Ansible: problems after the upgrade of the smartgears container

Jan 23, 2018 12:43 PM - Roberto Cirillo

I've tried to upgrade some services in preproduction environment using the following playbook:

```
smartgears-node-upgrade.yml
```

The two nodes are: "catalogue-ws-t" and "socialnetworking-t" both running with (oracle-java-8 jdk). After the upgrade the container doesn't start. If I try to start it manually I've the following exception:

```
gcube@catalogue-ws-t:~$ ./startContainer.sh
* Starting Tomcat servlet engine tomcat-instance-9000

start-stop-daemon: unable to stat /usr/lib/jvm/java-8-openjdk-amd64/bin/java (No such file or directory)
```

The problem is that the file /etc/default/tomcat-instance-9000 is pointing to a not existing open-jdk as reported here:

```
JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
```

The same playbook was running successfully yesterday. I guess this bug is due to the last commit on git.

Please could you check asap?

Related issues:

- Related to gCube - Bug # 11020: CXF versions < 3.2.2 do not work with the Ora...
  - Closed
  - Jan 24, 2018

I just pushed a fix. I hope it's not permanent because it prevents to switch between the Oracle JDK and OpenJdk without setting an additional variable.

I reopened this ticket because now the tomcat script starts correctly but the container not, with the following exception:

```
Caused by: java.lang.UnsupportedOperationException: Entity References are not allowed in SOAP documents
```

Jul 22, 2019
After the last playbook run, the jdk was changed in "1.8.0_161" while the containers upgraded in the last days the java version was "1.8.0_151".

I think the problem could be related to the jdk upgrade as reported here: [https://issues.apache.org/jira/browse/CXF-7520](https://issues.apache.org/jira/browse/CXF-7520)

Is it possible to restore the old oracle-jdk version "1.8.0_151" on "socialnetworking-t.pre" in order to check if is this the problem?
But this is a completely different kind of problem and it can be only fixed in one of these two ways:

- Use OpenJDK (where we can stick to a specific version for a while, if it's necessary)
- Set the jdk_pkg_state: to present globally, to avoid jdk upgrades

The second solution is not applicable to new VMs obviously. The 161 build fixes some nasty security bugs, so we should be able to use it ASAP.

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OK I would try it. Is it possible to do it by rsync tool? For instance, the "sdi-t.pre.d4science.org" node has the "1.8.0_151" java version.

I need to understand if our smartgears container is compatible with oracle-jdk "1.8.0_161" in order to avoid, eventually, this upgrade on production nodes.
Yes, you can log into sdi-t.pre.d4science.org and run
rsync -a --delete /usr/lib/jvm/java-8-oracle/ catalogue-ws-t.d4science.org:/usr/lib/jvm/java-8-oracle

(not tested, verify that files are written on the right place on the target VM)

- Related to Bug #11020: CXF versions < 3.2.2 do not work with the Oracle JDK build 161 added

- Status changed from Feedback to Closed

We have a proper ticket now, I'm closing this one.

ok thanks. I'm going to test it.

- Subject changed from Ansible-playbook: bad java configuration on tomcat after smartgears-upgrade-node run to Ansible: problems after the upgrade of the smartgears container

We found how to solve this problem via code. This is related to some illegal (for SOAP) characters in the request; in java8-build 1.6.1 they removed the possibility to escape them. Also JAXB native indentation inserts some invalid chars and now it is disabled in our code. I have just released 2 libraries: ic-client and common-gcore-resource. I have tested this solution on socialnetworking-t.