

D4Science Infrastructure - Task #11944

Add 1 GB of RAM to accounting service instances

Jun 13, 2018 09:59 AM - Roberto Cirillo

Status:	Closed	Start date:	Jun 13, 2018
Priority:	Normal	Due date:	
Assignee:	_InfraScience Systems Engineer	% Done:	100%
Category:	System Application	Estimated time:	0.00 hour
Target version:	UnSprintable		
Infrastructure:	Production		
<b>Description</b> The accounting instances have the following (default) heap limits:  -Xms2048m -Xmx2048m  but the VM have only 2 GB of RAM. We need decrease the memory limit in this way:  tomcat_m_min_heap_size: 512m tomcat_m_heap_size: 1536m			

History

#1 - Jun 13, 2018 10:33 AM - Roberto Cirillo

- Status changed from New to In Progress

I don't know if it's better to decrease the heap size or to increase the RAM. At this moment both the instances are swapping:

accounting-service1.d4science.org  
accounting-service2.d4science.org

so, what do you suggest, @andrea.dellamico@isti.cnr.it , @tommaso.piccioli@isti.cnr.it ?

#2 - Jun 13, 2018 10:33 AM - Roberto Cirillo

- Status changed from In Progress to Feedback

- Assignee changed from Roberto Cirillo to \_InfraScience Systems Engineer

#3 - Jun 13, 2018 11:20 AM - Andrea Dell'Amico

- It would be better adding 1 GB of RAM each, I've always seen heap memory problems with smartgears nodes with less than 2GB of RAM.
- I also always saw problems when the min and max heap sizes differ. I don't see a reason to use different values, the services live on dedicated VMs and the applications always try to use all the available memory anyway.
- There's also accounting-service3.d4science.org. It's registered on the load balancer, but it's down. If it's not used we should destroy and remove it from the configurations.

#4 - Jun 13, 2018 11:32 AM - Roberto Cirillo

- Subject changed from Decrease heap size on accounting service instances to Add 1 GB of RAM to accounting service instances

OK I agree for adding 1 GB of RAM for each instance.  
I don't know why accounting-service3 is down, maybe @luca.frosini@isti.cnr.it knows the reason.  
FYI at this moment there is sdi.d4science.org that is running with less than 2 GB of RAM without problems for the moment.

#5 - Jun 13, 2018 11:40 AM - Tommaso Piccioli

sdi.d4science.org tomcat was restarted this morning, before the restart there was a memory warning on nagios.

<http://nagios.d4science.org/cgi-bin/nagios3/trends.cgi?t1=1528840800&t2=1528883041&host=sdi.d4science.org&service=Memory+status&assumeinit=states=yes&assumestateretention=yes&assumestatesduringnotrunning=yes&includesoftstates=no&initialassumedhoststate=0&initialassumedservicestate=0&backtrack=4&timeperiod=last31days&zoom=4>

#6 - Jun 13, 2018 05:09 PM - Andrea Dell'Amico

accounting-service3.d4science.org only had a non working tomcat, now it's on line.  
@luca.frosini@isti.cnr.it we add 1 GB of RAM on each node, OK?

**#7 - Jun 13, 2018 05:24 PM - Luca Frosini**

yes, please

**#8 - Jun 13, 2018 06:23 PM - Andrea Dell'Amico**

- *Status changed from Feedback to In Progress*

- *% Done changed from 0 to 10*

I'm doing it, one at a time.

**#9 - Jun 13, 2018 06:55 PM - Andrea Dell'Amico**

- *Status changed from In Progress to Feedback*

- *% Done changed from 10 to 100*

Done. Now the three servers run with 3GB of RAM each.

**#10 - Jul 03, 2018 03:09 PM - Andrea Dell'Amico**

- *Status changed from Feedback to Closed*