

D4Science Infrastructure - Task #10953

Check accounting-service

Jan 17, 2018 11:05 AM - Roberto Cirillo

Status:	Closed	Start date:	Jan 17, 2018
Priority:	Normal	Due date:	
Assignee:	Luca Frosini	% Done:	100%
Category:	Application	Estimated time:	0.00 hour
Target version:	UnSprintable		
Infrastructure:	Pre-Production		
Description A set of preproduction nodes have been upgraded in order to send the accounting records to accounting-service instance and not directly to couchbase cluster. For the moment, the accounting instance is the following: <code>accounting-service-d.d4science.org</code> Please could you check if the records are correctly send and managed by accounting service?			
Related issues: Related to D4Science Infrastructure - Upgrade #10933: /gcube/preprod upgrade ... Completed Jan 15, 2018			

History

#1 - Jan 17, 2018 11:06 AM - Roberto Cirillo

- Related to Upgrade #10933: /gcube/preprod upgrade to gCube 4.10.0 added

#2 - Jan 17, 2018 11:12 AM - Luca Frosini

- Status changed from New to In Progress

#3 - Jan 17, 2018 12:18 PM - Luca Frosini

The stress test of the service succeeded.

The first tests was made with 10 parallels processes sending each one 100.000 records to the service (one by one).

The second tests was made with 10 subsequent processes sending each one 10.000 records to the service in bulk operation (please note that this situation is not possible).

the tests were made with debug level of receiving Servlet to TRACE LEVEL to stress also the disk i/o.

The records of stress test could be aggregated.

The records were saved on fallback file because it seems that the document-store-lib-couchbase-latest.jar has not been found.

Maybe is a problems of rights. All the other libraries have

`-rwxr-xr-x`

instead document-store-lib-couchbase-latest.jar has (no executable permission)

`-rw-r--r--`

I'm going to change the permission manually and restarting the container.

Please note that the fallback file is recreated correctly (with no recursion) so it seems also that the bug of exponentially growing fallbacks seems fixed.

#4 - Jan 17, 2018 12:43 PM - Luca Frosini

- File `accounting-data.txt` added

- File `accounting-data-simple.txt` added

I also used ab for stress test. You can test it by your own by using :

```
ab -n 100000 -c 100 -T 'application/json' -p accounting-data-simple.txt -H 'gcube-token: YOUR_DEV_OR_PREPROD_TOKEN_HERE' https://accounting-service-d.d4science.org:443/accounting-service/record
```

My result of benchmark is:

```
$ab -n 100000 -c 100 -T 'application/json' -p accounting-data-simple.txt -H 'gcube-token: YOUR_DEV_OR_PREPROD_TOKEN_HERE' https://accounting-service-d.d4science.org:443/accounting-service/record
This is ApacheBench, Version 2.3 <$Revision: 1796539 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/
```

Benchmarking accounting-service-d.d4science.org (be patient)
Completed 10000 requests
Completed 20000 requests
Completed 30000 requests
Completed 40000 requests
Completed 50000 requests
Completed 60000 requests
Completed 70000 requests
Completed 80000 requests
Completed 90000 requests
Completed 100000 requests
Finished 100000 requests

Server Software: nginx
Server Hostname: accounting-service-d.d4science.org
Server Port: 443
SSL/TLS Protocol: TLSv1.2,ECDHE-ECDSA-AES128-GCM-SHA256,256,128
TLS Server Name: accounting-service-d.d4science.org

Document Path: /accounting-service/record
Document Length: 0 bytes

Concurrency Level: 100
Time taken for tests: 99.082 seconds
Complete requests: 100000
Failed requests: 0
Total transferred: 53600000 bytes
Total body sent: 78200000
HTML transferred: 0 bytes
Requests per second: 1009.27 [#/sec] (mean)
Time per request: 99.082 [ms] (mean)
Time per request: 0.991 [ms] (mean, across all concurrent requests)
Transfer rate: 528.29 [Kbytes/sec] received
770.75 kb/s sent
1299.04 kb/s total

Connection Times (ms)					
	min	mean[+/-sd]	median	max	
Connect:	2	31 34.0	26	1086	
Processing:	1	68 55.3	51	616	
Waiting:	1	68 55.2	51	488	
Total:	4	99 60.7	86	1306	

Percentage of the requests served within a certain time (ms)		
50%	86	
66%	102	
75%	117	
80%	128	
90%	169	
95%	211	
98%	265	
99%	301	
100%	1306	(longest request)

or

```
ab -n 100000 -c 100 -T 'application/json' -p accounting-data.txt -H 'gcube-token: YOUR_DEV_OR_PREPROD_TOKEN_HERE' https://accounting-service-d.d4science.org:443/accounting-service/record
```

My result of benchmark is:

```
$ ab -n 100000 -c 100 -T 'application/json' -p accounting-data.txt -H 'gcube-token: YOUR_DEV_OR_PREPROD_TOKEN_HERE' https://accounting-service-d.d4science.org:443/accounting-service/record
This is ApacheBench, Version 2.3 <$Revision: 1796539 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/
```

Benchmarking accounting-service-d.d4science.org (be patient)

Completed 10000 requests
Completed 20000 requests
Completed 30000 requests
Completed 40000 requests
Completed 50000 requests
Completed 60000 requests
Completed 70000 requests
Completed 80000 requests
Completed 90000 requests
Completed 100000 requests
Finished 100000 requests

Server Software: nginx
Server Hostname: accounting-service-d.d4science.org
Server Port: 443
SSL/TLS Protocol: TLSv1.2,ECDHE-ECDSA-AES128-GCM-SHA256,256,128
TLS Server Name: accounting-service-d.d4science.org

Document Path: /accounting-service/record
Document Length: 0 bytes

Concurrency Level: 100
Time taken for tests: 185.942 seconds
Complete requests: 100000
Failed requests: 0
Total transferred: 53600000 bytes
Total body sent: 418900000
HTML transferred: 0 bytes
Requests per second: 537.80 [#/sec] (mean)
Time per request: 185.942 [ms] (mean)
Time per request: 1.859 [ms] (mean, across all concurrent requests)
Transfer rate: 281.51 [Kbytes/sec] received
2200.05 kb/s sent
2481.56 kb/s total

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	15 46.8	5	3035
Processing:	2	171 156.5	132	1485
Waiting:	2	171 156.3	132	1485
Total:	4	186 163.8	144	3285

Percentage of the requests served within a certain time (ms)

50%	144
66%	216
75%	267
80%	302
90%	403
95%	498
98%	625
99%	720

Please find attached the requested files.

#5 - Jan 17, 2018 12:58 PM - Luca Frosini

- Assignee changed from Luca Frosini to Roberto Cirillo

The records are stored in fallback because document-store-lib-couchbase does not have the required dependencies.

You can use the jar-with-dependencies or add also java-client-2.2.7.jar and rxjava-1.0.17.jar to tomcat/lib.

#6 - Jan 17, 2018 04:29 PM - Roberto Cirillo

- Assignee changed from Roberto Cirillo to Luca Frosini

Done. Could you recheck please?

#7 - Jan 17, 2018 04:52 PM - Luca Frosini

- Status changed from In Progress to Feedback

- % Done changed from 0 to 100

It seems working correctly now persisting the records on couchbase.
I also run the ab stress tests again and they succeeded.

#8 - Mar 02, 2018 04:29 PM - Luca Frosini

- Status changed from Feedback to Closed

Files

accounting-data-simple.txt	541 Bytes	Jan 17, 2018	Luca Frosini
accounting-data.txt	3.85 KB	Jan 17, 2018	Luca Frosini