

D4Science Infrastructure - Task #5568

Please Update orientdb version to 2.2.12

Oct 26, 2016 11:46 AM - Luca Frosini

Status:	Closed	Start date:	Oct 26, 2016
Priority:	Normal	Due date:	
Assignee:	_InfraScience Systems Engineer	% Done:	100%
Category:	Application	Estimated time:	0.00 hour
Target version:	Dev Resource Registry Deployment		
Infrastructure:	Development		
Description			
I already updated the version on ansible script.			
Related issues:			
Related to D4Science Infrastructure - Task #3475: Add 2 OrientDB instances			Closed Sep 29, 2016

History

#1 - Oct 26, 2016 11:47 AM - Luca Frosini

- Related to Task #3475: Add 2 OrientDB instances added

#2 - Oct 26, 2016 11:50 AM - Luca Frosini

- Description updated

#3 - Oct 26, 2016 12:18 PM - Luca Frosini

- Description updated
- Status changed from New to In Progress
- % Done changed from 0 to 50

thanks to @andrea.dellamico@isti.cnr.it indication I run the upgrade

#4 - Oct 26, 2016 02:33 PM - Luca Frosini

I experiencing some issues on orientdb:

- Only orientdb02-d-d4s was started.
- trying starting the service manually I obtain bash: ../log/orientdb.log: Permission denied. IMHO is related to the way to start the server in /etc/init.d/orientdb script.

```
su $ORIENTDB_USER -c "cd \"${ORIENTDB_DIR}/bin\"; /usr/bin/nohup ./server.sh 1>../log/orientdb.log 2>../log/orientdb.err &"
```

- logs are not available in the configured folder (i.e. ~/logs which is a symbolic link to /var/log/orientdb). I only have the old logs from previous instance
- Some variable on json are upper case True instead of true in default-distributed-db-config.json
- I'm not sure if the distributed server is running. We have forced distributed mode by setting in tag. I don't understadn from documentation if we have to use dserver.sh to start it. So that we could try to use dserver.sh in /etc/init.d/orientdb instead of server.sh.

Here is the content of some files:

```
cat ~/orientdb-community/config/default-distributed-db-config.json
{
  "autoDeploy": True,
  "readQuorum": 1,
  "writeQuorum": "majority",
  "executionMode": "undefined",
  "readYourWrites": True,
  "servers": {
    "": "master"
  },
  "clusters": {
    "internal": {
    },

```

```

    "servers": [ "<NEW_NODE>" ]
  }
}

cat ~/orientdb-community/bin/dserver.sh
#!/bin/sh
#
# Copyright (c) Orient Technologies LTD (http://www.orienttechnologies.com)
#

"${0%*dserver.sh}server.sh" -Ddistributed=true $*

cat /etc/init.d/orientdb
#!/bin/bash
# OrientDB service script
#
# Copyright (c) Orient Technologies LTD (http://www.orienttechnologies.com)

# chkconfig: 2345 20 80
# description: OrientDb init script
# processname: orientdb.sh

# You have to SET the OrientDB installation directory here
if [ -f /etc/default/orientdb ] ; then
    . /etc/default/orientdb
else
    ORIENTDB_DIR="/home/orientdb/orientdb-community"
    ORIENTDB_USER="orientdb"
fi

usage() {
    echo "Usage: `basename $0`: <start|stop|status>"
    exit 1
}

start() {
    status
    if [ $PID -gt 0 ]
    then
        echo "OrientDB server daemon was already started. PID: $PID"
        return $PID
    fi
    echo "Starting OrientDB server daemon..."
    cd "$ORIENTDB_DIR/bin"
    su $ORIENTDB_USER -c "cd \"\$ORIENTDB_DIR/bin\"; /usr/bin/nohup ./server.sh 1>../log/orientdb.log 2>../log/orientdb.err &"
}

stop() {
    status
    if [ $PID -eq 0 ]
    then
        echo "OrientDB server daemon is already not running"
        return 0
    fi
    echo "Stopping OrientDB server daemon..."
    cd "$ORIENTDB_DIR/bin"
    su $ORIENTDB_USER -c "cd \"\$ORIENTDB_DIR/bin\"; /usr/bin/nohup ./shutdown.sh 1>>../log/orientdb.log 2>>../log/orientdb.err &"
}

status() {
    PID=`ps auxw | grep 'orientdb.www.path' | grep java | grep -v grep | awk '{print $2}'`
    if [ "$PID" = "x" ]
    then
        PID=0
    fi

    # if PID is greater than 0 then OrientDB is running, else it is not
    return $PID
}

if [ "$1" = "xstart" ]

```

```

then
    start
    exit 0
fi

if [ "$1" = "xstop" ]
then
    stop
    exit 0
fi

if [ "$1" = "xstatus" ]
then
    status
    if [ $PID -gt 0 ]
    then
        echo "OrientDB server daemon is running with PID: $PID"
        exit 0
    else
        echo "OrientDB server daemon is NOT running"
        exit 3
    fi
fi

usage

```

#5 - Oct 26, 2016 02:55 PM - Pasquale Pagano

- Tracker changed from Support to Task

#6 - Oct 26, 2016 03:18 PM - Luca Frosini

I fixed /etc/init.d/orientdb script on orientdb01-d-d4s like this:

```

cat /etc/init.d/orientdb
#!/bin/bash
# OrientDB service script
#
# Copyright (c) Orient Technologies LTD (http://www.orienttechnologies.com)

# chkconfig: 2345 20 80
# description: OrientDb init script
# processname: orientdb.sh

# You have to SET the OrientDB installation directory here
if [ -f /etc/default/orientdb ] ; then
    . /etc/default/orientdb
else
    ORIENTDB_DIR="/home/orientdb/orientdb-community"
    ORIENTDB_USER="orientdb"
fi

usage() {
    echo "Usage: `basename $0`: <start|stop|status>"
    exit 1
}

start() {
    status
    if [ $PID -gt 0 ]
    then
        echo "OrientDB server daemon was already started. PID: $PID"
        return $PID
    fi
    echo "Starting OrientDB server daemon..."
    cd "$ORIENTDB_DIR/bin"
    su $ORIENTDB_USER -c "cd \"\$ORIENTDB_DIR/bin\"; /usr/bin/nohup ./server.sh 1>/home/orientdb/logs/orientdb.
log 2>/home/orientdb/logs/orientdb.err &"
}

stop() {
    status
    if [ $PID -eq 0 ]
    then
        echo "OrientDB server daemon is already not running"
    fi
}

```

```

        return 0
    fi
    echo "Stopping OrientDB server daemon..."
    cd "$ORIENTDB_DIR/bin"
    su $ORIENTDB_USER -c "cd \"\$ORIENTDB_DIR/bin\"; /usr/bin/nohup ./shutdown.sh 1>>/home/orientdb/logs/orient
db.log 2>>/home/orientdb/logs/orientdb.err &"
}

status() {
    PID=` ps auxw | grep 'orientdb.www.path' | grep java | grep -v grep | awk '{print $2}'`
    if [ "x$PID" = "x" ]
    then
        PID=0
    fi

    # if PID is greater than 0 then OrientDB is running, else it is not
    return $PID
}

if [ "x$1" = "xstart" ]
then
    start
    exit 0
fi

if [ "x$1" = "xstop" ]
then
    stop
    exit 0
fi

if [ "x$1" = "xstatus" ]
then
    status
    if [ $PID -gt 0 ]
    then
        echo "OrientDB server daemon is running with PID: $PID"
        exit 0
    else
        echo "OrientDB server daemon is NOT running"
        exit 3
    fi
fi

usage

```

Now the server start but I have the following error on ~/logs/orientdb.err

```

cat ~/logs/orientdb.err
./server.sh: 108: ./server.sh: cannot create /home/orientdb/orientdb-community/bin/orient.pid: Permission deni
ed

2016-10-26 15:03:43:696 INFO   Loading configuration from: /home/orientdb/orientdb-community/config/orientdb-se
rver-config.xml... [OServerConfigurationLoaderXml]
2016-10-26 15:03:44:336 INFO   OrientDB Server v2.2.12-SNAPSHOT (build 2.2.x@r2a76eelefc4487d9dc5f43e1ddc2fba1c
5a0167c; 2016-10-20 13:55:08+0000) is starting up... [OServer]
2016-10-26 15:03:44:350 INFO   Databases directory: /home/orientdb/databases [OServer]
2016-10-26 15:03:44:486 WARNI  Not enough physical memory available for DISKCACHE: 2,938MB (heap=1,820MB direct
=524,288MB). Set lower Maximum Heap (-Xmx setting on JVM) and restart OrientDB. Now running with DISKCACHE=256
MB [orienttechnologies]
2016-10-26 15:03:44:487 INFO   OrientDB config DISKCACHE=256MB (heap=1,820MB direct=524,288MB os=2,938MB) [orie
ntechnologies]
2016-10-26 15:03:45:236 INFO   Listening binary connections on 0.0.0.0:2424 (protocol v.36, socket=default) [OS
erverNetworkListener]
2016-10-26 15:03:45:244 INFO   Listening http connections on 0.0.0.0:2480 (protocol v.10, socket=default) [OSer
verNetworkListener]
2016-10-26 15:03:45:270 INFO   Installing dynamic plugin 'studio-2.2.zip'... [OServerPluginManager]
2016-10-26 15:03:45:281 INFO   ODefaultPasswordAuthenticator is active [ODefaultPasswordAuthenticator]
2016-10-26 15:03:45:283 INFO   OServerConfigAuthenticator is active [OServerConfigAuthenticator]
2016-10-26 15:03:45:285 INFO   OSystemUserAuthenticator is active [OSystemUserAuthenticator]
2016-10-26 15:03:45:337 INFO   Installed GREMLIN language v.2.6.0 - graph.pool.max=50 [OGraphServerHandler]
2016-10-26 15:03:45:657 WARNI  {db=OSystem} Storage 'OSystem' was not closed properly. Will try to recover from
write ahead log [OLocalPaginatedStorage]
2016-10-26 15:03:45:659 INFO   {db=OSystem} Looking for last checkpoint... [OLocalPaginatedStorage]
2016-10-26 15:03:45:942 INFO   {db=OSystem} FULL checkpoint found. [OLocalPaginatedStorage]

```

```

2016-10-26 15:03:45:944 INFO {db=OSystem} Data restore procedure from full checkpoint is started. Restore is
performed from LSN OLogSequenceNumber{segment=0, position=623350} [OLocalPaginatedStorage]
2016-10-26 15:03:45:949 WARN! {db=OSystem} Record com.orienttechnologies.orient.core.storage.impl.local.paginat
ed.wal.OCheckpointEndRecord{lsn=OLogSequenceNumber{segment=0, position=623374}} will be skipped during data re
store [OLocalPaginatedStorage]
2016-10-26 15:03:45:950 INFO {db=OSystem} 1 operations were processed, current LSN is OLogSequenceNumber{segm
ent=0, position=623374} last LSN is OLogSequenceNumber{segment=0, position=623380} [OLocalPaginatedStorage]
2016-10-26 15:03:45:951 INFO {db=OSystem} Storage data recover was completed [OLocalPaginatedStorage]com.orie
nttechnologies.orient.core.exception.OConfigurationException: Error on deleting 'replicator' user
    at com.orienttechnologies.orient.server.distributed.impl.ODistributedAbstractPlugin.config(ODistributedAbst
ractPlugin.java:173)
    at com.orienttechnologies.orient.server.hazelcast.OHazelcastPlugin.config(OHazelcastPlugin.java:98)
    at com.orienttechnologies.orient.server.OServer.registerPlugins(OServer.java:1230)
    at com.orienttechnologies.orient.server.OServer.activate(OServer.java:397)
    at com.orienttechnologies.orient.server.OServerMain$1.run(OServerMain.java:46)
Caused by: java.io.FileNotFoundException: /home/orientdb/orientdb-community/config/orientdb-server-config.xml
(Permission denied)
    at java.io.FileOutputStream.open0(Native Method)
    at java.io.FileOutputStream.open(FileOutputStream.java:270)
    at java.io.FileOutputStream.<init>(FileOutputStream.java:213)
    at java.io.FileOutputStream.<init>(FileOutputStream.java:162)
    at java.io.FileWriter.<init>(FileWriter.java:90)
    at com.orienttechnologies.orient.server.config.OServerConfigurationLoaderXml.save(OServerConfigurationLoade
rXml.java:122)
    at com.orienttechnologies.orient.server.config.OServerConfigurationManager.saveConfiguration(OServerConfigu
rationManager.java:107)
    at com.orienttechnologies.orient.server.OServer.dropUser(OServer.java:786)
    at com.orienttechnologies.orient.server.distributed.impl.ODistributedAbstractPlugin.config(ODistributedAbst
ractPlugin.java:171)
    ... 4 more

```

Please note:

- It cannot write the pid file. The pid file location can be changed in ~/orientdb-community/bin/server.sh

```
./server.sh: 108: ./server.sh: cannot create /home/orientdb/orientdb-community/bin/orient.pid: Permission deni
ed
```

- We need to set the proper amount of Maximum Heap

```

2016-10-26 15:03:44:486 WARN! Not enough physical memory available for DISKCACHE: 2,938MB (heap=1,820MB direct
=524,288MB). Set lower Maximum Heap (-Xmx setting on JVM) and restart OrientDB. Now running with DISKCACHE=256
MB [orienttechnologies]

```

- The file /home/orientdb/orientdb-community/config/orientdb-server-config.xml need to be writable.

```

Caused by: java.io.FileNotFoundException: /home/orientdb/orientdb-community/config/orientdb-server-config.xml
(Permission denied)

```

#7 - Oct 26, 2016 03:22 PM - Luca Frosini

I just notice that root own orientdb directory (i.e. orientdb-community-2.2.12).

If there is no reason I ignore, I think is better to assign the ownership of orientdb directory to orientdb user because it runs as orientdb user.

#8 - Oct 26, 2016 04:27 PM - Luca Frosini

@andrea.dellamico@isti.cnr.it fixed the ansible script. I run it. I'll check if everything is ok now.

#9 - Oct 26, 2016 05:11 PM - Luca Frosini

- % Done changed from 50 to 80

Seem that everything is configured in the proper way. Unfortunately hooks tag is missed in ~/orientdb-community/config/orientdb-server-config.xml

```

<hooks>
  <hook class="org.gcube.informationssystem.orientdb.hooks.HeaderHook" position="REGULAR"/>
</hooks>

```

#10 - Oct 26, 2016 06:17 PM - Luca Frosini

The tags is created but at startime the xml is rewritten so that is not at the end as expected and I didn't notice it.

#11 - Oct 26, 2016 06:19 PM - Luca Frosini

The last thing to be fixed in ansible script is that is a new version of hooks jas is available the new one is installed but the old one is not removed.

```
-rw-r--r-- 1 root root 21006619 ott 26 12:15 resource-registry-orientdb-hooks-1.0.1-20161026.093908-29-jar-with-dependencies.jar
-rw-r--r-- 1 root root 4253240 ott 26 18:14 resource-registry-orientdb-hooks-1.0.1-20161026.161036-30-jar-with-dependencies.jar
```

I'm going to remove the old one manually but it should be fixed in the ansible script.

#12 - Oct 26, 2016 06:50 PM - Andrea Dell'Amico

Luca Frosini wrote:

The last thing to be fixed in ansible script is that is a new version of hooks jar is available the new one is installed but the old one is not removed.

```
-rw-r--r-- 1 root root 21006619 ott 26 12:15 resource-registry-orientdb-hooks-1.0.1-20161026.093908-29-jar-with-dependencies.jar
-rw-r--r-- 1 root root 4253240 ott 26 18:14 resource-registry-orientdb-hooks-1.0.1-20161026.161036-30-jar-with-dependencies.jar
```

I'm going to remove the old one manually but it should be fixed in the ansible script.

The only way I see is adding a task that removes a list of files. I added the task to the orientdb playbook, and the variable:

```
orientdb_hooks_to_be_removed:
  - resource-registry-orientdb-hooks-1.0.1-20161026.093908-29-jar-with-dependencies.jar
```

#13 - Oct 27, 2016 10:12 AM - Luca Frosini

I thought about this proposal but it is difficult to keep aligned.

Can we remove all files matching resource-registry-orientdb-hooks-*-jar-with-dependencies.jar before installing the new one.

#14 - Oct 27, 2016 12:49 PM - Andrea Dell'Amico

Luca Frosini wrote:

I thought about this proposal but it is difficult to keep aligned.

Can we remove all files matching resource-registry-orientdb-hooks-*-jar-with-dependencies.jar before installing the new one.

In this way we are going to remove **all** the hook files at every playbook run, install the current one again, and then restart all the nodes. It seems more riskier that leaving an old file by mistake, to me.

#15 - Oct 27, 2016 01:55 PM - Luca Frosini

This playbook is launched to upgrade orient or the hook. In both cases orientdb must be restarted to have effect.

Moreover if two hooks are present and orientdb is restarted we don't know which one is loaded.

#16 - Oct 27, 2016 04:08 PM - Andrea Dell'Amico

- Status changed from In Progress to Feedback

- % Done changed from 80 to 100

OK, I adjusted the task that removes the old hooks.

#17 - Oct 27, 2016 04:35 PM - Luca Frosini

- Status changed from Feedback to Closed

thanks a lot