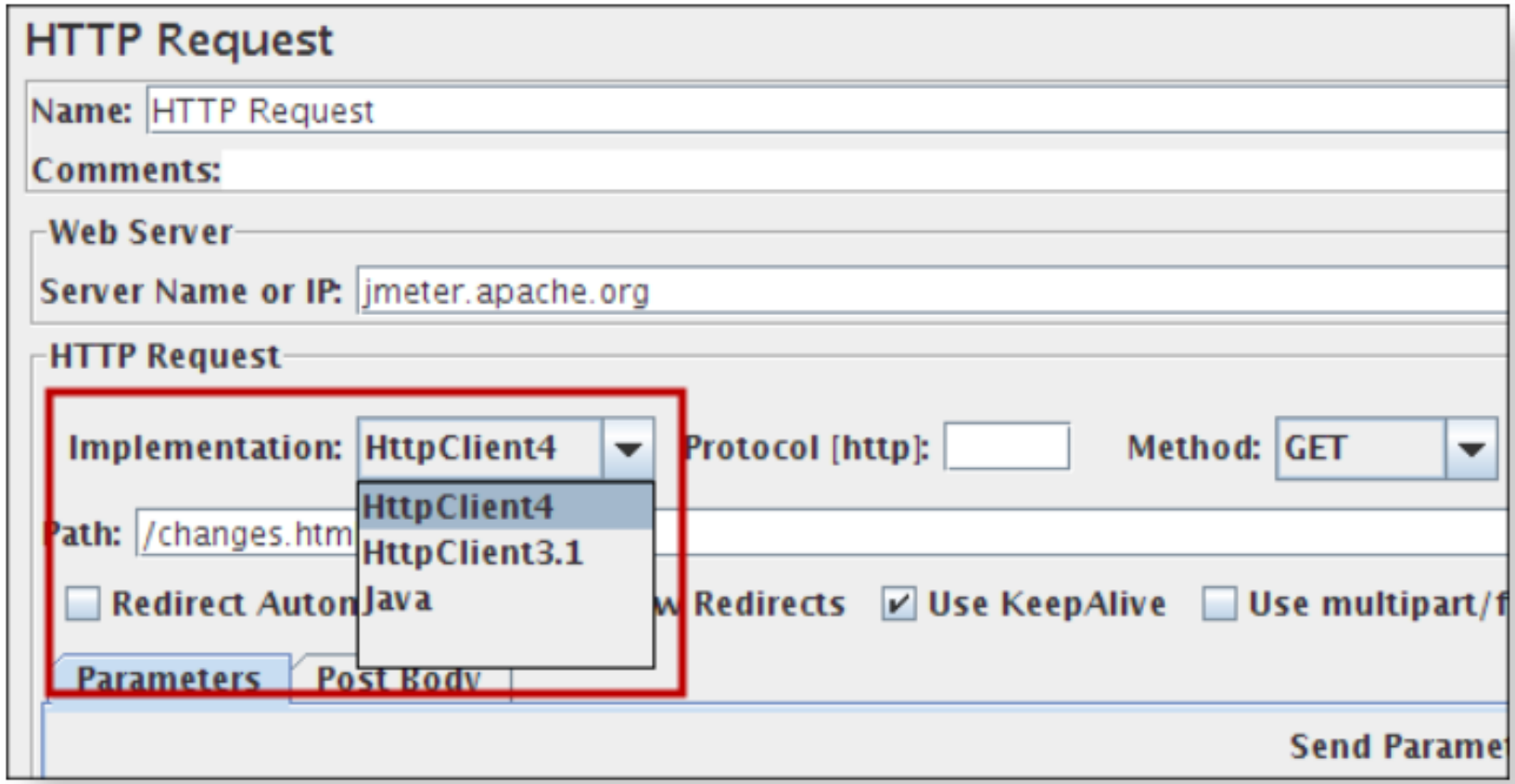
Use HC3CookieHandler for IPv4 (IM:SM)



Use new default of HttpClient4 for IM:SM

HTTP Request: HTTPClient 4 is now the default implementation

HTTPClient 4 is now the default HTTP Request implementation (and for Proxy element when generating HTTP requests).
Previously the default was the HTTP Java implementation (i.e. the implementation provided by the JVM)



File Edit View History Bookmarks Tools Help

CA Identity Manager : Vie... | Manage Reservation - 869... | Connecting... | How to Load Test CSRF-Pr... | Load Testing with JMeter: ... | Best Online XPath Tester /... | Best Online XPath Tester /...

https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/special/submitted_tasks_events.jsp

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CA Identity Manager

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  - Email
  - JDBC Connection Management
  - Logical Attributes
  - Select Box Data
  - Web Services
  - Bulk Loader
  - Cleanup Submitted Tasks
  - Configure Global Policy Based Wor
  - Delete Recurring Tasks
  - Secret Keys
  - View Submitted Tasks
  - Reporting

View Submitted Tasks

Description	Status	Priority	Initiated by	Submitted	Last Updated	Last Operation
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:40 AM	12/30/2015 4:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:39 AM	12/30/2015 4:39 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:38 AM	12/30/2015 4:38 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:35 AM	12/30/2015 4:35 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:27 AM	12/30/2015 4:27 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 12:35 AM	12/30/2015 12:35 AM	

Search Tasks | Refresh

Close

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About CA Identity Manager

http_recorder_example_v305_Working_wip.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v305_Working_wip.jmx) - Apache JMeter (2.13 r1665067)

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  - CSV Data Set Config for IM Login
  - Recorder for IM
    - HTTP Cookie Manager for IM
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    - 01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM
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    - 03-FIND USER
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    - 05-LAUNCH VIEW SUBMITTED TASKS
    - 06-SUBMITTED VST
    - 07-LOG OUT OF IM
    - 1 /iam/im/cam/ui7/index.jsp
  - View Results Tree
  - Graph Results
  - Aggregate Report
  - Aggregate Graph
- WorkBench
  - HTTP(S) Test Script Recorder for IM
    - View Results Tree

HTTP(S) Test Script Recorder

Name: HTTP(S) Test Script Recorder for IM

Comments:

Global Settings

Port: 8888 HTTPS Domains : lab.dom

Test plan content

Target Controller: Test Plan - IM > Recorder for IM

Grouping: Put each group in a new transaction controller ☑ Capture HTTP Headers ☑ Add Assertions ☑ Regex matching

HTTP Sampler settings

Type: HttpClient4 ☐ Redirect Automatically ☑ Follow Redirects ☑ Use KeepAlive ☐ Retrieve All Embedded Resources

Content-type filter

Include: Exclude:

URL Patterns to Include

URL Patterns to Include

Add Delete Add from Clipboard

URL Patterns to Exclude

URL Patterns to Exclude

Add Delete Add from Clipboard Add suggested Excludes

Notify Child Listeners of filtered samplers

☑ Notify Child Listeners of filtered samplers

Start Stop Restart

File Edit View History Bookmarks Tools Help

CA Identity Manager : Cre... | Options

https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp

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    - Modify User
    - Reset User Password
    - Enable/Disable User
    - Delete User
    - Create Online Request
    - View User
    - View User Activity
    - Manage Users
  - Manage Work Items
  - User Access Requests
- Organizations
- Groups
- Roles and Tasks
- Policies
- Reports
- Environment Administration
- System

Create User

Profile | Access Roles | Admin Roles | Groups

• = **Required**

•Organization	people Browse
•User ID	bugsbunny001
Password	••••••••••
Confirm Password	••••••••••
Password Must Change	☐
Enabled	☑
•First Name	Bugs
•Last Name	Bunny
•Full Name	Bugs Bunny
Email	
camInteger04	
camInteger03	
camInteger02	
camInteger01	
camInteger00	
camIdp	
Identity Policy	

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CA Identity Manager : Del... | Options

https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp

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    - Delete User
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    - View User
    - View User Activity
    - Manage Users
  - Manage Work Items
  - User Access Requests
- Organizations
- Groups
- Roles and Tasks
- Policies
- Reports
- Environment Administration
- System

Delete User: Select User

Delete the following?

1-1 of 1

User ID	Last Name	First Name	Organization Name
bugsbunny001	Bunny	Bugs	people

1-1 of 1

Yes No Cancel

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About CA Identity Manager

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CA Identity Manager : Vie... | Options

https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/special/submitted_tasks.jsp

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CA Identity Manager

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Tasks

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- Environment Administration
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  - Email
  - JDBC Connection Management
  - Logical Attributes
  - Select Box Data
  - Web Services
  - Bulk Loader
  - Cleanup Submitted Tasks
  - Configure Global Policy Based Wor
  - Delete Recurring Tasks
  - Secret Keys
  - View Submitted Tasks
  - Reporting

View Submitted Tasks

1-50 of 100 › »

Description	Status	Priority	Initiated by	Submitted	Last Updated	Last Operation
Delete User task, User bugsbunny001	Completed	Medium	idmadmin	12/30/2015 5:41 AM	12/30/2015 5:41 AM	
Create User task, User bugsbunny001	Completed	Medium	idmadmin	12/30/2015 5:40 AM	12/30/2015 5:40 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
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Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:11 AM	12/30/2015 5:11 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 5:10 AM	12/30/2015 5:10 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:58 AM	12/30/2015 4:58 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:58 AM	12/30/2015 4:58 AM	
Reset User Password task, User bob02	Completed	Medium	idmadmin	12/30/2015 4:58 AM	12/30/2015 4:58 AM	

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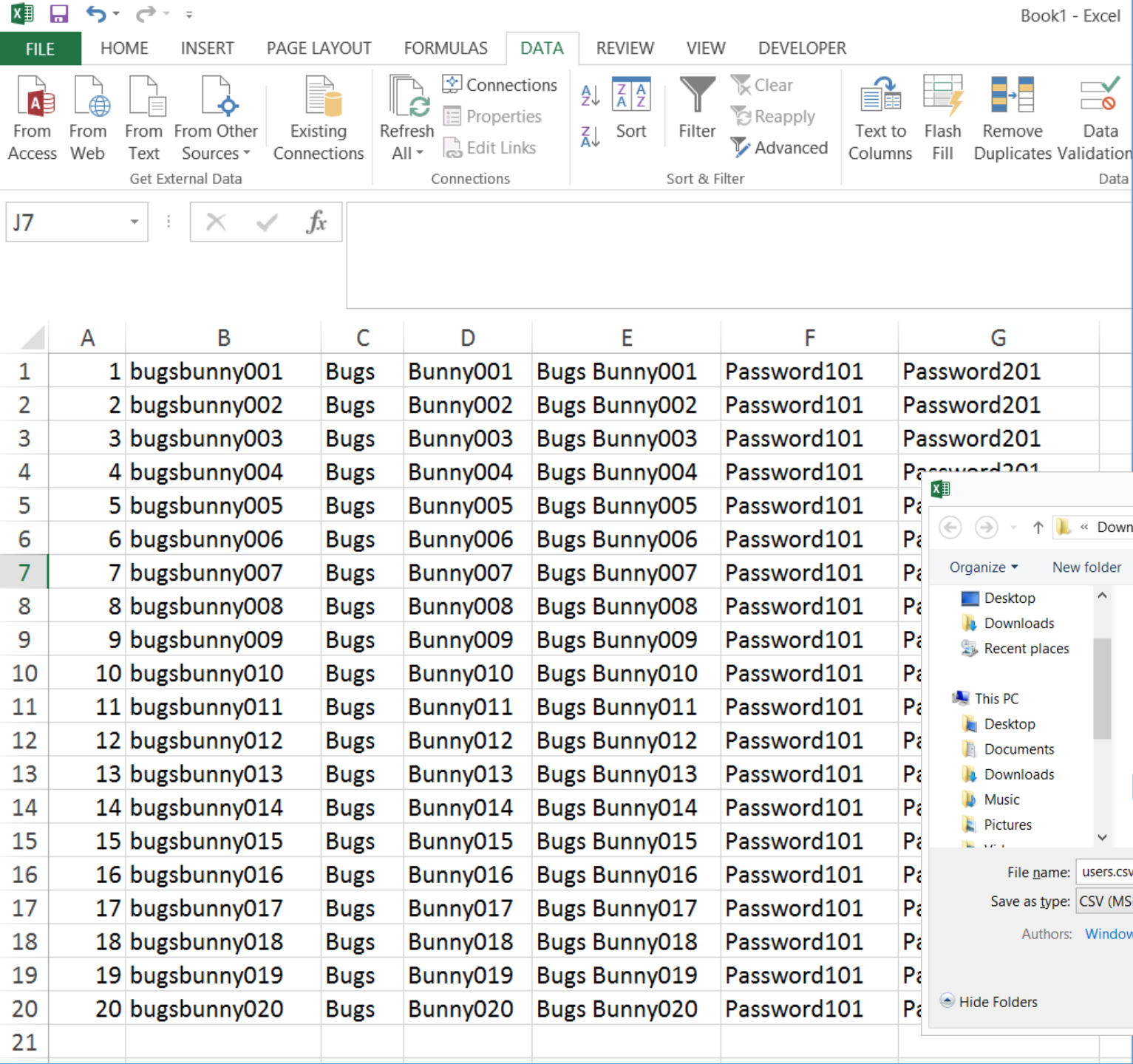
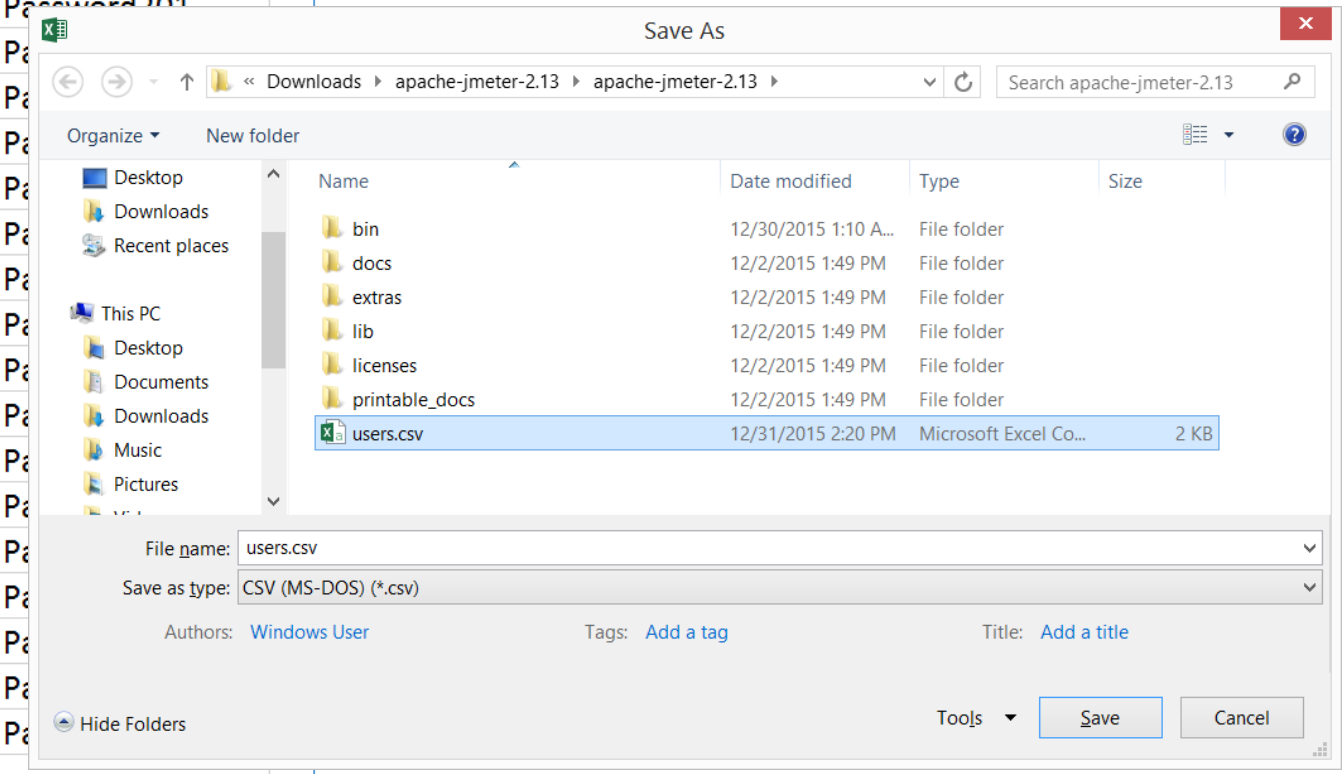
About CA Identity Manager



	A	B	C	D	E	F	G
1	1	bugsbunny001	Bugs	Bunny001	Bugs Bunny001	Password101	Password201
2	2	bugsbunny002	Bugs	Bunny002	Bugs Bunny002	Password101	Password201
3	3	bugsbunny003	Bugs	Bunny003	Bugs Bunny003	Password101	Password201
4	4	bugsbunny004	Bugs	Bunny004	Bugs Bunny004	Password101	Pa
5	5	bugsbunny005	Bugs	Bunny005	Bugs Bunny005	Password101	Pa
6	6	bugsbunny006	Bugs	Bunny006	Bugs Bunny006	Password101	Pa
7	7	bugsbunny007	Bugs	Bunny007	Bugs Bunny007	Password101	Pa
8	8	bugsbunny008	Bugs	Bunny008	Bugs Bunny008	Password101	Pa
9	9	bugsbunny009	Bugs	Bunny009	Bugs Bunny009	Password101	Pa
10	10	bugsbunny010	Bugs	Bunny010	Bugs Bunny010	Password101	Pa
11	11	bugsbunny011	Bugs	Bunny011	Bugs Bunny011	Password101	Pa
12	12	bugsbunny012	Bugs	Bunny012	Bugs Bunny012	Password101	Pa
13	13	bugsbunny013	Bugs	Bunny013	Bugs Bunny013	Password101	Pa
14	14	bugsbunny014	Bugs	Bunny014	Bugs Bunny014	Password101	Pa
15	15	bugsbunny015	Bugs	Bunny015	Bugs Bunny015	Password101	Pa
16	16	bugsbunny016	Bugs	Bunny016	Bugs Bunny016	Password101	Pa
17	17	bugsbunny017	Bugs	Bunny017	Bugs Bunny017	Password101	Pa
18	18	bugsbunny018	Bugs	Bunny018	Bugs Bunny018	Password101	Pa
19	19	bugsbunny019	Bugs	Bunny019	Bugs Bunny019	Password101	Pa
20	20	bugsbunny020	Bugs	Bunny020	Bugs Bunny020	Password101	Pa
21							



http_recorder_example_v400_Working_wip.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v400_Working_wip.jmx) - Apache JMeter (2.13 r1665067)

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        - CSS/JQuery Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after authen
        - Regular Expression Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after
        - XPath Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after authentication
      - 36 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
      - 51 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profile.jsp
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      - 73 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
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      - 95 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
    - 04-LAUNCH RESET USER PASSWORD TASK
      - 232 /iam/im/cam/ui7/index.jsp - PARAMETERS
        - CSS/JQuery Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after authen
        - Regular Expression Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after
        - XPath Extractor - Pull The OWASP_CSRFTOKEN from user_console.jar after authentication
    - 05-FIND USER
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      - 274 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp - PARAME
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      - 297 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profile.jsp - PARAMETERS UPD
      - 318 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profile.jsp - PARAMETERS UPD
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      - 117 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
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      - 139 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp
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  - Aggregate Report
  - Aggregate Graph
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  - HTTP(S) Test Script Recorder for IM
    - View Results Tree

CSV Data Set Config

Name: CSV Data Set Config for IM Login

Comments: Create CSV File with userID, Password, accountID under JMETER_HOME\users.csv

Configure the CSV Data Source

Filename:	users.csv
File encoding:	
Variable Names (comma-delimited):	Account_ID_Field,User_ID_Field,User_FN_Field,User_LN_Field, User_FullName_Field,Password_Field,New_Password_Field
Delimiter (use '\t' for tab):	,
Allow quoted data?:	False
Recycle on EOF ?:	True
Stop thread on EOF ?:	False
Sharing mode:	All threads

View Submitted Tasks

	Description	Status	Priority	Initiated by	Submitted	Last Updated
	Delete User task, User bugsbunny001	Completed	Medium	idmadmin	12/30/2015 6:09 AM	12/30/2015 6:09 AM
	Reset User Password task, User bugsbunny001	Completed	Medium	idmadmin	12/30/2015 6:09 AM	12/30/2015 6:09 AM
	Create User task, User bugsbunny001	Completed	Medium	idmadmin	12/30/2015 6:09 AM	12/30/2015 6:09 AM

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https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/special/submitted_tasks.jsp

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Tasks

- Home
- My Access
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  - Delete Recurring Tasks
  - Secret Keys
  - View Submitted Tasks
  - Reporting

Reset User Password task, User bugsbunny016	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Delete User task, User bugsbunny001	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Delete User task, User bugsbunny004	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Delete User task, User bugsbunny006	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny017	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Delete User task, User bugsbunny002	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny019	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny020	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Delete User task, User bugsbunny007	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny012	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny018	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny010	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny013	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny014	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny009	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny015	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny003	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny005	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny008	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny006	Completed	Medium	idmadmin	12/30/2015 6:11 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny001	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny002	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny007	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	
Reset User Password task, User bugsbunny004	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	
Create User task, User bugsbunny011	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	
Create User task, User bugsbunny016	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	
Create User task, User bugsbunny018	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	
Create User task, User bugsbunny020	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	
Create User task, User bugsbunny017	Completed	Medium	idmadmin	12/30/2015 6:10 AM	12/30/2015 6:11 AM	

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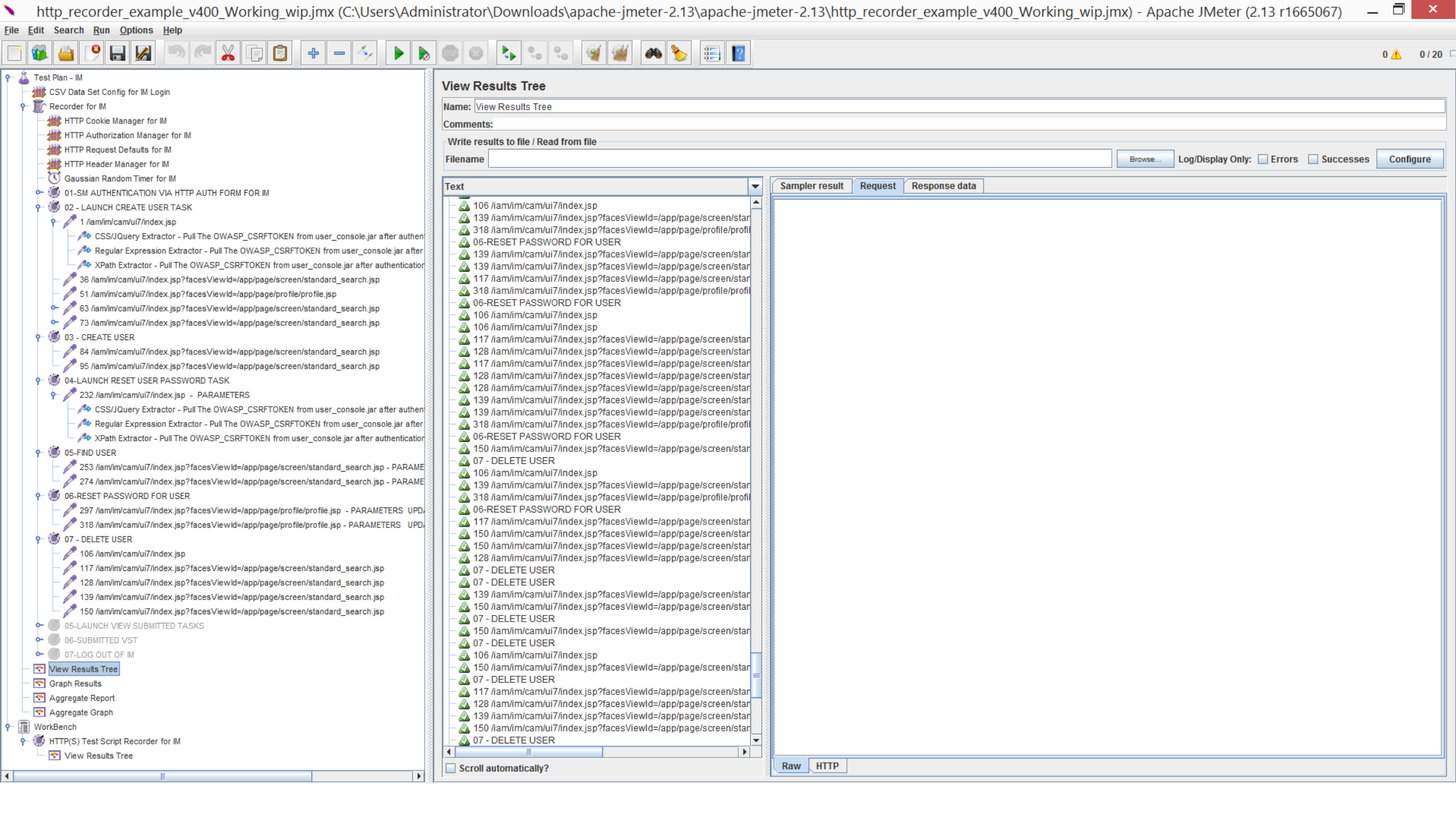
About CA Identity Manager


http_recorder_example_v400_Working_wip.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v400_Working_wip.jmx) - Apache JMeter (2.13 r1665067)
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View Results Tree
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Filename
Browse...
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Text
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318 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profil
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139 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
117 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
318 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profil
06-RESET PASSWORD FOR USER
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117 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
117 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
139 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
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318 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/profile/profil
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128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
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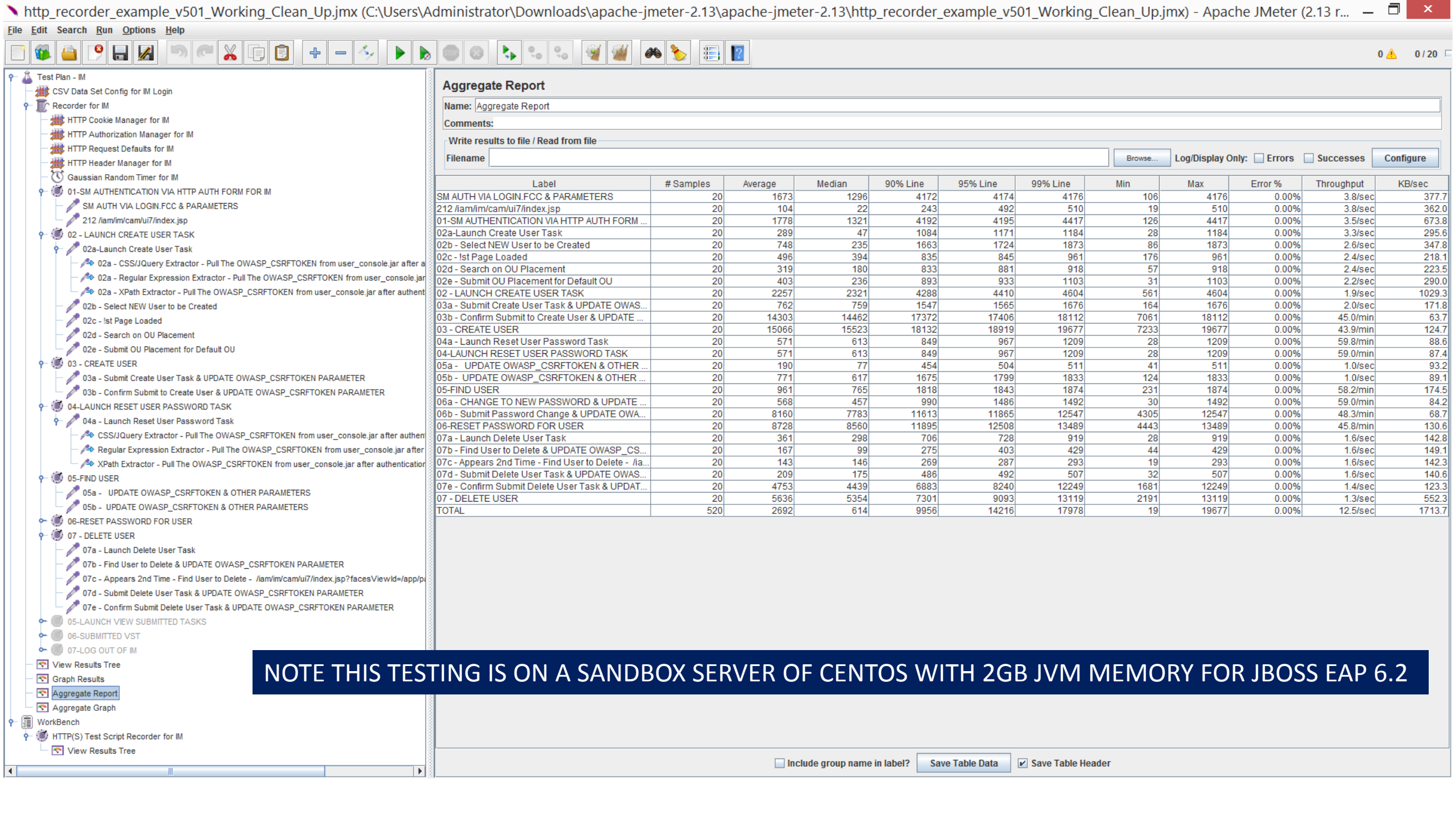
128 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
139 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
150 /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/star
07 - DELETE USER
Scroll automatically?
Sampler result
Request
Response data
Raw
HTTP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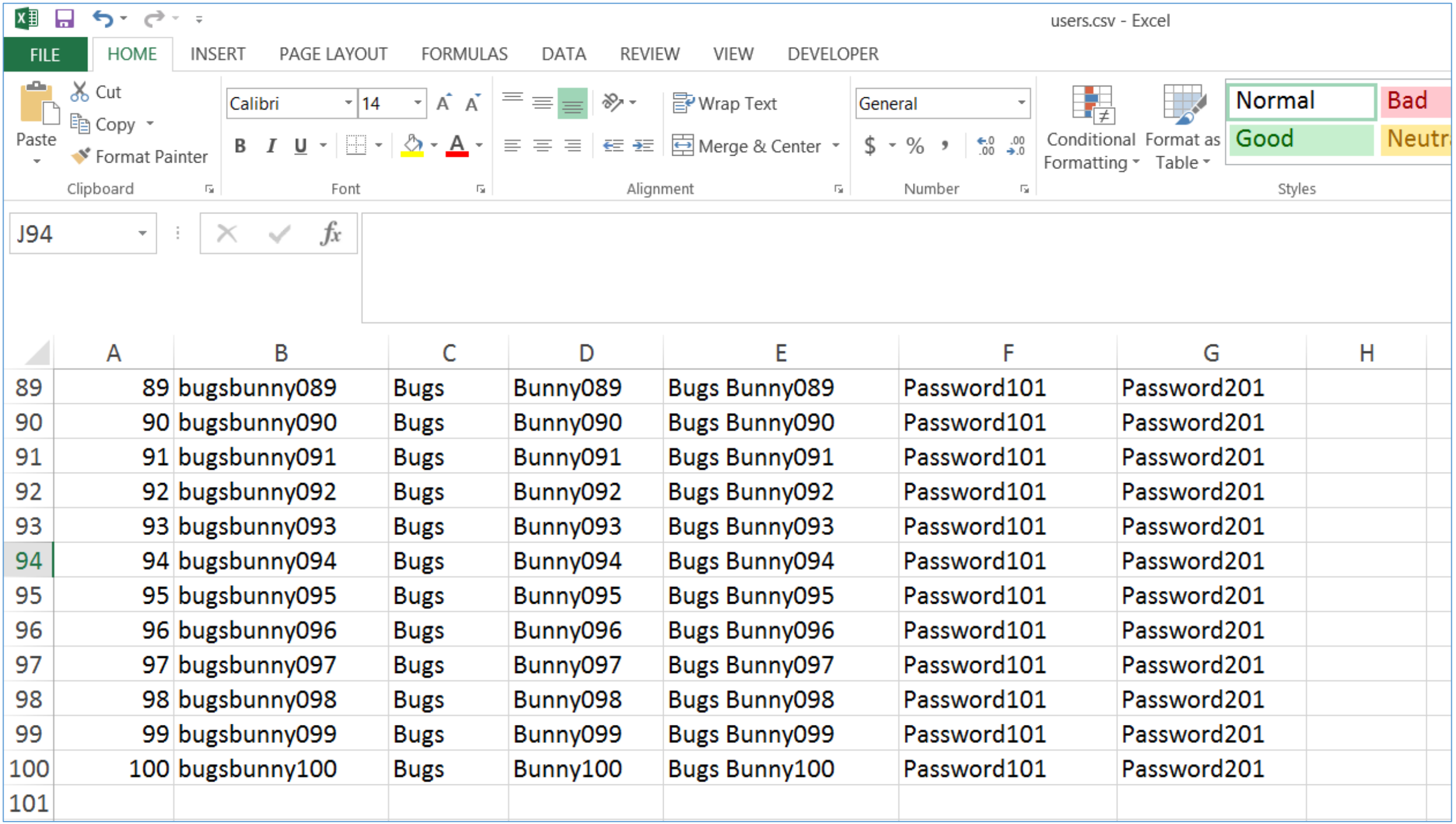
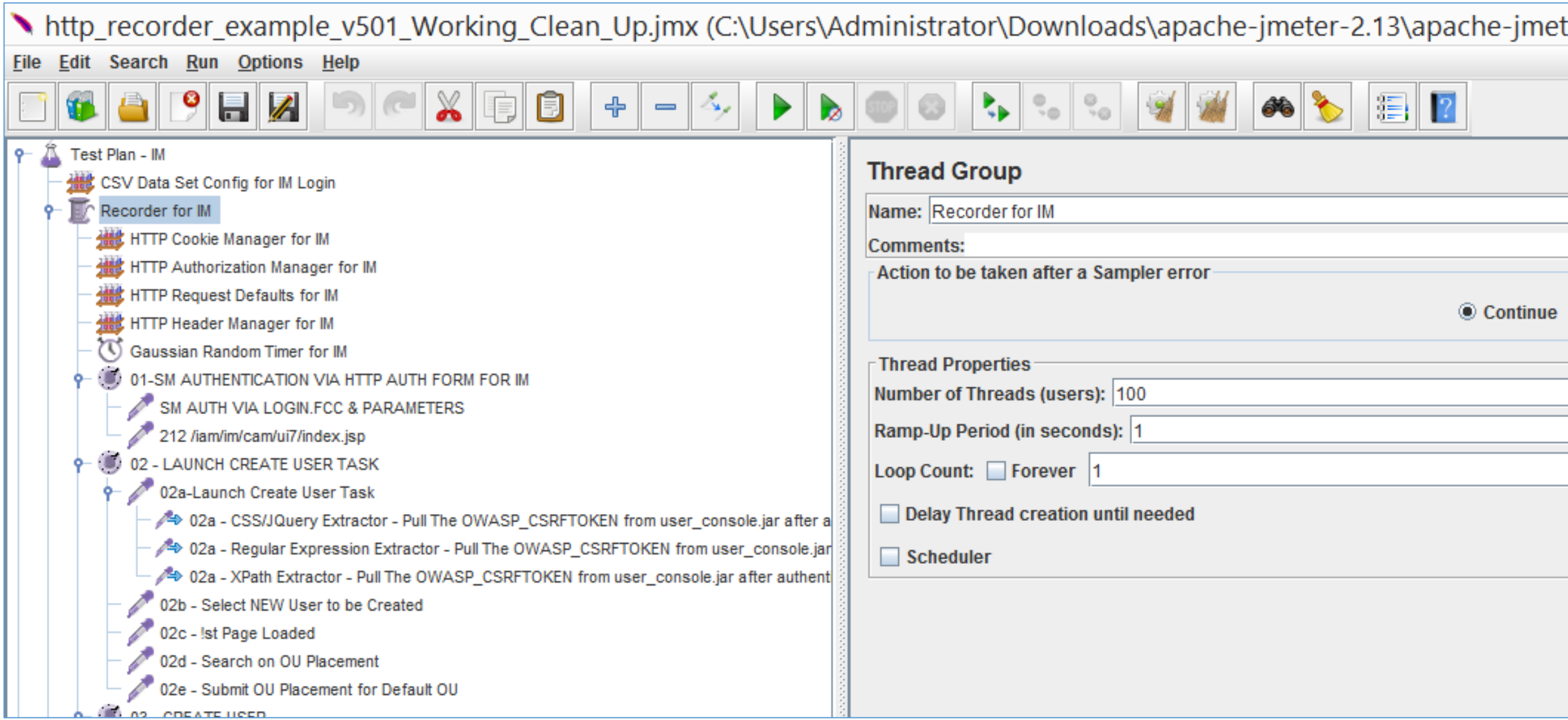
Aggregate Report
Aggregate Graph
WorkBench
HTTP(S) Test Script Recorder for IM
View Results Tree
Aggregate Report
Name: Aggregate Report
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only: Errors Successes
Configure
Label # Samples Average Median 90% Line 95% Line 99% Line Min Max Error % Throughput KB/sec
SM AUTH VIA LOGIN.FCC & PARAMETERS 20 1673 1296 4172 4174 4176 106 4176 0.00% 3.8/sec 377.7
212 /iam/im/cam/ui7/index.jsp 20 104 22 243 492 510 19 510 0.00% 3.8/sec 362.0
01-SM AUTHENTICATION VIA HTTP AUTH FORM ... 20 1778 1321 4192 4195 4417 126 4417 0.00% 3.5/sec 673.8
02a-Launch Create User Task 20 289 47 1084 1171 1184 28 1184 0.00% 3.3/sec 295.6
02b - Select NEW User to be Created 20 748 235 1663 1724 1873 86 1873 0.00% 2.6/sec 347.8
02c - !st Page Loaded 20 496 394 835 845 961 176 961 0.00% 2.4/sec 218.1
02d - Search on OU Placement 20 319 180 833 881 918 57 918 0.00% 2.4/sec 223.5
02e - Submit OU Placement for Default OU 20 403 236 893 933 1103 31 1103 0.00% 2.2/sec 290.0
02 - LAUNCH CREATE USER TASK 20 2257 2321 4288 4410 4604 561 4604 0.00% 1.9/sec 1029.3
03a - Submit Create User Task & UPDATE OWAS... 20 762 759 1547 1565 1676 164 1676 0.00% 2.0/sec 171.8
03b - Confirm Submit to Create User & UPDATE ... 20 14303 14462 17372 17406 18112 7061 18112 0.00% 45.0/min 63.7
03 - CREATE USER 20 15066 15523 18132 18919 19677 7233 19677 0.00% 43.9/min 124.7
04a - Launch Reset User Password Task 20 571 613 849 967 1209 28 1209 0.00% 59.8/min 88.6
04-LAUNCH RESET USER PASSWORD TASK 20 571 613 849 967 1209 28 1209 0.00% 59.0/min 87.4
05a - UPDATE OWASP_CSRFTOKEN & OTHER ... 20 190 77 454 504 511 41 511 0.00% 1.0/sec 93.2
05b - UPDATE OWASP_CSRFTOKEN & OTHER ... 20 771 617 1675 1799 1833 124 1833 0.00% 1.0/sec 89.1
05-FIND USER 20 961 765 1818 1843 1874 231 1874 0.00% 58.2/min 174.5
06a - CHANGE TO NEW PASSWORD & UPDATE ... 20 568 457 990 1486 1492 30 1492 0.00% 59.0/min 84.2
06b - Submit Password Change & UPDATE OWA... 20 8160 7783 11613 11865 12547 4305 12547 0.00% 48.3/min 68.7
06-RESET PASSWORD FOR USER 20 8728 8560 11895 12508 13489 4443 13489 0.00% 45.8/min 130.6
07a - Launch Delete User Task 20 361 298 706 728 919 28 919 0.00% 1.6/sec 142.8
07b - Find User to Delete & UPDATE OWASP_CS... 20 167 99 275 403 429 44 429 0.00% 1.6/sec 149.1
07c - Appears 2nd Time - Find User to Delete - /ia... 20 143 146 269 287 293 19 293 0.00% 1.6/sec 142.3
07d - Submit Delete User Task & UPDATE OWAS... 20 209 175 486 492 507 32 507 0.00% 1.6/sec 140.6
07e - Confirm Submit Delete User Task & UPDAT... 20 4753 4439 6883 8240 12249 1681 12249 0.00% 1.4/sec 123.3
07 - DELETE USER 20 5636 5354 7301 9093 13119 2191 13119 0.00% 1.3/sec 552.3
TOTAL 520 2692 614 9956 14216 17978 19 19677 0.00% 12.5/sec 1713.7
Include group name in label?
Save Table Data
Save Table Header
NOTE THIS TESTING IS ON A SANDBOX SERVER OF CENTOS WITH 2GB JVM MEMORY FOR JBOSS EAP 6.2



	A	B	C	D	E	F	G	H
89	89	bugsbunny089	Bugs	Bunny089	Bugs Bunny089	Password101	Password201	
90	90	bugsbunny090	Bugs	Bunny090	Bugs Bunny090	Password101	Password201	
91	91	bugsbunny091	Bugs	Bunny091	Bugs Bunny091	Password101	Password201	
92	92	bugsbunny092	Bugs	Bunny092	Bugs Bunny092	Password101	Password201	
93	93	bugsbunny093	Bugs	Bunny093	Bugs Bunny093	Password101	Password201	
94	94	bugsbunny094	Bugs	Bunny094	Bugs Bunny094	Password101	Password201	
95	95	bugsbunny095	Bugs	Bunny095	Bugs Bunny095	Password101	Password201	
96	96	bugsbunny096	Bugs	Bunny096	Bugs Bunny096	Password101	Password201	
97	97	bugsbunny097	Bugs	Bunny097	Bugs Bunny097	Password101	Password201	
98	98	bugsbunny098	Bugs	Bunny098	Bugs Bunny098	Password101	Password201	
99	99	bugsbunny099	Bugs	Bunny099	Bugs Bunny099	Password101	Password201	
100	100	bugsbunny100	Bugs	Bunny100	Bugs Bunny100	Password101	Password201	
101								



TRY TO PUSH THE SOLUTION TO FAILURE WITH RAMP-UP PERIOD = 1 SECOND FOR 100 ACCOUNT/THREADS

http_recorder_example_v501_Working_Clean_Up.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v501_Working_Clean_Up.jmx) - Apache JMeter (2.13 r...

File Edit Search Run Options Help

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- Test Plan - IM
  - CSV Data Set Config for IM Login
  - Recorder for IM
    - HTTP Cookie Manager for IM
    - HTTP Authorization Manager for IM
    - HTTP Request Defaults for IM
    - HTTP Header Manager for IM
    - Gaussian Random Timer for IM
    - 01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM
      - 01a - SM AUTH VIA LOGIN.FCC & PARAMETERS
      - 01b - IM LANDING PAGE
    - 02 - LAUNCH CREATE USER TASK
      - 02a-Launch Create User Task
        - 02a - CSS/JQuery Extractor - Pull The OWASP_CSRFTOKEN
        - 02a - Regular Expression Extractor - Pull The OWASP_CSRF
        - 02a - XPath Extractor - Pull The OWASP_CSRFTOKEN from u
      - 02b - Select NEW User to be Created
      - 02c - !st Page Loaded
      - 02d - Search on OU Placement
      - 02e - Submit OU Placement for Default OU
    - 03 - CREATE USER
      - 03a - Submit Create User Task & UPDATE OWASP_CSRFTOKEN
      - 03b - Confirm Submit to Create User & UPDATE OWASP_CSRFTO
    - 04-LAUNCH RESET USER PASSWORD TASK
      - 04a - Launch Reset User Password Task
        - CSS/JQuery Extractor - Pull The OWASP_CSRFTOKEN from u
        - Regular Expression Extractor - Pull The OWASP_CSRFTOKEN
        - XPath Extractor - Pull The OWASP_CSRFTOKEN from user_c
    - 05-FIND USER
      - 05a - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS
      - 05b - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS
    - 06-RESET PASSWORD FOR USER
    - 07 - DELETE USER
      - 07a - Launch Delete User Task
      - 07b - Find User to Delete & UPDATE OWASP_CSRFTOKEN PARA
      - 07c - Appears 2nd Time - Find User to Delete - /iam/im/cam/ui7/in
      - 07d - Submit Delete User Task & UPDATE OWASP_CSRFTOKEN F
      - 07e - Confirm Submit Delete User Task & UPDATE OWASP_CSRF
    - 05-LAUNCH VIEW SUBMITTED TASKS
    - 06-SUBMITTED VST
    - 07-LOG OUT OF IM
    - View Results Tree
    - Graph Results
    - Aggregate Report
    - Aggregate Graph
  - WorkBench
    - HTTP(S) Test Script Recorder for IM
      - View Results Tree

Aggregate Report

Name: Aggregate Report

Comments:

Write results to file / Read from file

Filename Browse... Log/Display Only: Errors Successes Configure

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput	KB/sec
01a - SM AUTH VIA LOGIN.FCC & PARAMETERS	100	3944	2678	9495	10799	12431	436	13263	4.00%	7.0/sec	661.7
01b - IM LANDING PAGE	100	549	370	1242	1518	2180	19	3273	3.00%	6.8/sec	624.9
01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM	100	4494	2897	10074	11481	13526	884	13914	4.00%	6.5/sec	1210.6
02a-Launch Create User Task	100	1608	1286	2970	3363	4137	15	5528	3.00%	5.5/sec	477.0
02b - Select NEW User to be Created	100	4937	5099	7340	8731	9629	24	9665	3.00%	4.6/sec	593.3
02c - !st Page Loaded	100	4399	4397	6839	7719	8932	45	9617	3.00%	4.6/sec	394.0
02d - Search on OU Placement	100	2842	2729	5306	5830	6353	9	6530	3.00%	4.4/sec	387.2
02e - Submit OU Placement for Default OU	100	1157	1023	2221	2724	3270	9	3288	3.00%	5.3/sec	678.0
02 - LAUNCH CREATE USER TASK	100	14945	15649	18750	20005	21233	183	21315	3.00%	3.5/sec	1821.6
03a - Submit Create User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	100	3905	3734	6908	7197	7820	8	8905	3.00%	4.8/sec	393.0
03b - Confirm Submit to Create User & UPDATE OWASP_CSRFTOKEN PARAMETER	100	12060	6888	26092	29281	33546	8	33741	3.00%	1.9/sec	189.9
03 - CREATE USER	100	15966	10522	30264	31814	39198	16	39436	3.00%	1.9/sec	344.2
04a - Launch Reset User Password Task	100	1114	824	2669	3029	3858	16	4082	2.00%	1.9/sec	163.7
04-LAUNCH RESET USER PASSWORD TASK	100	1114	824	2669	3029	3858	16	4082	2.00%	1.9/sec	163.3
05a - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	100	547	396	1275	1439	2154	2	2558	1.00%	1.9/sec	165.6
05b - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	100	837	183	2680	3311	4638	2	5352	1.00%	1.9/sec	163.6
05-FIND USER	100	1385	718	3578	4218	5151	4	7910	1.00%	1.9/sec	325.9
06a - CHANGE TO NEW PASSWORD & UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	100	613	249	1752	2474	3286	2	3330	0.00%	1.9/sec	158.3
06b - Submit Password Change & UPDATE OWASP_CSRFTOKEN PARAMETER	100	4241	2363	14371	19222	28336	9	29291	0.00%	1.5/sec	119.8
06-RESET PASSWORD FOR USER	100	4855	2707	15597	19819	29360	13	31522	0.00%	1.5/sec	238.6
07a - Launch Delete User Task	100	562	423	1173	1432	1579	10	1861	0.00%	1.5/sec	124.9
07b - Find User to Delete & UPDATE OWASP_CSRFTOKEN PARAMETER	100	319	296	592	662	969	2	1002	0.00%	1.5/sec	126.0
07c - Appears 2nd Time - Find User to Delete - /iam/im/cam/ui7/index.jsp?facesViewId=/app/page/screen/standard_search.jsp	100	173	138	377	460	580	3	584	0.00%	1.5/sec	123.6
07d - Submit Delete User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	100	300	227	710	923	1219	2	1288	0.00%	1.4/sec	121.5
07e - Confirm Submit Delete User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	100	6954	2137	21537	22836	24117	2	24312	0.00%	1.2/sec	95.8
07 - DELETE USER	100	8309	3680	23520	24833	25863	43	25952	0.00%	1.2/sec	488.1
TOTAL	2600	3928	1413	12179	19633	28293	2	39436	1.73%	26.0/sec	3468.0

NOTE ERROR % WHEN USING RAMP-UP PERIOD = 1 SECOND FOR 100 ACCOUNT/THREADS

NOTE THIS TESTING IS ON A SANDBOX SERVER OF CENTOS WITH 2GB JVM MEMORY FOR JBOSS EAP 6.2

Include group name in label? Save Table Data Save Table Header

File Edit View History Bookmarks Tools Help

CA Identity Manager : Vie... | Options

https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/special/submitted_tasks.jsp

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CA Identity Manager

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  - Delete Recurring Tasks
  - Secret Keys
  - View Submitted Tasks
  - Reporting

Reset User Password Task Details: bugsbunny050

Subject name	bugsbunny050 (Bugs Bunny050)
Task performed by	idmadmin (idmadmin)
Task creation time	Wednesday, December 30, 2015 6:37:11 AM EST
Task status	Failed

Identity Policy Violations

Identity Policy Name	Type	Workflow Status	Message
No results.			

Included Events

Event Name	Description	Status	Submitted	Last Updated	Last Activity
Reset password on user	Reset password on user "Bugs Bunny050 (bugsbunny050)": Failed to execute ResetPasswordEvent. ERROR MESSAGE: Corrupted buffer returned from server	Failed	12/30/2015 6:37 AM	12/30/2015 6:37 AM	

Initiated Tasks

These tasks were created as part of initiating this task, and began executing immediately.

Description	Status	Priority	Initiated by	Submitted	Last Updated	Last Operation
No results.						

Prerequisite Tasks

These tasks must complete before this task can begin executing.

Description	Status	Priority	Initiated by	Submitted	Last Updated	Last Operation
No results.						

Subsequent Tasks

These ta

NOTE ERROR MSG WHEN USING RAMP-UP PERIOD = 1 SECOND FOR 100 ACCOUNT/THREADS

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CA Identity Manager : Vie... | Options

https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/special/submitted_tasks_events.jsp

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  - Cleanup Submitted Tasks
  - Configure Global Policy Based Wor
  - Delete Recurring Tasks
  - Secret Keys
  - View Submitted Tasks
  - Reporting

View Submitted Tasks

Delete User Task Details

Task performed by	idmadmin (idmadmin)
Task creation time	Wednesday, December 30, 2015 6:37:05 AM EST
Task status	In progress

Identity Policy Violations

Identity Policy Name	Type	Workflow Status	Message
No results.			

Included Events

Event Name	Description	Status	Submitted	Last Updated	Last Activity
No results.					

Initiated Tasks

These tasks were created as part of initiating this task, and began executing immediately.

Description	Status	Priority	Initiated by	Submitted	Last Updated	Last Operation
No results.						

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No results.						

Subsequent Tasks

These tasks will begin executing after this task has completed.

Descri

NOTE ERROR MSG WHEN USING RAMP-UP PERIOD = 1 SECOND FOR 100 ACCOUNT/THREADS

About CA Identity Manager

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https://sandbox01.lab.dom/iam/im/cam/ui7/index.jsp?facesViewId=/app/page/special/submitted_tasks_events.jsp

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  - Delete Recurring Tasks
  - Secret Keys
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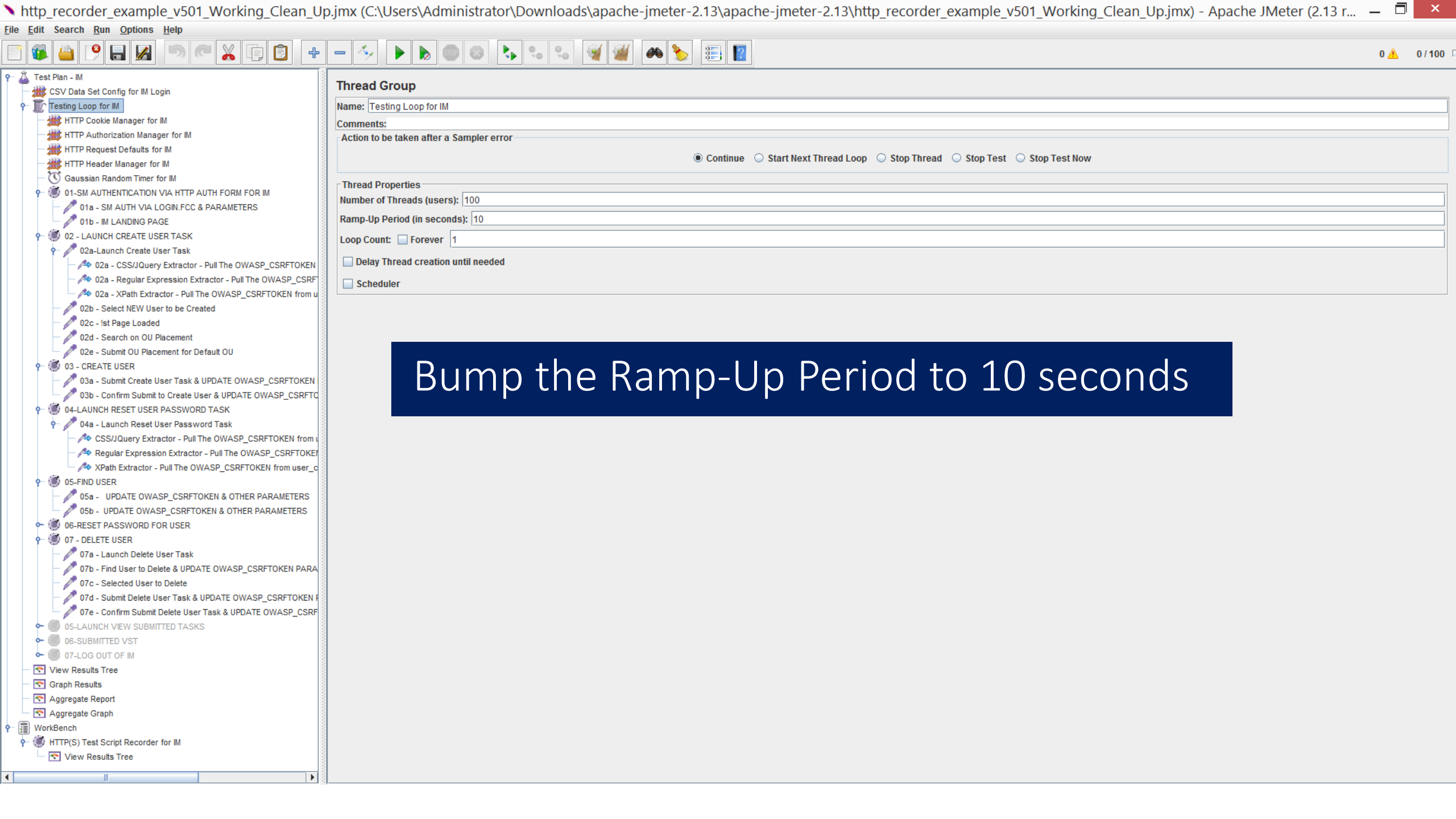
Delete User task, User bugsbunny088	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny089	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny097	In progress	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny022	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny047	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny051	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny062	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny098	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny034: Failed: 1 events	Failed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny012	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny015	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny071	In progress	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny096	In progress	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny021	In progress	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny090: Failed: 1 events	Failed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Delete User task, User bugsbunny060	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny027	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny075	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny080	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny084	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny086	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny087	In progress	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny040	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny063	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset						
Reset						
Reset User Password task, User bugsbunny069: Failed: 1 events	Failed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	
Reset User Password task, User bugsbunny070	Completed	Medium	idmadmin	12/30/2015 6:37 AM	12/30/2015 6:37 AM	

NOTE ERROR MSG WHEN USING RAMP-UP PERIOD = 1 SECOND FOR 100 ACCOUNT/THREADS

NOTE THIS TESTING IS ON A SANDBOX SERVER OF CENTOS WITH 2GB JVM MEMORY FOR JBOSS EAP 6.2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File Edit Search Run Options Help
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07-LOG OUT OF IM
View Results Tree
Graph Results
Aggregate Report
Aggregate Graph
WorkBench
HTTP(S) Test Script Recorder for IM
View Results Tree
Thread Group
Name: Testing Loop for IM
Comments:
Action to be taken after a Sampler error
Continue Start Next Thread Loop Stop Thread Stop Test Stop Test Now
Thread Properties
Number of Threads (users): 100
Ramp-Up Period (in seconds): 10
Loop Count: Forever 1
Delay Thread creation until needed
Scheduler
Bump the Ramp-Up Period to 10 seconds

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- Test Plan - IM
  - CSV Data Set Config for IM Login
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      - View Results Tree

Aggregate Report

Name: Aggregate Report

Comments:

Write results to file / Read from file

Filename Browse... Log/Display Only: Errors Successes Configure

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput	KB/sec
01a - SM AUTH VIA LOGIN.FCC & PARAMETERS	100	5689	4866	9892	10231	10680	101	11010	0.00%	5.0/sec	494.5
01b - IM LANDING PAGE	100	386	257	862	1082	1305	18	1658	0.00%	4.9/sec	466.9
01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM	100	6076	4995	10479	10630	11293	119	11417	0.00%	4.8/sec	930.6
02a-Launch Create User Task	100	752	700	1536	1812	2070	26	2139	0.00%	4.6/sec	418.4
02b - Select NEW User to be Created	100	1869	1658	3598	3808	4063	74	4187	0.00%	3.8/sec	511.9
02c - !st Page Loaded	100	998	944	1768	1976	2273	151	2325	0.00%	3.7/sec	336.7
02d - Search on OU Placement	100	1390	1299	2508	2862	3316	51	4252	0.00%	3.6/sec	329.7
02e - Submit OU Placement for Default OU	100	676	582	1340	1441	2323	30	2456	0.00%	3.5/sec	467.7
02 - LAUNCH CREATE USER TASK	100	5687	6489	8427	8988	9945	364	9999	0.00%	3.4/sec	1812.6
03a - Submit Create User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	100	1677	1638	2927	3109	3941	162	3949	0.00%	3.3/sec	282.1
03b - Confirm Submit to Create User & UPDATE OWASP_CSRFTOKEN PARAMETER	100	8235	2712	19968	20839	23354	249	23442	0.00%	2.0/sec	225.2
03 - CREATE USER	100	9913	4744	22399	23865	24383	566	25387	0.00%	1.9/sec	388.4
04a - Launch Reset User Password Task	100	773	671	1588	1677	2145	25	2165	0.00%	2.0/sec	177.3
04-LAUNCH RESET USER PASSWORD TASK	100	773	671	1588	1677	2145	25	2165	0.00%	2.0/sec	176.2
05a - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	100	812	512	1821	2341	2845	39	3214	0.00%	2.0/sec	181.7
05b - UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	100	1186	1094	2212	2855	3171	16	4203	0.00%	2.0/sec	177.2
05-FIND USER	100	1998	1885	3929	4514	5199	55	6879	0.00%	2.0/sec	354.6
06a - CHANGE TO NEW PASSWORD & UPDATE OWASP_CSRFTOKEN & OTHER PARAMETERS	100	659	541	1488	1818	2282	15	2417	0.00%	2.0/sec	170.6
06b - Submit Password Change & UPDATE OWASP_CSRFTOKEN PARAMETER	100	11769	17784	21791	22073	22618	34	22792	0.00%	1.6/sec	138.8
06-RESET PASSWORD FOR USER	100	12428	18325	22717	23535	24372	117	24524	0.00%	1.6/sec	275.1
07a - Launch Delete User Task	100	426	406	725	811	2049	24	2096	0.00%	1.9/sec	172.2
07b - Find User to Delete & UPDATE OWASP_CSRFTOKEN PARAMETER	100	260	208	461	572	1546	37	1797	0.00%	1.9/sec	177.4
07c - Selected User to Delete	100	136	105	295	344	458	15	506	0.00%	2.0/sec	176.6
07d - Submit Delete User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	100	204	131	395	632	979	15	2182	0.00%	2.0/sec	174.2
07e - Confirm Submit Delete User Task & UPDATE OWASP_CSRFTOKEN PARAMETER	100	11800	16089	18093	19117	20423	33	20980	0.00%	1.7/sec	146.7
07 - DELETE USER	100	12829	17194	19319	20020	24691	166	26520	0.00%	1.6/sec	701.9
TOTAL	2600	3823	1096	16797	19678	22618	15	26520	0.00%	33.3/sec	4649.0

NO ERROR % NOTED WHEN USING RAMP-UP PERIOD = 10 SECONDS FOR 100 ACCOUNT/THREADS

NOTE THIS TESTING IS ON A SANDBOX SERVER OF CENTOS WITH 2GB JVM MEMORY FOR JBOSS EAP 6.2

Include group name in label? Save Table Data Save Table Header

jmeter-plugins.org

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Custom Plugins for Apache JMeter™

This project is an independent set of plugins for Apache JMeter, the popular Open-Source load and performance testing tool.

Latest Update

Version 1.3.1 was released on the 12th of October, 2015. It is mostly a maintenance release that fixes issue with Ultimate Thread Group. See Changelog page for the list of all other changes.

The prerequisite is to run **JMeter 2.12** or above with a **Java 7**. Follow installation procedure after download.

Choose on Your Taste

Standard Set

Basic plugins for everyday needs. Does not require additional libs to run.

Download | Installation | Package Contents

Extras Set

Additional plugins for extended and complex testing. Does not require additional libs to run.

Download | Installation | Package Contents

WebDriver Set

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Latest Stable Release

JMeterPlugins-Standard-1.3.1.zip, 1.15 MB, Oct 12, 2015, Download count: 21039
Standard Set

ServerAgent-2.2.1.zip, 3.51 MB, Jul 12, 2013, Download count: 50802
PerfMon Agent to use with Standard Set

JMeterPlugins-Extras-1.3.1.zip, 410.13 KB, Oct 12, 2015, Download count: 12815
Extras Set

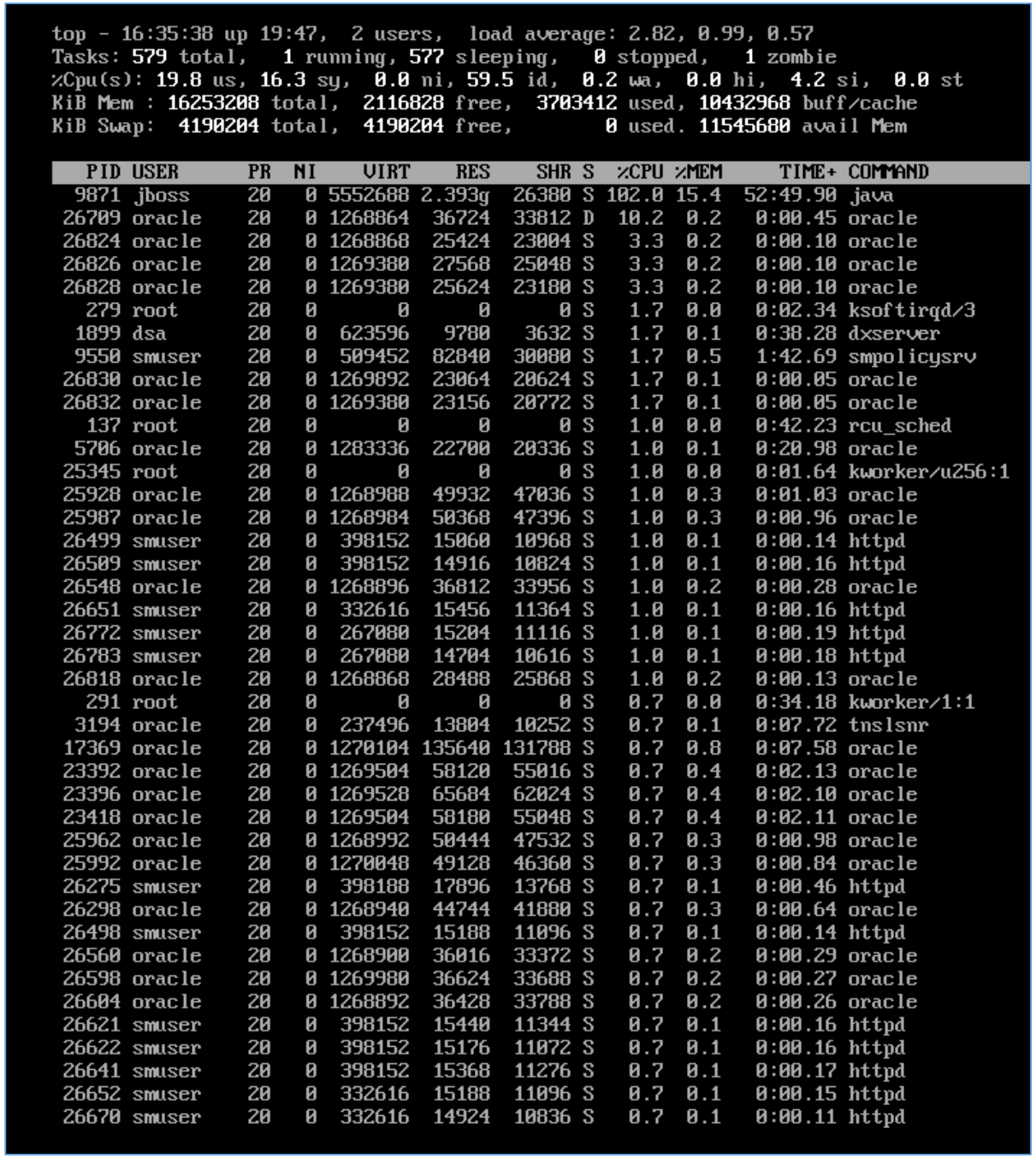
JMeterPlugins-ExtrasLibs-1.3.1.zip, 3.54 MB, Oct 12, 2015, Download count: 10557
Extras with Libs Set

JMeterPlugins-WebDriver-1.3.1.zip, 9.89 MB, Oct 12, 2015, Download count: 5147
WebDriver Set

JMeterPlugins-Hadoop-1.3.1.zip, 11.14 MB, Oct 12, 2015, Download count: 2079
Hadoop Set

On this page:

1. Latest Stable Release
2. Previous Releases
3. Developer Snapshots


top - 16:35:38 up 19:47, 2 users, load average: 2.82, 0.99, 0.57
Tasks: 579 total, 1 running, 577 sleeping, 0 stopped, 1 zombie
%Cpu(s): 19.8 us, 16.3 sy, 0.0 ni, 59.5 id, 0.2 wa, 0.0 hi, 4.2 si, 0.0 st
KiB Mem : 16253208 total, 2116828 free, 3703412 used, 10432968 buff/cache
KiB Swap: 4190204 total, 4190204 free, 0 used. 11545680 avail Mem
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
9871 jboss 20 0 5552688 2.393g 26380 S 102.0 15.4 52:49.90 java
26709 oracle 20 0 1268864 36724 33812 D 10.2 0.2 0:00.45 oracle
26824 oracle 20 0 1268868 25424 23004 S 3.3 0.2 0:00.10 oracle
26826 oracle 20 0 1269380 27568 25048 S 3.3 0.2 0:00.10 oracle
26828 oracle 20 0 1269380 25624 23180 S 3.3 0.2 0:00.10 oracle
279 root 20 0 0 0 0 S 1.7 0.0 0:02.34 ksoftirqd/3
1899 dsa 20 0 623596 9780 3632 S 1.7 0.1 0:38.28 dxserver
9550 smuser 20 0 509452 82840 30080 S 1.7 0.5 1:42.69 smpolicysrv
26830 oracle 20 0 1269892 23064 20624 S 1.7 0.1 0:00.05 oracle
26832 oracle 20 0 1269380 23156 20772 S 1.7 0.1 0:00.05 oracle
137 root 20 0 0 0 0 S 1.0 0.0 0:42.23 rcu_sched
5706 oracle 20 0 1283336 22700 20336 S 1.0 0.1 0:20.98 oracle
25345 root 20 0 0 0 0 S 1.0 0.0 0:01.64 kworker/u256:1
25928 oracle 20 0 1268988 49932 47036 S 1.0 0.3 0:01.03 oracle
25987 oracle 20 0 1268984 50368 47396 S 1.0 0.3 0:00.96 oracle
26499 smuser 20 0 398152 15060 10968 S 1.0 0.1 0:00.14 httpd
26509 smuser 20 0 398152 14916 10824 S 1.0 0.1 0:00.16 httpd
26548 oracle 20 0 1268896 36812 33956 S 1.0 0.2 0:00.28 oracle
26651 smuser 20 0 332616 15456 11364 S 1.0 0.1 0:00.16 httpd
26772 smuser 20 0 267080 15204 11116 S 1.0 0.1 0:00.19 httpd
26783 smuser 20 0 267080 14704 10616 S 1.0 0.1 0:00.18 httpd
26818 oracle 20 0 1268868 28488 25868 S 1.0 0.2 0:00.13 oracle
291 root 20 0 0 0 0 S 0.7 0.0 0:34.18 kworker/1:1
3194 oracle 20 0 237496 13804 10252 S 0.7 0.1 0:07.72 tnslsnr
17369 oracle 20 0 1270104 135640 131788 S 0.7 0.8 0:07.58 oracle
23392 oracle 20 0 1269504 58120 55016 S 0.7 0.4 0:02.13 oracle
23396 oracle 20 0 1269528 65684 62024 S 0.7 0.4 0:02.10 oracle
23418 oracle 20 0 1269504 58180 55048 S 0.7 0.4 0:02.11 oracle
25962 oracle 20 0 1268992 50444 47532 S 0.7 0.3 0:00.98 oracle
25992 oracle 20 0 1270048 49128 46360 S 0.7 0.3 0:00.84 oracle
26275 smuser 20 0 398188 17896 13768 S 0.7 0.1 0:00.46 httpd
26298 oracle 20 0 1268940 44744 41880 S 0.7 0.3 0:00.64 oracle
26498 smuser 20 0 398152 15188 11096 S 0.7 0.1 0:00.14 httpd
26560 oracle 20 0 1268900 36016 33372 S 0.7 0.2 0:00.29 oracle
26598 oracle 20 0 1269980 36624 33688 S 0.7 0.2 0:00.27 oracle
26604 oracle 20 0 1268892 36428 33788 S 0.7 0.2 0:00.26 oracle
26621 smuser 20 0 398152 15440 11344 S 0.7 0.1 0:00.16 httpd
26622 smuser 20 0 398152 15176 11072 S 0.7 0.1 0:00.16 httpd
26641 smuser 20 0 398152 15368 11276 S 0.7 0.1 0:00.17 httpd
26652 smuser 20 0 332616 15188 11096 S 0.7 0.1 0:00.15 httpd
26670 smuser 20 0 332616 14924 10836 S 0.7 0.1 0:00.11 httpd

http_recorder_example_v502_Working_Clean_Up.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v502_...

File Edit Search Run Options Help

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    - Gaussian Random Timer for IM
    - HTTP Cookie Manager for IM
    - HTTP Authorization Manager for IM
    - HTTP Request Defaults for IM
    - HTTP Header Manager for IM
    - 01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM
    - 02 - LAUNCH CREATE USER TASK
    - 03 - CREATE USER
    - 04-LAUNCH RESET USER PASSWORD TASK
    - 05-FIND USER
    - 06-RESET PASSWORD FOR USER
    - 07 - DELETE USER
    - 08-LAUNCH VIEW SUBMITTED TASKS
    - 09-SUBMITTED VST
    - 10 - LOG OUT OF IM
  - View Results Tree
  - Graph Results
  - Aggregate Report
  - Aggregate Graph
- WorkBench

Aggregate Report

Name: Aggregate Report

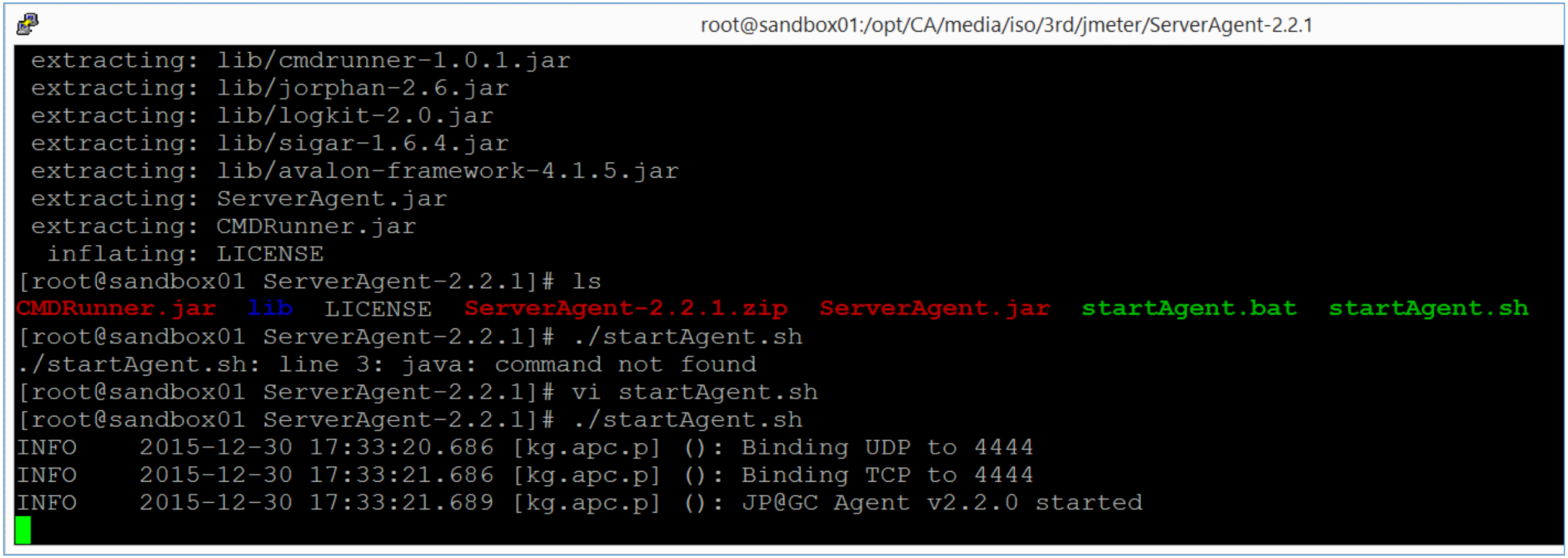
Comments:

Write results to file / Read from file

Filename Browse... **Log/Display Only:** Errors Successes Configure

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput	KB/sec
01a - SM AUT...	100	1474	1602	2108	2440	2732	104	2852	0.00%	1.6/sec	162.2
01b - IM LANDI...	100	169	103	407	507	674	17	843	0.00%	1.6/sec	155.5
01-SM AUTHE...	100	1644	1753	2364	2711	2845	121	3404	0.00%	1.6/sec	314.7
02a-Launch C...	100	550	510	1111	1299	1631	24	2070	0.00%	1.6/sec	146.4
02b - Select N...	100	1109	1168	1877	2204	2520	68	2633	0.00%	1.6/sec	212.0
02c - !st Page ...	100	655	622	1020	1232	1596	144	1658	0.00%	1.6/sec	141.2
02d - Search o...	100	537	484	938	1098	1331	43	1361	0.00%	1.6/sec	143.5
02e - Submit ...	100	385	336	781	942	1094	27	1186	0.00%	1.5/sec	206.5
02 - LAUNCH ...	100	3238	3256	4703	5109	5757	337	5771	0.00%	1.5/sec	817.5
03a - Submit ...	100	822	744	1320	1700	2173	152	2265	0.00%	1.5/sec	131.4
03b - Confirm ...	100	9840	12168	18342	19092	19583	72	19786	0.00%	1.2/sec	125.9
03 - CREATE ...	100	10663	12653	19373	20047	20998	781	21012	0.00%	1.2/sec	227.9
04a - Launch ...	100	579	541	1134	1323	1555	25	1575	0.00%	1.2/sec	110.7
04-LAUNCH R...	100	579	541	1134	1323	1555	25	1575	0.00%	1.2/sec	110.5
05a - UPDAT...	100	266	219	520	738	998	39	1014	0.00%	1.2/sec	112.8
05b - UPDAT...	100	783	796	1764	1998	2138	16	2422	0.00%	1.2/sec	109.9
05-FIND USER	100	1050	1020	1952	2313	2621	56	2746	0.00%	1.2/sec	221.2
06a - CHANG...	100	447	370	950	1047	1303	13	1627	0.00%	1.2/sec	106.1
06b - Submit P...	100	13487	17222	19142	19454	20760	31	20837	0.00%	1.2/sec	105.4
06-RESET PA...	100	13935	17792	19757	20289	21481	94	21985	0.00%	1.2/sec	209.3
07a - Launch ...	100	451	351	1032	1267	1396	23	1521	0.00%	1.3/sec	115.9
07b - Find Use...	100	272	197	591	746	1164	39	1200	0.00%	1.3/sec	118.1
07c - Selected ...	100	199	135	445	552	801	15	1170	0.00%	1.3/sec	114.6
07d - Submit ...	100	282	243	550	601	973	15	1056	0.00%	1.3/sec	112.0
07e - Confirm ...	100	13971	16789	18234	18801	19676	33	19694	0.00%	1.1/sec	91.8
07 - DELETE ...	100	15177	17860	20320	21349	21624	648	22111	0.00%	1.1/sec	465.7
TOTAL	2600	3560	732	17372	18506	20087	13	22111	0.00%	24.6/sec	3412.5

Include group name in label? Save Table Data Save Table Header



JAVA_HOME=/opt/CA/jdk/jdk1.7.0_71_x64

PATH=$PATH:$JAVA_HOME/bin

DISPLAY=$(who -m | gawk -F'(' '{ print $2}' | gawk -F')' '{print $1}'):0.0;export DISPLAY

https://www.stevefenton.co.uk/2014/12/really-useful-jmeter-plugins-perfmon-metrics/

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Response Times vs Threads

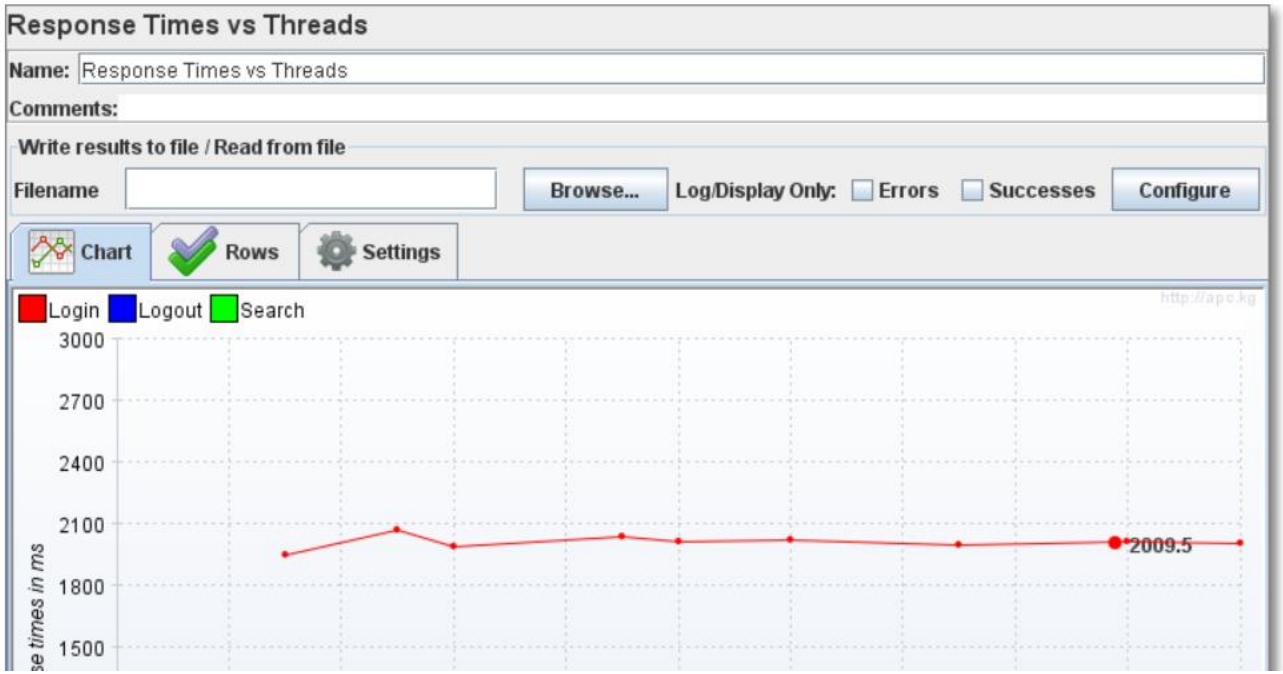
since 0.0.1

Available in Extras Set

⚠ Don't forget to set up saving thread counts when running in non-GUI mode!

This graph shows how Response Time changes with amount of parallel threads. Naturally, server takes longer to respond when a lot of users requests it simultaneously. This graph visualizes such dependencies.

Example graph:



On this page:

1. Response Times vs Threads
    1. Online Version for This Graph

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Transaction Throughput vs Threads

since 0.1.0

Available in Extras Set

On this page:

1. Transaction Throughput vs Threads

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⚠ Don't forget to set up saving thread counts when running in non-GUI mode!

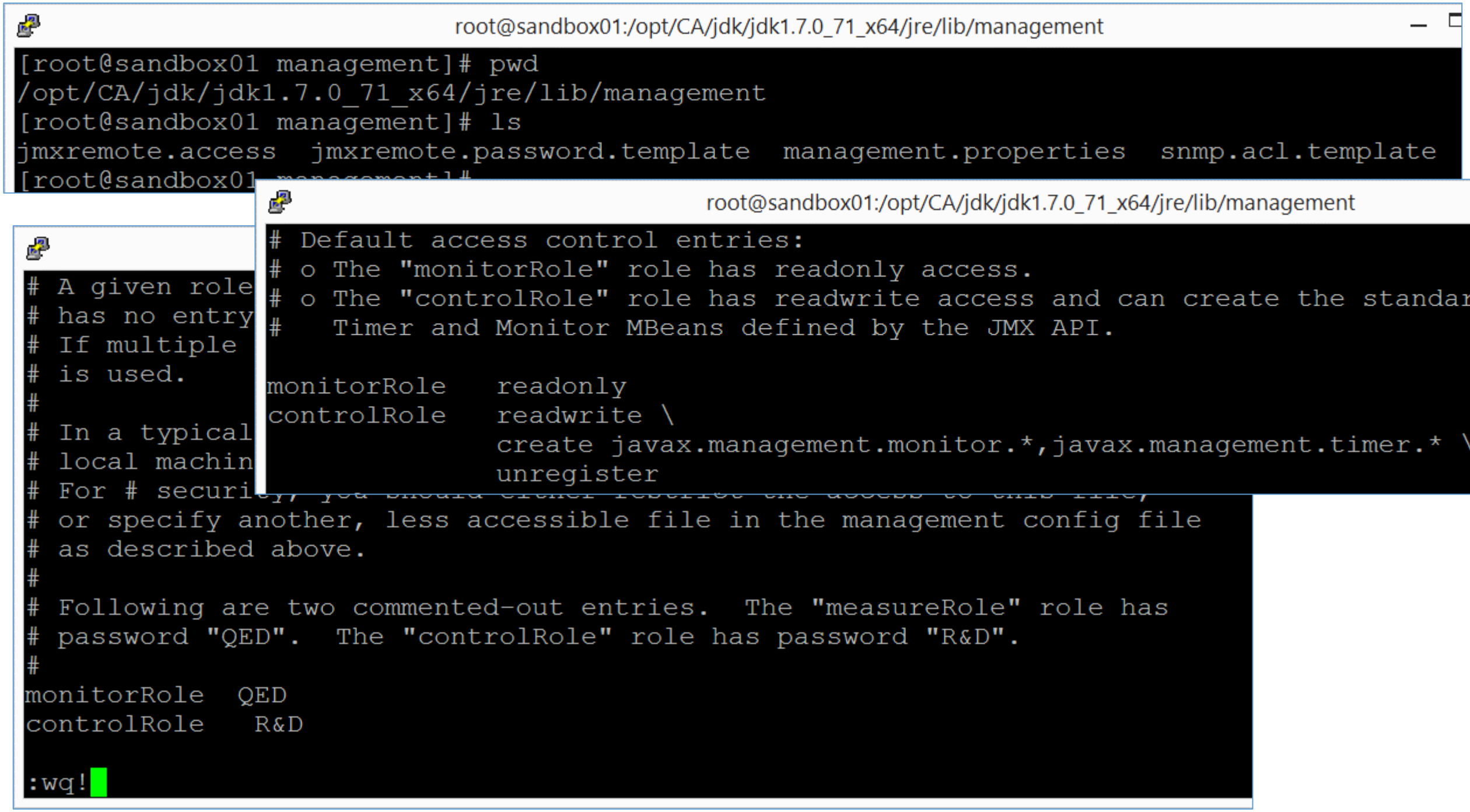
This listenter is very similar to Response Times vs Threads, exept it shows total server's transaction throughput for active test threads. The formula for total server transaction throughput is `<active threads> * 1 second / <1 thread response time>`.

Example calculations:

- when you have one thread (user) sending requests to server and server responds after 100ms, you have `1 thread * 1000ms / 100ms = 10 transactions per second`.
- when you have 10 threads sending requests to server and server responds after 100ms, you have `10 threads * 1000ms / 100ms = 100 transactions per second`. This means that your server haven't reached its resources limits and the more users works with it the more transaction it processes.
- when you have 20 threads sending requests to server and server responds after 200ms, you have `20 threads * 1000ms / 200ms = 50 transactions per second`. This means that at 20 parallel users server become responding slower and there's some overhead to handle parallelism, e.g. database locks.

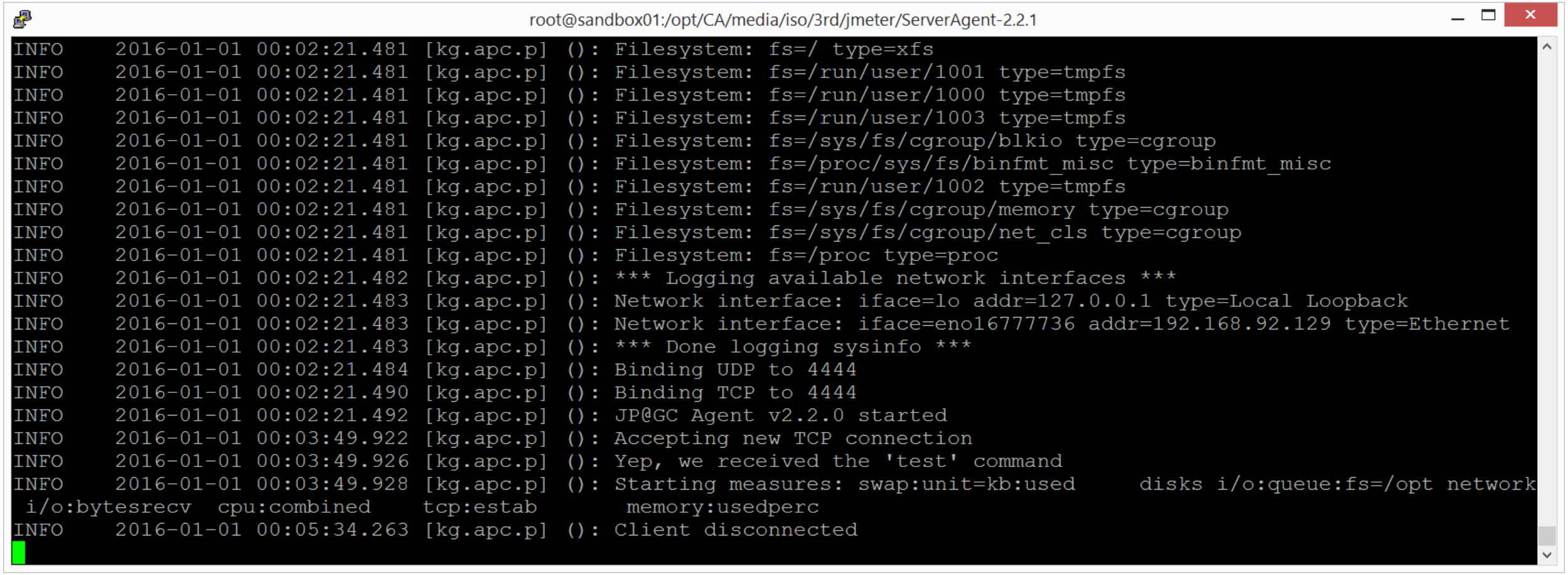
So basically, it shows the statistical maximum possible number of transactions based on number of users accessing the application. In the bellow graph, we can see for the transaction named 'First Access':

- If one user alone access the application, he will have a maximum of 2 transactions per seconds
- If two users access the application, both will have a maximum of 4 transactions per seconds
- etc.


root@sandbox01:/opt/CA/jdk/jdk1.7.0_71_x64/jre/lib/management
[root@sandbox01 management]# pwd
/opt/CA/jdk/jdk1.7.0_71_x64/jre/lib/management
[root@sandbox01 management]# ls
jmxremote.access jmxremote.password.template management.properties snmp.acl.template
root@sandbox01:/opt/CA/jdk/jdk1.7.0_71_x64/jre/lib/management
Default access control entries:
o The "monitorRole" role has readonly access.
o The "controlRole" role has readwrite access and can create the standard
Timer and Monitor MBeans defined by the JMX API.
monitorRole readonly
controlRole readwrite \
create javax.management.monitor.*,javax.management.timer.* \
unregister
A given role
has no entry
If multiple
is used.
In a typical
local machin
or specify another, less accessible file in the management config file
as described above.
Following are two commented-out entries. The "measureRole" role has
password "QED". The "controlRole" role has password "R&D".
monitorRole QED
controlRole R&D
:wq!

Add the ServerAgent default port (4444) to Linux Firewall (Assumes RHEL/CentOS 7.x)

```
firewall-cmd --zone=public --permanent --add-port=4444/tcp
firewall-cmd --reload
```


root@sandbox01:/opt/CA/media/iso/3rd/jmeter/ServerAgent-2.2.1
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/ type=xfs
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/run/user/1001 type=tmpfs
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/run/user/1000 type=tmpfs
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/run/user/1003 type=tmpfs
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/sys/fs/cgroup/blkio type=cgroup
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/proc/sys/fs/binfmt_misc type=binfmt_misc
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/run/user/1002 type=tmpfs
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/sys/fs/cgroup/memory type=cgroup
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/sys/fs/cgroup/net_cls type=cgroup
INFO 2016-01-01 00:02:21.481 [kg.apc.p] (): Filesystem: fs=/proc type=proc
INFO 2016-01-01 00:02:21.482 [kg.apc.p] (): *** Logging available network interfaces ***
INFO 2016-01-01 00:02:21.483 [kg.apc.p] (): Network interface: iface=lo addr=127.0.0.1 type=Local Loopback
INFO 2016-01-01 00:02:21.483 [kg.apc.p] (): Network interface: iface=eno16777736 addr=192.168.92.129 type=Ethernet
INFO 2016-01-01 00:02:21.483 [kg.apc.p] (): *** Done logging sysinfo ***
INFO 2016-01-01 00:02:21.484 [kg.apc.p] (): Binding UDP to 4444
INFO 2016-01-01 00:02:21.490 [kg.apc.p] (): Binding TCP to 4444
INFO 2016-01-01 00:02:21.492 [kg.apc.p] (): JP@GC Agent v2.2.0 started
INFO 2016-01-01 00:03:49.922 [kg.apc.p] (): Accepting new TCP connection
INFO 2016-01-01 00:03:49.926 [kg.apc.p] (): Yep, we received the 'test' command
INFO 2016-01-01 00:03:49.928 [kg.apc.p] (): Starting measures: swap:unit=kb:used disks i/o:queue:fs=/opt network
i/o:bytesrecv cpu:combined tcp:estab memory:usedperc
INFO 2016-01-01 00:05:34.263 [kg.apc.p] (): Client disconnected

http_recorder_example_v503_Working_Clean_Up.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v503_Working_Clean_Up.jmx) - Apache JMeter (2.13 r...

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      - 01a - SM AUTH VIA LOGIN.FCC & PARAMETERS
      - 01b - IM LANDING PAGE
      - Gaussian Random Timer for IM
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  - Graph Results
  - Aggregate Report
  - Aggregate Graph
  - Notes for CPU DISK & Network Performance
  - jp@gc - PerfMon Metrics Collector
  - jp@gc - Response Times vs Threads
  - jp@gc - Transactions per Second
- WorkBench

jp@gc - PerfMon Metrics Collector

Name: jp@gc - PerfMon Metrics Collector

Comments:

Help on this plugin v1.3.1

Servers to Monitor (ServerAgent must be started, see help)

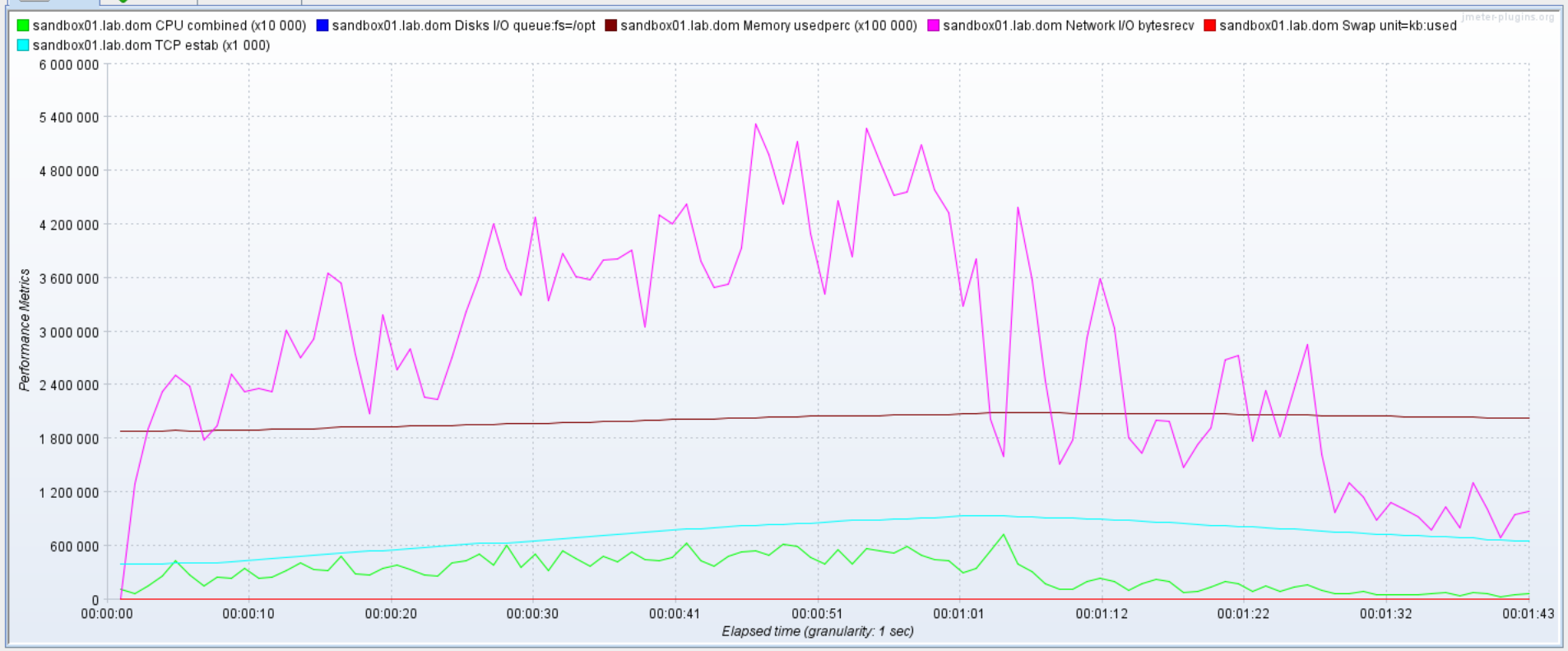
Host / IP	Port	Metric to collect	Metric parameter (see help)
${IMWA_HOSTNAME}	4444	CPU	combined
${IMWA_HOSTNAME}	4444	Memory	usedperc
${IMWA_HOSTNAME}	4444	Swap	unit=kb:used
${IMWA_HOSTNAME}	4444	Disks I/O	queue:fs=/opt
${IMWA_HOSTNAME}	4444	Network I/O	bytesrecv

Add Row | Copy Row | Delete Row

Write results to file / Read from file

Filename | Browse... | Log/Display Only: Errors Successes | Configure

Chart | Rows | Settings



http_recorder_example_v503_Working_Clean_Up.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v503_Working_Clean_Up.jmx) - Apache JMeter (2.13 r...

File Edit Search Run Options Help

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- Test Plan - IM
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    - 06-RESET PASSWORD FOR USER
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  - jp@gc - PerfMon Metrics Collector
  - jp@gc - Response Times vs Threads
  - jp@gc - Transactions per Second
- WorkBench

jp@gc - Response Times vs Threads

Name: jp@gc - Response Times vs Threads

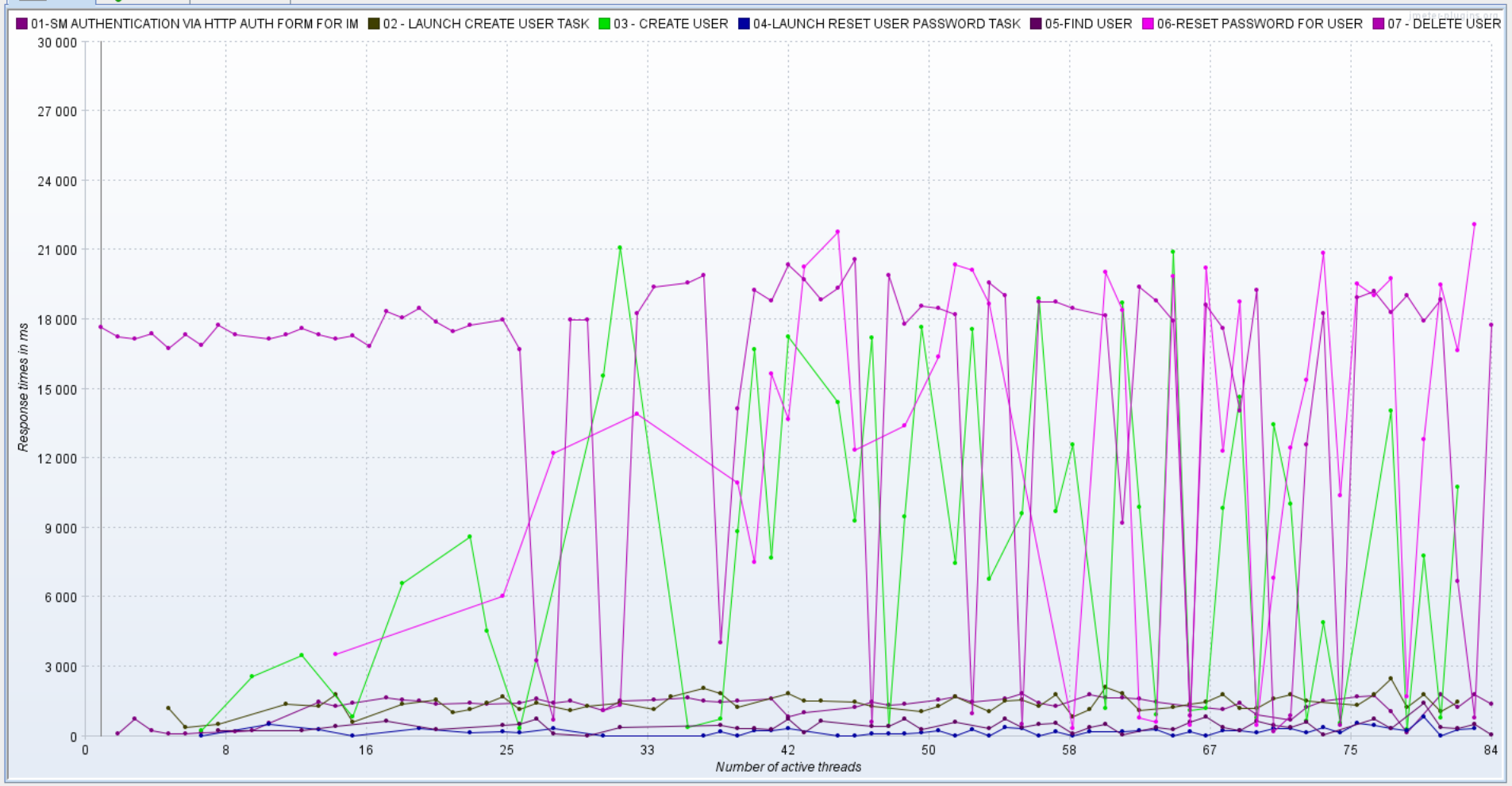
Comments:

Help on this plugin v1.3.1

Write results to file / Read from file

Filename Browse... Log/Display Only: Errors Successes Configure

Chart Rows Settings



http_recorder_example_v503_Working_Clean_Up.jmx (C:\Users\Administrator\Downloads\apache-jmeter-2.13\apache-jmeter-2.13\http_recorder_example_v503_Working_Clean_Up.jmx) - Apache JMeter (2.13 r...

File Edit Search Run Options Help

0 0 / 100

- Test Plan - IM
  - CSV Data Set Config for IM Login
  - Testing Loop for IM
    - HTTP Cookie Manager for IM
    - HTTP Authorization Manager for IM
    - HTTP Request Defaults for IM
    - HTTP Header Manager for IM
    - 01-SM AUTHENTICATION VIA HTTP AUTH FORM FOR IM
      - 01a - SM AUTH VIA LOGIN.FCC & PARAMETERS
      - 01b - IM LANDING PAGE
      - Gaussian Random Timer for IM
    - 02 - LAUNCH CREATE USER TASK
    - 03 - CREATE USER
    - 04-LAUNCH RESET USER PASSWORD TASK
    - 05-FIND USER
    - 06-RESET PASSWORD FOR USER
    - 07 - DELETE USER
    - 08-LAUNCH VIEW SUBMITTED TASKS
    - 09-SUBMITTED VST
    - 10 - LOG OUT OF IM
  - View Results Tree
  - Graph Results
  - Aggregate Report
  - Aggregate Graph
  - Notes for CPU DISK & Network Performance
  - jp@gc - PerfMon Metrics Collector
  - jp@gc - Response Times vs Threads
  - jp@gc - Transactions per Second
- WorkBench

jp@gc - Transactions per Second

Name: jp@gc - Transactions per Second

Comments:

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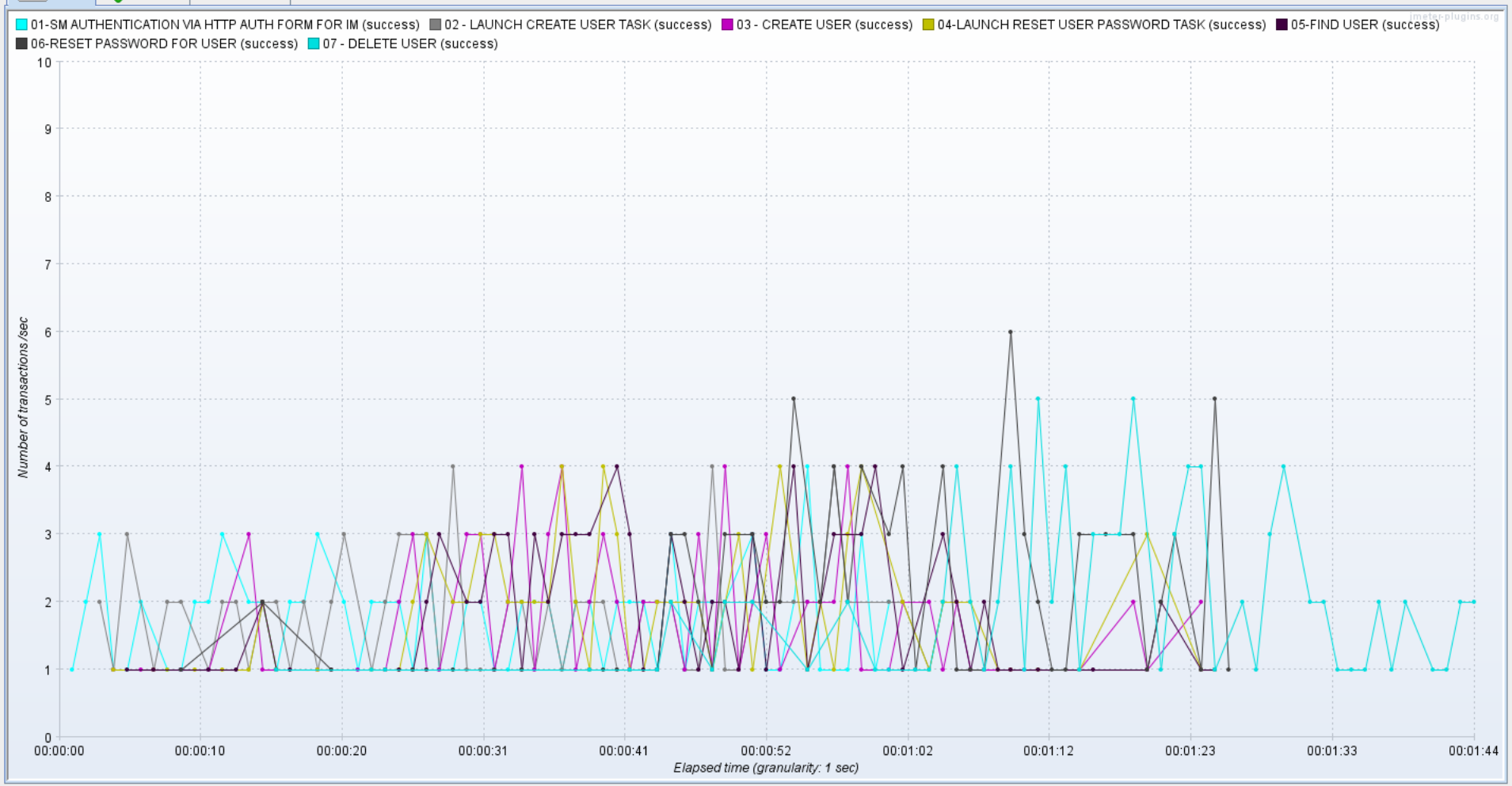
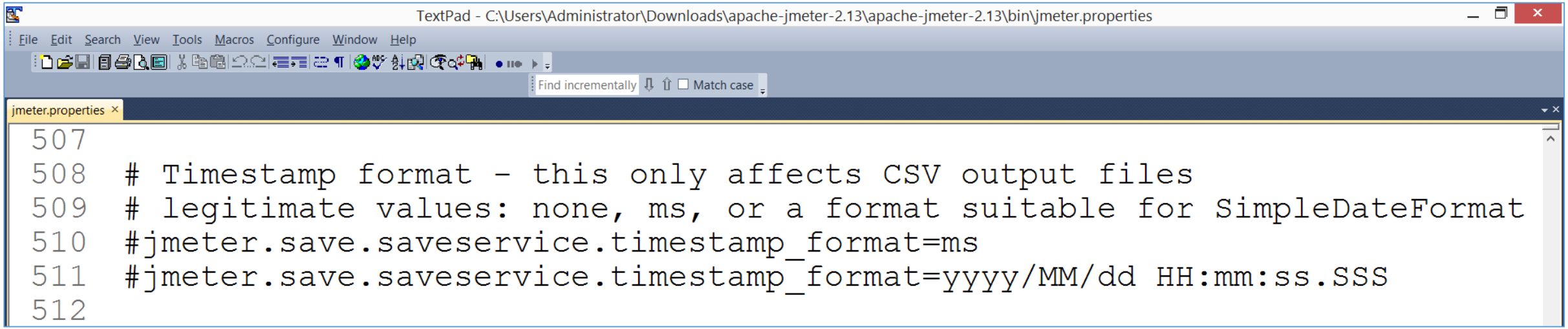
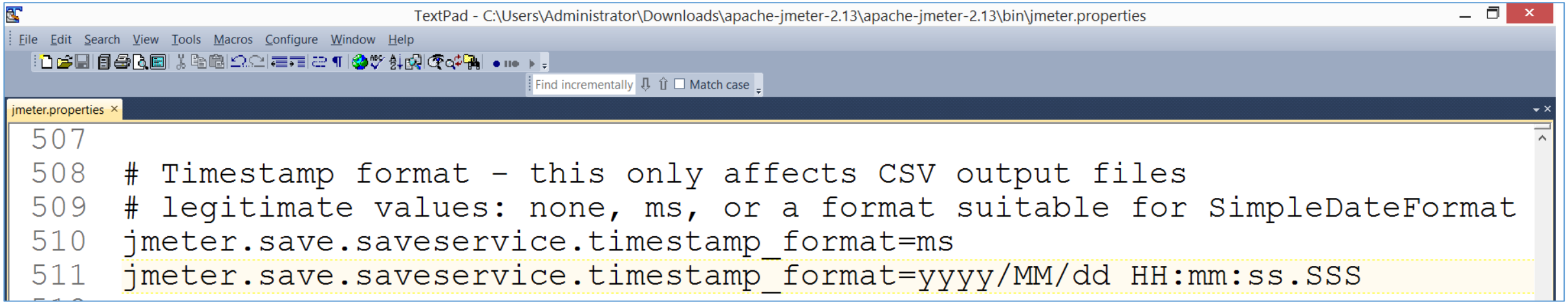
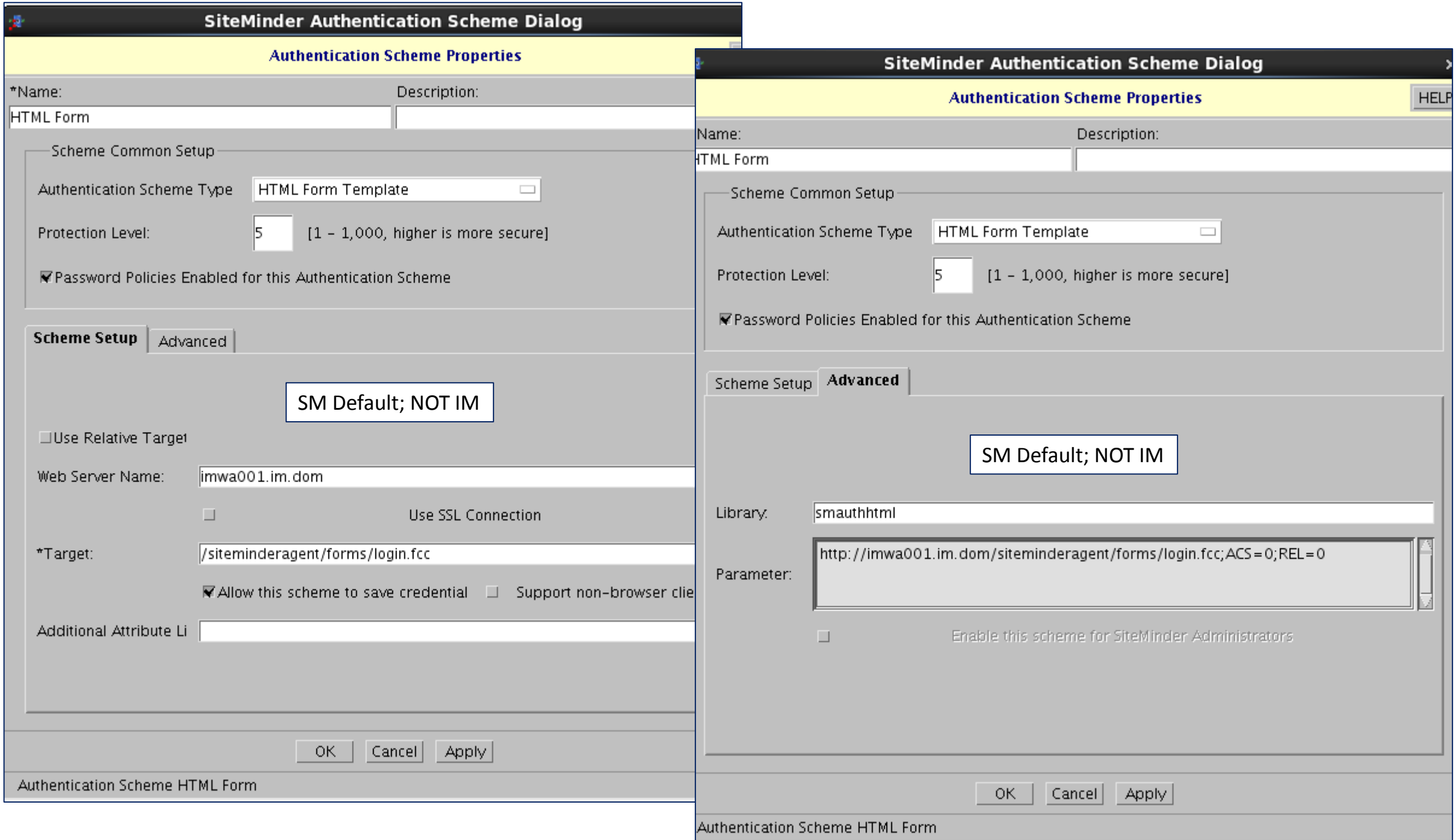
Chart Rows Settings



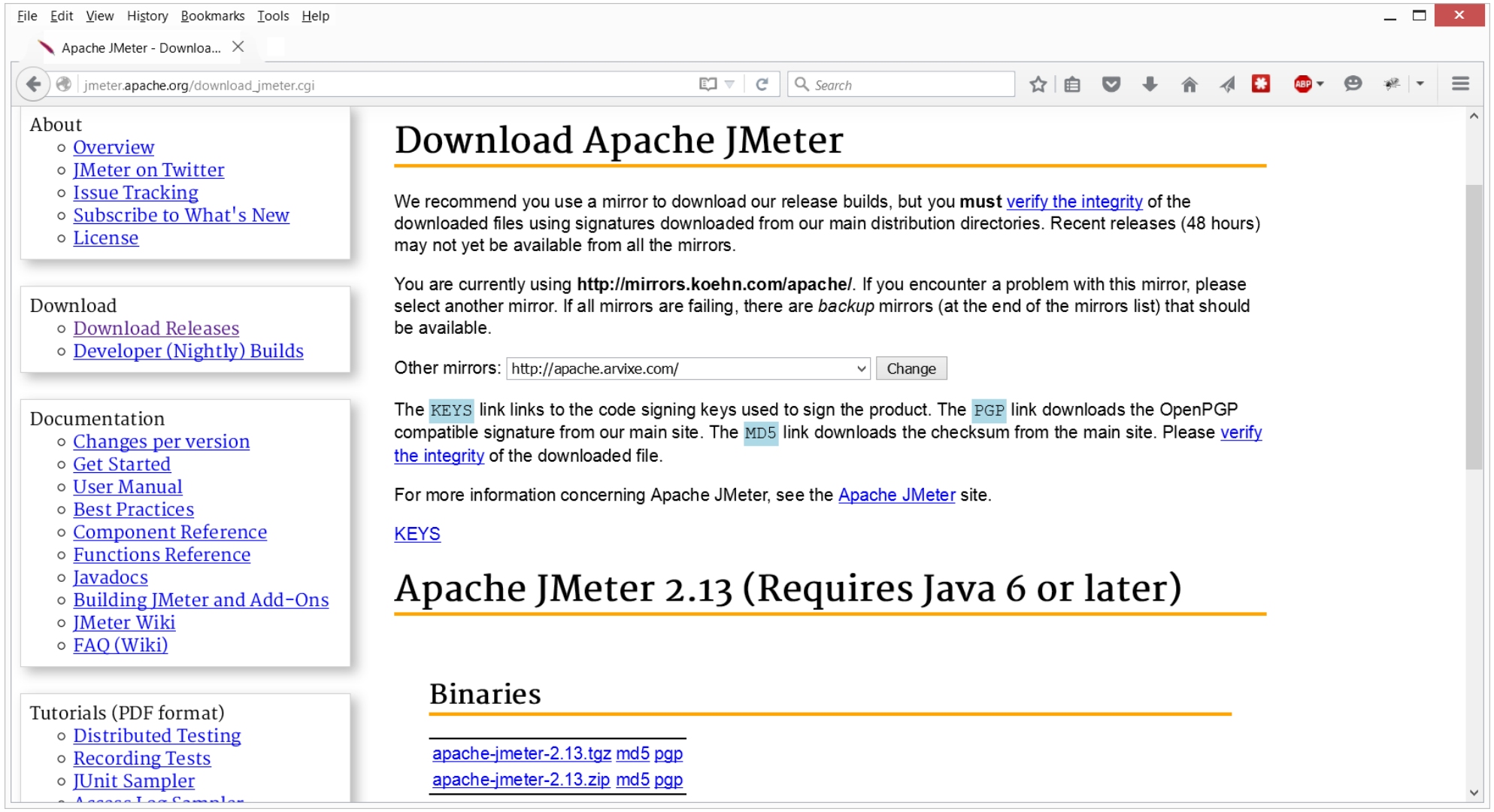
Jmeter Configurations





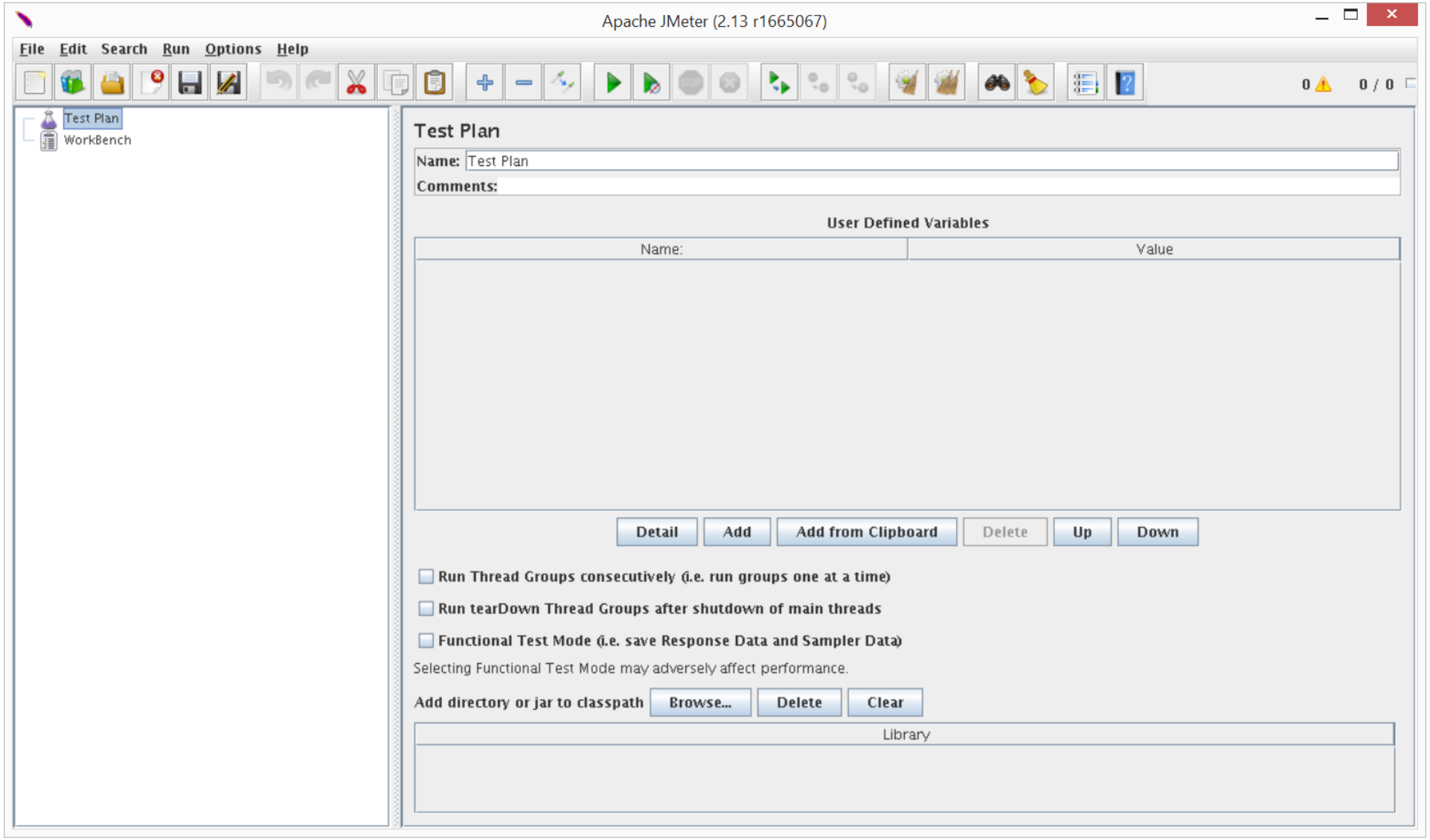

SiteMinder Authentication Scheme Dialog
Authentication Scheme Properties
*Name:
HTML Form
Description:
Scheme Common Setup
Authentication Scheme Type
HTML Form Template
Protection Level:
5
[1 - 1,000, higher is more secure]
Password Policies Enabled for this Authentication Scheme
Scheme Setup
Advanced
SM Default; NOT IM
Use Relative Target
Web Server Name:
imwa001.im.dom
Use SSL Connection
*Target:
/siteminderagent/forms/login.fcc
Allow this scheme to save credential
Support non-browser clie
Additional Attribute Li
OK
Cancel
Apply
Authentication Scheme HTML Form
SiteMinder Authentication Scheme Dialog
Authentication Scheme Properties
HELP
Name:
HTML Form
Description:
Scheme Common Setup
Authentication Scheme Type
HTML Form Template
Protection Level:
5
[1 - 1,000, higher is more secure]
Password Policies Enabled for this Authentication Scheme
Scheme Setup
Advanced
SM Default; NOT IM
Library:
smauthhtml
Parameter:
http://imwa001.im.dom/siteminderagent/forms/login.fcc;ACS=0;REL=0
Enable this scheme for SiteMinder Administrators
OK
Cancel
Apply
Authentication Scheme HTML Form

Where to download Apache Jmeter



Install on Linux & Run remotely

Only needed if wish to remove latency from performance testing.

Suggest latency be retained from a “client” view point, e.g. 20-40 milliseconds

Apache Jmeter Startup View