

ABC's of Performance Testing II: Simplify Testing Questions and Answers November 11, 2014

Q: Is this capability included with Performance Center 12 or an additional HP package compatible with PCtr?

A: Yes, it is.

Q: By capability, I mean TruClient.

A: Yes.

Q: When you run a TruClient test, how many instances of the TruClient can run on a workstation/server?

A: It really depends on the Load Generator HW and the application under test complexity. It is recommended to run 1 Vuser, measure its' footprint and then extrapolate how many can the Load Generator sustain. In addition, please read "Troubleshooting load issues" page in TruClient documentation. We have documented best practices for determining the amount of Vusers, how to monitor the Load Generator and how to scale in case of limit.

Q: How is TruClient licensed?

A: TruClient web protocols are part of the Rich Internet Applications bundle. TruClient Native Mobile does not require any license and TruClient Web Mobile belongs to the Mobile bundle.

Q: When running a TC script on a BPM Data Collector, remotely, is it actually launching browsers or just making DPI calls?

A: A real browser is being launched. When running BPM/LR/PC agent as a process the browser is launched on a different desktop hence it cannot be seen. When the agent is configured to run as a service the browser is launched in Windows Session 0 which cannot be seen by the user unless you turn on "Interactive Services Detection" service.

Q: How about additional sessions about TruClient Function Library, Event Handler and Extensibility?

A: Great idea, will do!

Q: Can we run multiple True client users on the same load generator like Web protocol?

A: Yes, although TruClient Vusers do not scale as Web protocol Vusers since a real browser is being launched for any Vuser. Read [this article](#) for more details about TruClient in the world of Load Testing.

Q: How to convert the True client script to HTTP script?

A: We have the converter component available in v12.

Q: How do you handle looping logic, like the need to code to enter a random number of products onto a shopping cart and then checking out ,so each iteration I want to enter between 5 and 30 product lines to a cart?

A: Record the steps required to add a product to the shopping cart. Add a For Loop step from the Toolbox under Flow Control section. Set the loop to run from 1 to a random parameter configured in parameter dialog. Cut the steps recorded earlier and place them inside the For Loop. Change the identification method of steps that have test object associated with them to XPath and make sure the XPath can handle selection of an object based on the For Loop iterator. There is no generic XPath for that so I cannot write it here to help, but I am sure you can figure it out. In version 12.02 we are going to include example scripts that are a very good source to learn from.

Q: Are the stats collected by running Truclient script anyway less accurate than HTML script?

A: Statistics collected by TruClient script are not less accurate but the statistics are collected from different sources. TruClient gets the statistics from the browser while HTML script gets it from socket level hooks. The data might be different because the script is different and as a result amount of request/sec can be different

Q: If I need to run 500 vusers as trueclient in alm 11.52, how many lg's I should use? Also how powerful should they be as in CPU power and memory/ram?

A: High scale Load Generator (e.g. 32 GB RAM, 16 cores) might sustain this number if you use Terminal Services integration and divide the Vusers on several different sessions. It is recommended using Load Generator with ***at least*** 8 GB RAM and 4 processors. As for the exact number of Load Generators please read "Troubleshooting load issues" in TruClient documentation.

Q: When is LR 12.02 available?

A: <not sure if it is allowed to share this data>

Q: I know in regular script characterization is checking out mmdrv in task manager with multiple iterations. But with TruClient, do you look at IE or Firefox in addition?

A: With TruClient you should check the browser process. Each group runs under different Mdrv and each Mdrv run max of 50 Vusers. For characterization of the Vuser footprint and monitoring the Load Generator it is more important to monitor the browser process.

Q: I did not see the HTML conversion shown but am doing so with some current work. I was looking at running the html output in 11.52 patch 3. Is that possible? I have not upgraded my Perf Center to v12 yet due to current workload.

A: It is not recommended doing so. Forward compatibility is not supported.

Q: When will HP provide True Client support for the Chrome browser?

A: We are not allowed to share dates or exact release. It is a high priority for us to supply a solution for top browsers.

Q: When we try to analyze the Truclient script which is generated for a BSM monitor? The web links in the script view are not displayed completely. It is shown only a part and other part of the link is truncated with Can this be modified to display the whole link so that it will be easy while monitoring the BSM scripts?

A: I suggest opening an enhancement request.

Q: Can StormRunner be used with internal LG's? Or is using cloud LG's required?

A: At the moment it can be used with cloud LG's only but it is on our roadmap to support internal LG's as well.

Q: How does the TruClient resource footprint on the LoadGenerator differ from a standard HTTP VuGen script?

A: TruClient footprint is much bigger since a Vuser runs a browser process which is quite heavy process. See also answers for related questions.

Q: Does truclient work with different browsers?

A: Firefox and IE.

Q: Are truclient scripts supported by BSM/BAC?

A: Yes.

Q: Are there plans to make TruClient to work with Chrome?

A: Yes, we do have Chromium for future.

Q: Are there plans to make TruClient independent of browser version?

A: As a guideline we try to minimize the amount of code which depends on the browser or particular browser version, but since TruClient “lives” in the browser it relies a lot on browser interfaces. Browsers tend to change quite often and we keep up with their newer versions.

Q: Is TruClient tied to a specific version of each browser?
(Example Firefox 22.x) or will it ever be version independent?

A: Some parts of TruClient code are version independent but other parts are compiled with specific browser version (e.g. Web resource metrics are collected by a component which requires compilation with browser binaries). We do our best to supply updated browser version support by releasing patches in between major/minor releases of LoadRunner/Performance Center/BSM.

Q: Does true client record if application opens a new tab/window as part of the application?

A: Yes.

Q: Please clarify, why don't we need correlations if we are using Tru Client?

A: Correlation is a term that comes from Web (HTTP/TML) world and refers to finding a string inside http response. Dynamic values, such as Session ids, .NET view state and a like should not be handled at all as they should not be handled by a real user who browses the application from a browser. TruClient works in the UI level (i.e. Document Object Model level). If you need to capture a value shown in the UI and send it back to the server you can do that by using “Generic Object Action” step, select the UI object and change the action to Get Property. This will allow you to save the value captured to a variable and you will be able to use it in application under test input to send it back to the server.