





Sysload Studio – Open Agent for JMeter

(February 2015 – Build 4)



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Update

Version	Date	Autor	Update
0.1	16/07/2014	Laurent LAO (Automic / Orsyp)	Created
1.02	24/07/2014	Laurent LAO (Automic / Orsyp)	Release
1.03	14/08/2014	Laurent LAO (Automic / Orsyp)	Build2
1.1	03/11/2014	Laurent LAO (Automic / Orsyp)	Build3 : Add debug
2.0	17/02/2015	Laurent LAO (Automic / Orsyp)	Build4 : Add Powershell script Mode Some Correction

References

Version	Date	Autor	Name





1. Introduction

Sysload Studio help you to create your own Monitoring Agents. Thus, custom scripts may beings integrated Monitoring Agents to expand the scope of the monitoring done by Sysload and / or correlate metrics and ability to use third-party servers with metrics (eg number of users connected to a business application, number of transactions, the response time of a request).

For example, agents have already been put in place for our customers to collect metrics - Network (routers, switchs, ...)

- Storage (backup robot, temperature sensors, ...)
- Databases (MySQL, SyBase)
- Application (WebLogic, Apache, Oracle Application Server, ...)
- Business (number of users of a web portal, response time, ...)

The web interface allows Sysload Studio set up metrics and combine these metrics in monitoring scripts (shell, Perl, Powershell, etc..) That will collect the values of these metrics. Monitoring scripts and schedules are encapsulated by the custom Monitoring Agent. Custom Monitoring Agents benefit from standard features Sysload Agents: Alerting, real-time monitoring, historical tracking, projections, centralized deployment, easy maintenance, etc).

This document describes the integrating process for <Agent Name> and prerequisites.





2. Environment Apache JMeter

Command Line (Mode non-GUI)

For non-interactive testing, you may choose to run JMeter without the GUI. To do so, use the following command options:

- -n This specifies JMeter is to run in non-gui mode
- -t [name of JMX file that contains the Test Plan].
- -I [name of JTL file to log sample results to].
- -j [name of JMeter run log file].
- -r Run the test in the servers specified by the JMeter property "remote_hosts"
- -R [list of remote servers] Run the test in the specified remote servers

The script also lets you specify the optional firewall/proxy server information:

- -H [proxy server hostname or ip address]
- -P [proxy server port]

Example : jmeter -n -t my_test.jmx -l log.jtl -H my.proxy.server -P 8000

If the property jmeterengine.stopfail.system.exit is set to true (default is false), then JMeter will invoke System.exit(1) if it cannot stop all threads. Normally this is not necessary.

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3. Sysload Studio : oaJMeter

3.1 Agent Properties

Properties	Value
Agent Code (Type)	oaJMeter
Agent Code Number (Type ID)	1150 (automatic)
Agent Name (Label)	oaJMeter
Default Collector Port	9589
Default Real-time Period (seconds)	30 (default)
Default History Period (minutes)	5 (default)
Value Interpolation	Yes
Target Agent Environment - MS Windows	Yes
Target Agent Environment - Linux / Unix	No





3.2 Domains / Metrics

Following Domain and metrics :

Domain	Type Domain	Metric ID	Label EN	Label FR	Unit
Plan Statistic	Globale	plan_nb_request	Number of request launched	Nombre de requête lancé	nb
		plan_nb_ok	Request in success	Requête en succès	nb
		plan_nb_ko	Request failed	Requête en échec	nb
		plan_exec_time	Plan execution time	Temps d'exécution du plan	ms
Plan Request	Instance	elapsed	Elapsed time	Temps de réponse	ms
		responseCode	Error code	Code d'erreur	-
		success	Success Flag	Statut succès	0/1
		bytes	Bytes	Octets	Octe ts/by tes
		latency	Latency	Latence	ms





3.3 Agent Variable

Agent variables used to define a specific setting for a Monitored Object (MO).

These variables will be measured at the installation and / or in the configuration file of the OpenAgent (File <Agent Name>.ini : oaJMeter.ini).

These variables are used by:

- monitoring task
- Plugins Sysload Studio (Perfmon, SNMP ...)

Agent Variable	Description	Default Value	Encrypted Variable	Using by
%(_moname)	Agent Name		-	
%(_installdir)	Agent Installation Directory		-	Monitoring task
JMeter_bindir	JMeter Binairy directory path		-	Monitoring task
JMeter_plan_file	Set full path Directory and JMeter project JMX file		-	Monitoring task
debug	Debug - Set 1 to active	0	-	Monitoring task
JMeter_delimiter	Set JMeter Delimiter	,	-	Monitoring task
UsePwsScript	Agent Powershell Mode - Set 1 to active	0	-	Monitoring task





3.4 Monitoring Scripts and Tasks

Scripts collection of metrics must be:

- Imported in Sysload Studio Server

- Attached to the metric

Scheduled task data collection can then be configured.

Some metrics are specific according to the role defined in MS Exchange Server 2010. For optimization of server resources, scripts collection detect what is its role and collect only dedicated metric (see table metrics).

Monitoring Script	Collected Metrics	Language du Script
Get_Metrics_JMeter.bat	All metrics	Batch command
Get_Metrics_JMeter.ps1	All metrics	PowerShell

Monitoring Tasks	Schedule cycle	Command Line (Windows)	Command Line (Linux/Unix)
Collect_metrics_JMeter	60 seconds	"%(_installdir)\Get_Metrics_JMeter.bat" "%(mo.JMeter_bindir)" "%(mo.JMeter_plan_file)" "%(mo.JMeter_delimiter)" "%(_moname)" "%(mo.UsePwsScript)" "%(mo.debug)"	Not Apply
[OPTION Use Directly PowerShell Script]	60 seconds	powershell.exe -command ".\Get_Metrics_JMeter.ps1" - AgentName '%(_moname)' - JmeterBinDir '%(mo.JMeter_bindir)' - JmeterProjectFilePath '%(mo.JMeter_plan_file)' - JmeterParseResult '%(mo.JMeter_delimiter)' -debug %(mo.debug)	Not Apply









4. Setup

4.1 Load Project source / Generate resource file

1. Connect on the Web portal Sysload Studio Server (http://<SpsHost>:<SpsPort>)

Sysload Studio - Sign-in			
Sysload	Language Password	English	~
O R 5 Y P !!!!			Login

Default password : sysload

2. Import Open Agent source





Sys	sload sp				
🔝 Design 🔹 🛛 🥜 Deploy 🔹 🖓 Administration 🔹					
0	New Agent				
	Agent List	W/o			
8	Save Agent				
0	Delete Current Agent				
	Export 🕨	Create			
a 1	Import	Create New			
×	Close Current Agent	Monitoring Agent			

Import an Agent	:	×
From File	Select ' <agent>_source.zip' File</agent>	
	Import Close	

Sysload Studio	×
Agent successfully added	
ОК	

3. Open the project





Sysload sP			
🔲 Design 🔻 🥔 Deploy 🕶 ≫ Administration 👻		🔚 Save Agent 🎯 :	Sign-out
Welcome to S	ysload Studio	þ	<u> </u>
Create Create New Monitoring Agent	n Existing toring Agent	Download Download Monitoring Agent Resources	
Sysload Studio enables you to extend the scope of the monitoring captured by Sysload. Create Agents for monitoring your applications and devices.	What to do No Create a new Moni Modify an existing	w? itoring Agent. Monitoring Agent.	T
Ready.			

4. Generate the setup

Sysload	sP	
🔄 Design 🕶 🛛	ß	Deploy 🕶 🛛 🔑 Administrat
Domains	(p)	Generate Setup
Add Domai	Ø	Display Setup Log
😑 🗁 Monitored	O	Publish Agent
B Cite_c	\$	Download Resources

5. Publish the Open agent



4.2 Requirements

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Component: Java 6

JMeter is written in Java language. Java must be installed.







👘 Java Se	tup - Welcome	×
لن اavar		ORACLE
Welcom	e to Java™	
Java pro From bu your inte	vides safe and secure access to the world of amazing Ja siness solutions to helpful utilities and entertainment, Jav rnet experience come to life.	va content. va makes
No perso informat	nal information is gathered as part of our install process ion on what we do collect, see http://java.com/data	. For more
Click Ins	tall to begin installing Java now.	
Change	destination folder Cancel	Install >
👘 Java Se	tup - Progress	
چ) Java	Installing Java This may take a few minutes	ORACLE
Status:	Registering Java Runtime Environment	
3	Billion Devices Run	Java
Cor Kin Cre	nputers, Printers, Routers, Cell Phones, I dle, Parking Meters, Public Transportation Pas dit Cards, Home Security Systems, Cable Bo	BlackBerry, ses, ATMs, xes, TVs
	ORACLE	





🙀 Java Setup - Complete	×
Java ⁻	ORACLE
You have successfully installed Java.	
Java updates will automatically be downloaded to provide you wi features and security improvements. To change this, see http://java.com/autoupdate	th the latest
	Close

Create env variable JAVA_HOME

New System Varia	ble	X		
Variable name:	JAVA_HOME			
Variable value:	C:\Program Files\Java\jre6\bin			
	OK Cancel			

Component : JMeter

Download last package Apache JMeter http://jmeter.JMeter.org/download_jmeter.cgi







Unzip the package in a appropiate directory

🕌 win64_11gR2_client	Open
📑 apache-jmeter-2.11.	Open in new window
실 jre-6u45-windows-x6	Extract All





👫 Еж	tract Compressed (Zipped) Folders		×
\bigcirc	🚹 Extract Compressed (Zipped) Folders		
	Select a Destination and Extract Files		
	Files will be extracted to this folder:		
	CN	Browse	
	Show extracted files when complete		
		Extract Cance	



Configuration Apache JMeter

Edit config file imeter.properties

1. Go to JMeter installation directory

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<JMeter_dir>/bin/

- 2. Create a backup conf file : jmeter.properties
- 3. Edit conf file jmeter.properties

📔 bin			
😋 🔵 🗸 🖌 🗸 Computer 🝷 Local Disk (C:) 🝷 apache-jmeter-2.11 🝷 bin 👻			
Organize 🔻 📄 Open 🛛 N	ew folder		
🔶 Eavorites	Name *	Date mo	
Deskton	🍓 jmeter.bat	12/31/2	
Downloads	📄 jmeter.log	7/16/20	
🖳 Recent Places	jmeter.properties	7/22/20	
		to lot lo	

Custom results output « non-GUI » :

```
_____
#۰
# Results file configuration
# This section helps determine how result data will be saved.
# The commented out values are the defaults.
# legitimate values: xml, csv, db. Only xml and csv are currently
supported.
jmeter.save.saveservice.output_format=csv
# true when field should be saved; false otherwise
# assertion results failure message only affects CSV output
#jmeter.save.saveservice.assertion results failure message=false
#
# legitimate values: none, first, all
#jmeter.save.saveservice.assertion results=none
#
jmeter.save.saveservice.data type=true
jmeter.save.saveservice.label=true
jmeter.save.saveservice.response_code=true
# response_data is not currently supported for CSV output
#jmeter.save.saveservice.response_data=false
# Save ResponseData for failed samples
```



```
#jmeter.save.saveservice.response data.on error=false
jmeter.save.saveservice.response message=true
jmeter.save.saveservice.successful=true
#jmeter.save.saveservice.thread name=true
#jmeter.save.saveservice.time=true
#jmeter.save.saveservice.subresults=true
#jmeter.save.saveservice.assertions=true
jmeter.save.saveservice.latency=true
#jmeter.save.saveservice.samplerData=false
#jmeter.save.saveservice.responseHeaders=false
#jmeter.save.saveservice.requestHeaders=false
#jmeter.save.saveservice.encoding=false
jmeter.save.saveservice.bytes=true
#jmeter.save.saveservice.url=true
#jmeter.save.saveservice.filename=false
#jmeter.save.saveservice.hostname=false
#jmeter.save.saveservice.thread counts=false
#jmeter.save.saveservice.sample count=false
#jmeter.save.saveservice.idle time=false
# Timestamp format - this only affects CSV output files
# legitimate values: none, ms, or a format suitable for
SimpleDateFormat
#jmeter.save.saveservice.timestamp_format=ms
#jmeter.save.saveservice.timestamp_format=yyyy/MM/dd HH:mm:ss.SSS
# For use with Comma-separated value (CSV) files or other formats
# where the fields' values are separated by specified delimiters.
# Default:
jmeter.save.saveservice.default_delimiter=;
# For TAB, since JMeter 2.3 one can use:
#jmeter.save.saveservice.default delimiter=\t
# Only applies to CSV format files:
jmeter.save.saveservice.print field names=true
```

Write messages to System.out summariser.out=true

4. Save the file jmeter.properties





4.3 Setup OpenAgent oaJMeter

Where install the agent



Get installation kit

5. Connect on Sysload Studio Server (http://<SpsHost>:<SpsPort>)

Sysload Studio - Sign-in				
Sysload	Language Password	English	~	
OR SYP III			Login	.S. All other trademarks e without notice.





Default password : sysload

6. Click on « Download » section



7. Select oaJMeter Agent and click on « Download »

Parameter	Value
Resource type	Agent Setup
Agents	Published
Agent List	oaJMeter
Operating System	Windows (x64)





Resource Type	Agent Setup	~	
Agents	O Unpublished O Pu	ublished	
Agent List	oaJMeter	*	
Version/Build	5.80 build 4	*	
Operating System	Windows (x64)	~	
Download URL	http://win2k8r2:90/down /?&method=spanalyst_se x64&name=oaJMeter	loadMgr etup_file&os=win-	Download

Setup on MS Windows Platform

- 1. Check the rules for opening ports on your network device (Firewall and Gateway).
- 2. Check your token server, if a SA OPENAGENT token is available
- 3. Copy the setup package to a temporary directory on the target host



4. Unzip the setup package **spa-ag_oaJMeter-v5.80_build_4-win-x64-install_cmd.zip**



5. Run command Prompts as **Administrator** and go to the temporary directory:

cd /d c:\Sources\spa-ag_oaJMeter-v5.80_build_4-win-x64-install_cmd

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6. Run Setup command with install parameter



Follow the instruction : <CR> equivalent to carriage return

In the blue section, new parameter is introduced from Installation using Agent Core v5.80

```
SP Analyst Agent oaJMeter 5.80 (monitoring core version) :Installation
(first install) ...
* Sysload temp directory (parameter 'tmpdir')? [ C:\Program
Files\Sysload\tmp ] : <CR>
    . Checking tmpdir:'C:\Program Files\sysload\tmp'...
* Sysload admin directory (parameter 'admindir')? [ C:\Program Files\Common
Files\sysload\admin ] : <CR>
    . Checking admindir:'c:\Program Files\Common Files\sysload\admin'...
* Sysload home directory (parameter 'homedir')? [ C:\Program Files\Sysload ]
: <CR>
    . Checking homedir:'C:\Program Files\Sysload'...
ORSYP SOFTWARE USER LICENSE
--Enter: '': Display more / 'y': I agree with the License Agreement / 'n': I
```

do not agree with the License Agreement-- : **y**




```
* Sysload Token Server name or IP (parameter 'tkserver')? : <TksHost>
* Sysload Token Server port number (parameter 'tkport')? [ 9555 ] : <CR>
* Enable Automation (y/n) (parameter 'enableautomation')? [ y ] : <CR>
Sysload File Server ini path (parameter 'FileServerIniFilePath')? [
C:\Program Files\sysload\sldfsd\sldfsd.ini ] : <CR>
Sysload Management Server name or IP ? : <MgtsHost>
* Sysload Management Server port number for Agents ? [ 9901 ] : <CR>
^{\scriptscriptstyle c} Agent Host for Monitored Object registration {IP Adress, FQDN or "-" if
empty}? [ - ] : <CR>
* MO Groups {"class1.name1|class2.name2| ...." Where class=category, system
role or zone}? [ - ] : <CR>
* List of Monitored Objects to monitor (parameter 'molist')? : PLAN JMX
    . Checking user...
* AD Account for service (syntax: LocalSystem | <userdomain>\<username>) [
LocalSystem ] : <USERDOMAIN>\<USERAD>
* Enter Password : *****
* Re-enter Password : *****
* Do you want to configure Sysload services to automatic start mode (y/n) [
y ] : <CR>
* Do you want to configure Sysload services to start at the end of the setup
(y/n)
 [y]: <CR>
    . Work in progress...
    . Installing/Updating Sysload files...
* [Monitored object 'PLAN JMX'] (parameter 'JMeter bindir')? [ ] :
"C:\apache-jmeter-2.11\bin"
* [Monitored object 'PLAN JMX'] (parameter 'JMeter_plan_file')? [ ] :
"C:\apache-jmeter-2.11\PLAN JMX.jmx"
* [Monitored object 'PLAN JMX'] Set 1 to Active (parameter 'debug)? [ 0 ]
: <CR>
```


* [Monitored object 'PLAN_JMX'] Set JMeter Delimiter (parameter 'JMeter_delimiter')? [;] : <CR>

* [Monitored object '**PLAN_JMX**'] Set 1 to Active Agent PowerShell Mode (parameter 'UsePwsScript')? [0] : **<CR>**

. Starting Sysload services...

SP Analyst Agent oaJMeter 5.80 (monitoring core version) :Installation (firstinstall) done

4.4 [OPTION] Configuration

- 1. Open the Services Manager
- 2. Stop the Collector agent service
 - Sysload Collector oaJMeter

3. Go to the Agent install directory, create a backup and edit the agent configuration file oaJMeter.ini

- - 4. Modify following parameters :
 - <u>Activate purge agent logs</u>

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[LogParam]
#Default is cyclic log not activated
EnableCyclicLog=1
#Size (in KB) of the program log file when the log file is set to be
circular.
CyclicLogMaxFileSizeKb=100000

[LogParam] #Default is cyclic log not activated EnableCyclicLog=1

#Size (in KB) of the program log file when the log file is set to be circular. CyclicLogMaxFileSizeKb=100000

<u>Activate purge histored data file</u>

- 5. Start the Collector agent service
 - Sysload Collector oaJMeter

🖏 Services						
<u>File Action V</u> iew	Help					
🗢 🔿 🖬 🖸	à 🗟 🛛 🖬 🕨 🖿 🕕 🕨					
🤹 Services (Local)	Name 🔺	Description	Status	Startup Type	Log On As	▲
	Software Protection	Enables th		Automatic (D	Network Service	
	Special Administration Console Helper	Allows adm		Manual	Local System	
	SPP Notification Service	Provides S		Manual	Local Service	
	SSDP Discovery	Discovers		Disabled	Local Service	
	🧟 Sysload Collector		Started	Automatic	Local System	
	Sysload Collector oaEXCH2010		Started	Automatic	vnf-principal\svcsld	
	🧟 Sysload FileServer		Started	Automatic	Local System	
	🧟 Sysload ScriptMonitor			Manual	Local System	
	🧟 Sysload Software Distribution Client		Started	Automatic	Local System	
	System Event Notification Service	Monitors s	Started	Automatic	Local System	
	🛄 Task Scheduler	Enables a	Started	Automatic	Local System	•
	Extended Standard					

4.5 Check control

To check the OpenAgent open a webpage with the following address : http://<hostname>:<port listener http>

URL Module OpenAgent : http://<AgentHost>:9589

oaJMeter	oaJMeter							
Tue Feb 17 19:33:45 2015 Home	j							
General informa	ation							
Version	5.80 (Build 4)							
Start time	Tue Feb 17 19:30:27 2015							
License status	OK							
Sua Core Version	5.80 (Build 61)							
Openagent Core Version	5.80 (Build 22)							
Alert status Agent Total alerts Begin Persistent End 1 JMETER211 0 0 0 0								
Actions								
 Set General Options . Diagnose 								
 Set Admin Events / S 	nmp Traps options							

Openagent ...

5. Update the Sysload Server ressource file

5.1 Get Ressources kits

Get Ressources Files for Management Server

1. Connect on the Sysload Studio Server (http://<SpsHost>:<SpsPort>)

Sysload Studio - Sign-in			
Sysload	Language Password	English	~
ORSYP IIII			Login

Default password : sysload

2. Click on « Download » Section

3. Select oaJMeter Agent and click on « Download »

Parameter	Value
Resource type	Management Server
Agents	Published
Agent List	oaJMeter

ownload		
Resource Type	Management Server	
Agents	C Unpublished O Published	
Agent List	oaJMeter 💙	
Version/Build	5.80 build 4	
Download URL	http://win2k8r2:90/downloadMgr /?&method=spanalyst_mgts_file&nam	e=oaJMeter
	Close	

Get Ressources Files for Sysload Analyst Console

1. Select oaJMeterAgent and click on « Download »

Parameter	Value
Resource type	Sysload Analyst Console
Agents	Published
Agent List	oaJMeter

Resource Type	SP Analyst Console	
Agents	C Unpublished O Published	
Agent List	oaJMeter 💙	
Version/Build	5.80 build 4	
Download URL	http://win2k8r2:90/downloadMgr /?&method=spanalyst_console_file_des& name=oaJMeter	Download

Get Ressources Files for Sysload Portal

1. Select oaJMeterAgent and click on « Download »

Parameter	Value
Resource type	Sysload Portal
Agents	Published
Agent List	oaJMeter

Resource Type	SP Portal	*
Agents	C Unpublished 💿 Published	
Agent List	oaJMeter	*
Version/Build	5.80 build 4	*
Download OKL	/?&method=spanalyst_portal_file	&name=oaJMeter

5.2 Update process

Update Sysload Management Server ressources files

1. Copy the package in a temporary directory on the Sysload Management Server host

🚹 oaJMeter_source.zip

i) oaJMeter-v5.80_build_4-addons-console.zip

hoaJMeter-v5.80_build_4-addons-mgts.zip

i) oaJMeter-v5.80_build_4-addons-spportal.zip

spa-ag_oaJMeter-v5.80_build_4-win-x64-install_cmd.zip

2. Unzip the package oaJMeter-v5.80_build_4-addons-mgts.zip

3. Copy files in the Sysload Management Server ressources agents directory

Example : C:\P	rogram Files\S	ysload\sldm	gts\resources\ag	ents
----------------	----------------	-------------	------------------	------

🅌 agents									
→ Program Files (x86) → sysload → sldmgts → resources → agents									
Organize 👻 📄 Open New folder									
🔶 Eavorites	Name 🔶	Date modifie							
	agtres_oaapache_en.res	5/26/2014 10							
	agtres_oaapache_fr.res	5/26/2014 10							
🗓 Recent Places	agtres_oajmeter_en.res	7/22/2014 5:							
	agtres_oajmeter_fr.res	7/22/2014 5:							
🔚 Libraries	Cantres namoss2010 en res	5/17/2013 2							

4. Modify the Sysload Management Server ressources agents type file

a 🖉	igentt	ypes.txt	- Not	epad										
File	Edit	Format	View	Help										
		<type< th=""><th>e><na< th=""><th>.me>oa№</th><th>10552007</th><th>7 <</th><th>:/name</th><th>e></th><th><</th><th>id>11</th><th>21<!--</th--><th>id><!--1</th--><th>type></th><th></th></th></th></na<></th></type<>	e> <na< th=""><th>.me>oa№</th><th>10552007</th><th>7 <</th><th>:/name</th><th>e></th><th><</th><th>id>11</th><th>21<!--</th--><th>id><!--1</th--><th>type></th><th></th></th></th></na<>	.me>oa№	10552007	7 <	:/name	e>	<	id>11	21 </th <th>id><!--1</th--><th>type></th><th></th></th>	id> 1</th <th>type></th> <th></th>	type>	
		<tv́p∈< th=""><th>e><na< th=""><th>ıme>oaB</th><th>XCH2010</th><th>) <</th><th>(/name</th><th>e></th><th><</th><th>id>10</th><th>73<⁄/</th><th>id><!--/</th--><th>týpe></th><th></th></th></na<></th></tv́p∈<>	e> <na< th=""><th>ıme>oaB</th><th>XCH2010</th><th>) <</th><th>(/name</th><th>e></th><th><</th><th>id>10</th><th>73<⁄/</th><th>id><!--/</th--><th>týpe></th><th></th></th></na<>	ıme>oaB	XCH2010) <	(/name	e>	<	id>10	73<⁄/	id> /</th <th>týpe></th> <th></th>	týpe>	
		<týp∈< th=""><th>e><na< th=""><th>.me>oa№</th><th>1055201(</th><th>) <</th><th>:/name</th><th>e></th><th><</th><th>id>11</th><th>94<i><</i>/</th><th>id><!--1</th--><th>týpe></th><th></th></th></na<></th></týp∈<>	e> <na< th=""><th>.me>oa№</th><th>1055201(</th><th>) <</th><th>:/name</th><th>e></th><th><</th><th>id>11</th><th>94<i><</i>/</th><th>id><!--1</th--><th>týpe></th><th></th></th></na<>	.me>oa№	1055201() <	:/name	e>	<	id>11	94 <i><</i> /	id> 1</th <th>týpe></th> <th></th>	týpe>	
		<týpe< th=""><th>e><na< th=""><th>ime>oas</th><th>SCSGM</th><th></th></na<><th>me></th><th><id>1</id></th><th>107<</th><th>/id><</th><th>/typ</th><th>e> `</th><th>2.</th><th></th></th></týpe<>	e> <na< th=""><th>ime>oas</th><th>SCSGM</th><th></th></na<> <th>me></th> <th><id>1</id></th> <th>107<</th> <th>/id><</th> <th>/typ</th> <th>e> `</th> <th>2.</th> <th></th>	ime>oas	SCSGM		me>	<id>1</id>	107<	/id><	/typ	e> `	2.	
		<týp∈< th=""><th>e><na< th=""><th>ime>oaC</th><th>praclebo</th><th>11</th><th></th></na<><th>ame></th><th><</th><th>id>11</th><th>65<!--</th--><th>id><!--1</th--><th>type></th><th></th></th></th></th></týp∈<>	e> <na< th=""><th>ime>oaC</th><th>praclebo</th><th>11</th><th></th></na<> <th>ame></th> <th><</th> <th>id>11</th> <th>65<!--</th--><th>id><!--1</th--><th>type></th><th></th></th></th>	ime>oaC	praclebo	11		ame>	<	id>11	65 </th <th>id><!--1</th--><th>type></th><th></th></th>	id> 1</th <th>type></th> <th></th>	type>	
		<t th="" ýpe<=""><th>e><na< th=""><th>ıme>oaF</th><th>ring</th><th><th>ie></th><th><id>1</id></th><th>130<</th><th>/id><</th><th>/typ</th><th>e></th><th></th><th></th></th></na<></th></t>	e> <na< th=""><th>ıme>oaF</th><th>ring</th><th><th>ie></th><th><id>1</id></th><th>130<</th><th>/id><</th><th>/typ</th><th>e></th><th></th><th></th></th></na<>	ıme>oaF	ring	<th>ie></th> <th><id>1</id></th> <th>130<</th> <th>/id><</th> <th>/typ</th> <th>e></th> <th></th> <th></th>	ie>	<id>1</id>	130<	/id><	/typ	e>		
		_ <týpe< td=""><td>e><na< td=""><td>ıme>oaA</td><td>vpačhe –</td><td><td>ame></td><td><id>1</id></td><td>.020<</td><td>/id><</td><td>/týp</td><td>e></td><td></td><td></td></td></na<></td></týpe<>	e> <na< td=""><td>ıme>oaA</td><td>vpačhe –</td><td><td>ame></td><td><id>1</id></td><td>.020<</td><td>/id><</td><td>/týp</td><td>e></td><td></td><td></td></td></na<>	ıme>oaA	vpačhe –	<td>ame></td> <td><id>1</id></td> <td>.020<</td> <td>/id><</td> <td>/týp</td> <td>e></td> <td></td> <td></td>	ame>	<id>1</id>	.020<	/id><	/týp	e>		
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<th>igent</th> <th>types></th> <th></th>	igent	types>												

See Chapter Agent Properties

<type><name>oaJMeter </name> <id>1150</id></type>

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5. Restart the service « Sysload Management Server »

🍇 Services					_ 🗆 ×	
<u>File Action V</u> iew	Help					
⇔ → 💽 😭 🖸) 🗟 😫 🖬 🕨 🗉 🗉 🖦					
🆏 Services (Local)	Name 🛆	Description	Status	Startup Type	Log On 🔺	
	🏶 Sysload Feedback agent for IP		Started	Automatic	Local Sy	
	🏶 Sysload Files Agent		Started	Automatic	Local Sy	
	🏶 Sysload FileServer		Started	Automatic	Local Sy	
	🏶 Sysload HPSwitch Agent			Disabled	Local Sy	
	🏶 Sysload Log Monitor		Started	Automatic	Local Sy	
	Sysload Management Server		Started	Automatic	Local Sy	
	🏶 Sysload oaNetBrocade Agent		Started	Automatic	Local Sy	
	🏶 Sysload oaSanEmc Agent		Started	Automatic	Local Sy	
System Started Automatic						
	Extended Standard					

Update Sysload Analyst Console Ressources Files

1. Open a Sysload Analyst Console

sP	Management Server: WIN2K8R2
Sysload	User: admin Password: *****
	Reconnect automatically at startup
OR SYP IIII	OK Cancel

2. Click in the menu on "File" -> "Import Agent Ressources ..."

- 3. Set the Sysload Studio Server URL : http://<SpsHost>>:<SpsPort>
 - a. Click on Display
 - b. Select the published Monitored object : oaJMeter
 - c. Click on Import

Import Agent Resource	5	X
Published Agent Agent in De	evelopment Local Directory	
Download URL: Published Agents:	http://WIN2K8R2:90 oaApache oaBrocadeLB oaEXCH2010 oaJMeter oaMOSS2007 oaPing oaSanEMC oaSanEMC oaSanVNX oaScDevice oaWebsphere	Display
		Import
		Close

4. Check Copy files in the Sysload Analyst Console resources agents directory

Example : C:\Program Files\Sysload\Console

Update Sysload Portal ressources files

2. Connect to Sysload Portal (http:// <SppHost>:<SppPort>)

Sysload 💵 Log In	
User Name	
admin	
Password	
•••••	
Log In	Remember me

3. Click on Administration > Parameters

Sy	/slo	ad 🖻 Dashboards Designs New Dashboard 🛛 Simulation	- Administration -
Da	shboa	ards	Users
2	Refre	Folders	
		Dashboard Name Description	Profiles
	1	Rapport Global	Template Library
	2	Rapport Global	Maintenance
	3	Rapport Global	Parameters

4. Click on Agent Management

Sysload SP Dashboards Designs New Dashboard + Simulation + Administration +								
Administration								
Configuration	Import Age	ent Resources						
👮 Profile List	Upload R	esources File	From Sysload Stu	oibu				
🝺 Template Library	Agent Res	ource	Select a fi	ile				
4 🌼 Maintenance								
💆 Scheduled Tasks	関 Upload							
Execution Log	Agent Reso	Agent Resources Installed						
 Parameters 	2 Refresh							
🥜 General Parameters	Action	Agent Type		Agent Category		Agent Resource Version		
📳 Agent Management	1	Active Dir.		Application		v5.20		
Metric Selection	2	AS400		System		v5.60 (build 1)		
Collected Metrics Recap	з	Citrix		System		v5.60 (build 1)		
😰 Sysload Portal Information 🖵	4	DNS		Application		v5.20		
	5	ESX 2.5 VM	Ware	System		v5.20		

5. Go to From Sysload Studio

- a. Set the Sysload Studio Server URL : http://<SpsHost>>:<SpsPort>
- b. Click on 🔎
- c. Select the published Monitored object : oaJMeter
- d. Click on Upload

Imp	ort Ager	it Resources			
Up	load Re	sources File From S	ysload Studio		
De	ownload b	ase URL	http://WIN2K8R2:90		9
Pu	ublished A	gents	Select	~	
	Upload		oaApache	▲	
_		-	oaBrocadeLB		
Age	ent Resou	rces Installed	oaEXCH2010		
3	Pofrach		oaJMeter		
RC.	Refresh		oaMOSS2007		
	Action	Agent Type	oaPing		Agent Resource Ve
1		Active Dir.	oaSanEMC		v5.20
			oaSanVNX		
2		AS400	oaScDevice		v5.60 (build 1)
3		Citrix	oaWebsphere		v5.60 (build 1)
			oaApache		
4		DNS	oaBrocadeLB		v5.20
5		ESX 2.5 VMWare	oaEXCH2010	-	v5.20

6. The following message is displayed. Click on OK to finish the process

Update Sysload Monitor configuration - Adaptator SPA Event

1. Modify the Adaptor config files

Example : C:\Program Files (x86)\sysload\spmonitor\spmadaptor\spanalyst\agenttypes.txt

📙 spanalyst		
🕤 🖓 🗸 Local Disk (C:) 🔹 Program Files (x86) 🔹 sysload 🔹 spmonitor 🔹	pmadaptor 👻 spanalyst	
Organize 🔻 🧾 Open 🔻 Print New folder		
Recent Places Name ^	Date modified	Туре
🔁 Libraries	4/9/2009 1:55 AM	Text (
Documents agenttypes.txt	1/15/2014 5:12 PM	Text [
h Music	4/9/2009 1·56 ΔΜ	Tevt (
agenttypes.txt - Notepad		
File Edit Format View Help		
<pre><type><name>oaMOSS2007 </name> <ic <type><name>oaEXCH2010 </name> <ic <type><name>oaEXCH2010 </name> <ic <type><name>oaSCSGM </name> <id>1107<type><name>oaOracleDG11 </name> <id>1107<type><name>oaOracleDG11 </name> <id>1130<type><name>oaPing </name> <id>1130<type><name>oaApache </name> <id>1020<type><name>oaJMeter </name> <id>1150></id></type></id></type></id></type></id></type></id></type></id></type></ic </type></ic </type></ic </type></pre>	>1121>1073>1194d> >1165d> d> d> d>	10> 10> 10>

See Chapter Agent Properties

<type><name>oaJMeter </name> <id>1150</id></type>

2. Restart the Service Adaptor

Q, Services									
File Action View Help									
🔍 Services (Local) 🛛 Name 🔺	Description) Status	Startup Type						
Sysload Collector oaScS	GM	Started	Automatic						
🛛 🤍 Sysload FileServer		Started	Automatic						
🛛 🤍 Sysload Log Monitor	🛛 🧟 Sysload Log Monitor								
🔹 🥋 Sysload ScriptMonitor	🤹 Sysload ScriptMonitor								
🔹 🥋 Sysload Software Distrib	Sysload Software Distribution Client								
Sysload SP Analyst Ever	it Adaptor Receives e	Started	Automatic						
🔹 🥋 Sysload SP Monitor Engi	ne Provides S	Started	Automatic						
🛛 🤍 Sysload SP Monitor Web	Server Apache/2.	Started	Automatic						
🤹 🥋 Sysload SP SNMP Trap A	daptor Convert S.	Started	Automatic						
🔹 🧟 System Event Notificatio	n Service Monitors s	Started	Automatic						
🕺 Task Scheduler	Enables a	Started	Automatic						
Extended Standard									

6. Add to the Management Server

Add New Monitored object

- 1. Verify your firewall policies
- 2. Close Sysload Analyst Console, if it is opened
- 3. Open Sysload Analyst Console, (to reload new ressource agent file)

sP	Management Server: WIN2K8R2
Sysload	User: admin
·	Password:
	Reconnect automatically at startup
O R 5 Y P 💷	OK Cancel

4. In "Monitored Objects", Click right « Register Monitored Objects ... »

5. Enter information, and click on « Apply » :

Agent type	oaJMeter
Stations	<agenthost></agenthost>
SP Portal	Check the case or not

Remark: The number of agent added must match the number of monitored objects

7. Functionnal Parameters Sysload Analyst

7.1 Event models

Example event

Model EVT NAME	EVT name	Pri ori ty	Dura tion (Sec onds)	Condition [Domain Activity][Instance][Operator][Thres hold]	Unit	Message	Type Agent	Agents list
FEEDBAC KIP_JME TER	EchecReq	1	600	[JMeter 'whatever Instance' – Statut success] [=][0] (%)	%	%x failed	oaJMeter	
	tpsRep25s	21	300	[JMeter 'whatever Instance' – Time in response] [>][25000] (ms)	ms	Time in Respons e > %l1 (%v1)	oaJMeter	

8. Update (New Build)

- 1. Get the new setup package
- 2. Unzip the package
- 3. Run command Prompts as Administrator and go to the temporary directory:

cd /d c:\Sources\spa-ag_oaJMeter-v5.80_build_4-win-x64-install_cmd

4. Run setup command with patch parameter

.\setup.exe -task patch

SP Analyst Agent oaJMeter 5.80 (monitoring core version) :Installation
(patch)
...
. Checking homedir:'C:\Program Files\Sysload'...
. Checking user...
. Stopping Sysload services...

- . Installing/Updating Sysload files...
- . Starting Sysload services...

SP Analyst Agent oaJMeter 5.80 (monitoring core version) :Installation (patch) Done

- 5. If new metric : Update Management Server ressources files (see chapter Setup)
- 6. If new metric : Update Sysload Console ressources files (see chapter Setup)
- 7. Check the new build in the agent webpage (see chapter Check)

9. Uninstall

1. Run command Prompts as **Administrator** and go to the temporary directory:

cd /d c:\Sources\spa-ag_oaJMeter-v5.80_build_4-win-x64-install_cmd

2. Run setup command with uninstall parameter

.\setup.exe -task uninstall

Follow the instruction : <CR> equivalent to carriage return

- SP Analyst Agent oaJMeter 5.80 (monitoring core version) :Uninstallation ...
 - . Checking homedir: 'C:\Program Files\Sysload'...
 - . Stopping Sysload services...
 - . Removing Sysload files...

SP Analyst Agent oaJMeter 5.80 (monitoring core version) :Uninstallation done

10. ANNEXE

10.1 [Conf] Add new Monitored Object

- 1. Check your token server, if a SA OPENAGENT token is available
- 2. Open the Services Manager
- 3. Stop the Collector agent service
 - Sysload Collector oaJMeter

Q Services			
File Action View Help			
🗢 🔿 📊 🔲 Q 🔒 🛛 🖬 🕨 🔳 🕪			
🕵 Services (Local) 🛛 🔺	Description	Status	Startup Ty
SPP Notification Service	Provides S		Manual
SSDP Discovery	Discovers		Disabled
🖏 Sysload Collector		Started	Automatic
🤹 Sysload Collector Hyper-V		Started	Automatic
Sysload Collector oaJMeter		Started	Automatic
Sysload Communication Server		Started	Automatic
🧠 Sysload DBORA Event		Started	Automatic
🔍 Sysload FileServer		Started	Automatic
🛛 🖾 Sysload Log Monitor		Started	Automatic

4. Go to the agent install directory, create a backup and edit the agent configuration file **oaJMeter.ini**

- 5. Modify the following parameters and save the file :
- List Monitored Object : For example, add <NewMo>

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[General] Agents=<List Actual MO>,<NewMO>

• Configure the New Monitored Object

```
[Agent_<NewMo>]
JMeter_bindir=<JMeter Binairy directory>
JMeter_plan_file=<JMeter Plan filename and directory>
JMeter_delimiter=;
UsePwsScript=<Set 1 Activate Agent Use PowerShell Mode>
debug=0
EventIniFile=C:\Program Files\Sysload\oaJMeter\event_<NewMo>.ini
```

- 6. Start the Collector agent service
 - Sysload Collector oaJMeter

🔍 Services				
File Action View	Help			
🗢 🔿 🖬 🖉	à 🔒 🛛 📷 🕨 🗉 🕕 🕨			
🤹 Services (Local)	Name 🔺	Description	Status	S
	SPP Notification Service	Provides S		M
	SSDP Discovery	Discovers		D
	Sysload Collector		Started	A
	Sysload Collector Hyper-V		Started	A
	Sysload Collector oaJMeter			A
	Sysload Communication Server		Started	A

7. Check the agent log

10.2 [Conf] Activate Agent PowerShell Script

- 1. Open the Services Manager
- 2. Stop the Collector agent service
 - Sysload Collector oaJMeter

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Q Services			
File Action View Help			
🗢 🔿 📊 🔲 Q 😖 🛛 🖬 🕨 🔳 🕪			
🛸 Services (Local) 🛛 🔺	Description	Status	Startup T;
SPP Notification Service	Provides S		Manual
SSDP Discovery	Discovers		Disabled
🤹 Sysload Collector		Started	Automatic
🤹 Sysload Collector Hyper-V		Started	Automatic
Sysload Collector oaJMeter		Started	Automatic
Sysload Communication Server		Started	Automatic
🤹 Sysload DBORA Event		Started	Automatic
🔍 Sysload FileServer		Started	Automatic
🛛 🖾 Sysload Log Monitor		Started	Automatic

3. Go to the agent install directory, create a backup and edit the agent configuration file *oaJMeter.ini*

license-en.txt
oaJMeter.cnv
💷 oaJMeter.exe
💼 oaJMeter.ini
oaJMeter.log
oaJMeter.typ
oaJMeter_Res.xml

- 4. Modify the following parameters and save the file :
- Configure the Agent PowerShell Mode

```
[Agent_<Mo>]
JMeter_bindir=<JMeter Binairy directory>
JMeter_plan_file=<JMeter Plan filename and directory>
JMeter_delimiter=;
UsePwsScript=<Set 1 Activate Agent Use PowerShell Mode>
debug=0
EventIniFile=C:\Program Files\Sysload\oaJMeter\event_<Mo>.ini
```

- 5. Start the Collector agent service
 - Sysload Collector oaJMeter

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🔍 Services				
File Action View H	Help			
🧔 🗐 📊 🦛 🔷	🗟 🛛 📷 🕨 🗉 🕩			
Services (Local)	Name 🔺	Description	Status	s
	SPP Notification Service	Provides S		M
	🔍 SSDP Discovery	Discovers		D
	🤹 Sysload Collector		Started	A
	🤹 Sysload Collector Hyper-V		Started	A
	🤹 Sysload Collector oa JMeter			A
	🤹 Sysload Communication Server		Started	A

6. Check the agent log

10.3 [Script] Get_Metrics_JMeter.bat (version 2.00)

REM Automic France (Orsyp) REM Automic France (Orsyp) REM Susciola Studio - Script for Apache JMeter (VERSION v2.00) REM Rem Systaca Studio - Script for Apache JMeter (VERSION v2.00) REM - Variable JAVA_HOME configured REM - Unleter Binainy installed REM - JMeter Configuration (File : jmeter, saves.saveservice.label=true REM - Jmeter.save.saveservice.label=true REM inter.sa	©ECHO OFF SETLOCAL ENABLEDELAYEDEXPANSION		
REM ysbodd Studio - Script for Apache JMeter (VERSION v2.00) REM Systoded Studio - Script for Apache JMeter (VERSION v2.00) REM - JMeter Binairy installed REM - JMeter Dinairy installed REM - JMeter Dinairy installed REM - JMeter Configuration (File : jmeter, properties) REM - JMeter Binairy installed REM - Jmeter. save. saveservice. Jabel=True REM jmeter. save. saveservice. Jabel=True REM jmeter. save. saveservice. Jatency=true REM jmeter. save. saveservice. Jetency=true REM indexer Created REM - Coll a JMeter Project The : jmeter created	REM Automic France (Orsyp)		
REM REM REM Variable JAVA_HOME configured REM - JMeter Dinairy installed REM - JMeter Configuration (File : jmeter, properties) REM - jmeter, save, saveservice, label=true REM intert, save, saveservice, label=true REM true savestrue REM - Project JMeter created REM - Tested with JMeter v2, 11 r1554548 and Java 1.6.0_45 REM <	REM ====================================	Script for Apache JMeter (VERSION v2.00)	
REM Requiries REM Variable JAVA_HOME configured REM Variable JAVA_HOME configured REM Variable JAVA_HOME configured REM JMeter Binary installed JMeter Configuration (File : jmeter, properties) REM Jimeter.save.saveservice.output_formate.esv REM Jimeter.save.saveservice.successful=true REM Jimeter.save.saveservice.successful=true REM Jimeter.save.saveservice.delauf_delimiter=; REM Jimeter.save.saveservice.delauf	REM ====================================		
REM - Variable JAVA_HOME configured REM - JMeter Einigry installed REM - JMeter Configuration (File : /meter.properties.) REM / imeter save.saveservice.output_format=csv REM / imeter.save.saveservice.label=true REM / imeter.save.savese	REM Requires		
Action - Variables	REM	Variable IAVA HOME configurad	
Network JMeter Configuration (File : jmeter.properties) REM jmeter.save.saveservice.label=true REM jmeter.save.saveservice.label=true REM jmeter.save.saveservice.successil=true REM jmeter.save.saveservice.successil=true REM jmeter.save.saveservice.successil=true REM jmeter.save.saveservice.successil=true REM jmeter.save.saveservice.print_field_names=true REM jmeter.save.saveservice.print_field_names=true REM jmeter.save.saveservice.successil=true REM jmeter.save.saveservice.print_field_names=true REM jmeter.save.saveservice.print_field_names=true REM - Project JMeter created REM - Project JMeter Canter REM - Seted with JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Call a.JMeter Project File : xxx.jmx REM - Call a.JMeter Project File : xxz.jmx REM - Tosted with JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Call a.JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Tosted with JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Tosted with JMeter V2.11 r1554548 and Java 1.6.0_45 REM </td <td>REM</td> <td>- Valiable JAVA_HOME conliguied</td>	REM	- Valiable JAVA_HOME conliguied	
REM jmeter.save.saveservice.output_format=csv REM jmeter.save.saveservice.output_format=csv REM jmeter.save.saveservice.idency=true REM jmeter.save.saveservice.idency=true REM jmeter.save.saveservice.atency=true REM jmeter.save.saveservice.atency=true REM jmeter.save.saveservice.print_field_names=true REM jmeter.save.saveservice.print_field_names=true REM jmeter.save.saveservice.print_field_names=true REM jmeter.save.saveservice.print_field_names=true REM jmeter.save.saveservice.print_field_names=true REM inter.save.saveservice.print_field_names=true REM - Project JMeter created REM - Project JMeter created REM - Tested with JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Call a JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Call a JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Tested with JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Add Debug Mode REM - Tested with JMeter V2.11 r1554548 and Java 1.6.0_45 REM - Add Debug Mode REM - Add DeverShell Mode	REM	- JMeter Configuration (File : imeter.properties)	
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SET JMETEER_DELIMITER=%2 SET JMETER_DELIMITER=%3 SET AGENT_NAME=%4 SET AGENT_USE_PWS_SCRIPT=%5 SET AGENT_DEBUG=%6 set JMETER_BINDIR=%JMETER_BINDIR:"=% set JMETER_PROJECT_DIR_FILE=%JMETER_PROJECT_DIR_FILE:"=% set JMETER_DELIMITER=%JMETER_DELIMITER:"=% set JMETER_DELIMITER=%JMETER_DELIMITER:"=%	SET JMETER_BINDIR	=%1 ^T DIP FILE_%2	
SET JMETER_RESULT_FILE=%4.log SET AGENT_NAME=%4 SET AGENT_USE_PWS_SCRIPT=%5 SET AGENT_DEBUG=%6 set JMETER_BINDIR=%JMETER_BINDIR:"=% set JMETER_PROJECT_DIR_FILE=%JMETER_PROJECT_DIR_FILE:"=% set JMETER_DELIMITER=%JMETER_DELIMITER:"=% set METER_RESULT_FILE=%JMETER_RESULT_FILE:"=%	SET JMETER_FROM	TFR=%3	
SET AGENT_NAME=%4 SET AGENT_USE_PWS_SCRIPT=%5 SET AGENT_DEBUG=%6 set JMETER_BINDIR=%JMETER_BINDIR:"=% set JMETER_PROJECT_DIR_FILE=%JMETER_PROJECT_DIR_FILE:"=% set JMETER_DELIMITER=%JMETER_DELIMITER:"=% set IMETER_RESULT_FILE=%JMETER_RESULT_FILE:"=%	SET JMETER RESUL	T FILE=%4.log	
SET AGENT_USE_PWS_SCRIPT=%5 SET AGENT_DEBUG=%6 set JMETER_BINDIR=%JMETER_BINDIR:"=% set JMETER_PROJECT_DIR_FILE=%JMETER_PROJECT_DIR_FILE:"=% set JMETER_DELIMITER=%JMETER_DELIMITER:"=% set IMETER_RESULT_FILE=% IMETER_RESULT_FILE:"=%	SET AGENT_NAME=%		
SET AGENT_DEBUG=%6 set JMETER_BINDIR=%JMETER_BINDIR:"=% set JMETER_PROJECT_DIR_FILE=%JMETER_PROJECT_DIR_FILE:"=% set JMETER_DELIMITER=%JMETER_DELIMITER:"=% set IMETER_RESULT_FILE=% IMETER_RESULT_FILE:"=%	SET AGENT_USE_PW	/S_SCRIPT=%5	
set JMETER_BINDIR=%JMETER_BINDIR:"=% set JMETER_PROJECT_DIR_FILE=%JMETER_PROJECT_DIR_FILE:"=% set JMETER_DELIMITER=%JMETER_DELIMITER:"=% set IMETER_RESULT_FU_F=%_METER_RESULT_FU_F:"=%	SET AGENT_DEBUG=	%6	
set JMETER_PROJECT_DIR_FILE=%JMETER_PROJECT_DIR_FILE:"=% set JMETER_DELIMITER=%JMETER_DELIMITER:"=% set IMETER_RESULT_FILE=% IMETER_RESULT_FILE:"=%	set JMETER BINDIR=	%JMETER BINDIR:"=%	
set JMETER_DELIMITER=%JMETER_DELIMITER:"=%	set JMETER_PROJECT_DIR_FILE=%JMETER_PROJECT_DIR_FILE:"=%		
set IMETER RESULT FUE-% IMETER RESULT FUE-"-%	set JMETER_DELIMITE	ER=%JMETER_DELIMITER:"=%	
	set JMETER_RESULT_	_FILE=%JMETER_RESULT_FILE:"=%	

IF "%JMETER_BINDIR%" == "" GOTO USAGE IF "%JMETER_PROJECT_DIR_FILE%" == "" GOTO USAGE IF "%JMETER_RESULT_FILE%" == "" GOTO USAGE
IF "%JAVA_HOME%" == "" GOTO JAVA_HOME_NOT_DEFINED
:INIT_FILES REM REM Files REM
SET WORK_DIR=%~dp0 cd /d %WORK_DIR%
IF "%AGENT_USE_PWS_SCRIPT%" == "1" GOTO INIT_DEBUG_FILES
SET TMP_FILE_STATS=%AGENT_NAME%_TEMP_CMD_RESULT.log echo "Result Project File : %JMETER_PROJECT_DIR_FILE%"> %TMP_FILE_STATS% echo start> %JMETER_RESULT_FILE%
:INIT_DEBUG_FILES SET DEBUG_FILE=%AGENT_NAME%_DEBUG.log IF "%AGENT_DEBUG%" == "1" (echo "==== START DEBUG ===="> %DEBUG_FILE%)
IF "%AGENT_USE_PWS_SCRIPT%" == "0" GOTO BATCH_MODE
:POWERSHELL_MODE IF "%AGENT_USE_PWS_SCRIPT%" == "1" (IF "%AGENT_DEBUG%" == "1" (echo "=== POWERSHELL MODE Activated : Launching script = CMD 'call powershell.exe -command ".\Get_Metrics_JMeter.ps1" -AgentName '%AGENT_NAME%' -JmeterBinDir '%JMETER_BINDIR%' -JmeterProjectFilePath '%JMETER_PROJECT_DIR_FILE%' -JmeterParseResult "%JMETER_DELIMITER%" -debug %AGENT_DEBUG%' ==="">">> %DEBUG_FILE%) call powershell.exe -command ".\Get_Metrics_JMeter.ps1" -AgentName '%AGENT_NAME%' -JmeterBinDir '%JMETER_BINDIR%' -JmeterProjectFilePath '%JMETER_PROJECT_DIR_FILE%' -JmeterBinDir '%JMETER_DELIMITER%' -debug %AGENT_DEBUG% call :EXIT_POWERSHELL "%ERRORLEVEL%" && GOTO :END)
:BATCH_MODE IF "%AGENT_DEBUG%" == "1" (echo "=== Init variable ====">> %DEBUG_FILE% echo "Param 1 : JMETER_BINDIR = [%JMETER_BINDIR%]">> %DEBUG_FILE% echo "Param 2 : JMETER_BINDIR = [%JMETER_BINDIR%]">> %DEBUG_FILE% echo "Param 2 : JMETER_PROJECT_DIR_FILE = [%JMETER_PROJECT_DIR_FILE%]">> %DEBUG_FILE% echo "Param 3 : JMETER_DELIMITER = [%JMETER_DELIMITER%]">> %DEBUG_FILE% echo "Param 4 : JMETER_RESULT_FILE = [%JMETER_RESULT_FILE%]">> %DEBUG_FILE% echo "Param 4 : JMETER_RESULT_FILE = [%JMETER_RESULT_FILE%]">> %DEBUG_FILE% echo "Param 4 : JMETER_RESULT_FILE = [%JMETER_RESULT_FILE%]">> %DEBUG_FILE% echo "Param 4 : JMETER_RESULT_FILE = [%JMETER_RESULT_FILE%]">> %DEBUG_FILE% echo "Param 4 : JMETER_RESULT_FILE = [%JMETER_RESULT_FILE%]">> %DEBUG_FILE% echo "Param 4 : JMETER_RESULT_FILE = [%JMETER_RESULT_FILE%]">> %DEBUG_FILE% echo "Param 4 : JMETER_RESULT_FILE = [%JMETER_RESULT_FILE%]">> %DEBUG_FILE%
REM Main REM Main REM
REM
:CALL_JMETER_EXEC echo =======>> %TMP_FILE_STATS% echo CALL_JMETER >> %TMP_FILE_STATS% echo =======> >> %TMP_FILE_STATS%
if EXIST "%JMETER_BINDIR%"\jmeter.bat(if EXIST "%JMETER_PROJECT_DIR_FILE%"(

IF "%AGENT_DEBUG%" == "1" (echo "==== STEP 1 - CALL JMETER : Launching JMeter JMX File = CMD 'call "%JMETER_BINDIR%"\jmeter.bat -n -t "%JMETER_PROJECT_DIR_FILE%" -I "%JMETER_RESULT_FILE%" -Jsummariser.out=true' ====">> %DEBUG_FILE% call "%JMETER_BINDIR%"\imeter.bat -n -t "%JMETER_PROJECT_DIR_FILE%" -I "%JMETER_RESULT_FILE%" -Jsummariser.out=true >> %TMP_FILE_STATS% rem set error_code=%ERRORLEVEL% rem echo [%error_code%] rem if "%error_code%" = "0" (GOTO :CHECK_OK) else (call :ERROR "CALL JMETER : Execution failed" && GOTO :END)) else (call :ERROR "==== STEP 1 - CALL JMETER : JMeter Project file JMX not exist : [%JMETER_PROJECT_DIR_FILE%]" && GOTO :END)) else (call :ERROR "==== STEP 1 - CALL JMETER : Script file jmeter.bat not exist in [%JMETER_BINDIR%]" && GOTO :END) :CHECK OK call :ECHO_OPENAGENT :GET_METRICS_PLAN rem findstr /N /R /C:"^summary *=" "%TMP_FILE_STATS%" rem summary = 82 in 9s = 9,6/s Avg: 172 Min: 1 Max: 5808 Err: 0 (0,00%) IF "%AGENT_DEBUG%" == "1" (echo "==== STEP 3 - GET PLAN METRIC ====">> %DEBUG_FILE% for /F "tokens=2,3 delims==" %%A in ('findstr /N /R /C:"^summary *=" "%TMP_FILE_STATS%"') DO set part_1=%%A && set part_2=%%B *IF* "%*AGENT_DEBUG*%" == "1" (echo "--- Checking Line : %part_1% %part_2% ---">> %DEBUG_FILE% set part_1=%part_1:=% set part_1=%part_1:in=;% set part_1=%part_1:s=% set part_2=%part_2: =% set part_2=%part_2:/sAvg:=;% set part_2=%part_2:Min:=;% set part_2=%part_2:Max:=;% set part_2=%part_2:Err:=;% set part_2=%part_2:(=;% set part_2=%part_2:)=% rem echo [%part_1%] [%part_2%] set nb_request=0 for /f "tokens=1,2 delims=;" %%a in ("%part_1%") DO set nb_request=%%a && set plan_exec_time=%%b echo plan_nb_request###%nb_request% echo plan_exec_time####%plan_exec_time% for /f "tokens=1,2,3,4,5,6 delims=;" %%a in ("%part_2%") DO set plan_nb_ko=%%e SET /A nb_ok=%nb_request%-%plan_nb_ko% echo plan_nb_ko####%plan_nb_ko% echo plan_nb_ok###%nb_ok% IF "%AGENT_DEBUG%" == "1" (echo " --- plan_nb_request : %nb_request% --- ">> %DEBUG_FILE% echo " --- plan_exec_time : %plan_exec_time% --- ">> %DEBUG_FILE% echo " --- plan_nb_ko : %plan_nb_ko% ---">> %DEBUG_FILE% echo " --- plan_nb_ok : %nb_ok% --- ">> %DEBUG_FILE%) rem if %nb_request% == %plan_nb_ko% (call :ERROR_REQUEST %%B rem goto END rem rem) else (


```
goto GET_METRICS_REQUESTS_SAMPLER
rem
rem)
:GET_METRICS_REQUESTS_SAMPLER
IF "%AGENT_DEBUG%" == "1" (
               == STEP 4 - GET SAMPLER METRIC ====">> %DEBUG_FILE%
       echo "=
)
for /F "skip=1 tokens=1-10 delims=%JMETER_DELIMITER%" %%a in ('TYPE "%JMETER_RESULT_FILE%") do (
       rem timeStamp;elapsed;label;responseCode;responseMessage;threadName;dataType;success;bytes;Latency
       rem echo [%%a]
       IF "%AGENT_DEBUG%" == "1" (
              echo "--- Checking Line : %%a [%%b] ['%%c'] ['%%d'] %%e %%f %%g [%%h] [%%i] [%%j] --- ">>
%DEBUG_FILE%
       .
IF "%%a" NEQ "start" (call :PRINT_STATS %%b "%%c" "%%d" %%h %%i %%j)
goto FINAL
:PRINT_STATS
REM ---- Label is the metric instance - corresponding to a sampler
set instance=%2
set instance=%instance: =_%
set instance=%instance:"=%
IF "%AGENT_DEBUG%" == "1" (
       echo "--- Checking Instance / Request / sampler [%instance%] ---">> %DEBUG_FILE%
)
REM ---- request_status is false or true - metric value must be numeric
set request_status=%4
set status=0
if "%request_status%" == "true" ( set status=100 )
if "%request_status%" == "TRUE" ( set status=100 )
IF "%AGENT_DEBUG%" == "1" (
      echo " --- Checking instance [%instance%] Status : %request_status% ---">> %DEBUG_FILE%
)
REM ---- Check if response code is numeric
set var=no
set response=%3
set response=%response:"=%
rem echo [%response%]
for /f "tokens=1,2* delims= " %%i in ("%response%") do set var=%%j
rem echo [%var%]
IF "%var%" == " " ( set respCode=%response% ) else ( set respCode=-1 )
IF "%AGENT_DEBUG%" == "1" (
       echo" --- Checking instance [%instance%] Response Code : %respCode% ---">> %DEBUG_FILE%
REM ---- Print result for a sampler
echo elapsed#%instance%##%1
echo responseCode#%instance%##%respCode%
echo success#%instance%##%status%
echo bytes#%instance%##%5
echo latency#%instance%##%6
IF "%AGENT_DEBUG%" == "1" (
      echo" --- elapsed : %1 ---">> %DEBUG_FILE%
       echo " --- responseCode : %respCode% ---">> %DEBUG_FILE%
       echo " --- success : %status% --- ">> %DEBUG_FILE%
       echo " --- bytes : %5 ---">> %DEBUG_FILE%
       echo " ---- latency : %6 ---">> %DEBUG_FILE%
```


goto:eof
REM REM FUNCTIONS REM
:ECHO_OPENAGENT IF "%AGENT_DEBUG%" == "1" (echo " STEP 2 - ECHO OPENAGENT">> %DEBUG FILE%
) echo openagent echo\ goto:eof
:FINAL set CODE_ERROR=0 GOTO :END
REM REM REM
:USAGE
echo echo USAGE : Parameters require echo
echo
echo set CODE_ERROR=1 goto:eof
:ERROR IF "%AGENT_DEBUG%" == "1" (
set CODE_ERROR=1 GOTO :END
:JAVA_HOME_NOT_DEFINED IF "%AGENT_DEBUG%" == "1" (echo " ERROR : Windows Env Variable JAVA_HOME is not defined">> %DEBUG_FILE%
echo echo ERROR : Windows Env Variable JAVA_HOME is not defined echo
set CODE_ERROR=2 GOTO :END
:ERROR_REQUEST IF "%AGENT_DEBUG%" == "1" (

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echo " --- ERROR : All Request exit in error --- ">> %DEBUG_FILE% echo --echo ERROR : All Request exit in error echo --set CODE_ERROR=3 GOTO :END :EXIT_POWERSHELL IF "%AGENT_DEBUG%" == "1" (echo" --- CODE_ERROR POWERSHELL : [%1] ---">> %DEBUG_FILE%) set CODE_ERROR=%1 GOTO :END :END *IF* "%*AGENT_DEBUG*%" == "1" (echo["]==== END DEBUG ====">> %DEBUG_FILE%) exit %CODE_ERROR%

10.4 [Script PowerShell] Get_Metrics_JMeter.ps1 (version 1.00)

<# ###################################		
.DESCRIPTION		
Get Metrics - For Apache JMETER v2.11 r1554548		
.PARAMETER AgentName Sysload Agent Instance Name .PARAMETER JmeterBinDir JMETER Home Directory .PARAMETER JmeterProjectFilePath JMETER Project File Path .PARAMETER JmeterParseResult JMETER Parse CSV Result Delimiter .PARAMETER debug Activate debug		
NOTES		
Requirements		
Variable JAVA HOME configured		
JMeter Binairy installed		
JMeter Configuration (File : imeter.properties)		
imeter, save saveservice, output format=csv		
imeter, save saveservice, label=true		
imeter, save saveservice, response code=true		
imeter.save.saveservice.successful=true		
,		

jmeter.save.saveservice.latency=true imeter.save.saveservice.bytes=true jmeter.save.saveservice.default_delimiter=; jmeter.save.saveservice.print_field_names=true summariser.out=true Project JMeter created Written By: Automic France (Orsyp) - Professional Service - An Automic Company Website: http://www.automic.com #> # -----# get Arguments # -param (\$AgentName="test_JMX",\$JmeterBinDir="C:\apache-jmeter-2.11\bin",\$JmeterProjectFilePath="C:\TEST_PLAN.jmx",\$JmeterParseResult=";",\$debug=0) # For Request \$Request = \$null [bool]\$error = \$false [int] $exit_code = 0$ \$AgentName = \$AgentName -replace '\s+', "; \$AgentName = \$AgentName -replace "", "; \$JmeterResultFile= \$AgentName+"_"+\$(Get-Date -format yyyyMMddHHmmss)+".txt"; # For Debug [bool]\$launch_cmd = \$true #[bool]\$debug = \$false [bool]\$skipSampler = \$false # -----_____ # Log Parameter # ----if (\$debug) { \$LogFile=".\Log_Debug_JMETER_\$AgentName.log" if (Test-Path \$LogFile) { clear-content \$LogFile } # erase debug file add-content \$LogFile "`n\$((get-date).toUniversalTime()) => START " # JMeter Cmd Plan result \$myJMeterResumecmdfile = ".\Log_Debug_JMETER_"+\$AgentName+"_Plan_result.txt"; if (\$launch_cmd) { if (Test-Path \$myJMeterResumecmdfile) { Clear-Content \$myJMeterResumecmdfile } } # JMeter All request result Custom for Debug \$JmeterResultFile= "Log_Debug_JMETER_"+\$AgentName+"_All_requests_result.txt"; if (\$launch_cmd) { if (Test-Path \$JmeterResultFile) { Remove-Item \$JmeterResultFile } } # ------# Functions # -----<# [int] 32-bit signed integer [long] 64-bit signed integer [string] Fixed-length string of Unicode characters [char] A Unicode 16-bit character [byte] An 8-bit unsigned character [bool] Boolean True/False value An 128-bit decimal value [decimal] [single] Single-precision 32-bit floating point number [double] Double-precision 64-bit floating point number [xml] Xml obiect [array] An array of values [hashtable] Hashtable object

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#> function logDebug { add-content \$LogFile "\$((get-date).toUniversalTime()) : \$args"; } function printOpenagent { Write-host "openagent"; Write-host ""; } function getMetricValue { Param ([string]\$pattern, [bool]\$withInstance =\$false, [bool]\$customInstance=\$false, [string]\$instance_custom ="", [bool]\$checkSuccessValue =\$false, [string]\$successValue =""); if (\$withInstance) { if (\$checkSuccessValue) { \$Request | %{ if (\$_-imatch \$pattern) { if (\$debug) { logDebug '==> METRIC with dyn instance = \$metric ' - Instance: ' (\$matches[1] -replace '\s+\$', ") ' - tempvalue: ' \$matches[2]; } \$instance = \$matches[1] -replace '\s+\$', "; if (
\$matches[2] -match \$successValue) { printMetric \$metric \$instance.ToUpper() 1 } else { printMetric \$metric \$instance.ToUpper() 0 } } } else { \$Request | %{ if (\$_-imatch \$pattern) { if (\$debug) { logDebug '==> METRIC with dyn instance = \$metric ' - Instance: ' (\$matches[1] -replace '\s+\$', ") ' - tempvalue: ' \$matches[2]; } \$instance = \$matches[1] -replace '\s+\$', "; printMetric \$metric \$instance.ToUpper() \$matches[2] } } } elseif (\$customInstance) { if (\$checkSuccessValue) { \$Request | %{ if (\$_-imatch \$pattern) { if (\$debug) { logDebug '==> METRIC with custom instance => ' \$metric ' - tempvalue: ' \$matches[1]; } if (\$matches[1] -match \$success Value) { printMetric \$metric \$instance_custom 1 } else { printMetric \$metric \$instance_custom 0 } } } } else { } else { if (\$checkSuccessValue) { \$Request | %{ if (\$_-imatch \$pattern) { if (\$debug) { logDebug '==> METRIC no instance = \$metric ' - tempvalue: ' \$matches[1]; } if (\$matches[1] -match \$successValue) { printMetric \$metric "" 1 } else { printMetric \$metric "" 0 } } } } else { \$Request | %{ if (\$_-imatch \$pattern) { if (\$debug) { logDebug '==> METRIC no instance ===> ' \$metric ' - tempvalue: ' \$matches[1]; } printMetric \$metric "" \$matches[1] } } } . function printMetric { Param ([string]\$mymetric, [string]\$myinstance ="", \$myvalue =-1); Write-host "\$mymetric#\$myinstance##\$myvalue" } function getMetricValuePlan { Param ([string]\$pattern, [int]\$nbpattern=7); $nb_request = 0;$ sexec time = 0: [int] $nb_req_ko = 0$ \$Request | %{ if (\$_-imatch \$pattern) { \$nb_request = \$matches[1]; \$exec_time = \$matches[2]; \$nb_req_ko = \$matches[7]; if (\$debug) { logDebug '=> METRIC PLAN => nb_request - tempvalue: (' \$matches[1] ') -> [' \$nb_request ']'; } }} # => Plan Nb Request \$metric = \$metricPrefix+"nb_request" if (\$debug) { logDebug '===> METRIC no instance ===> ' \$metric ' - tempvalue: ' \$nb_request; } printMetric \$metric "" \$nb_request # => Plan execution time \$metric = \$metricPrefix+"exec_time" if (\$debug) { logDebug '==> METRIC no instance ===> ' \$metric ' - tempvalue: ' \$exec_time; } printMetric \$metric "" \$exec_time # => Plan nb KO \$metric = \$metricPrefix+"nb_ko" if (\$debug) { logDebug '===> METRIC no instance ===> ' \$metric ' - tempvalue: ' \$nb_req_ko; } printMetric \$metric "" \$nb_req_ko

=> Plan nb OK \$metric = \$metricPrefix+"nb_ok" [int] \$nb_req_OK = \$nb_request - \$nb_req_ko if (\$debug) { logDebug '===> METRIC no instance ===> ' \$metric ' - tempvalue: ' \$nb_req_OK; } printMetric \$metric "" \$nb_reg_OK 3 # START # ############ if (\$launch_cmd) { #= = # # Check JAVA_HOME Env Variable # #= = # if (\$debug) { logDebug "-> Check JAVA_HOME Env Variable" } if (Get-Item env:JAVA_HOME) { if (\$debug) { logDebug "-> Env Var JAVA_HOME Found : [\$env:JAVA_HOME]" } } else { if (\$debug) { logDebug "-> Env Var JAVA_HOME not found " } write "Env Var JAVA_HOME not found)" $exit_code = 2;$ \$error=\$true: } #= = # # Check Project File # = # if (\$debug) { logDebug "-> Check Jmeter Project File" } if (Test-Path "\$JmeterProjectFilePath") { if (\$debug) { logDebug "-> JMeter Project File Found : My Project File = [\$JmeterProjectFilePath]" } } else { if (\$debug) { logDebug "-> JMeter Project File not found (Need File xxx.jmx)" } write "JMeter binairies command not found (Need jmeter.bat)" $exit_code = 99;$ \$error=\$true; } #= =# # Launch Request # #= =# if (\$debug) { logDebug "-> Launch Request" } if (Test-Path "\$JmeterBinDir\jmeter.bat") { \$cmd = "&'\$JmeterBinDir\jmeter.bat' -n -t ""+\$JmeterProjectFilePath+"' -I ""+\$JmeterResultFile+"' -Jsummariser.out=true" if (\$debug) { logDebug "-> Invoke Request : My Command = [\$cmd]" } \$Request = invoke-expression \$cmd -ErrorVariable error_invoke if (\$LASTEXITCODE -ne 0) { \$code = \$LASTEXITCODE; write "JMeter return FAILED code : [\$code]" if (\$debug) { logDebug "-> Invoke Request : ERROR - JMeter return FAILED code : [\$code]" } \$error=\$true; \$exit_code=\$code; break \$code; } else { if (\$debug) { logDebug "-> Invoke Request : OK - JMeter return SUCCESS code" } } if (\$debug) { add-content \$myJMeterResumecmdfile \$Request ; logDebug "-> Result saved in : \$myJMeterResumecmdfile"} } else {

if (\$debug) { logDebug "-> Launch Request : JMeter binairies command not found (Need jmeter.bat)" } write "JMeter binairies command not found (Need imeter.bat)" sexit code = 99: \$error=\$true; } } else { if (\$debug) { logDebug "-> Launch Request : Not activated " } 3 if (\$error -eq \$false) { # # Print openagent # #= = # if (\$debug) { logDebug "--> Print openagent" } printOpenagent # = # # Stat Plan Metrics # =# #= if (\$debug) { logDebug "===> Start Get Statistic Plan Metric" if (\$launch_cmd -eq \$false) { \$Request = Get-Content \$myJMeterResumecmdfile } } \$Request = \$Request -replace '\s+', ' '; if (\$debug) { logDebug "===> DATA `n \$Request " } # # summary = 82 in 9s = 9,6/s Avg: 172 Min: 1 Max: 5808 Err: 0 (0,00%) # summary = 154 in 85s = 1.8/s Avg: 1010 Min: 1 Max: 21197 Err: 0 (0.00%) # summary = 1 in 0.1s = 7.6/s Avg: 132 Min: 132 Max: 132 Err: 0 (0.00%) # \$metricPrefix = "plan_"; #[regex] \$pattern = "^summary \= ([0-9]+) in ([0-9.]+)s = ([0-9.]+)/s Avg: ([0-9]+) Min: ([0-9]+) Max: ([0-9]+) Err: ([0-9]+) \(([0-9.]+)%\)"; [regex] \$pattern = '^summary\s+1=\s+(\d+)\s+in\s+([0-9.,]+)s\s+1=\s+([0-9.,]+)/s/s+Avgl:/s+(ld+)/s+Minl:/s+(ld+)/s+Max:/s+(ld+)/s+Errl:/s+(ld+)/; if (\$Request -match \$pattern) { getMetricValuePlan \$pattern } else { if (\$debug) { logDebug "-> PLAN - Pattern not matched : [\$pattern]" } $sexit_code = 3;$ \$error=\$true; if (\$debug) { logDebug "===> End Get Statistic Plan Metric" } if (\$skipSampler) { if (\$debug) { logDebug "-> Get Metrics JMeter Sampler : skipped " } } else { # = # # JMeter Requests Sampler Metrics # # = # if (\$debug) { logDebug "===> Start Get Requests Sampler Metric" \$AllResultRequest = import-csv \$JmeterResultFile -delimiter "\$JmeterParseResult" if (\$debug) { logDebug "===> DATA `r`n\$AllResultRequest " } #

	# timeStamp;elapsed;label;responseCode;responseMessage;threadName;dataType;success;bytes;Latency #
	ForEach (\$row in \$AllResultRequest){
\$(\$row.elapsed	if (\$debug) { logDebug '==> METRIC with custom instance [' \$instance '] ==> elapsed - tempvalue: ' i); } if (\$debug) { logDebug '==> METRIC with custom instance [' \$instance '] ==> responseCode -
tempvalue: ' \$r	espCode; }
(fototivos)	if (\$debug) { logDebug '===> METRIC with custom instance [' \$instance '] ===> success - tempvalue: '
\$status; }	if (\$debug) { logDebug '===> METRIC with custom instance [' \$instance '] ===> bytes - tempvalue: '
\$(\$row.bytes);	}
\$(\$row.Latency	$(\phi debug) \{ \log debug ==> METRIC with custom instance [\phi instance] ==> hatericy - tempvalue.(); }$
	printMetric elapsed \$instance \$(\$row.elapsed)
	printivietric response ode sinstance sresp ode printMetric success Sinstance Sstatus
	printMetric bytes \$instance \$(\$row.bytes)
	printMetric latency \$instance \$(\$row.Latency)
ı	if (\$debug) { logDebug "===> End Get Requests Sampler Metric" }
}	
if (\$debua -ea \$	\$false) { if (Test-Path \$ ImeterResultFile) { Remove-Item "\$ ImeterResultFile" } }
" (¢uosugʻoq	
exit \$exit_code	
#############	
# END #	
	