

D4Science Infrastructure - VM Creation #11030

Task # 8750 (Closed): Create Accounting Service Cluster

Please Create VM to install Accounting Service - 3

Jan 24, 2018 11:30 AM - Roberto Cirillo

Status:	Closed	Start date:	Jan 24, 2018
Priority:	High	Due date:	Jan 28, 2018
Assignee:	Luca Frosini	% Done:	100%
Target version:	D4Science infrastructure upgrade to 4.10.0		
Infrastructure:	Production	Applications list and version:	
RAM:	2	Applications context path:	
CPU:	2	External storage data disk:	
DiskSpace:	10	Smartgears auth connector:	
Smartgears:	Yes	data transfer enabled:	No
Smartgears Version:	latest	PostgreSQL database:	No
Application Instructions:		Number of VMs:	1
Smartgears scopes:	/root /root/allVOs please add to container.xml this tag <authorizeChildrenContext>true</authorizeChildrenContext>		

Description			
It's needed to have another instance of accounting service for production environment. Since this service has been tested in preproduction environment with open-jdk, we should install open-jdk instead of oracle-jdk, if the openjdk version is < "1.8.0_161" (#11020). In preproduction environment, this service works with openjdk version "1.8.0_141".			
Related issues:			
Copied from D4Science Infrastructure - VM Creation #8756: Please Create VM to...		Closed	May 25, 2017 Jun 05, 2017

History

#1 - Jan 24, 2018 11:30 AM - Roberto Cirillo

- Copied from VM Creation #8756: Please Create VM to install Accounting Service - 2 added

#2 - Jan 25, 2018 06:08 PM - Tommaso Piccioli

- Status changed from New to In Progress

- % Done changed from 0 to 50

New VM accounting-service3.d4science.org running, to be provisioned.

#3 - Jan 25, 2018 06:36 PM - Andrea Dell'Amico

@luca.frosini@isti.cnr.it if we are going to install the same version of the service that has just been installed in dev, I need to change the haproxy check and upgrade the other two nodes to the same accounting-service release. Is it OK?

#4 - Jan 25, 2018 08:22 PM - Andrea Dell'Amico

- % Done changed from 50 to 90

accounting-service3.d4science.org has been provisioned. Please check and let me know about the other two servers and the haproxy check.

#5 - Jan 26, 2018 10:36 AM - Roberto Cirillo

- Status changed from In Progress to Feedback
- Assignee changed from _InfraScience Systems Engineer to Luca Frosini

It seems to work properly. I assign this ticket to @luca.frosini@isti.cnr.it for further check

#6 - Jan 26, 2018 10:48 AM - Luca Frosini

I seems working properly.

```
ab -n 10000 -C 10 -T 'application/json' -p ~/workspace/Varie/accounting-data-simple.txt -H 'gcube-token: XXXXX
XXXXXXXXXX' https://accounting-service3.d4science.org:443/accounting-service/record
This is ApacheBench, Version 2.3 <$Revision: 1796539 $>
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```

```
Benchmarking accounting-service3.d4science.org (be patient)
Completed 1000 requests
Completed 2000 requests
Completed 3000 requests
Completed 4000 requests
Completed 5000 requests
Completed 6000 requests
Completed 7000 requests
Completed 8000 requests
Completed 9000 requests
Completed 10000 requests
Finished 10000 requests
```

```
Server Software:      nginx
Server Hostname:      accounting-service3.d4science.org
Server Port:          443
SSL/TLS Protocol:     TLSv1.2,ECDHE-RSA-AES128-GCM-SHA256,2048,128
TLS Server Name:      accounting-service3.d4science.org
```

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

```
Concurrency Level:    1
Time taken for tests:  52.065 seconds
Complete requests:    10000
Failed requests:      0
Total transferred:    1590000 bytes
Total body sent:      7940000
HTML transferred:     0 bytes
Requests per second:  192.07 [#/sec] (mean)
Time per request:     5.206 [ms] (mean)
Time per request:     5.206 [ms] (mean, across all concurrent requests)
Transfer rate:        29.82 [Kbytes/sec] received
                      148.93 kb/s sent
                      178.75 kb/s total
```

Connection Times (ms)				
	min	mean[+/-sd]	median	max
Connect:	3	4 1.2	3	23
Processing:	1	1 1.3	1	83
Waiting:	0	1 1.3	1	83
Total:	4	5 1.8	5	86

Percentage of the requests served within a certain time (ms)	
50%	5
66%	5
75%	5
80%	5
90%	7
95%	8

98%	10
99%	12
100%	86 (longest request)

#7 - Jan 26, 2018 10:48 AM - Luca Frosini

- Status changed from Feedback to Closed

#8 - Jan 26, 2018 12:44 PM - Andrea Dell'Amico

- Status changed from Closed to In Progress

- Assignee changed from Luca Frosini to Andrea Dell'Amico

@luca.frosini@isti.cnr.it I'm going to reconfigure accounting-service[1:2] and change the haproxy configuration, then.

#9 - Jan 26, 2018 02:04 PM - Andrea Dell'Amico

- Status changed from In Progress to Feedback

- % Done changed from 90 to 100

All the hosts have been configured and the haproxy configuration updated.

#10 - Feb 06, 2018 05:04 PM - Roberto Cirillo

- Assignee changed from Andrea Dell'Amico to Luca Frosini

Please, could you check and close the ticket if it works properly?

#11 - Feb 07, 2018 04:24 PM - Luca Frosini

- Status changed from Feedback to Closed

I tested successfully again all service instance and haproxy instace. Here is the results.

```
$ ab -n 10000 -C 10 -T 'application/json' -p ~/workspace/Varie/accounting-data-simple.txt -H 'gcube-token: 18fed2d9-030b-4c77-93af-af2015d945f7-843339462' https://accounting-service1.d4science.org:443/accounting-service/record
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```

```
Benchmarking accounting-service1.d4science.org (be patient)
Completed 1000 requests
Completed 2000 requests
Completed 3000 requests
Completed 4000 requests
Completed 5000 requests
Completed 6000 requests
Completed 7000 requests
Completed 8000 requests
Completed 9000 requests
Completed 10000 requests
Finished 10000 requests
```

Server Software:	nginx
Server Hostname:	accounting-service1.d4science.org
Server Port:	443
SSL/TLS Protocol:	TLSv1.2,ECDHE-ECDSA-AES128-GCM-SHA256,256,128
TLS Server Name:	accounting-service1.d4science.org

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

Concurrency Level:	1
Time taken for tests:	61.038 seconds
Complete requests:	10000
Failed requests:	0
Total transferred:	1590000 bytes
Total body sent:	7940000
HTML transferred:	0 bytes
Requests per second:	163.83 [# /sec] (mean)

```
Time per request:      6.104 [ms] (mean)
Time per request:      6.104 [ms] (mean, across all concurrent requests)
Transfer rate:          25.44 [Kbytes/sec] received
                        127.03 kb/s sent
                        152.47 kb/s total
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	3 3.2	3	133
Processing:	1	3 81.7	1	8123
Waiting:	1	3 81.7	1	8123
Total:	3	6 81.8	5	8126

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

50%	5
66%	5
75%	5
80%	5
90%	5
95%	6
98%	8
99%	12
100%	8126 (longest request)

```
$ ab -n 10000 -C 10 -T 'application/json' -p ~/workspace/Varie/accounting-data-simple.txt -H 'gcube-token: 18f
ed2d9-030b-4c77-93af-af2015d945f7-843339462' https://accounting-service2.d4science.org:443/accounting-service/
record
```

```
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```

Benchmarking accounting-service2.d4science.org (be patient)

```
Completed 1000 requests
Completed 2000 requests
Completed 3000 requests
Completed 4000 requests
Completed 5000 requests
Completed 6000 requests
Completed 7000 requests
Completed 8000 requests
Completed 9000 requests
Completed 10000 requests
Finished 10000 requests
```

```
Server Software:      nginx
Server Hostname:      accounting-service2.d4science.org
Server Port:          443
SSL/TLS Protocol:     TLSv1.2,ECDHE-ECDSA-AES128-GCM-SHA256,256,128
TLS Server Name:      accounting-service2.d4science.org
```

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

```
Concurrency Level:    1
Time taken for tests:  42.303 seconds
Complete requests:    10000
Failed requests:      0
Total transferred:    1590000 bytes
Total body sent:      7940000
HTML transferred:     0 bytes
Requests per second:  236.39 [#/sec] (mean)
Time per request:     4.230 [ms] (mean)
Time per request:     4.230 [ms] (mean, across all concurrent requests)
Transfer rate:        36.70 [Kbytes/sec] received
                        183.29 kb/s sent
                        220.00 kb/s total
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	3 0.5	3	14
Processing:	1	1 5.9	1	489
Waiting:	1	1 5.9	1	489
Total:	3	4 5.9	4	494

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

50%	4
66%	4
75%	4
80%	4
90%	5
95%	5
98%	5
99%	6
100%	494 (longest request)

```
$ ab -n 10000 -C 10 -T 'application/json' -p ~/workspace/Varie/accounting-data-simple.txt -H 'gcube-token: 18fed2d9-030b-4c77-93af-af2015d945f7-843339462' https://accounting-service3.d4science.org:443/accounting-service/record
```

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Benchmarking accounting-service3.d4science.org (be patient)

Completed 1000 requests
Completed 2000 requests
Completed 3000 requests
Completed 4000 requests
Completed 5000 requests
Completed 6000 requests
Completed 7000 requests
Completed 8000 requests
Completed 9000 requests
Completed 10000 requests
Finished 10000 requests

Server Software:	nginx
Server Hostname:	accounting-service3.d4science.org
Server Port:	443
SSL/TLS Protocol:	TLSv1.2,ECDHE-RSA-AES128-GCM-SHA256,2048,128
TLS Server Name:	accounting-service3.d4science.org

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

Concurrency Level:	1
Time taken for tests:	52.890 seconds
Complete requests:	10000
Failed requests:	0
Total transferred:	1590000 bytes
Total body sent:	7940000
HTML transferred:	0 bytes
Requests per second:	189.07 [#/sec] (mean)
Time per request:	5.289 [ms] (mean)
Time per request:	5.289 [ms] (mean, across all concurrent requests)
Transfer rate:	29.36 [Kbytes/sec] received
	146.60 kb/s sent
	175.96 kb/s total

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	3	4 0.9	4	66
Processing:	1	1 3.8	1	332
Waiting:	1	1 3.8	1	332
Total:	4	5 3.9	5	336

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

50%	5
66%	5
75%	5
80%	6
90%	6
95%	7
98%	7
99%	7
100%	336 (longest request)

```
ab -n 10000 -C 10 -T 'application/json' -p ~/workspace/Varie/accounting-data-simple.txt -H 'gcube-token: 18fed2d9-030b-4c77-93af-af2015d945f7-843339462' https://accounting-service.d4science.org:443/accounting-service/rec
```

ord
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Benchmarking accounting-service.d4science.org (be patient)
Completed 1000 requests
Completed 2000 requests
Completed 3000 requests
Completed 4000 requests
Completed 5000 requests
Completed 6000 requests
Completed 7000 requests
Completed 8000 requests
Completed 9000 requests
Completed 10000 requests
Finished 10000 requests

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

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

Concurrency Level: 1
Time taken for tests: 66.685 seconds
Complete requests: 10000
Failed requests: 0
Total transferred: 1590000 bytes
Total body sent: 7930000
HTML transferred: 0 bytes
Requests per second: 149.96 [#/sec] (mean)
Time per request: 6.668 [ms] (mean)
Time per request: 6.668 [ms] (mean, across all concurrent requests)
Transfer rate: 23.28 [Kbytes/sec] received
116.13 kb/s sent
139.41 kb/s total

Connection Times (ms)					
	min	mean	mean[+/-sd]	median	max
Connect:	3	3	0.6	4	23
Processing:	2	3	5.7	3	328
Waiting:	2	3	5.3	3	328
Total:	5	7	5.8	6	332

WARNING: The median and mean for the initial connection time are not within a normal deviation
These results are probably not that reliable.

Percentage of the requests served within a certain time (ms)	
50%	6
66%	6
75%	7
80%	7
90%	7
95%	7
98%	10
99%	13
100%	332 (longest request)

I'm going to close the ticket