

D4Science Infrastructure - Incident #4805

SmartGears on dataminer4 fails to save status

Jul 26, 2016 07:02 PM - Gianpaolo Coro

Status:	Closed	Start date:	Jul 26, 2016
Priority:	Normal	Due date:	
Assignee:	Lucio Lelii	% Done:	100%
Category:	High-Throughput-Computing	Estimated time:	0.00 hour
Target version:	D4Science Infrastructure Upgrade to gCube 4.0.0		
Infrastructure:	Production		

Description

Each time the SmartGears service on dataminer4-p-d4s.d4science.org is shutdown, the status gets corrupted. This machine is hosted by hardware that is bit slower than the one of the other dataminer machines.

I guess this is a general SG issue that this machine can help to investigate.

Here is the Exception:

```
java.lang.RuntimeException: cannot load profile for DataMiner @ /home/gcube/SmartGears/state/DataMiner/endpoint.xml
    at org.gcube.smartgears.handlers.application.lifecycle.ProfileManager.load(ProfileManager.java:258) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.gcube.smartgears.handlers.application.lifecycle.ProfileManager.loadOrCreateProfile(ProfileManager.java:214) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.gcube.smartgears.handlers.application.lifecycle.ProfileManager.onStart(ProfileManager.java:66) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.gcube.smartgears.handlers.application.ApplicationLifecycleHandler.onEvent(ApplicationLifecycleHandler.java:42) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.gcube.smartgears.handlers.application.ApplicationLifecycleHandler.onEvent(ApplicationLifecycleHandler.java:18) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.gcube.smartgears.handlers.Pipeline.forward(Pipeline.java:69) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.gcube.smartgears.managers.ApplicationManager.start(ApplicationManager.java:205) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.gcube.smartgears.managers.ApplicationManager.start(ApplicationManager.java:88) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.gcube.smartgears.Bootstrap.onStartup(Bootstrap.java:63) [common-smartgears-1.2.7-4.0.0-128702.jar:na]
    at org.apache.catalina.core.StandardContext.startInternal(StandardContext.java:5493) [tomcat-catalina-7.0.52.jar:7.0.52]
    at org.apache.catalina.util.LifecycleBase.start(LifecycleBase.java:150) [tomcat-catalina-7.0.52.jar:7.0.52]
    at org.apache.catalina.core.ContainerBase.addChildInternal(ContainerBase.java:901) [tomcat-catalina-7.0.52.jar:7.0.52]
    at org.apache.catalina.core.ContainerBase.addChild(ContainerBase.java:877) [tomcat-catalina-7.0.52.jar:7.0.52]
    at org.apache.catalina.core.StandardHost.addChild(StandardHost.java:632) [tomcat-catalina-7.0.52.jar:7.0.52]
    at org.apache.catalina.startup.HostConfig.deployDirectory(HostConfig.java:1229) [tomcat-catalina-7.0.52.jar:7.0.52]
    at org.apache.catalina.startup.HostConfig$DeployDirectory.run(HostConfig.java:1875) [tomcat-catalina-7.0.52.jar:7.0.52]
    at java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:471) [na:1.7.0_80]
    at java.util.concurrent.FutureTask.run(FutureTask.java:262) [na:1.7.0_80]
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1145) [na:1.7.0_80]
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:615) [na:1.7.0_80]
    at java.lang.Thread.run(Thread.java:745) [na:1.7.0_80]
Caused by: java.lang.RuntimeException: deserialisation error
    at org.gcube.common.resources.gcore.Resources.unmarshal(Resources.java:212) ~[common-gcore-
```

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-resources-1.3.1-4.0.0-125225.jar:na]
    at org.gcube.common.resources.gcore.Resources.unmarshal(Resources.java:196) ~[common-gcore
-resources-1.3.1-4.0.0-125225.jar:na]
    at org.gcube.smartgears.handlers.application.lifecycle.ProfileManager.load(ProfileManager.
java:248) ~[common-smartgears-1.2.7-4.0.0-128702.jar:na]
    ... 20 common frames omitted
Caused by: javax.xml.bind.UnmarshalException: null
    at javax.xml.bind.helpers.AbstractUnmarshallerImpl.createUnmarshalException(AbstractUnmars
hallerImpl.java:335) ~[na:1.7.0_80]
    at com.sun.xml.bind.v2.runtime.unmarshaller.UnmarshallerImpl.createUnmarshalException(Unma
rshallerImpl.java:514) ~[na:na]
    at com.sun.xml.bind.v2.runtime.unmarshaller.UnmarshallerImpl.unmarshal0(UnmarshallerImpl.j
ava:215) ~[na:na]
    at com.sun.xml.bind.v2.runtime.unmarshaller.UnmarshallerImpl.unmarshal(UnmarshallerImpl.ja
va:184) ~[na:na]
    at javax.xml.bind.helpers.AbstractUnmarshallerImpl.unmarshal(AbstractUnmarshallerImpl.java
:157) ~[na:1.7.0_80]
    at javax.xml.bind.helpers.AbstractUnmarshallerImpl.unmarshal(AbstractUnmarshallerImpl.java
:125) ~[na:1.7.0_80]
    at org.gcube.common.resources.gcore.Resources.unmarshal(Resources.java:209) ~[common-gcore
-resources-1.3.1-4.0.0-125225.jar:na]
    ... 22 common frames omitted
Caused by: org.xml.sax.SAXParseException: XML document structures must start and end within the sa
me entity.
    at org.apache.xerces.util.ErrorHandlerWrapper.createSAXParseException(Unknown Source) ~[xe
rcesImpl-2.7.1.jar:na]
    at org.apache.xerces.util.ErrorHandlerWrapper.fatalError(Unknown Source) ~[xercesImpl-2.7.
1.jar:na]
    at org.apache.xerces.impl.XMLErrorReporter.reportError(Unknown Source) ~[xercesImpl-2.7.1.
jar:na]
    at org.apache.xerces.impl.XMLErrorReporter.reportError(Unknown Source) ~[xercesImpl-2.7.1.
jar:na]
    at org.apache.xerces.impl.XMLScanner.reportFatalError(Unknown Source) ~[xercesImpl-2.7.1.j
ar:na]
    at org.apache.xerces.impl.XMLDocumentFragmentScannerImpl.endEntity(Unknown Source) ~[xerce
sImpl-2.7.1.jar:na]
    at org.apache.xerces.impl.XMLDocumentScannerImpl.endEntity(Unknown Source) ~[xercesImpl-2.
7.1.jar:na]
    at org.apache.xerces.impl.XMLEntityManager.endEntity(Unknown Source) ~[xercesImpl-2.7.1.ja
r:na]
    at org.apache.xerces.impl.XMLEntityScanner.load(Unknown Source) ~[xercesImpl-2.7.1.jar:na]
    at org.apache.xerces.impl.XMLEntityScanner.scanContent(Unknown Source) ~[xercesImpl-2.7.1.
jar:na]
    at org.apache.xerces.impl.XMLDocumentFragmentScannerImpl.scanContent(Unknown Source) ~[xer
cesImpl-2.7.1.jar:na]
    at org.apache.xerces.impl.XMLDocumentFragmentScannerImpl$FragmentContentDispatcher.dispatc
h(Unknown Source) ~[xercesImpl-2.7.1.jar:na]
    at org.apache.xerces.impl.XMLDocumentFragmentScannerImpl.scanDocument(Unknown Source) ~[xe
rcesImpl-2.7.1.jar:na]
    at org.apache.xerces.parsers.XML11Configuration.parse(Unknown Source) ~[xercesImpl-2.7.1.j
ar:na]
    at org.apache.xerces.parsers.XML11Configuration.parse(Unknown Source) ~[xercesImpl-2.7.1.j
ar:na]
    at org.apache.xerces.parsers.XMLParser.parse(Unknown Source) ~[xercesImpl-2.7.1.jar:na]
    at org.apache.xerces.parsers.AbstractSAXParser.parse(Unknown Source) ~[xercesImpl-2.7.1.ja
r:na]
    at org.apache.xerces.jaxp.SAXParserImpl$JAXPSAXParser.parse(Unknown Source) ~[xercesImpl-2
.7.1.jar:na]
    at com.sun.xml.bind.v2.runtime.unmarshaller.UnmarshallerImpl.unmarshal0(UnmarshallerImpl.j
ava:211) ~[na:na]
    ... 26 common frames omitted

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History

#2 - Jul 26, 2016 07:15 PM - Tommaso Piccioli

The slowest machine is dataminer5-p-d4science, slower than dataminer4-p-d4s, cpu and disk.
 Anyway, the speed at a certain time depends on load punctual load on the full xen server.

#3 - Jul 26, 2016 07:20 PM - Andrea Dell'Amico

I don't think that the VM performances have a big impact on the corrupted state problem. Yesterday a dozen smartexecutor corrupted the state after the upgrade, and they were running on different hypervisors.

#4 - Jul 26, 2016 07:54 PM - Pasquale Pagano

is this incident solved?

#5 - Jul 26, 2016 09:57 PM - Gianpaolo Coro

Andrea and Tommaso have added useful information, but the solution should be provided by Lucio. This is a long-known issue indeed.

#7 - Jul 26, 2016 10:14 PM - Andrea Dell'Amico

There's an open ticket for the bug, #2176

#8 - Jul 26, 2016 10:47 PM - Gianpaolo Coro

Sorry, let me clarify that I opened this ticket because the issue was frequent but random on the development machines and this made it difficult to catch it. Instead, on dataminer4 it seems to be always happening.

#9 - Jul 28, 2016 03:46 PM - Pasquale Pagano

Any news?

#10 - Jul 29, 2016 03:18 PM - Lucio Lelii

- Status changed from New to Closed

- % Done changed from 0 to 100

this issue will be solved with the release 4.1.