GlideinWMS - Feature #2455

Classification of glidein failure modes

02/03/2012 09:17 PM - Igor Sfiligoi

Status:	Closed	**Start date:**	09/14/2012
Priority:	Normal	**Due date:**	
Assignee:	Igor Sfiligoi	**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:	v2_6_1	**Spent time:**	22.00 hours
Stakeholders:			

Description
Currently, the error messages in case of a glidein failure are only (barely) human readable. This makes it impossible to classify errors in an automated way, thus requiring human intervention to solve the problem.
We should make them machine readable, so we can have automated actions taken. This would greatly reduce the cost of operating a factory.

Subtasks:	
Bug # 2894: Document the feature developed in #2455	**Closed**
Bug # 3002: Finish documenting the feature from #2455	**Assigned**
Bug # 2904: Fix remaining issues with #2455	**Closed**
Feature # 2964: Cleanly separate the XML handling code in glidein_startup.sh	**New**

History

#1 - 02/03/2012 09:18 PM - Igor Sfiligoi

- Assignee set to Igor Sfiligoi

Taken care by an Igor's Student: Jessica

#2 - 02/03/2012 09:21 PM - Igor Sfiligoi

The proposed solution is to be based on the OSG proposed standard:
https://twiki.grid.iu.edu/bin/view/SoftwareTools/CommonTestFormat#Alain_s_proposal_Version_4_evolu

#3 - 02/03/2012 09:22 PM - Igor Sfiligoi

To allow for automated feedback, need standardised error reasons.

This is what I currently envision:

- Config   - e.g. Impossible combinations
- Corruption   - e.g. SHA1 check failed
- WN Resource   - e.g. Disk full or glexec not found
- Network   - e.g. Cannot talk to VO Collector
- VO Proxy   - e.g. Proxy too short
- VO Data   - e.g. VO SW not installed

#4 - 02/03/2012 09:24 PM - Igor Sfiligoi

A couple examples.

Success:

```xml
<?xml version="1.0"?>
<OSGTestResult id="glideinWMS.check_disk" version="7.5.4">

    <result>
       <status>OK</status>
       <metric name="diskspace" ts="2012-01-12T15:02:20"
                  uri="local">/tmp/glidein_15432/</metric>
    </result>
    <detail>Enough disk space found.</detail>
</OSGTestResult>
```

Failure:

```xml
<?xml version="1.0"?>
<OSGTestResult id="glideinWMS.check_proxy" version="7.5.4">

    <result>
        <status>FAILED</status>
        <metric name="failure" ts="..." uri="local">VO Proxy</metric>
        <metric name="proxy" ts="2012-01-12T15:02:21"
                    uri="local">/tmp/glidein_15432/proxy/a.proxy</metric>
    </result>
    <detail>Proxy had less than 12h left.</detail>
</OSGTestResult>
```

#5 - 04/09/2012 03:36 PM - Burt Holzman

- Target version set to v3_1

#6 - 04/26/2012 11:59 PM - Igor Sfiligoi

- Status changed from New to Feedback

- % Done changed from 0 to 50

Jessica has finished working for UCSD.

I have committed her work in
branch_v2_5_5plus_2455

I expect the code to need a bit of polishing before being merged into the production tree, but it is supposed to work.

#7 - 04/27/2012 12:09 AM - Igor Sfiligoi

- Assignee changed from Igor Sfiligoi to Burt Holzman

#8 - 04/30/2012 03:25 PM - Burt Holzman

- Assignee changed from Burt Holzman to Anthony Tiradani

Tony has volunteered to review and polish this.

#9 - 07/02/2012 05:56 PM - Igor Sfiligoi

Tony complained that error_gen was requesting data via a file.
This is now fixed; all input is now passed through arguments.
All the callers have been modified.

I have also cleaned up the code a bit.
This was done with 3 commits:
1a4c00384808bc628b9f41c27ada635d48a842ae
9a6eca1492229ac1642e824216d4e1b4020df1ff
780be07224693a009ef2efb547321b34c2921371

Please re-review.

Igor

#10 - 07/18/2012 03:48 PM - Igor Sfiligoi

Tony claims all his objections have been addressed.

#11 - 07/25/2012 06:19 PM - Igor Sfiligoi

- % Done changed from 50 to 70

Done a final pass of cleanup... the code now looks good enough.

I have also created a new branch with a single commit for easier merging into the production branches:
branch_v2_5_5plus_2455_one

#12 - 07/25/2012 06:37 PM - Igor Sfiligoi

Merged branch_v2_5_5plus_2455_one into both branch_v2plus and HEAD.

#13 - 07/25/2012 06:38 PM - Igor Sfiligoi

Still missing the documentation.
Any suggestion on where we should place it?

#14 - 08/14/2012 02:41 PM - Parag Mhashilkar

- Assignee changed from Anthony Tiradani to Igor Sfiligoi

- Target version changed from v3_1 to v2_6_1

#15 - 08/14/2012 02:41 PM - Parag Mhashilkar

- Status changed from Feedback to Assigned

#16 - 08/14/2012 02:44 PM - Parag Mhashilkar

Maybe factory troubleshooting page?

#17 - 08/14/2012 02:50 PM - Igor Sfiligoi

This is not really troubleshooting.
It is about the format all validation scripts are supposed to adhere to.

Both the ones provided out of the box, and the ones written by both factory and frontend administrators.

#18 - 08/14/2012 02:54 PM - Parag Mhashilkar

Then design seems like the closest place to point a link to a new page containing this info.   Also configuration page if there is anything specific to
configuration.

#19 - 08/21/2012 01:57 PM - Parag Mhashilkar

- Status changed from Assigned to Resolved

closing this ticket as part of 2.6.1

Opening a new child issue for documentation

#20 - 08/21/2012 04:29 PM - Parag Mhashilkar

- Status changed from Resolved to Closed