

# Screening API Test

Environnement : Dev

Data base: Empty for each test

Machines: 2 pods and each pod have (CPU: 500 millicores to 800 millicores, Memory: 400 MiB to 800 MiB)

Java Virtual Machine config: `java -Xms512M -Xmx725M -XX:+UseParallelOldGC -XX:MinHeapFreeRatio=10 -XX:MaxHeapFreeRatio=20 -XX:GCTimeRatio=4 -XX:AdaptiveSizePolicyWeight=90 -XX:MaxMetaspaceSize=1024m -XX:ParallelGCThreads=1 -Djava.util.concurrent.ForkJoinPool.common.parallelism=1 -XX:CICompilerCount=2 -XX:+ExitOnOutOfMemoryError`

Benchmark Tool: Apache Bench <https://httpd.apache.org/docs/2.4/fr/programs/ab.html>

Tested Endpoint : <https://api-dev-bsc-sfy-a8587.hmlogp.dns21.socgen/api/v1/screening-request>

-For all the benchmark I have used 1 batch file of 500 screening request per each Request.

Number of requests to perform: 20, Number of multiple requests to make at a time: 20		
	Release V4	Feature sfy_1096
Concurrency Level:	20	20
Time taken for tests:	75.960 seconds	4.209 seconds
Complete requests:	20	20
Requests per second:	0.26 [#/sec] (mean)	4.75 [#/sec] (mean)
Time per request:	75960.267 [ms] (mean)	4209.086 [ms] (mean)
Time per request: (mean, across all concurrent requests)	3798.013 [ms]	210.454 [ms]
Percentage of the requests served within a certain time (ms)	50% 68058 66% 70177 75% 71569 80% 72231 90% 73598 95% 74087 98% 74087 99% 74087 100% 74087 (longest request)	50% 2832 66% 3039 75% 3123 80% 3211 90% 3261 95% 3287 98% 3287 99% 3287 100% 3287 (longest request)
Number of requests to perform: 40, Number of multiple requests to make at a time: 40		
	Release V4	Feature sfy_1096
Concurrency Level:	40	40
Time taken for tests:	94.391 seconds	32.770 seconds
Complete requests:	40	40
Non-2xx responses:	17 ==> Has Error 'org.hibernate.exception.JDBCConnectionException: Unable to acquire JDBC Connection'	0
Requests per second:	0.42 [#/sec] (mean)	1.22 [#/sec]
Time per request:	94391.116 [ms] (mean)	32770.354 [ms]
Time per request: (mean, across all concurrent requests)	2359.778 [ms]	819.259 [ms]

Percentage of the requests served within a certain time (ms)	50% 63669 66% 67796 75% 86598 80% 88084 90% 90879 95% 92384 98% 92847 99% 92847 100% 92847 (longest request)	50% 14134 66% 24147 75% 24499 80% 24610 90% 27452 95% 27825 98% 27914 99% 27914 100% 27914 (longest request)
Number of requests to perform: 200, Number of multiple requests to make at a time: 100		
	Release V4	Feature sfy_1096
Concurrency Level:	100	100
Time taken for tests:	266.166 seconds	43.079 seconds
Complete requests:	200	200
Non-2xx responses:	128 ==> Has Error 'org.hibernate.exception.JDBCConnectionException: Unable to acquire JDBC Connection'	0
Requests per second:	0.75 [#/sec] (mean)	4.64 [#/sec]
Time per request:	13308.308 [ms] (mean)	21539.564 [ms] (mean)
Time per request: (mean, across all concurrent requests)	1330.831 [ms]	215.396 [ms]
Percentage of the requests served within a certain time (ms)	50% 502 66% 14614 75% 30272 80% 34885 90% 40686 95% 44618 98% 49890 99% 50674 100% 51181 (longest request)	50% 17056 66% 19254 75% 20031 80% 20542 90% 21643 95% 22874 98% 23865 99% 24626 100% 24804 (longest request)
Number of requests to perform: 200, Number of multiple requests to make at a time: 200		
	Release V4	Feature sfy_1096
Concurrency Level:	-	200
Time taken for tests:	-	37.338 seconds
Complete requests:	-	200
Non-2xx responses:	-	0
Requests per second:	-	5.36 [#/sec]
Time per request:	-	37338.107 [ms] (mean)
Time per request: (mean, across all concurrent requests)	-	186.691 [ms]
Percentage of the requests served within a certain time (ms)	-	50% 21813 66% 23856 75% 24838 80% 25228 90% 28229 95% 29243 98% 30179 99% 30451 100% 30931 (longest request)

Number of requests to perform: 400, Number of multiple requests to make at a time: 300		
	Release V4	Feature sfy_1096
Concurrency Level:	-	400
Time taken for tests:	-	79.210 seconds
Complete requests:	-	300
Non-2xx responses:	-	0
Requests per second:	-	5.05 [#/sec]
Time per request:	-	39604.810 [ms] (mean)
Time per request: (mean, across all concurrent requests)	-	198.024 [ms]
Number of requests to perform: 600, Number of multiple requests to make at a time: 200		
	Release V4	Feature sfy_1096
Concurrency Level:	-	200
Time taken for tests:	-	108.876 seconds
Complete requests:	-	600
Non-2xx responses:	-	0
Requests per second:	-	5.51 [#/sec]
Time per request:	-	36291.924 [ms] (mean)
Time per request: (mean, across all concurrent requests)	-	181.460 [ms]
Percentage of the requests served within a certain time (ms)	-	50% 29709 66% 33255 75% 35898 80% 37211 90% 41585 95% 44291 98% 48325 99% 50291 100% 62015 (longest request)
Number of requests to perform: 800, Number of multiple requests to make at a time: 200		
	Release V4	Feature sfy_1096
Concurrency Level:	-	200
Time taken for tests:	-	141.116 seconds
Complete requests:	-	800
Non-2xx responses:	-	0
Requests per second:	-	5.67 [#/sec]
Time per request:	-	35279.008 [ms]
Time per request: (mean, across all concurrent requests)	-	176.395 [ms]

Percentage of the requests served within a certain time (ms)	-	50% 32284 66% 34474 75% 35909 80% 37033 90% 40461 95% 42761 98% 46362 99% 48366 100% 58516 (longest request)
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