

Traffic - Instant Replay

Note: Instant Replay replaces the **Traffic** feature. The Traffic HTTP proxy workflow (Connect, Record, Analyze) has been superseded by Instant Replay, which captures network activity while recording UX test cases in Test Designer.

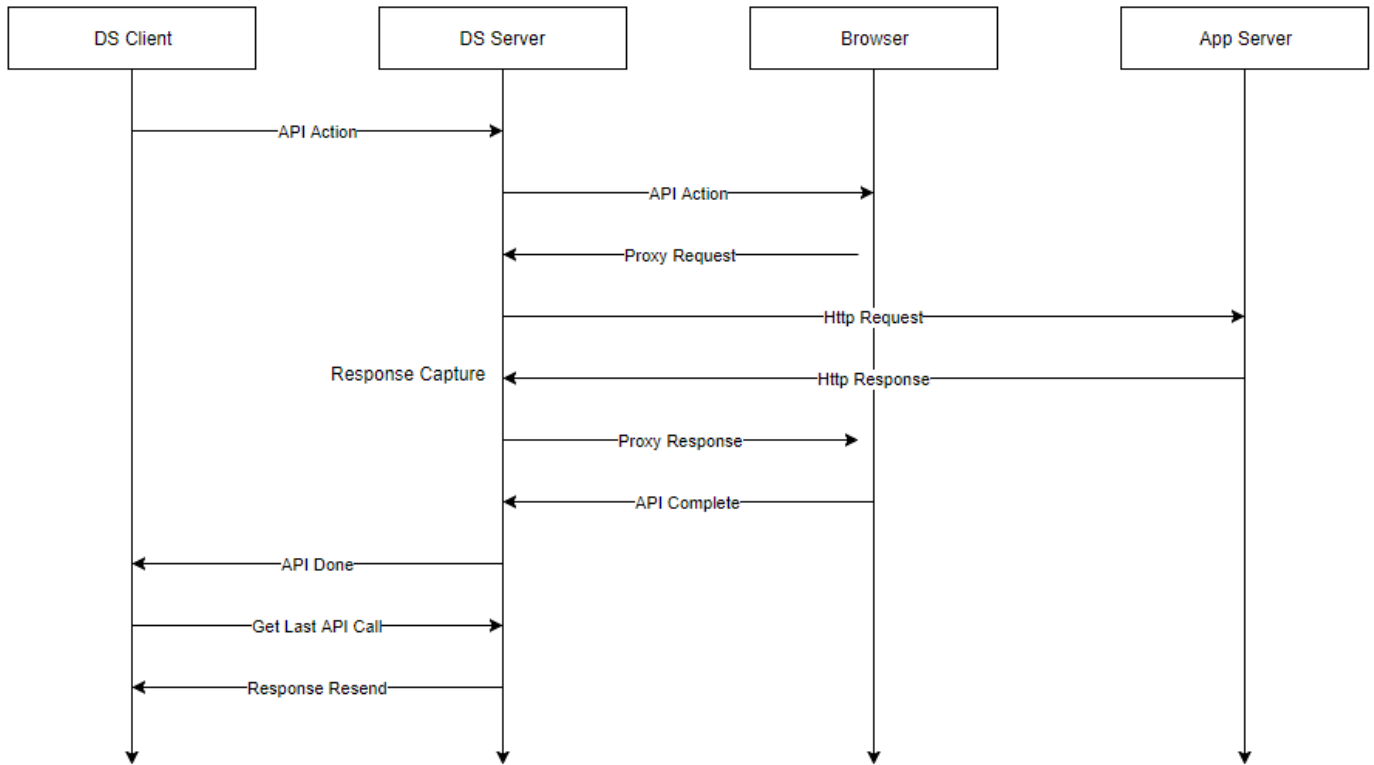
How about Recording Network activity in the background while you are recording your UX test cases using Test Designer?

Test Designer Instant Replay is the answer. Yes, Test Designer Instant Replay can capture all your network activity while a use case is getting recorded in Test Designer and it can be exported as a .zip (with HAR and contents of the page), CSV file that has details of the method, port, vhost, uri, status and also as an executable JS file.

API Testing Process:

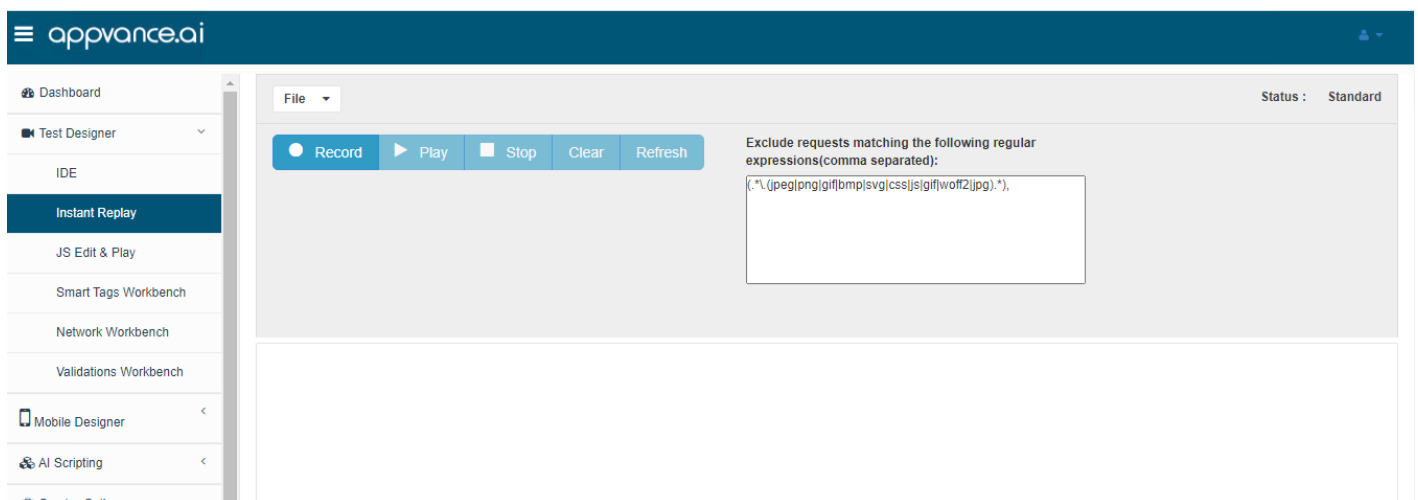
When an API request is done, Test Designer tells the browser to do the request, but it injects a header to capture and provide the API calls.

With the option, Exclude requests matching the following regular expressions (comma separated): with default values of (*.*(.jpeg|.png|.gif|.bmp|.svg|.css|.js|.gif|.woff2|.jpg).*), will filter out all those files with the mentioned extensions, you can remove or add or make any changes to these extensions depending on the requirements.



Navigation:

From the dashboard page, Under Record, Click Test Designer Instant Replay.



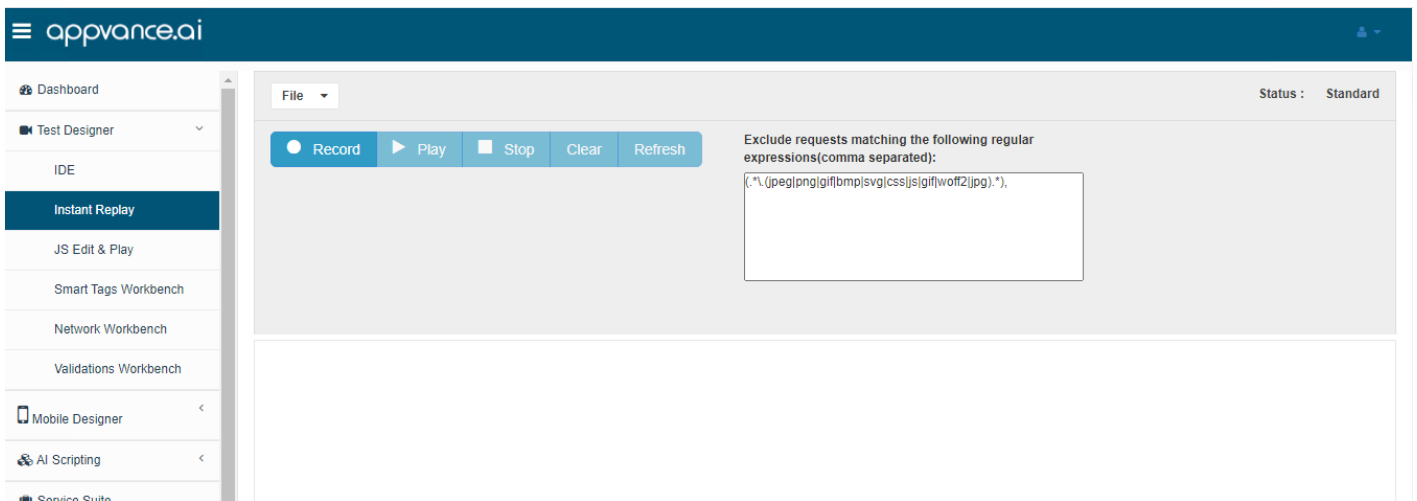
File Menu:

1. Open: Only allows .zip files. When you save the file after having some traffic recorded, File > Saving will save the file with a .zip extension or when you do a File > Export to HAR, it will save with a .zip extension. File residing in the local machine can be opened using File > Open.
2. Save: Is used to save the file after changes or a new unsaved file.
3. Save As: Is used when you want to do a Save As of an already opened file with a different file name.

4. Comparison Report: Two Instant replay zip files can be compared to check the differences between the Response body, Headers, Payloads.
Typically used for the same type of flows, with different login details, or with different environments to check the differences between Response bodies, headers, or payloads.
5. Export :

Comparison Reports

To generate the comparison report, you first need to load the instant replay file to compare against baseline data by making use of File > Open and open the zip file that is saved as the instant replay of the script.



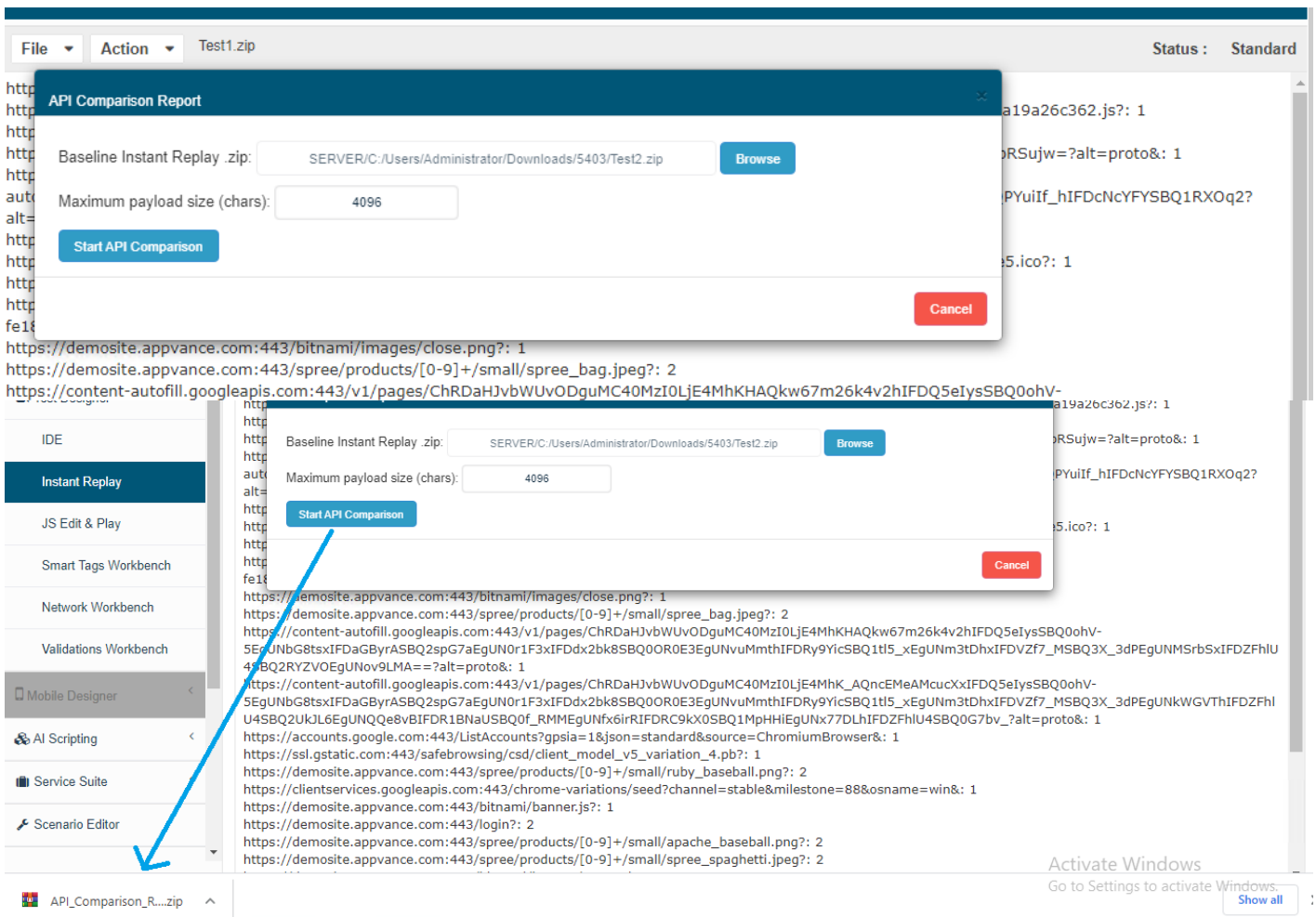
Click File and choose Comparison Report from the Drop-down.



API Comparison pop-up would be displayed to choose the baseline data to file Instant Replay (.zip file) with the Browse button.

Maximum payload size (chars): would default to 4096 chars but that is something that can be changed and allows only numerical entries.

Start Comparison button would be enabled, clicking which will download a zip containing all the reports.



It is required to extract the downloaded zip content of the files and open the generated .html file.

Name	Date modified	Type	Size
__MACOSX	2/22/2021 6:56 AM	File folder	
libs	1/27/2021 6:15 PM	File folder	
API_Comparison_Report_02_22_2021_06_56	2/22/2021 6:56 AM	Chrome HTML Do...	134 KB

Below is the comparison report that is going to be generated, which will show the comparison report file name, the files that are used for comparison, and the maximum data size.

It displays all the Requests along with the size, Response Body and the differences for each of the rows which can be expanded/collapsed, Headers and request/response header differences which can be expanded/collapsed for each of the rows, Payload with differences for each of the rows which can be expanded/collapsed.

AIQ API Comparison Report

API_Comparison_Report_02_22_2021_06_56.html

Comparing baseline SERVER/C:/Users/Administrator/Downloads/5403/Test1.zip's 46 requests against 32 loaded requests

Maximum data size: 4097 chars

☐ Hide Row Number ☒ Show All Columns ☐ Show only Response Body ☐ Show only Headers ☐ Show only Payload

#	Method	Request	Size	Response Body	Headers	Payload
1	GET	https://clientservices.googleapis.com:443/chrome-variations/seed?osname=win&channel=stable&milestone=88	0 / 0	-	response headers diff	-
2	POST	https://accounts.google.com:443/ListAccounts?gpsia=1&source=ChromiumBrowser&json=standard	19 / 19	-	response headers diff	-
3	GET	https://demosite.appvance.com:443/	21031 / 21031	Response diff	response headers diff	-
4	GET	https://demosite.appvance.com:443/assets/spree/frontend/all-dcce360e77937eb06679c31bcd694097abc747ae87d2bc292fdd5318b67ceff.css	125427 / 125427	-	Request headers diff response headers diff	-
5	GET	https://demosite.appvance.com:443/assets/spree/frontend/all-0281369d41354ab55fdb55cdccf3c49ba18178485a8e2a8acb9148a19a26c362.js	0 / 0	-	Request headers diff	-

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There is an option to hide or show the row numbers.

Also, the option to choose a particular column that needs to be displayed.

You can click each of the buttons like "response headers diff" for example to check the differences.

- "-" means no data found
- The green color means some data has been added
- The red color means some data has been removed or not found

AIQ API Comparison Report

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Comparing baseline SERVER/C:/Users/Administrator/Downloads/5403/Test1.zip's 46 requests against 32 loaded requests

Maximum data size: 4097 chars

☐ Hide Row Number ☒ Show All Columns ☐ Show only Response Body ☐ Show only Headers ☐ Show only Payload

#	Method	Request	Size	Response Body	Headers	Payload
1	GET	https://clientservices.googleapis.com:443/chrome-variations/seed?osname=win&channel=stable&milestone=88	0 / 0	-	response headers diff [{"name":"lm","value":"","gzip":1,["name":"X-Content-Type-Options","value":"nosniff"},{"name":"X-Country","value":"us"}, {"name":"X-Seed-Signature","value":"MEUQCQClmD9qdADkaW6RWJuntLNd0vM4t1MTn3Z8QpF5kgmIgcupyAMYN2Lu7QANXp5LGRQCqtoHs14q8oyuG02p5L++BK8Lk13VkQ3CyyEYUJdZwG/GYhSBUBayERApKWslTpCAiA6TSMJ7CCHbrW2h0Vh:8GL2eK0xtgSWdPXozlEA3CSkg=="}, {"name":"Date","value":"Mon, 22 Feb 2021 06:54:05:16 GMT"}, {"name":"Content-Type","value":"application/x-gzip"}, {"name":"Alt-Svc","value":"h3-29=\":\"443\"; ma=2592000,h3-T051=\":\"443\"; ma=2592000,h3-Q050=\":\"443\"; ma=2592000,h3-Q046=\":\"443\"; ma=2592000,h3-Q043=\":\"443\"; ma=2592000,quic=\":\"443\"; ma=2592000; v=\":\"46,43\""}]	-
2	POST	https://accounts.google.com:443/ListAccounts?	19 / 19	-	response headers diff	-

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6. Export: The recorded traffic can be exported to 3 different formats.

a) HAR: downloaded as a .zip file, contains the har calls "Record.har" plus all the history containing .jpg's, .html's, txt's, .dat's, .json files etc

b) CSV: Contains details of the method, port, vhost, uri, status. This CSV can be used as a log from Appvance AI as well

	A	B	C	D	E
1	method	port	vhost	uri	status
2	GET	443	translate.googleapis.com	https://translate.googleapis.com:443/translate_a/l?client=chrome&hl=en&key=AlzaSyB0ti4mM-6x9WDnZiJleyEU21OpBXqWBgw	200
3	GET	443	clientservices.googleapis.com	https://clientservices.googleapis.com:443/chrome-variations/seed?osname=win	200
4	HEAD	80	iutegrugloeos	http://iutegrugloeos/	404
5	HEAD	80	bthewnqador	http://bthewnqador/	404
6	HEAD	80	zkiqxmtesnwg	http://zkiqxmtesnwg/	404
7	GET	443	www.google.com	https://www.google.com:443/searchdomaincheck?format=domain&type=chrome	200
8	GET	80	demosite.appvance.com	http://demosite.appvance.com/	200
9	GET	80	demosite.appvance.com	http://demosite.appvance.com/assets/spree/frontend/all-2add5141235941778d5f385ae3221bae7b3cec339ba9da43594ccb79d20182bb.css	200
10	GET	80	demosite.appvance.com	http://demosite.appvance.com/assets/spree/frontend/all-fe935964ffc1a8877767afcdc98fdedacd3e2455f2a5986e52ad8f3e1722df9f.js	200
11	GET	80	demosite.appvance.com	http://demosite.appvance.com/ruxitagentjs_ICA2SVfqr_10129170927131437.js	200
12	GET	80	demosite.appvance.com	http://demosite.appvance.com/assets/logo/spree_50-0ae687ccd486b63b01687b1df9e5394430f6fce3ab40c28250b179be4363ddc1.png	200
13	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/21/small/ror_tote.jpeg?1499978138	200
14	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/23/small/ror_bag.jpeg?1499978140	200
15	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/24/small/ror_baseball.jpeg?1499978140	200
16	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/29/small/ror_ringer.jpeg?1499978144	200
17	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/26/small/ror_jr_spaghetti.jpeg?1499978142	200
18	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/34/small/ruby_baseball.png?1499978147	200
19	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/41/small/spree_jersey.jpeg?1499978152	200
20	GET	80	demosite.appvance.com	http://demosite.appvance.com/cart_link	200
21	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/40/small/spree_spaghetti.jpeg?1499978152	200
22	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/38/small/spree_ringer_t.jpeg?1499978150	200
23	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/33/small/apache_baseball.png?1499978146	200
24	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/36/small/spree_tote_front.jpeg?1499978149	200
25	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/35/small/spree_bag.jpeg?1499978148	200
26	GET	80	demosite.appvance.com	http://demosite.appvance.com/assets/bootstrap/glyphicons-halflings-regular-fe185d11a49676890d47bb783312a0cda5a44c4039214094e7957b4c040ef11c.woff2	200
27	GET	80	demosite.appvance.com	http://demosite.appvance.com/assets/favicon-92e86d463e909754599d66730477622cd3dd0b9bff58c47c9c38bebcbe8073e5.ico	200
28	POST	80	demosite.appvance.com	http://demosite.appvance.com/rb_bf03761vws	200
29	POST	80	demosite.appvance.com	http://demosite.appvance.com/rb_bf03761vws	200
30	GET	80	demosite.appvance.com	http://demosite.appvance.com/t/brands/bags	200
31	GET	80	demosite.appvance.com	http://demosite.appvance.com/assets/spree/frontend/all-2add5141235941778d5f385ae3221bae7b3cec339ba9da43594ccb79d20182bb.css	304
32	GET	80	demosite.appvance.com	http://demosite.appvance.com/cart_link	304
33	POST	80	demosite.appvance.com	http://demosite.appvance.com/rb_bf03761vws	200
34	POST	80	demosite.appvance.com	http://demosite.appvance.com/rb_bf03761vws	200
35	GET	80	demosite.appvance.com	http://demosite.appvance.com/t/brands/mugs	200
36	GET	80	demosite.appvance.com	http://demosite.appvance.com/assets/spree/frontend/all-2add5141235941778d5f385ae3221bae7b3cec339ba9da43594ccb79d20182bb.css	304
37	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/27/small/ror_mug.jpeg?1499978142	200
38	GET	80	demosite.appvance.com	http://demosite.appvance.com/assets/spree/frontend/all-fe935964ffc1a8877767afcdc98fdedacd3e2455f2a5986e52ad8f3e1722df9f.js	304
39	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/43/small/spree_stein.jpeg?1499978154	200
40	GET	80	demosite.appvance.com	http://demosite.appvance.com/spree/products/31/small/ror_stein.jpeg?1499978145	200

c) JS: A executable JS Script with all the gets and posts like the one below

```
setDomain('https://translate.googleapis.com:443');
get('https://translate.googleapis.com:443/translate_a/l?client=chrome&hl=en&key=AlzaSyB0ti4mM-6x9WDnZiJleyEU21OpBXqWBgw');
setDomain('https://clientservices.googleapis.com:443');
get('https://clientservices.googleapis.com:443/chrome-variations/seed?osname=win');
setDomain('http://iutegrugloeos:80');
get('http://iutegrugloeos/');
setDomain('http://bthewnqador:80');
get('http://bthewnqador/');
setDomain('http://zkiqxmtesnwg:80');
get('http://zkiqxmtesnwg/');
setDomain('https://www.google.com:443');
get('https://www.google.com:443/searchdomaincheck?format=domain&type=chrome');
setDomain('http://demosite.appvance.com:80');
get('http://demosite.appvance.com/');
get('http://demosite.appvance.com/assets/spree/frontend/all-2add5141235941778d5f385ae3221bae7b3cec339ba9da43594ccb79d20182bb.css');
get('http://demosite.appvance.com/assets/spree/frontend/all-fe935964ffc1a8877767afcdc98fdedacd3e2455f2a5986e52ad8f3e1722df9f.js');
get('http://demosite.appvance.com/ruxitagentjs_ICA2SVfqr_10129170927131437.js');
get('http://demosite.appvance.com/assets/logo/spree_50-0ae687ccd486b63b01687b1df9e5394430f6fce3ab40c28250b179be4363ddc1.png');
get('http://demosite.appvance.com/spree/products/21/small/ror_tote.jpeg?1499978138');
get('http://demosite.appvance.com/spree/products/23/small/ror_bag.jpeg?1499978140');
get('http://demosite.appvance.com/spree/products/24/small/ror_baseball.jpeg?1499978140');
get('http://demosite.appvance.com/spree/products/29/small/ror_ringer.jpeg?1499978144');
get('http://demosite.appvance.com/spree/products/26/small/ror_jr_spaghetti.jpeg?1499978142');
get('http://demosite.appvance.com/spree/products/34/small/ruby_baseball.png?1499978147');
get('http://demosite.appvance.com/spree/products/41/small/spree_jersey.jpeg?1499978152');
get('http://demosite.appvance.com/cart_link');
get('http://demosite.appvance.com/spree/products/40/small/spree_spaghetti.jpeg?1499978152');
get('http://demosite.appvance.com/spree/products/38/small/spree_ringer_t.jpeg?1499978150');
get('http://demosite.appvance.com/spree/products/33/small/apache_baseball.png?1499978146');
get('http://demosite.appvance.com/spree/products/36/small/spree_tote_front.jpeg?1499978149');
get('http://demosite.appvance.com/spree/products/35/small/spree_bag.jpeg?1499978148');
get('http://demosite.appvance.com/assets/bootstrap/glyphicons-halflings-regular-fe185d11a49676890d47bb783312a0cda5a44c4039214094e7957b4c040ef11c.woff2');
get('http://demosite.appvance.com/assets/favicon-92e86d463e909754599d66730477622cd3dd0b9bff58c47c9c38bebcbe8073e5.ico');
post('http://demosite.appvance.com/rb_bf03761vws');
post('http://demosite.appvance.com/rb_bf03761vws');
get('http://demosite.appvance.com/t/brands/bags');
get('http://demosite.appvance.com/assets/spree/frontend/all-2add5141235941778d5f385ae3221bae7b3cec339ba9da43594ccb79d20182bb.css');
get('http://demosite.appvance.com/cart_link');
post('http://demosite.appvance.com/rb_bf03761vws');
```

Actions Menu:

1. Start Recording: will start recording HAR traffic for the app that will be recorded using Test Designer IDE.
2. Re/Start Playback: will clear the historical data which is already present and make a fresh recording of the requirement for playback.
3. Stop: will stop recording HAR traffic calls.

4. Clear History: will simply clear your recording area and it will be ready to record new HAR traffic.
5. Show calls: This is more like a refresh button, that keeps updating the new traffic that got recorded.

Status:

You will see Status on the top right corner of the page, Initially Status will be Standard.

When you click Start Recording from the Action menu bar Status will change to Record, and Again, Status will be Standard when you click Stop from the Action menu bar.

Status : Standard

Status : Record

How to use Test Designer Instant Replay

Follow these steps:

1. Go to Instant Replay and click Start Recording from the drop-down.
2. Go back to Test Designer IDE and begin Recording by clicking Record > choose a browser and perform your UX actions.
3. Come back to Instant Replay and click Show calls from the Action Menu, you will notice all the traffic that is getting captured.
4. Once done with all the recording, you can go ahead and save the file as a .zip file or any other 2 formats mentioned above.
5. Not just recording, Test Designer Instant Replay also records the history calls when we playback scripts from Test Designer.
6. Go back to Test Designer IDE, open any existing script, come to Instant Replay, click 'Start Recording' and playback the script from Test Designer IDE, and you can click 'Show calls' from the Action menu, you will notice all the traffic that it got created.
7. These traffic logs can be used to generate more traffic when running as a performance test (running at the protocol level) using along with the actual Test Designer script (running at the browser level).

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Dashboard

Test Designer

IDE

Instant Replay

JS Edit & Play

Smart Tags Workbench

Network Workbench

Validations Workbench

Mobile Designer

AI Scripting

Service Suite

Scenario Editor

Play

Analyze

DPL Options

File

Status : Record

Record

Play

Stop

Clear

Refresh

Exclude requests matching the following regular expressions(comma separated):

(.^(jpeglpng|gif|bmp|svg|css|js|woff2|jpg|.*)

ansg&gs_rm=42&oit=1&pgcl=4&psi=iiA3eMz2o8aQn6sg&q=demosite.a&sugkey=AIzaSyBOTi4mM-6x9WDnZIJIeyEU21OpBXqWBgw&xssi=t&: 1
https://demosite.appvance.com:443/cart_link?: 1
https://www.google.com:443/complete/search?client=chrome-omni&cp=4&gs_ri=chrome-ext-
ansg&gs_rm=42&oit=1&pgcl=4&psi=iiA3eMz2o8aQn6sg&q=demo&sugkey=AIzaSyBOTi4mM-6x9WDnZIJIeyEU21OpBXqWBgw&xssi=t&: 1
https://demosite.appvance.com:443/: 1
https://www.google.com:443/complete/search?q=tbm:And9GcQH5auM5axgco8chL66OcGFOAaA_9qfKqLZSFG8-WM&s=10&: 1
https://www.google.com:443/complete/search?client=chrome-omni&cp=8&gs_ri=chrome-ext-
ansg&gs_rm=42&oit=1&pgcl=4&psi=iiA3eMz2o8aQn6sg&q=demosite&sugkey=AIzaSyBOTi4mM-6x9WDnZIJIeyEU21OpBXqWBgw&xssi=t&: 1
https://demosite.appvance.com:443/assets/favicon-92e86d463e909754599d66730477622cd3dd0b9b58c47c9c38beceeb8073e5.ico?: 1
https://encrypted-tbn0.gstatic.com:443/images?q=tbm:And9GcTWY4gVKwwYxxqjNzNy_lfeG3XUunkusK31bdkA-XU&s=10&: 1
https://www.google.com:443/complete/search?client=chrome-omni&cp=12&gs_ri=chrome-ext-
ansg&gs_rm=42&oit=3&pgcl=4&psi=iiA3eMz2o8aQn6sg&q=demosite.app&sugkey=AIzaSyBOTi4mM-6x9WDnZIJIeyEU21OpBXqWBgw&xssi=t&: 1
https://www.google.com:443/complete/search?client=chrome-omni&cp=15&gs_ri=chrome-ext-
ansg&gs_rm=42&oit=1&pgcl=4&psi=iiA3eMz2o8aQn6sg&q=demosite.appvan&sugkey=AIzaSyBOTi4mM-6x9WDnZIJIeyEU21OpBXqWBgw&xssi=t&: 1
https://www.google.com:443/complete/search?client=chrome-omni&cp=19&gs_ri=chrome-ext-
ansg&gs_rm=42&oit=1&pgcl=4&psi=iiA3eMz2o8aQn6sg&q=demosite.appvance.c&sugkey=AIzaSyBOTi4mM-6x9WDnZIJIeyEU21OpBXqWBgw&xssi=t&: 1
https://www.google.com:443/complete/search?client=chrome-omni&cp=17&gs_ri=chrome-ext-
ansg&gs_rm=42&oit=1&pgcl=4&psi=iiA3eMz2o8aQn6sg&q=demosite.appvance&sugkey=AIzaSyBOTi4mM-6x9WDnZIJIeyEU21OpBXqWBgw&xssi=t&: 1
https://www.google.com:443/complete/search?client=chrome-omni&cp=18&gs_ri=chrome-ext-
ansg&gs_rm=42&oit=1&pgcl=4&psi=iiA3eMz2o8aQn6sg&q=demosite.appvance.&sugkey=AIzaSyBOTi4mM-6x9WDnZIJIeyEU21OpBXqWBgw&xssi=t&: 1

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

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