

D4Science Infrastructure - Task #8844

sharelatex: problem to contact whn-manager service

Jun 05, 2017 09:35 AM - Roberto Cirillo

Status:	Closed	Start date:	Jun 05, 2017
Priority:	Low	Due date:	
Assignee:	Andrea Dell'Amico	% Done:	100%
Category:	Other	Estimated time:	0.00 hour
Target version:	UnSprintable		
Infrastructure:	Production		
Description I've tried to add the resource to FAO_TunaAtlas scope but unfortunately I've a connection refused: <pre>2017-05-31 17:15:38,052 TRACE resources.ScopedRunningInstance [ServiceThread-60,trace:82] ScopedRunningInstance: Resource [id=0089fe6a-0008-458e-a5a9-0ba899271234, type=RunningInstance, timestamp=null, scope=/d4science.research-infrastructures.eu/gCubeApps/FAO_TunaAtlas, status=ADDREQUESTED, hostedOn=sharelatex.d4science.org:80]: status set to LOST 2017-05-31 17:15:38,053 TRACE resources.ScopedRunningInstance [ServiceThread-60,trace:82] ScopedRunningInstance: Resource [id=0089fe6a-0008-458e-a5a9-0ba899271234, type=RunningInstance, timestamp=null, scope=/d4science.research-infrastructures.eu/gCubeApps/FAO_TunaAtlas, status=LOST, hostedOn=sharelatex.d4science.org:80]: status set to LOST 2017-05-31 17:15:38,053 ERROR resources.ScopedRunningInstance [ServiceThread-60,error:72] ScopedRunningInstance: Failed to add RunningInstance to scope /d4science.research-infrastructures.eu/gCubeApps/FAO_TunaAtlas org.gcube.common.clients.exceptions.ServiceException: com.sun.xml.internal.ws.client.ClientTransportException: HTTP transport error: java.net.ConnectException: Connection refused at org.gcube.common.clients.exceptions.FaultDSL\$AsClause.asServiceException(FaultDSL.java:38) at org.gcube.common.vremanagement.whnmanager.client.proxies.DefaultWHNManagerProxy.addToContext(DefaultWHNManagerProxy.java:57) at org.gcube.vremanagement.resourcemanager.impl.resources.ScopedRunningInstance.addToScope(ScopedRunningInstance.java:134) at org.gcube.vremanagement.resourcemanager.impl.resources.ScopedResource.doAction(ScopedResource.java:129) at org.gcube.vremanagement.resourcemanager.impl.state.observers.Executor.addResourceToScope(Executor.java:121)</pre> The adding has been tried from my machine and from all the portals with the same results. This problem seems to be related only to this host. Other nodes with the same distro version (and same whn-manager version) have been correctly reached.			

History

#1 - Jun 08, 2017 10:39 AM - Roberto Cirillo

- Priority changed from Normal to Low

#2 - Oct 18, 2017 12:54 PM - Andrea Dell'Amico

- Status changed from New to In Progress

I just discovered that someone (I would bet a huge amount of bitcoin on @lucio.lelii@isti.cnr.it) manually added some smartgears and catalina env variables to the root's .bashrc. I removed them and restarted the container. Can you check if anything changed?

#3 - Oct 30, 2017 12:49 PM - Roberto Cirillo

The same error again on D4Research scope. On ResourceManager service deployed on resourcemanager-d4research I have the following error when I try to add a scope to sharelatex:

```
2017-10-30 12:47:12,398 DEBUG impl.DefaultScopeProvider [ServiceThread-60,set:38] setting scope /d4science.research-infrastructures.eu in thread 93
2017-10-30 12:47:12,403 INFO delegates.DirectDelegate [ServiceThread-60,make:42] calling whn-manager/gcube/vremanagem
2017-10-30 12:47:12,404 DEBUG jaxws.StubFactory [ServiceThread-60,at:38] contcting endpoint http://sharelatex.d4science.org:80/whn-manager/gcube/vremanagem
2017-10-30 12:47:12,417 DEBUG proxies.MethodRetriever [ServiceThread-60,getProxy:18] for interface org.gcube.resourcemanagement.whnmanager.api.WhnManager the proxy class is com.sun.proxy.$Proxy80
2017-10-30 12:47:12,417 TRACE provider.CalledMethodProvider [ServiceThread-60,set:33] setting calledMethod as addToContext in thread 93
2017-10-30 12:47:12,418 TRACE handlers.JaxWSHandler [ServiceThread-60,handleMessage:43] handling message
2017-10-30 12:47:12,418 TRACE calls.Interceptors [ServiceThread-60,executeRequestChain:37] executing request chain
2017-10-30 12:47:12,418 TRACE interceptors.ScopeInterceptor [ServiceThread-60,handleRequest:25] scope set in the header is /d4science.research-infrastructures.eu
2017-10-30 12:47:12,419 WARN interceptors.AuthorizationInterceptor [ServiceThread-60,handleRequest:22] security token is not set
2017-10-30 12:47:12,419 TRACE provider.CalledMethodProvider [ServiceThread-60,get:26] getting calledMethod as addToContext in thread 93
2017-10-30 12:47:12,419 TRACE interceptors.CalledMethodInterceptor [ServiceThread-60,handleRequest:22] called method set in the header is addToContext
2017-10-30 12:47:12,420 ERROR proxies.MethodRetriever [ServiceThread-60,invoke:30] error invoking method addToContext in service com.sun.proxy.$Proxy79 using proxy
2017-10-30 12:47:12,420 ERROR resources.ScopedGHN [ServiceThread-60,error:72] ScopedGHN: Resource [id=d915d613-29ce-4301-a41c-12a824484ae4, type=GHN, timestamp=null, scope=/d4science.research-infrastructures.eu/D4Research], status=ADDREQUESTED, hostedOn=sharelatex.d4science.org:80]: Unable to manage the resource Failed to add WHN to scope /d4science.research-infrastructures.eu/D4Research
org.gcube.common.clients.exceptions.ServiceException: com.sun.xml.internal.ws.client.ClientTransportException: HTTP transport error: java.net.ConnectException: Connection refused (Connection refused)
    at org.gcube.common.clients.exceptions.FaultDSL$AsClause.asServiceException(FaultDSL.java:38)
    at org.gcube.common.vremanagem. whnmanager.client.proxies.DefaultWHNManagerProxy.addToContext(DefaultWHNManagerProxy.java:57)
    at org.gcube.vremanagem.resourcemanager.impl.resources.ScopedGHN.addToScope(ScopedGHN.java:59)
    at org.gcube.vremanagem.resourcemanager.impl.resources.ScopedResource.doAction(ScopedResource.java:129)
    at org.gcube.vremanagem.resourcemanager.impl.state.observers.Executor.addResourceToScope(Executor.java:121)
    at org.gcube.vremanagem.resourcemanager.impl.state.observers.Executor.scopeChanged(Executor.java:81)
    at org.gcube.vremanagem.resourcemanager.impl.state.observers.ScopeObserver.update(ScopeObserver.java:31)
    at java.util.Observable.notifyObservers(Observable.java:159)
    at org.gcube.vremanagem.resourcemanager.impl.state.ScopeState.notifyObservers(ScopeState.java:233)
    at java.util.Observable.notifyObservers(Observable.java:115)
    at org.gcube.vremanagem.resourcemanager.impl.state.ScopeState.notifyObservers(ScopeState.java:239)
    at org.gcube.vremanagem.resourcemanager.impl.state.observers.Publisher.scopeChanged(Publisher.java:30)
    at org.gcube.vremanagem.resourcemanager.impl.state.observers.ScopeObserver.update(ScopeObserver.java:31)
    at java.util.Observable.notifyObservers(Observable.java:159)
    at org.gcube.vremanagem.resourcemanager.impl.state.ScopeState.notifyObservers(ScopeState.java:233)
    at java.util.Observable.notifyObservers(Observable.java:115)
    at org.gcube.vremanagem.resourcemanager.impl.state.ScopeState.notifyObservers(ScopeState.java:239)
    at org.gcube.vremanagem.resourcemanager.impl.state.ScopeState.addResources(ScopeState.java:105)
    at org.gcube.vremanagem.resourcemanager.impl.operators.ScopedResourceManagerOperator.exec(ScopedResourceManagerOperator.java:54)
    at org.gcube.vremanagem.resourcemanager.impl.operators.Operator.run(Operator.java:32)
    at org.gcube.vremanagem.resourcemanager.impl.operators.AddResourcesOperator.exec(AddResourcesOperator.java:47)
    at org.gcube.vremanagem.resourcemanager.impl.operators.Operator.run(Operator.java:32)
    at org.gcube.vremanagem.resourcemanager.porttypes.ResourceBinder.addResources(ResourceBinder.java:47)
    at sun.reflect.GeneratedMethodAccessor82.invoke(Unknown Source)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.axis.providers.java.RPCProvider.invokeMethod(RPCProvider.java:384)
    at org.globus.axis.providers.RPCProvider.invokeMethodSub(RPCProvider.java:107)
```

```

    at org.globus.axis.providers.RPCProvider.invokeMethod(RPCProvider.java:90)
    at org.apache.axis.providers.java.RPCProvider.processMessage(RPCProvider.java:281)
    at org.apache.axis.providers.java.JavaProvider.invoke(JavaProvider.java:319)
    at org.apache.axis.strategies.InvocationStrategy.visit(InvocationStrategy.java:32)
    at org.apache.axis.SimpleChain.doVisiting(SimpleChain.java:118)
    at org.apache.axis.SimpleChain.invoke(SimpleChain.java:83)
    at org.apache.axis.handlers.soap.SOAPService.invoke(SOAPService.java:450)
    at org.apache.axis.server.AxisServer.invoke(AxisServer.java:285)
    at org.globus.wsrfl.container.ServiceThread.doPost(ServiceThread.java:664)
    at org.globus.wsrfl.container.ServiceThread.process(ServiceThread.java:382)
    at org.globus.wsrfl.container.ServiceThread.run(ServiceThread.java:291)
Caused by: com.sun.xml.internal.ws.client.ClientTransportException: HTTP transport error: java.net.ConnectExce
ption: Connection refused (Connection refused)
    at com.sun.xml.internal.ws.transport.http.client.HttpClientTransport.getOutput(HttpClientTransport.jav
a:117)
    at com.sun.xml.internal.ws.transport.http.client.HttpTransportPipe.process(HttpTransportPipe.java:194)
    at com.sun.xml.internal.ws.transport.http.client.HttpTransportPipe.processRequest(HttpTransportPipe.ja
va:122)
    at com.sun.xml.internal.ws.transport.DeferredTransportPipe.processRequest(DeferredTransportPipe.java:9
5)
    at com.sun.xml.internal.ws.api.pipe.Fiber.__doRun(Fiber.java:626)
    at com.sun.xml.internal.ws.api.pipe.Fiber._doRun(Fiber.java:585)
    at com.sun.xml.internal.ws.api.pipe.Fiber.doRun(Fiber.java:570)
    at com.sun.xml.internal.ws.api.pipe.Fiber.runSync(Fiber.java:467)
    at com.sun.xml.internal.ws.client.Stub.process(Stub.java:308)
    at com.sun.xml.internal.ws.client.sei.SEIStub.doProcess(SEIStub.java:163)
    at com.sun.xml.internal.ws.client.sei.SyncMethodHandler.invoke(SyncMethodHandler.java:98)
    at com.sun.xml.internal.ws.client.sei.SyncMethodHandler.invoke(SyncMethodHandler.java:78)
    at com.sun.xml.internal.ws.client.sei.SEIStub.invoke(SEIStub.java:135)
    at com.sun.proxy.$Proxy79.addToContext(Unknown Source)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.gcube.common.calls.jaxws.proxies.MethodRetriever.invoke(MethodRetriever.java:25)
    at com.sun.proxy.$Proxy80.addToContext(Unknown Source)
    at org.gcube.common.vremanagemnt.whnmanager.client.proxies.DefaultWHNManagerProxy$2.call(DefaultWHNMa
nagerProxy.java:48)
    at org.gcube.common.vremanagemnt.whnmanager.client.proxies.DefaultWHNManagerProxy$2.call(DefaultWHNMa
nagerProxy.java:44)
    at org.gcube.common.clients.delegates.DirectDelegate.make(DirectDelegate.java:53)
    at org.gcube.common.vremanagemnt.whnmanager.client.proxies.DefaultWHNManagerProxy.addToContext(Default
WHNManagerProxy.java:52)
    ... 37 more
Caused by: java.net.ConnectException: Connection refused (Connection refused)
    at java.net.PlainSocketImpl.socketConnect(Native Method)
    at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)
    at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)
    at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)
    at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)
    at java.net.Socket.connect(Socket.java:580)
    at java.net.Socket.connect(Socket.java:529)
    at sun.net.NetworkClient.doConnect(NetworkClient.java:180)
    at sun.net.www.http.HttpClient.openServer(HttpClient.java:449)
    at sun.net.www.http.HttpClient.openServer(HttpClient.java:544)
    at sun.net.www.http.HttpClient.<init>(HttpClient.java:228)
    at sun.net.www.http.HttpClient.New(HttpClient.java:325)
    at sun.net.www.http.HttpClient.New(HttpClient.java:343)
    at sun.net.www.protocol.http.HttpURLConnection.getNewHttpClient(HttpURLConnection.java:1044)
    at sun.net.www.protocol.http.HttpURLConnection.plainConnect(HttpURLConnection.java:1023)
    at sun.net.www.protocol.http.HttpURLConnection.connect(HttpURLConnection.java:898)
    at sun.net.www.protocol.http.HttpURLConnection.getOutputStream(HttpURLConnection.java:1139)
    at com.sun.xml.internal.ws.transport.http.client.HttpClientTransport.getOutput(HttpClientTransport.jav
a:105)
    ... 60 more

```

#4 - Oct 30, 2017 12:58 PM - Andrea Dell'Amico

Still, I can see successful connections from IP addresses other than the nagios monitoring:

```

146.48.123.148 - - [30/Oct/2017:12:47:12 +0100] "GET /whn-manager/gcube/vremanagemnt/ws/whnmanager?wsdl HTTP/
1.1" 200 2752 "-" "Java/1.7.0_131"
146.48.85.73 - - [30/Oct/2017:12:54:34 +0100] "GET /whn-manager/gcube/vremanagemnt/ws/whnmanager HTTP/1.1" 40
1 2395 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/59.0.3071.115 Safari
/537.36"

```

```
146.48.85.73 - - [30/Oct/2017:12:54:44 +0100] "GET /favicon.ico HTTP/1.1" 301 178 "http://sharelatex.d4science.org/whn-manager/gcube/vremanagement/ws/whnmanager" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/59.0.3071.115 Safari/537.36"
```

(the last one is a redirect to the https URL, but it's the browser behaviour. There's no http -> https redirection for the whn-manager requests)

#5 - Oct 30, 2017 03:06 PM - Roberto Cirillo

The wsdl resource is correctly discovered by resourcemanager as you can see from logs:

```
2017-10-30 12:47:12,404 DEBUG jaxws.StubFactory [ServiceThread-60,at:38] contacting endpoint http://sharelatex.d4science.org:80/whn-manager/gcube/vremanagement/ws/whnmanager?wsdl
2017-10-30 12:47:12,417 DEBUG proxies.MethodRetriever [ServiceThread-60,getProxy:18] for interface org.gcube.resourcemangement.whnmanager.api.WhnManager the proxy class is com.sun.proxy.$Proxy80
2017-10-30 12:47:12,417 TRACE provider.CalledMethodProvider [ServiceThread-60,set:33] setting calledMethod as addToContext in thread 93
2017-10-30 12:47:12,418 TRACE handlers.JaxWSHandler [ServiceThread-60,handleMessage:43] handling message
2017-10-30 12:47:12,418 TRACE calls.Interceptors [ServiceThread-60,executeRequestChain:37] executing request chain
2017-10-30 12:47:12,418 TRACE interceptors.ScopeInterceptor [ServiceThread-60,handleRequest:25] scope set in the header is /d4science.research-infrastructures.eu
2017-10-30 12:47:12,419 WARN interceptors.AuthorizationInterceptor [ServiceThread-60,handleRequest:22] security token is not set
2017-10-30 12:47:12,419 TRACE provider.CalledMethodProvider [ServiceThread-60,get:26] getting calledMethod as addToContext in thread 93
2017-10-30 12:47:12,419 TRACE interceptors.CalledMethodInterceptor [ServiceThread-60,handleRequest:22] called method set in the header is addToContext
2017-10-30 12:47:12,420 ERROR proxies.MethodRetriever [ServiceThread-60,invoke:30] error invoking method addToContext in service com.sun.proxy.$Proxy79 using proxy
```

I see the error when is invoking the addToContext method.

#6 - Oct 30, 2017 03:11 PM - Roberto Cirillo

I think I've found the issue.

The problem is in the wsdl.

As you can see the wsdl have a bad hostname set:

```
<definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://gcube-system.org/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://schemas.xmlsoap.org/wsdl/" targetNamespace="http://gcube-system.org/" name="gcube/vremanagement/ws/whnmanager">
<types>
<xsd:schema>
<xsd:import namespace="http://gcube-system.org/" schemaLocation="http://localhost:9000/whn-manager/gcube/vremanagement/ws/whnmanager?xsd=1"/>
</xsd:schema>
</types>
<message name="addToContext">
<part name="addToContext" element="tns:addToContext"/>
</message>
```

So the request is forwarded to localhost and not to sharelatex VM.

#7 - Oct 30, 2017 03:14 PM - Andrea Dell'Amico

leftovers of some other manual operation, maybe?

#8 - Oct 30, 2017 03:27 PM - Roberto Cirillo

The wsdl in http (used by resourcemanager) has localhost setted but the wsdl in https has the right hostname setted:

```
https://sharelatex.d4science.org/whn-manager/gcube/vremanagement/ws/whnmanager?wsdl
http://sharelatex.d4science.org/whn-manager/gcube/vremanagement/ws/whnmanager?wsdl
```

Have you any idea about this different behavior?

#9 - Oct 30, 2017 03:29 PM - Andrea Dell'Amico

Not at all.

#10 - Oct 31, 2017 11:26 AM - Roberto Cirillo

- Status changed from In Progress to Feedback

- Assignee changed from _InfraScience Systems Engineer to Andrea Dell'Amico

- % Done changed from 0 to 100

I've follow the tomcat recommendations for proxy support and I've solved the issue:

https://tomcat.apache.org/tomcat-5.5-doc/config/http.html#Proxy_Support

I've added two parameters to the Tomcat Connector configuration: ProxyName and ProxyPort. In this way the wsdl is correctly generated and I'm able now to add and remove scope from sharelatex container.

Maybe this settings should be set on every tomcat behind a proxy. What do you think about that?

#11 - Oct 31, 2017 11:44 AM - Andrea Dell'Amico

We can do that, but as we didn't to set it up until now we should investigate further. The hostname of the VM is set up correctly, so tomcat has all what's needed to populate its headers correctly.

#12 - Oct 31, 2017 12:24 PM - Roberto Cirillo

Andrea Dell'Amico wrote:

We can do that, but as we didn't to set it up until now we should investigate further. The hostname of the VM is set up correctly, so tomcat has all what's needed to populate its headers correctly.

I agree with you, we need further investigation. For sure it's better to keep in mind this solution if there will be other similar cases.

#13 - Oct 31, 2017 03:00 PM - Andrea Dell'Amico

- Status changed from Feedback to Closed