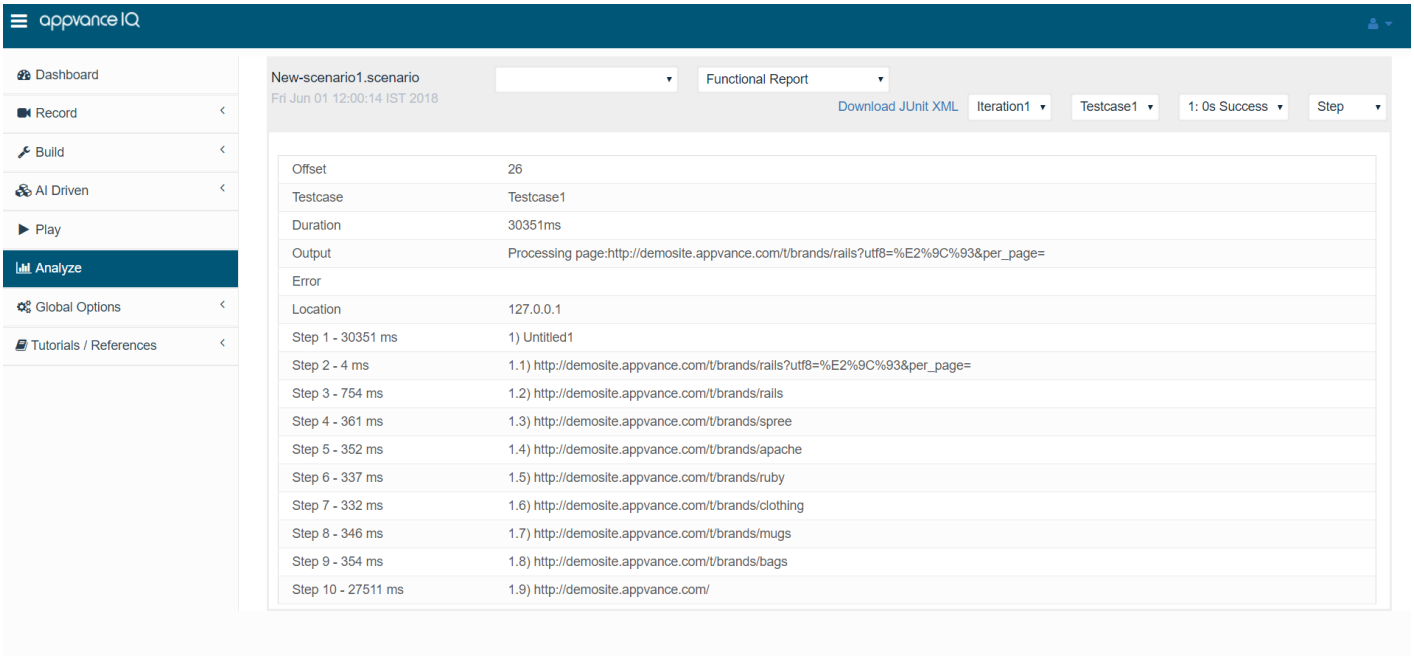
About Reports

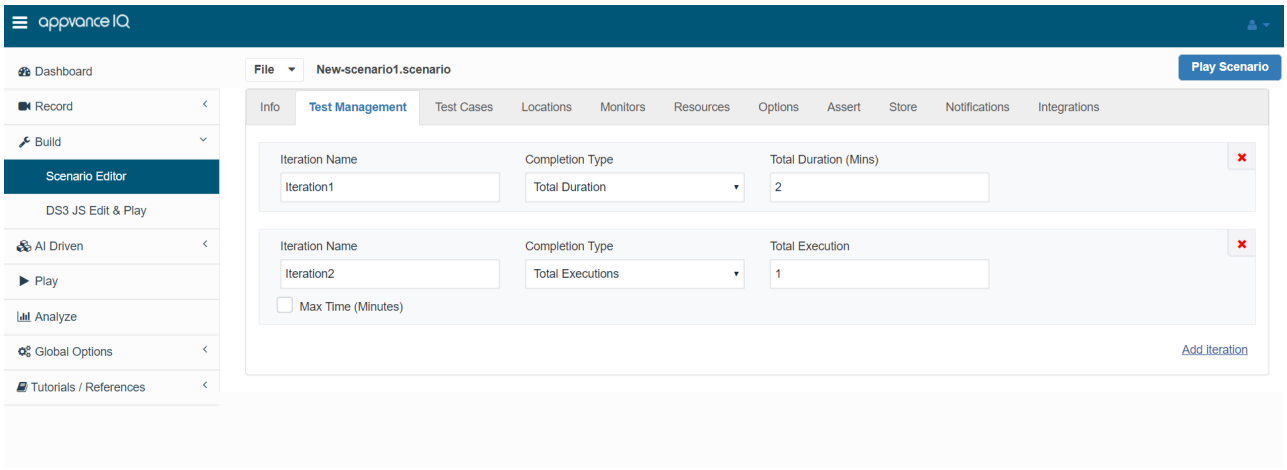
List of Available Reports

Below you will find the list of all the Unified Test Platform Reports. The initial report screen shows eleven reports as shown below.



In order to understand better and use these reports it is important to understand some basic concepts:

- Execution: This is the complete execution of a scenario, it is possible that it can contain several iterations.
- Iterations: A iteration indicates the number of users who run during a certain amount of time, the below screen-shot shows an execution with 2 iterations.



Test Case: Iteration can have one or more Test Cases. Test Case can be a unit test, a selenium file, or any other supported test type by Unified Test Platform. Test Cases are executed in parallel during an iteration.

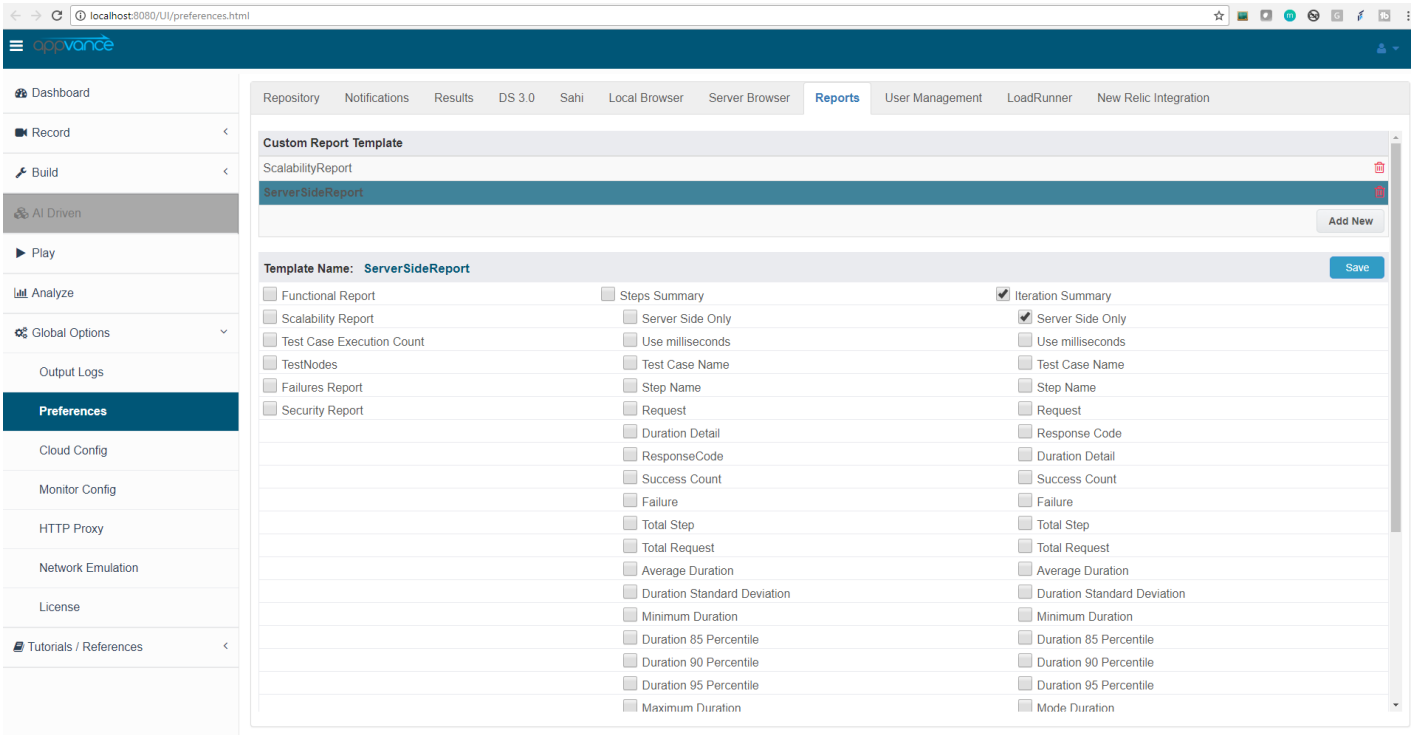
Template Reports

Users can create their own Template Reports and create Reports by using these Templates. See the section on Report Templates in the Global Options section of the documentation for information on creating report templates.

Server Side Report

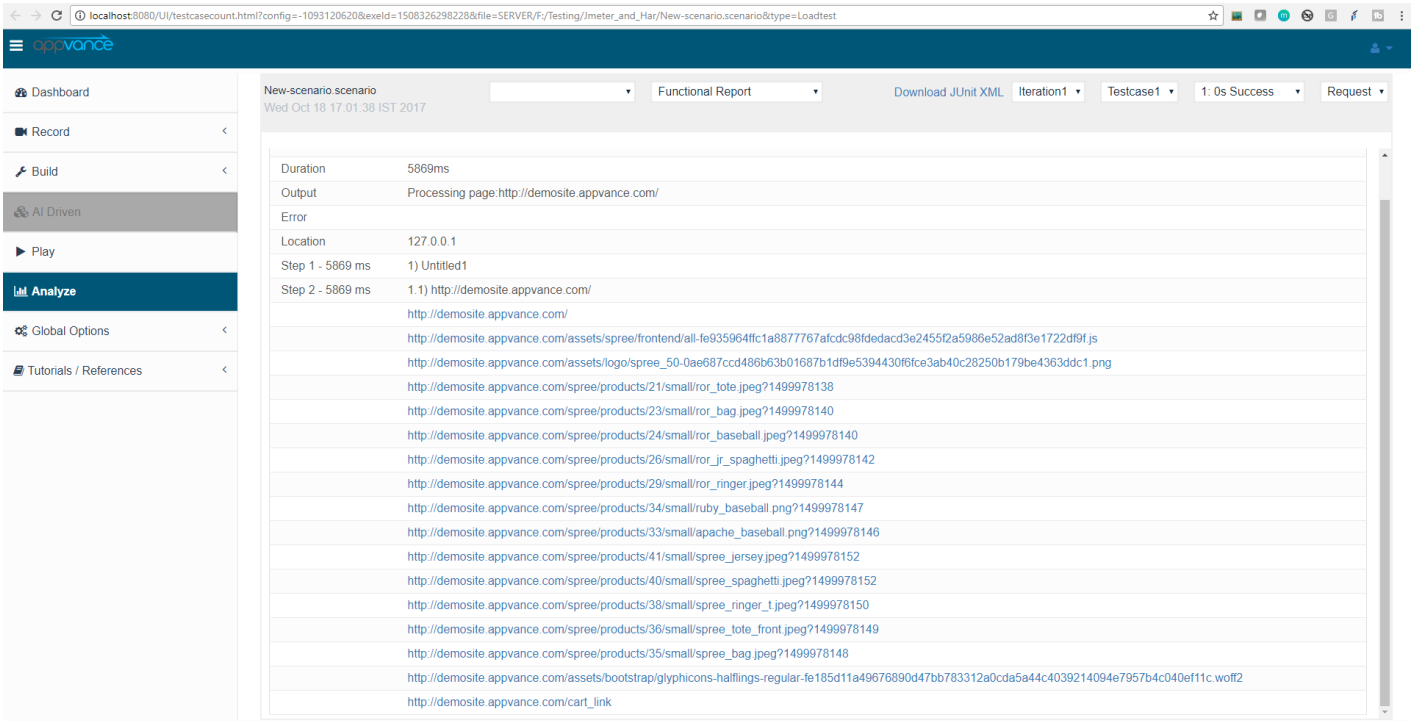
“Server-Side Only” is a filter where every “row”(step registry) that has a value = 0 in the column “totalRequest” won’t be added in the report. This Report can be used for filtering the Reports.

With this not only the “set_value” steps are filtered, but every step where “totalRequest” values are zero gets filtered and becomes a Server Side Report.



Functional report

Useful for functional testing. Shows first transaction detailed information

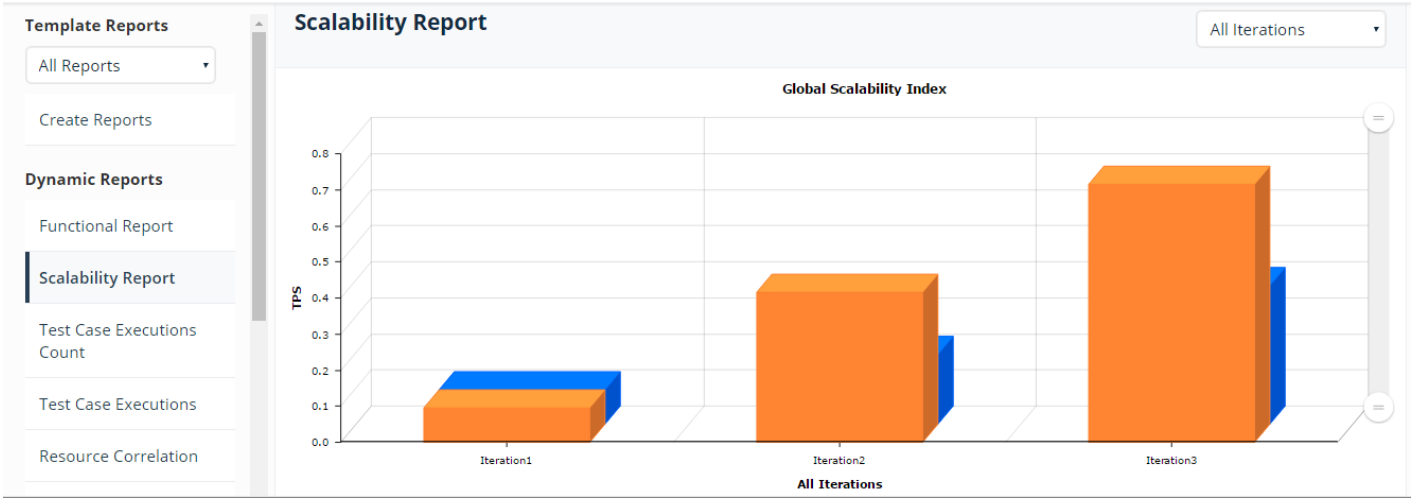


Scalability Report

Scalability Report shows how the application scales during the test. Scaling means the more users use the service, the more transactions will be achieved.

Scalability Report is provided in Transactions per second (TPS for short). Good environments should have linear scalability, meaning if X user generates Y transactions, N*X users will generate N*Y transactions.

Automatically shows the expected Linear Scalability vs the actual Transactions Per Second achieved.



TestCase Execution Count

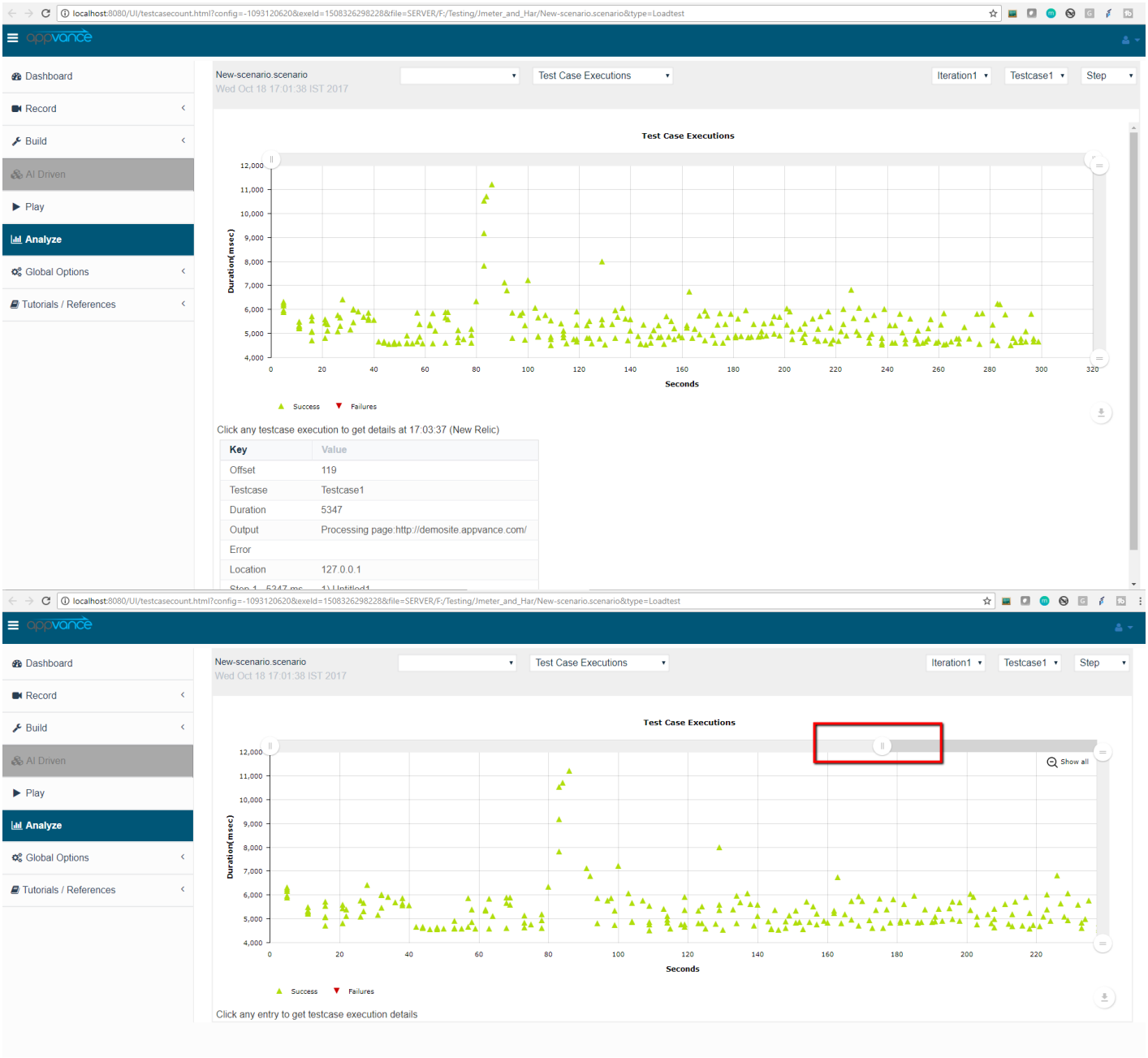
TestCase Execution Count Report shows total successful transactions versus total failures transactions. Each Iteration can be selected from the drop-down.

It is useful to quickly see if there are spikes in failures and the overall performance of the service.



TestCase Execution

TestCase Execution Report shows transactions duration every iteration. Iteration needs to be selected from the drop-down as well the Test Case.

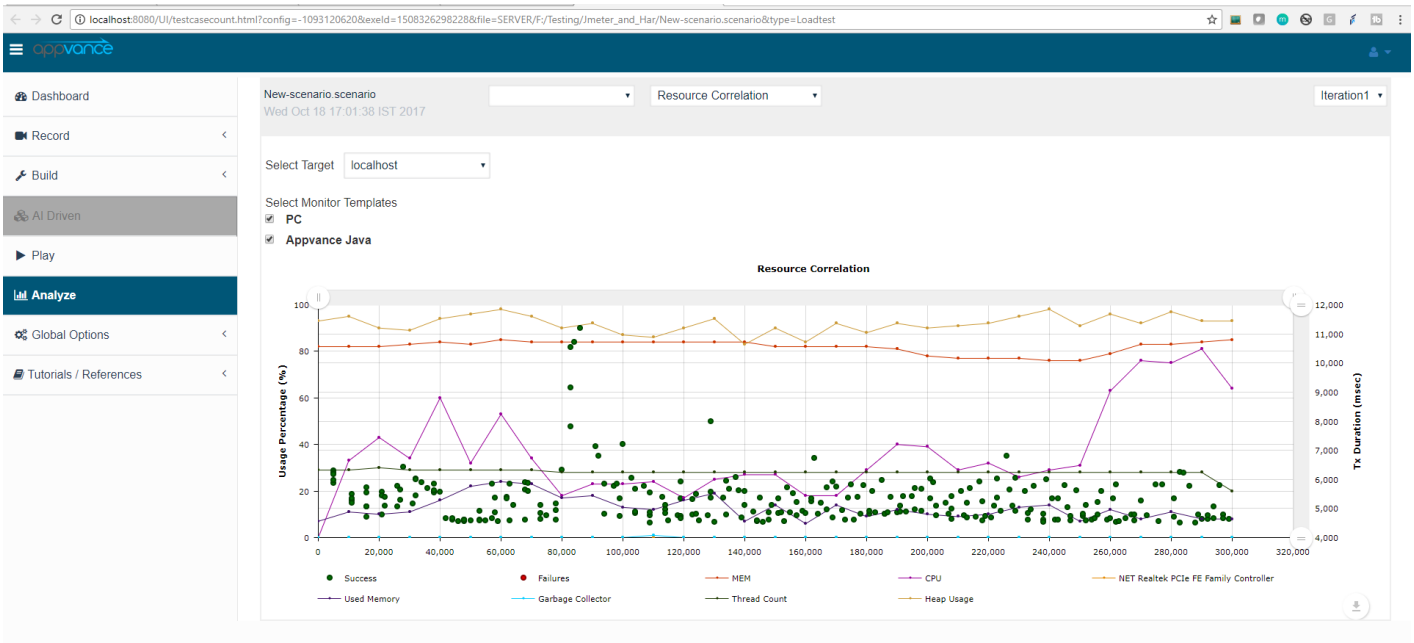


Resource correlation

Correlated successful transactions vs. resource uses. It is useful to pinpoint bottlenecks on a machine. Several machines can be added for resource monitoring. AIQ recommends adding monitors to all the machines that are used during the test. They might include databases, web servers, load balancers, etc.

In order to add machines, a UTPMonitor service should be installed on the desired machine.

Appvance IQ support APCMonitor for Windows, Linux, and Mac Operating Systems.



Resource Usage

Resource usage Report shows machine resource uses during a test. It is useful to pinpoint bottlenecks on a machine. Several machines can be added for resource monitoring. AIQ recommends adding monitors to all the machines that are used during the test. They might include databases, web servers, load balancers, etc.

In order to add machines, an APCMonitor service should be installed on the desired machine.

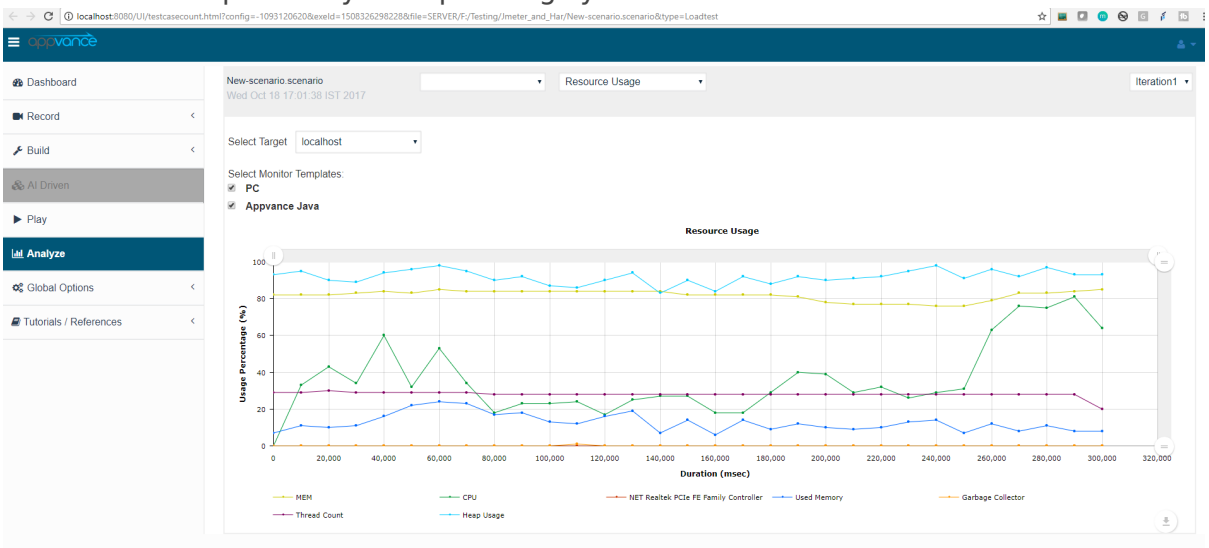
AIQ supports APCMonitor for Windows, Linux, and Mac machines.

JVM METRICS:

1. Heap Usage
    1. This is a JVM metric that shows the used Heap Memory. The heap memory is a run-time data area from which memory for all class instances and arrays are allocated. AIQ by default initializes the heap size limit as 1500 Mb.
2. Garbage Collector
    1. JVM Garbage Collector is a process that automatically handles disposing of memory is no longer used. This metric shows the CPU usage of this process.
3. Thread count
    1. Shows the current number of active threads in JVM

OS METRICS:

1. CPU Usage
    1. CPU usage as reported by the operating system.
2. MEM
    1. Percentage of memory used (against total memory) as reported by the operating system.
3. NET
    1. Net traffic as reported by the operating system.



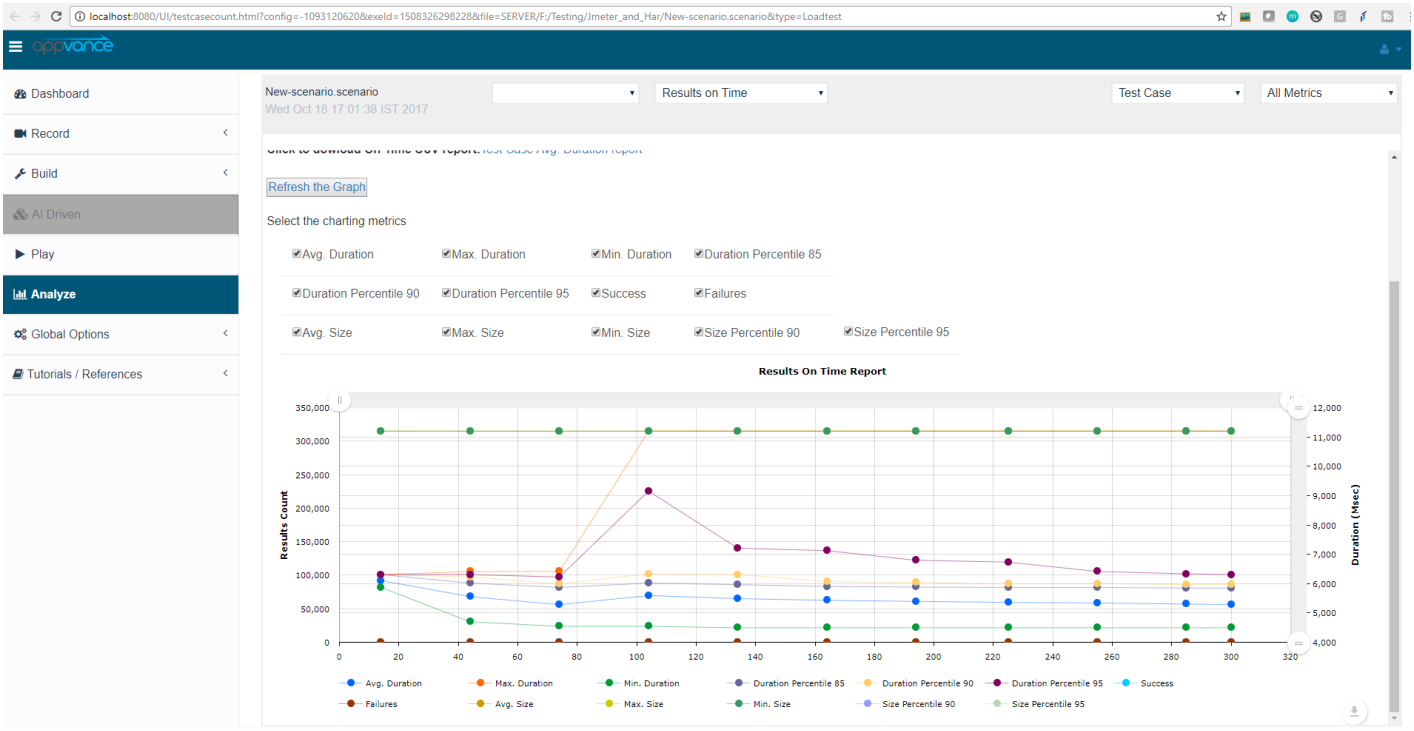
Results on Time

Results on Time graph gives you the option of choosing the "Element type" with "Metrics" that are available in the drop-down. Element type contains Test Case, Step, and Request whereas Metrics drop-down contains Size related, Count related, and duration related. Users can select the combination from either 2 and create a graph.

In addition to the graph, the user can also download CSV reports depending upon the metrics selected in the "Results on Time" Graph. If the user has selected Duration-related metrics the user can download CSV reports of Avg duration, min duration, and so on. So the CSV reports can be downloaded depending upon the metric selected.

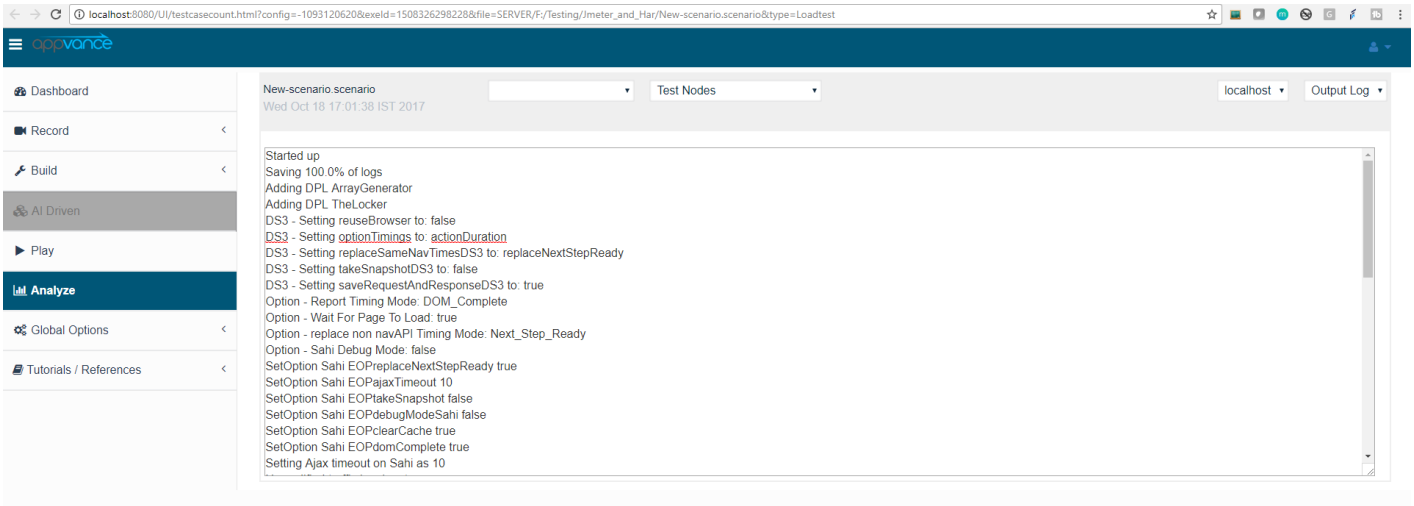
The data points for response times and hits/sec are calculated from the total number of executions for a specific time slice (granularity value). The granularity value is automatically chosen, depending on the duration of the test.

For example, if the chosen granularity value is one minute, then the system will create an average. response time value, by averaging the response times of Test Case executions occurring every minute. This graph is useful to monitor the state of each Test Case, while the test is still running.



TestNodes

TestNodes report shows quickly the output and error of the execution TestNodes. It might be useful for debugging purposes.



Step Times

Step Times Report shows transaction's step information per Iteration. The step information showed is the maximum, minimum, average step time. It also includes the duration standard deviation.

Finally, it shows the 85, 90, and 95 duration percentile. This means the maximum duration of 85, 90, and 95% of the steps. It is useful to set limits and confirm them. E.g. 90% of login steps should take less than 10 seconds.



Step Times CSV Report

Unified Test Platform also provides a CSV report of the step times. It can be opened in almost any spreadsheet editor.

Note: In order to capture total throughput in the CSV Report, Error logging should be enabled at the Options panel.

Duration	3 m 6 s																		
Start Time	Sat Jul 30 07:53:52 UTC 2016																		
End Time	Sat Jul 30 07:57:13 UTC 2016																		
Total User	60																		
Total Hits	2380																		
Total Thro	200071.46 KB																		
Average H	12.8 hits/s																		
Average T	1075.65 KB/s																		
Consume	8811.75 kbps																		
Testcases	60																		
Testcases	0																		
Testcases	0																		
Step passe	360																		
Step faile	0																		
Step error	0																		
All durations and sizes are for successes only																			
Testcase r	Total User	User Perce	Active Use	Step name	Request n	Duration (	Response	Success C	Failure Co	Total Step	Total Req	Average D	Standard I	Minimum	Median Di	Mode Dur	Duration 8	Duration 9	Duration 9	Maxim
Testcase1	60		60					60	0	360	2380	11828	290469	9089	13145	11828	13145	13499	15674	197
				1) Untitled1				60	0	60	2380	11828	290469	9089	13145	11828	13145	13499	15674	197
				1.1) navigateTo('http://www.apple.com')				60	0	60	1020	2428	149615	1973	2754	2204	2754	3010	3156	35
					myriad-set-pro_semibold.woff			60	0		60	19	0	17	20	18	20	23	27	
							200	60	0		0	19	0	17	20	18	20	23	27	
					image_large.svg			600	0		600	21	14961	17	34	18	34	35	35	

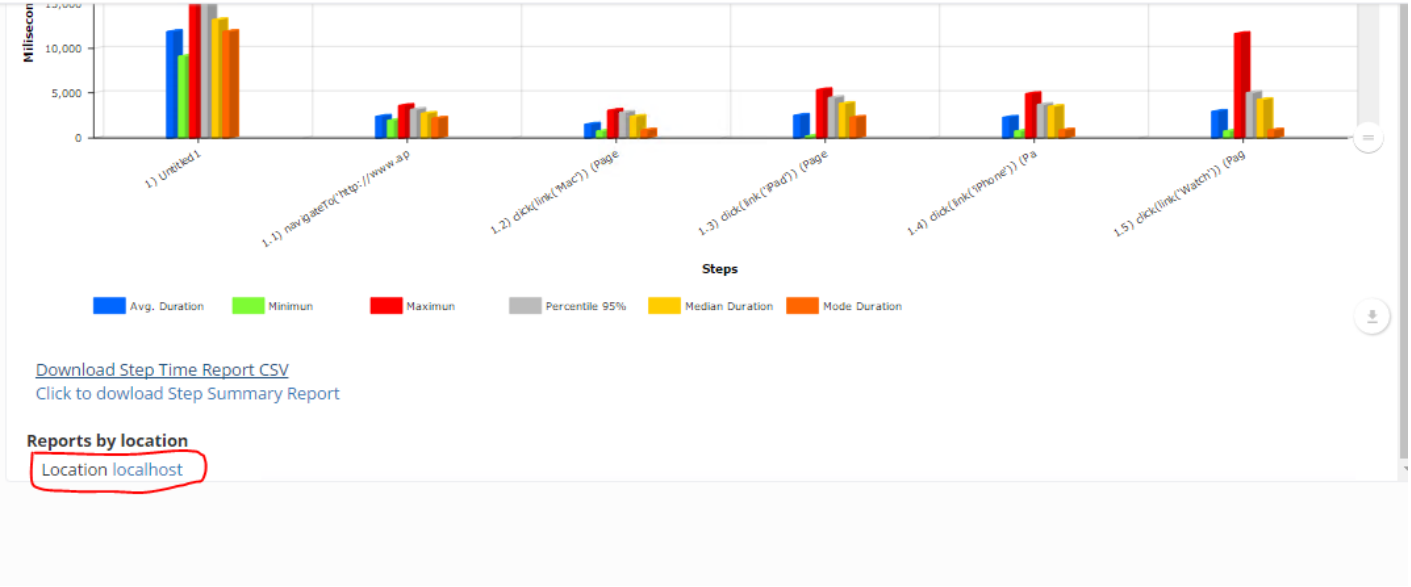
Step Summary Report

Unified Test Platform also provides a CSV report of the Step Summary. It can be opened in almost any spreadsheet editor.

Step Name	Avg. Duration (Msec)	Minimun Duration (Msec)	Maximun Duration (Msec)	Percentile 95% (Msec)	Median Duration (Msec)	Mode Duration (Msec)
1) Untitled1	11828	9089	19761	15674	13145	11828
1.1) navigateTo('http://www.apple.com') (Page Fully Loaded)	2428	1973	3579	3156	2754	2204
1.2) click(link('Mac')) (Page Fully Loaded)	1549	785	3084	2829	2369	881
1.3) click(link('iPad')) (Page Fully Loaded)	2557	204	5386	4495	3811	2316
1.4) click(link('iPhone')) (Page Fully Loaded)	2350	806	4913	3779	3513	911
1.5) click(link('Watch')) (Page Fully Loaded)	2942	783	11645	5050	4254	907

Location-Based Report

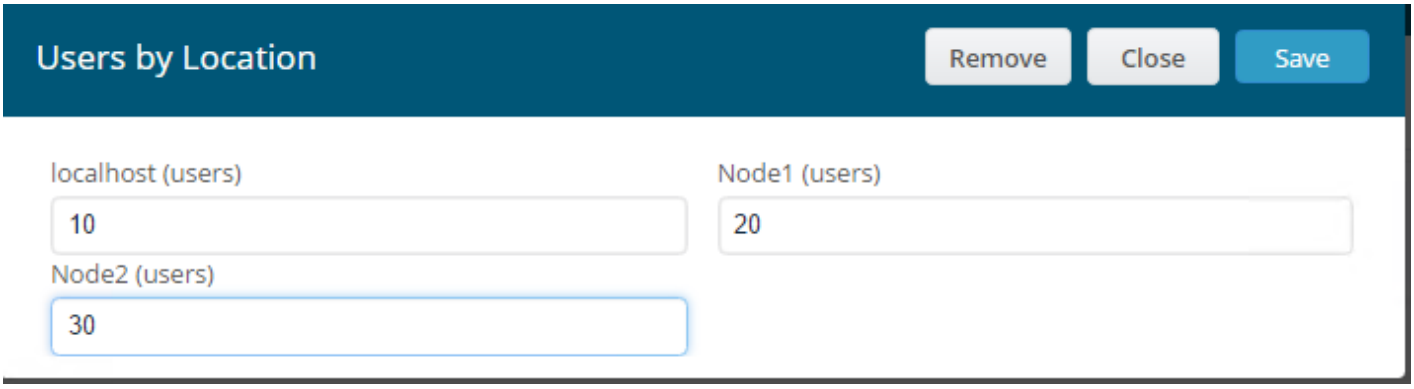
Unified Test Platform also provides a CSV report of the step times based on each location. It can be opened in almost any spreadsheet editor. There will be a separate link to download the CSV report for each location available.



Clicking on the location link will download the location-based report in CSV format as shown below.

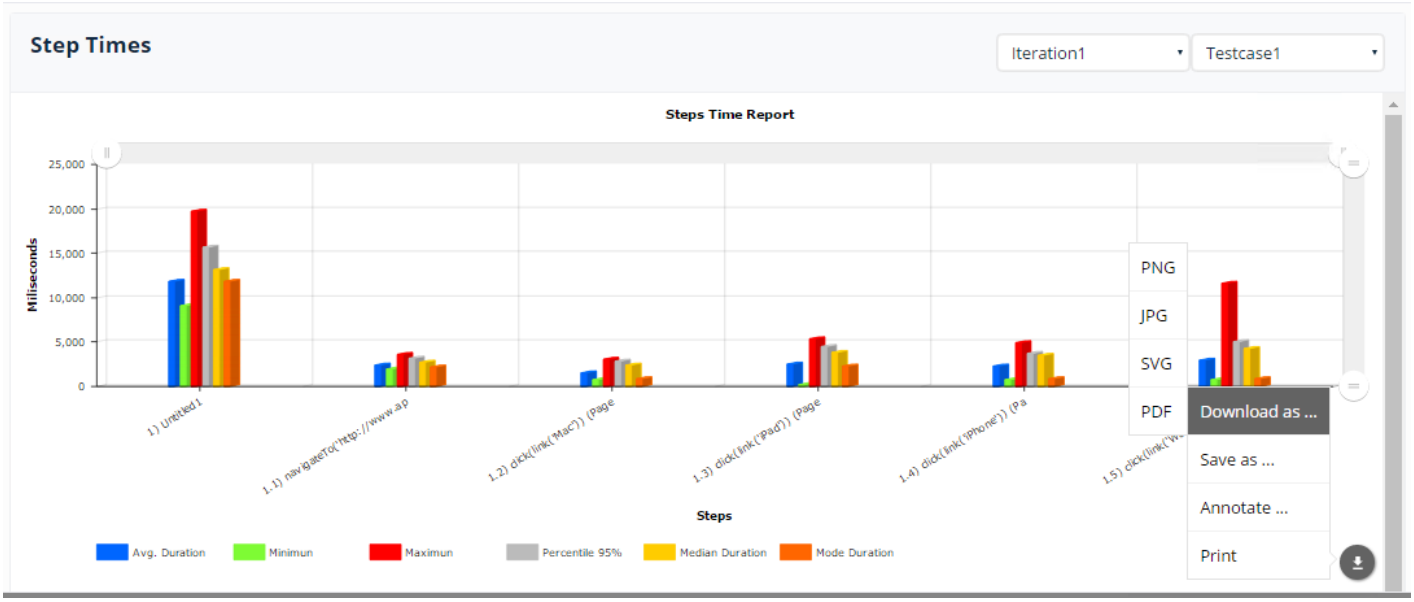
Duration	3 m 6 s																			
Start Time	Sat Jul 30 07:53:52 UTC 2016																			
End Time	Sat Jul 30 07:57:13 UTC 2016																			
Total User	110																			
Total Hits	20580																			
Total Thro	2244264.87 KB																			
Average H	110.65 hits/s																			
Average T	12065.94 KB/s																			
Consume	98844.18 kbps																			
Testcases	110																			
Testcases	0																			
Testcases	0																			
Step pass	660																			
Step faile	0																			
Step error	0																			
All durations and sizes are for successes only																				
Testcase r	Total User	User Perc	Active Use	Step nam	Request n	Duration	Response	Success C	Failure Co	Total Step	Total Req	Average D	Standard I	Minimum	Median Di	Mode Dur	Duration 8	Duration 9	Duration 9	Maxim
Testcase1	60	60						60	0	360	2380	11828	290469	9089	13145	11828	13145	13499	15674	197
				1) Untitled1				60	0	60	2380	11828	290469	9089	13145	11828	13145	13499	15674	197
				1.1) navigateTo('http://www.apple.com')				60	0	60	1020	2428	149615	1973	2754	2204	2754	3010	3156	35
					myriad-set-pro_semibold.woff			60	0		60	19	0	17	20	18	20	23	27	
							200	60	0		0	19	0	17	20	18	20	23	27	
					image_large.svg			600	0		600	21	14961	17	34	18	34	35	35	

Note: In order to capture the location-based reports, the User has to enable the locations by going to the Test Cases tab and selecting "Users by Location" and assigning the users in each location.



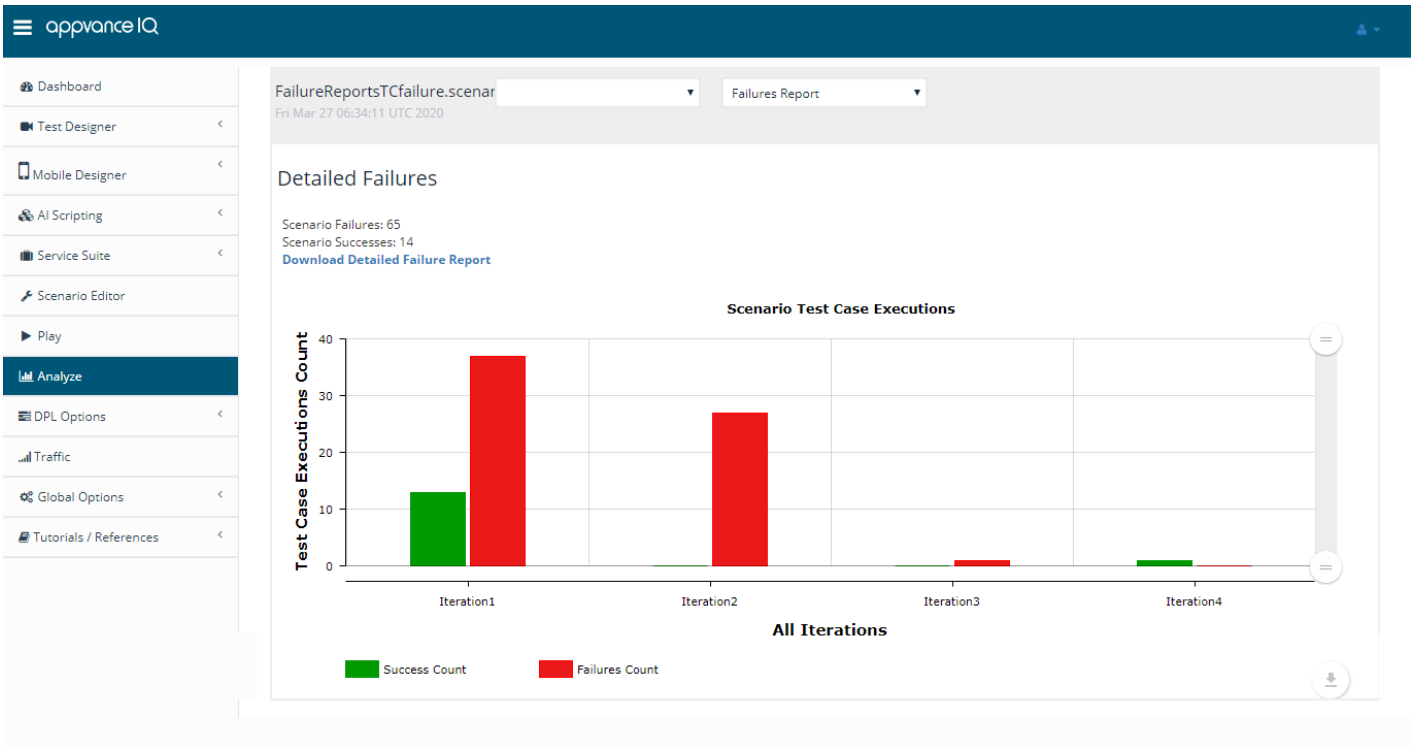
Downloading Graph

Unified Test Platform also provides a feature wherein the user can download the step times graph make changes to the graph like annotate etc.



Failures report

Failure report shows the number of successes and failures from all the iterations (Scenario wise). Just like the step times report, a bar graph is shown with the list of successes and failures.



To check the failures in detail, you can click the **Download Detailed Failures Report** link which will download an HTML report showing all the required data in detail.

AIQ Failure Report

Scenario: FailureReportsTCfailure.scenario
Date: Fri Mar 27 06:34:11 UTC 2020
Failure rate: 82.28% Successes: 14 Failures: 65

Scenario Type: Loadtest
Execution Id: 1585290851510

Iteration: Iteration1

Testcase: TC1 12 failures

Script: 1) TC1-S1 8 failures

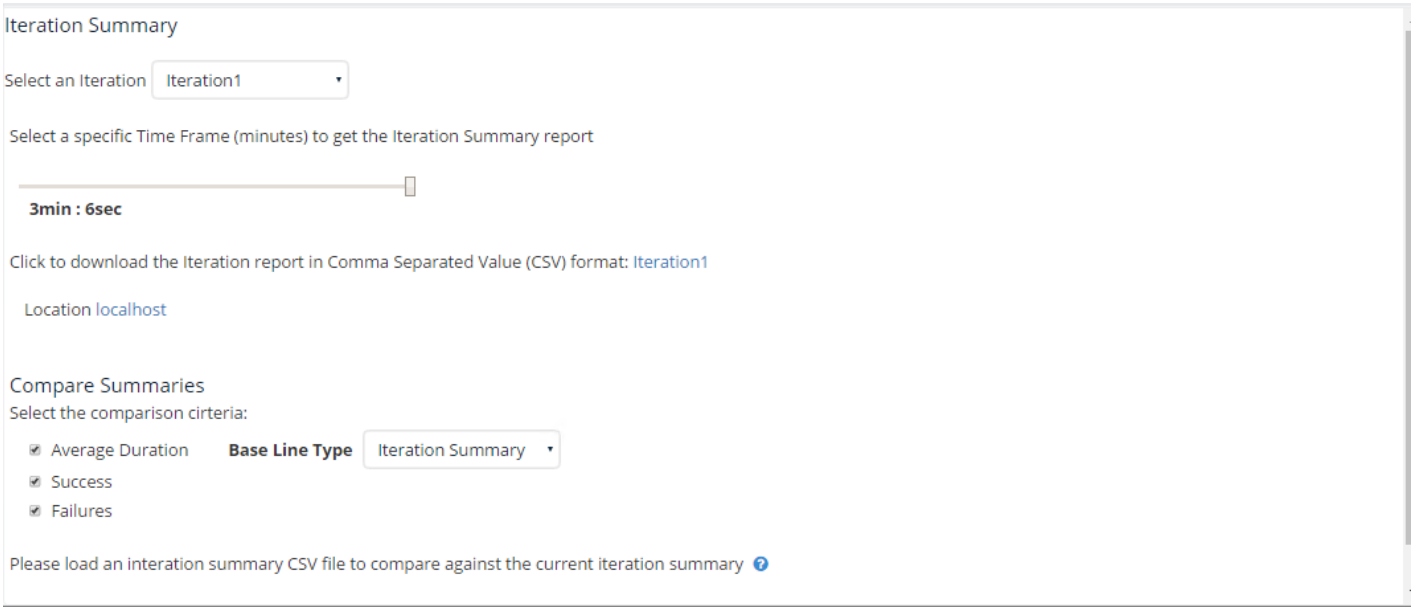
Failed Step	Reason Detail	Reason	Qty
1.2) Random step failed 2	Error: random step failed 2	Error	5
1.3) Random step failed 3	Error: random step failed 3	Error	3

Script: 2) TC1-S2 4 failures

Failed Step	Reason Detail	Reason	Qty
<no inner step got executed>	Broken!	Script failed to start executing.	4

Iteration Summary

Iteration Summary is a CSV document that shows execution information during the iterations.



The iteration summary is the most complete report. It contains several rows showing each Test Case with the total transactions achieved, the total failures, and success. It also contains the average, maximum, minimum, and average duration of each Test Case and the Standard deviation.

It also indicates the number of users who executed each Test Case during the iteration.

Also, it shows the 85, 90, and 95 percentile of each transaction. This means the maximum duration of 85, 90, and 95% of the transactions per Test Case. Percentile is useful to set limits and confirm them. E.g. 90% of Test Case "Working Sequence" should take less than 10 seconds.

Finally, it shows all the above information for the iteration as a whole and not only its Test Cases.

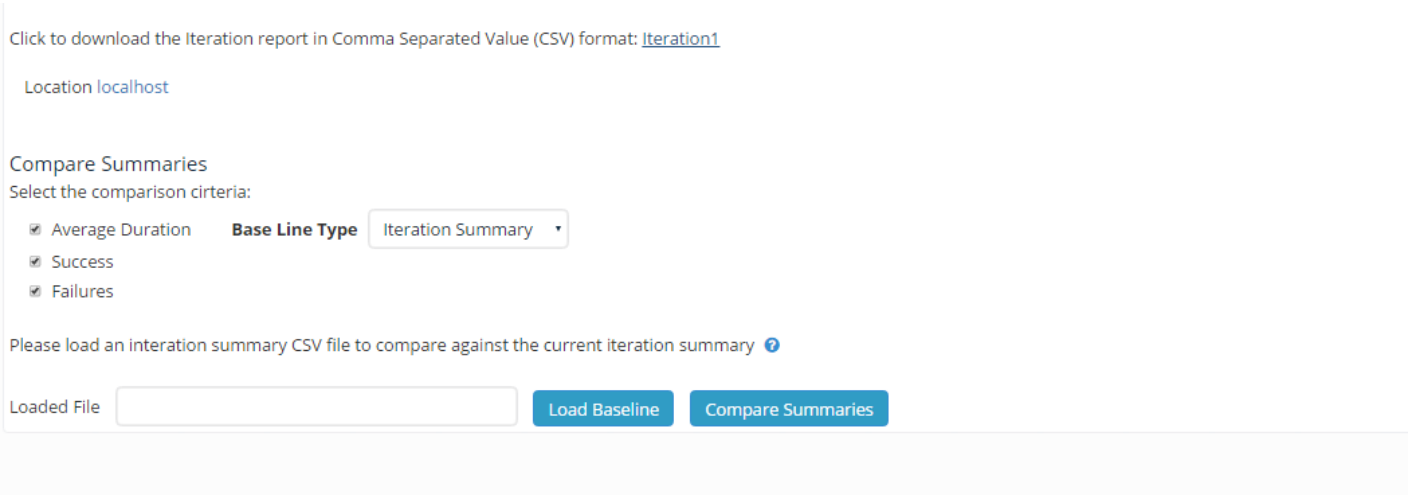
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Testcase r	Step nam	Request n	Success C	Failure Co	Total Step	Total Req	Average D	Standard I	Minimum	Duration 8	Duration 9	Duration 9	Maximum	Average S	Standard I	Minimum	Size 85 Pe	Size 85 Pe	Size 85 Pe	Maxim
2	HAR Use Case			1636	0	6544	6544	382	238	52	602	652	823	1476	38	0	38	38	38	38	
3		1) http://localhost:8		1636	0	1636	1636	98	76	14	173	193	226	654	1	0	1	1	1	1	
4			http://loc	1636	0		1636	0	0	0	0	0	0	0	1	0	1	1	1	1	
5		1) http://localhost:8		1636	0	1636	1636	67	61	10	120	141	180	796	2	0	2	2	2	2	
6			http://loc	1636	0		1636	0	0	0	0	0	0	0	2	0	2	2	2	2	
7		2) http://localhost:8		1636	0	1636	1636	55	57	10	88	104	139	565	1	0	1	1	1	1	
8			http://loc	1636	0		1636	0	0	0	0	0	0	0	1	0	1	1	1	1	
9		2) http://localhost:8		1636	0	1636	1636	89	80	13	150	171	236	816	32	0	32	32	32	32	
10			http://loc	1636	0		1636	0	0	0	0	0	0	0	32	0	32	32	32	32	

Compare Summaries

The iteration Summary tab also allows the user to compare the reports of the same test that was run previously. This helps to compare the changes in response times.

By default, the comparison takes place between the current execution and the execution which was run previously.

The screenshot of the UI is shown below.



The user loads the baseline and clicks on Compare Summaries and a report in HTML format will be opened which gives the comparison between executions.

Summaries Comparison - New_apple.scenario

	Success Count	
	Baseline	Sat Jul 30 UTC 2016
Testcase1	60.0	0.0
1) Untitled1	60.0	0.0
1.1) navigateTo('http://www.apple.com') (Page Fully Loaded)	60.0	0.0
appleicons_thin.woff	60.0	0.0
image_large.svg	600.0	0.0
myriad-set-pro_extrathin.woff	60.0	0.0
myriad-set-pro_semibold.woff	60.0	0.0
myriad-set-pro_text.woff	60.0	0.0
myriad-set-pro_thin.woff	60.0	0.0
status	120.0	0.0
1.2) click(link('Mac')) (Page Fully Loaded)	60.0	0.0
ac-analytics.js	1.0	0.0

Security Report

The security report tab is only available whenever you execute an App Penetration test type, another kind of scenario will not display this tab since there will be no report available. This report is generated based on the ZAP OWASP open-source tool which is included in AIQ as one of our engines to perform web security tests. It is a formatted PDF file with the list of vulnerabilities of a website returned by OWASP.

Security Report

Scenario: AppPenOwasp.scenario

Mon Jul 18 11:15:09 CST 2016

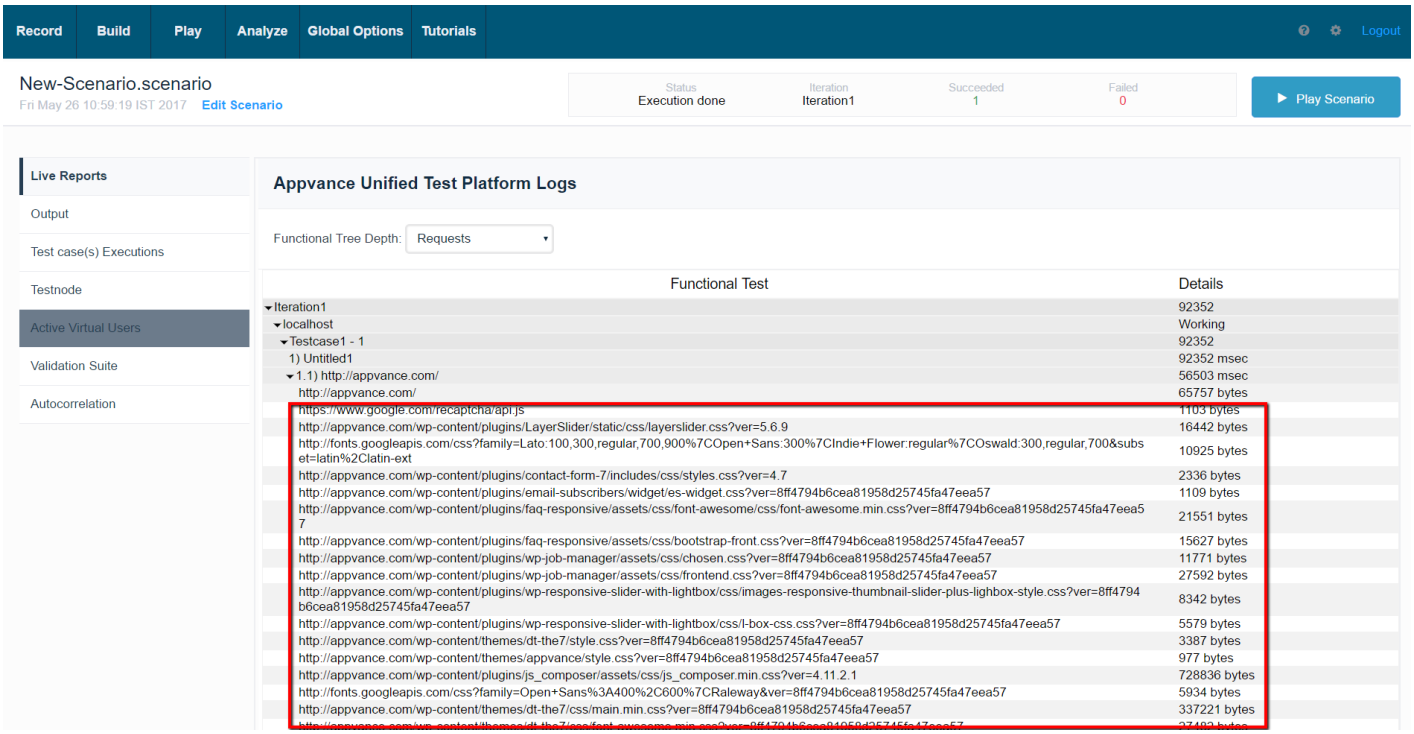
Alert Detail

Low(Medium)	X-Content-Type-Options Header Missing
Description	The Anti-MIME-Sniffing header X-Content-Type-Options was not set to 'nosniff'. This allows older versions of Internet Explorer and Chrome to perform MIME-sniffing on the response body, potentially causing the response body to be interpreted and displayed as a content type other than the declared content type. Current (early 2014) and legacy versions of Firefox will use the declared content type (if one is set), rather than performing MIME-sniffing.
URL	http://www.bosquenuboso.org/bos.css
Other information	This issue still applies to error type pages (401, 403, 500, etc) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scanner will not alert on client or server error responses.
Solution	Ensure that the application/web server sets the Content-Type header appropriately, and that it sets the X-Content-Type-Options header to 'nosniff' for all web pages. If possible, ensure that the end user uses a standards-compliant and modern web browser that does not perform MIME-sniffing at all, or that can be directed by the web application/web server to not perform MIME-sniffing.
WASC Id	15
Medium(Medium)	X-Frame-Options Header Not Set
Description	X-Frame-Options header is not included in the HTTP response to protect against 'ClickJacking' attacks.

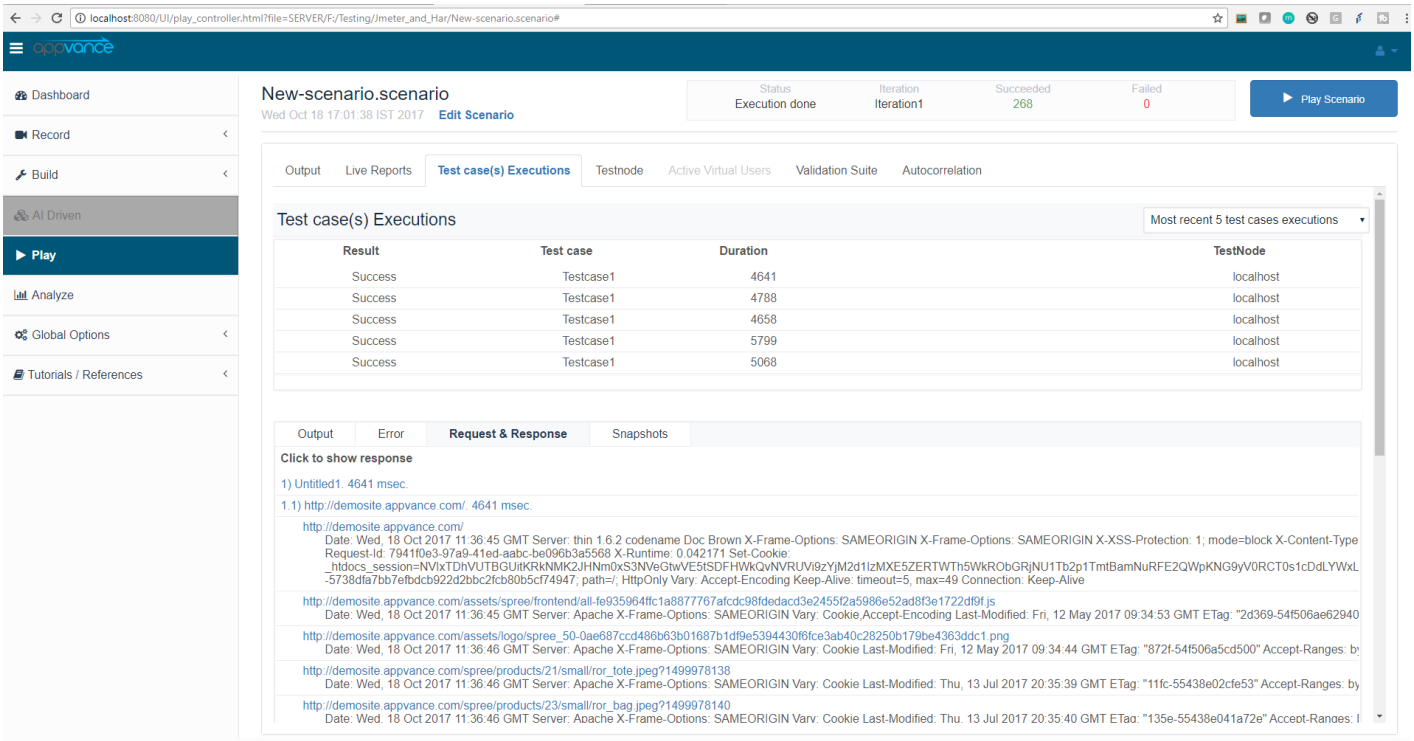
All about requests and responses

Below are some of the details of requests and responses.

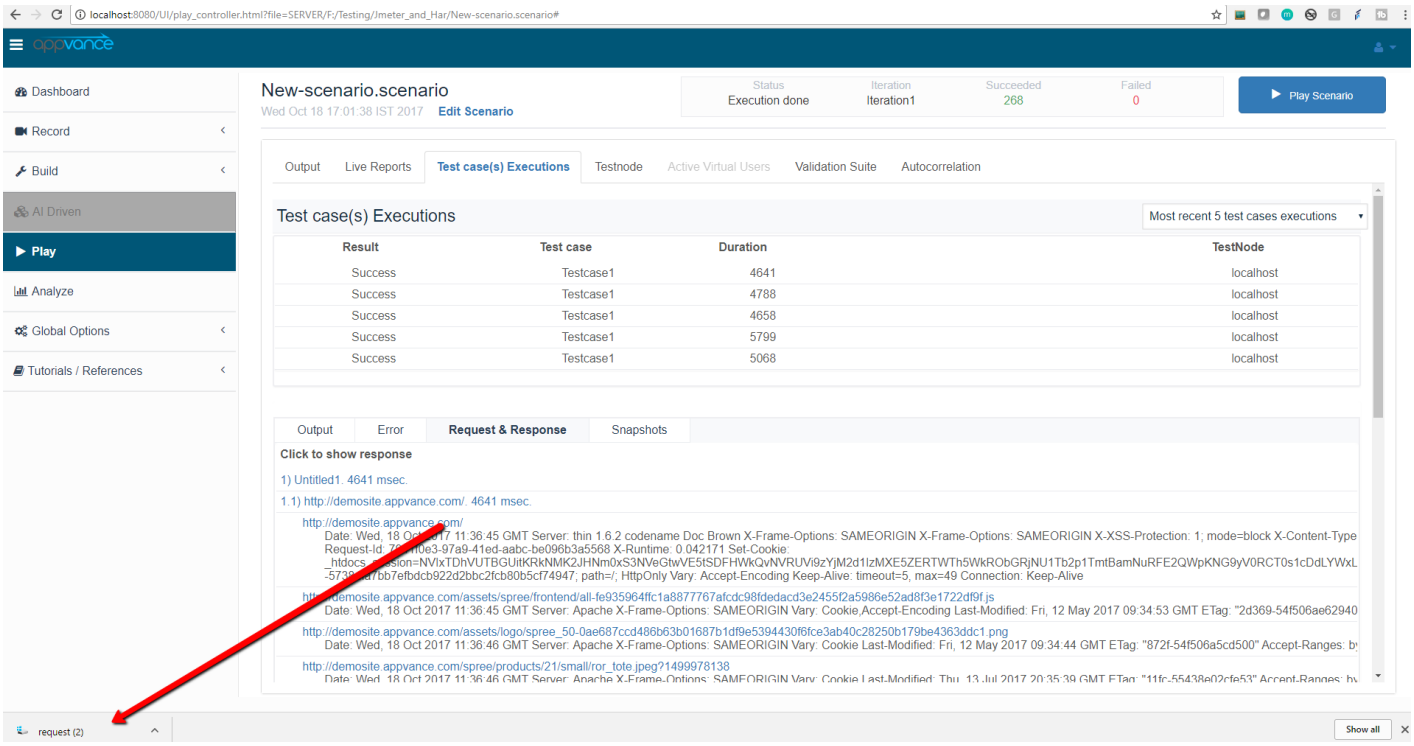
All the links below a page are requests with size in bytes - This is in the controller window after running a test.



Test Case execution tab - Click success or failure transaction - go to request and response tab to see the list of requests and responses.



Clicking a request will download the response as seen below:



Report - Iteration summary report - provides details in a CSV sheet, This shows the request name, the response codes of each request, a number of occurrences of this request under a URL, what time it took to load that request (Average duration), the minimum and maximum duration is also provided in case of the performance load test.

Filter response content:

We also have the option to filter out the response contents to be stored in the database or not with this feature.

Visit Global Options for more details.

Plot Graphs:

We can use Results on time graphs to plot graphs based on a Request from a particular step.

There are a lot more that we could offer with requests and responses, but again since we have all these data with us, presenting them to the customer as they requested does not take much time for the Appvance team.

Assertions:

Assertions can be added to Requests as well, please refer to Validation and Store Test Suite - HAR for more details.

Last updated: October 16, 2026

Revision #8
Created 2026-07-31 15:09:22 UTC by Admin

Updated 2026-10-16 18:59:52 UTC by mmora