

Usage

Performance scripts contained in this package for testing HSv4 endpoints uses [Taurus](#) with [JMeter](#)

Taurus

Taurus (bzt) is a command line based tool/framework assists in automating test scripts. Taurus installation instructions are [here](#)

JMeter

Performance test scripts are composed with the help of JMeter. Starting Taurus should take care of downloading required JMeter version but in case of connectivity issues, please follow the latest [JMeter installation instructions](#) to install JMeter locally. JMeter also needs a working installation of Java (JVM)

Run performance tests

- Ensure Taurus, JMeter and Java are installed and available.
- run-vendor-perf-tests.sh is the script to run these tests locally.
- The script takes `base_url` as first input i.e. the vendor endpoint but without `https:` protocol in front. If the argument to the `run-vendor-perf-tests` script is missing then an error is thrown. Note that currently JMX script assumes URL to be `https` type, but possible to modify JMX script to use `http` instead.
- The script takes `auth_token` as second input. A base64 encoded string of username:password

For linux and MacOS :

```
./run-vendor-perf-tests.sh "<base_url>"  
where <base_url> should be of the form HOST/BASE_PATH without `https` protocol
```

For windows :

Double click on the `run-vendor-perf-tests.bat` file and enter the host/base url when prompted. OR run the following command in command prompt.

```
.\run-vendor-perf-tests.bat <base_url>  
where <base_url> should be of the form HOST/BASE_PATH without `https` protocol
```

- After the script executes, jmeter is automatically installed in the newly created `execution` folder.
- Taurus report is logged on the console.
- Jmeter's html report `index.html` is generated in the `reports/<current-date>` folder.

Booking endpoints

- In order to tests booking endpoints - please make sure to add booking payment information in `vendor-perf-tests/data/hs4-vendor-payment-inputs.csv` before running the tests.
- Refer to the table below for example values to all fields in the csv. NOTE: Fields which contain ****** are the required fields in the schema to make the requests.

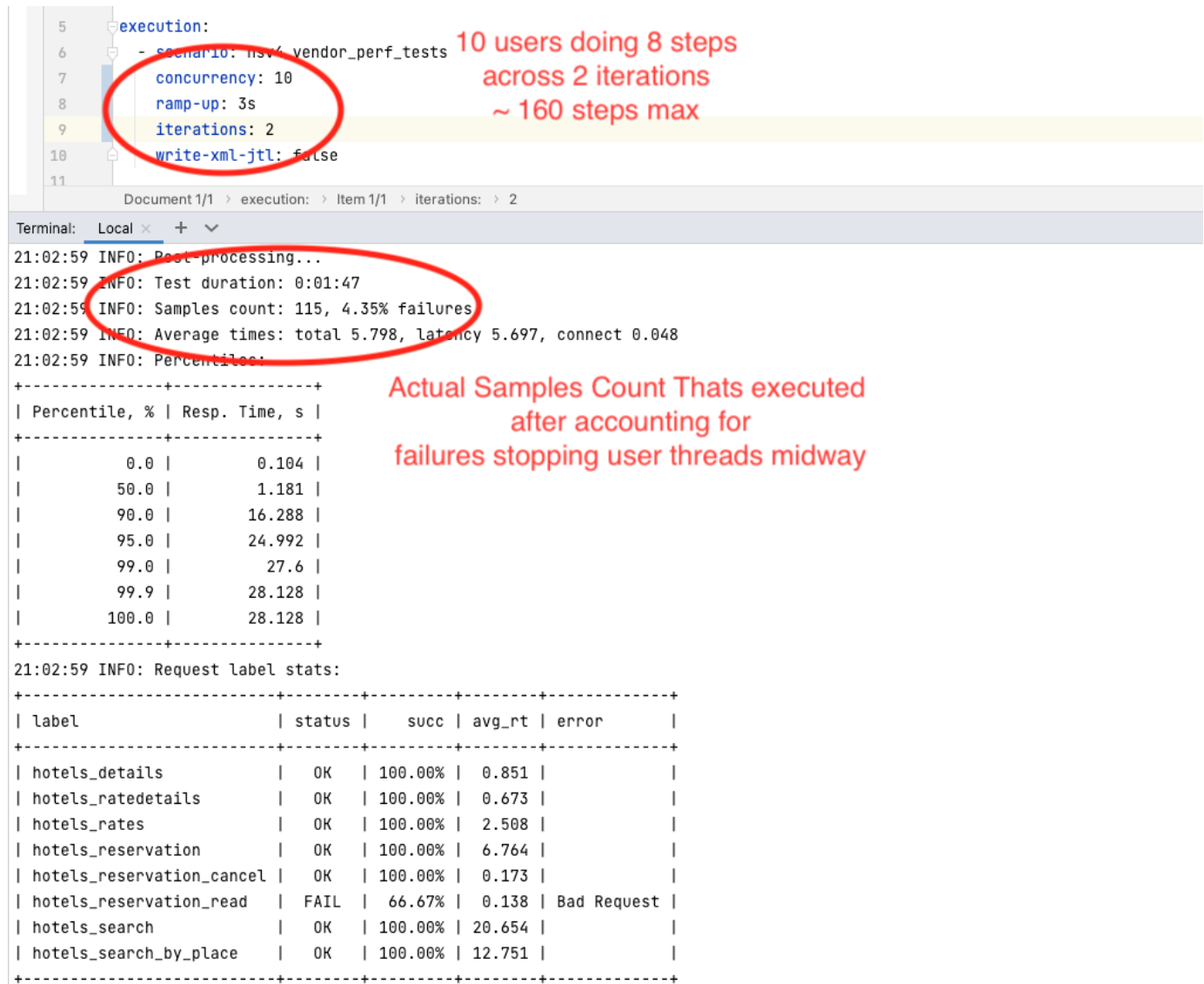
Parameters	Description	Example value
cardType **	PaymentCardType.	VISA.
cardNumber **	Payment card number corresponding to the card type	4242-4242-4242-4242
cvv	Card Verification Value - three or four-digit number on credit card for security	369
cardHolderName	Name of the card holder	John Smith
cardExpiryMonth		11
cardExpiryYear		2029
billingCardAddressLines	Address of the card holder	910 Mainland Street
billingCardCity **	City name	Vancouver
billingCardState	Two-character state code	BC
billingCardCountryCode **	Two-character ISO code (ISO ALPHA-2) for country.	CA
billingCardPostalCode	Postcal code	V5K 0A1
programCode **	programCode	EM.
accountId **	account ID	209875030.

Test execution completion evidence

Upon successful completion of tests pls share the following evidence to the concur team

Test Execution Console Logs:

Capture the console logs of the terminal where the test is executed. Example subsection of such a log will be like follows



The screenshot shows a code editor with a configuration file and a terminal window. In the code editor, the 'execution' section is highlighted with a red circle, containing the following settings: scenario: nsv4_vendor_perf_tests, concurrency: 10, ramp-up: 3s, iterations: 2, and write-xml-jtl: false. A red annotation next to it states: '10 users doing 8 steps across 2 iterations ~ 160 steps max'. The terminal window shows the output of the test execution, with a red circle around the summary statistics. A red annotation next to it states: 'Actual Samples Count That's executed after accounting for failures stopping user threads midway'. The terminal output includes the following tables:

```
21:02:59 INFO: Post-processing...
21:02:59 INFO: Test duration: 0:01:47
21:02:59 INFO: Samples count: 115, 4.35% failures
21:02:59 INFO: Average times: total 5.798, latency 5.697, connect 0.048
21:02:59 INFO: Percentiles:
```

Percentile, %	Resp. Time, s
0.0	0.104
50.0	1.181
90.0	16.288
95.0	24.992
99.0	27.6
99.9	28.128
100.0	28.128

```
21:02:59 INFO: Request label stats:
```

label	status	succ	avg_rt	error
hotels_details	OK	100.00%	0.851	
hotels_ratedetails	OK	100.00%	0.673	
hotels_rates	OK	100.00%	2.508	
hotels_reservation	OK	100.00%	6.764	
hotels_reservation_cancel	OK	100.00%	0.173	
hotels_reservation_read	FAIL	66.67%	0.138	Bad Request
hotels_search	OK	100.00%	20.654	
hotels_search_by_place	OK	100.00%	12.751	

Test Execution Summary Report

There will be a csv file with all the key metrics generated in reports directory. Please share the report to concur team for certification.

Project	hsv4-vendor-perf-tests.csv
scripts	
tests	
vendor-perf-tests	
v4.perf-tests	
data	
hs4-parameters.csv	
hs4-vendor-payment-inputs.csv	
hs4-vendor-shop-inputs.csv	
execution	
images	
reports	
hsv4-vendor-perf-tests.csv	
scripts	
taurus-config.yml	
taurus-config-win.yml	
tests	
hsv4-vendor-perf-test.jmx	
Changelog.txt	
run-vendor-perf-tests.bat	
run-vendor-perf-tests.sh	
README	
v4.perf-tests.zip	

1	timestamp,elapsed,label,responseCode,responseMessage,threadName,dataType,success,failureMessage,bytes,sentB
2	1681439518646,21532,hotels_search,200,OK,Vendor-performance-test-suite 1-4,text,true,,496,1536,10,10,https:
3	1681439520442,22609,hotels_search,200,OK,Vendor-performance-test-suite 1-10,text,true,,165808,1536,10,10,ht
4	1681439518945,24289,hotels_search,200,OK,Vendor-performance-test-suite 1-5,text,true,,168819,1536,10,10,htt
5	1681439519833,23417,hotels_search,200,OK,Vendor-performance-test-suite 1-8,text,true,,168824,1536,10,10,htt
6	1681439518424,25821,hotels_search,200,OK,Vendor-performance-test-suite 1-3,text,true,,165803,1536,10,10,htt
7	1681439518424,27949,hotels_search,200,OK,Vendor-performance-test-suite 1-2,text,true,,168825,1536,10,10,htt
8	1681439519545,27517,hotels_search,200,OK,Vendor-performance-test-suite 1-7,text,true,,168811,1536,10,10,htt
9	1681439519250,28326,hotels_search,200,OK,Vendor-performance-test-suite 1-6,text,true,,168816,1536,10,10,htt
10	1681439518424,29307,hotels_search,200,OK,Vendor-performance-test-suite 1-1,text,true,,168794,1536,10,10,htt
11	1681439520141,27696,hotels_search,200,OK,Vendor-performance-test-suite 1-9,text,true,,168793,1536,10,10,htt
12	1681439540181,11987,hotels_search_by_place,200,OK,Vendor-performance-test-suite 1-4,text,true,,168794,1199,
13	1681439543251,9272,hotels_search_by_place,200,OK,Vendor-performance-test-suite 1-8,text,true,,168824,1199,1
14	1681439543053,9576,hotels_search_by_place,200,OK,Vendor-performance-test-suite 1-10,text,true,,168824,1199,
15	1681439552635,566,hotels_details,200,OK,Vendor-performance-test-suite 1-10,text,true,,11412,829,10,10,https
16	1681439552395,806,hotels_details,200,OK,Vendor-performance-test-suite 1-4,text,true,,13158,829,10,10,https:
17	1681439552533,669,hotels_details,200,OK,Vendor-performance-test-suite 1-8,text,true,,13552,829,10,10,https:
18	1681439543235,10992,hotels_search_by_place,200,OK,Vendor-performance-test-suite 1-5,text,true,,168824,1199,
19	1681439544248,10180,hotels_search_by_place,200,OK,Vendor-performance-test-suite 1-3,text,true,,168824,1199,
20	1681439554241.336.hotels_details.200.OK.Vendor-performance-test-suite 1-5.text.true..7024.829.10.10.https:/