GlideinWMS - Support #21537

Double-check functions that deal with boolean ClassAd facing possible misleading behavior

12/12/2018 04:15 PM - Lorena Lobato Pardavila

Status:	Closed		**Start date:**	12/12/2018
Priority:	High		**Due date:**	
Assignee:	Lorena Lobato Pardavila		**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:	v3_5_1		**Spent time:**	0.00 hour
Stakeholders:				

Description

Investigating #21325, we realized there are several functions that might have misleading type comparison when we are dealing with boolean attributes. These functions are used to populate the factory configuration values, which can lead to issues similar to #21325.

Some of the the possible functions to be investigated:

```
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/cWDictFile.py:    # returns a bool:
 True if the dir was created, false else
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/cWParams.py:        self.attr_defau
lts["parameter"]=("True", "Bool", "Should it be passed as a parameter?", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/cWParams.py:        self.attr_defau
lts["glidein_publish"]=("False", "Bool", "Should it be published by the glidein? (Used only if par
ameter is True.)", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/cWParams.py:        self.attr_defau
lts["job_publish"]=("False", "Bool", "Should the glidein publish it to the job? (Used only if para
meter is True.)", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/cWParams.py:        self.file_defau
lts["const"]=("True", "Bool", "Will the file be constant? If True, the file will be signed. If Fal
se, it can be modified at any time and will not be cached.", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/cWParams.py:        self.file_defau
lts["executable"]=("False", 'Bool', 'Is this an executable that needs to be run in the glidein?',
None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/cWParams.py:        self.file_defau
lts["wrapper"]=("False", 'Bool', 'Is this a wrapper script that needs to be sourced in the glidein
 job wrapper?', None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/cWParams.py:        self.file_defau
lts["untar"]=("False", 'Bool', 'Do I need to untar it? ', None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        sel
f.attr_defaults["publish"] = ("True", "Bool", "Should it be published by the factory?", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        sel
f.attr_defaults["const"] = ("True", "Bool", "Should it be constant? (Else it can be overriden by t
he frontend. Used only if parameter is True.)", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        ent
ry_config_restrictions_defaults["require_voms_proxy"]=("False", "Bool", "Whether this entry point
requires a voms proxy", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        ent
ry_config_restrictions_defaults["require_glidein_glexec_use"]=("False", "Bool", "Whether this entr
y requires glidein to use glexec", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        sel
f.entry_defaults["enabled"] = ("True", "Bool", "Is this entry enabled?", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        sel
f.defaults['factory_versioning'] = ('True', 'Bool', 'Should we create versioned subdirectories?',
None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        sel
f.defaults['advertise_with_tcp'] = ('True', 'Bool', 'Should condor_advertise use TCP connections?'
, None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        sel
f.defaults['advertise_with_multiple'] = ('True', 'Bool', 'Should condor_advertise use -multiple?',
 None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:        sta
ge_defaults["use_symlink"] = ("True", "Bool", "Can I symlink stage dir from submit dir?", None)
```

```
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:       mon
itoring_collector_defaults["secondary"]=("False", "Bool", "Secondary nodes will be used by glidein
s, if present", None)
/usr/lib/python2.7/site-packages/glideinwms/tools/creation/lib/gt2removal/cgWParams.py:       sel
f.defaults["files"][3]["after_entry"] = ("False", 'Bool', 'Should this file be loaded after the en
try ones?', None)
```

An example of these functions could be "add_extended" (cWDictFile.py), where "type" accepts as valid types: "string", "expr" and "integer" (anything different from the first 2 strings is considered integer). Although, there are several calls to this function where value is passed as "Bool" or "Boolean". These types are not a valid value but it ends up working because integers are not quoted (same as expressions), but it's not correct.

It should be 'expr'', anything that is not 'expr' or 'string' is considered integer but normally boolean variables are considered condor expressions: http://glideinwms.fnal.gov/doc.prd/factory/custom_vars.html

All these functions where "Bool" or "Boolean" are passed as parameter (and the valid types are string|int|expr) must be double-checked to avoid issues in the future

Related issues:

Related to GlideinWMS - Bug #21898: Error preventing the Frontend fo match jobs	**Closed**	**02/20/2019**
Related to GlideinWMS - Bug #21325: Frontend not recognizing entries in downtime	**Closed**	**11/07/2018**
Related to GlideinWMS - Bug #21527: The factory seems to ignore the configura...	**Closed**	**12/11/2018**
Related to GlideinWMS - Support #21940: Unit tests for boolean and string values	**Closed**	**02/20/2019**
Related to GlideinWMS - Bug #22354: Strings evaluated as boolean	**Closed**	**04/10/2019**

History

#1 - 02/15/2019 10:14 AM - Lorena Lobato Pardavila

- Related to Bug #21898: Error preventing the Frontend fo match jobs added

#2 - 02/15/2019 10:14 AM - Lorena Lobato Pardavila

- Related to Bug #21325: Frontend not recognizing entries in downtime added

#3 - 02/15/2019 10:15 AM - Lorena Lobato Pardavila

- Related to Bug #21527: The factory seems to ignore the configuration values in the files in the config.d directory w/ entry configurations added

#4 - 02/15/2019 10:17 AM - Lorena Lobato Pardavila

- Related to Bug #21898: Error preventing the Frontend fo match jobs added

#5 - 02/15/2019 10:17 AM - Lorena Lobato Pardavila

- Related to deleted (Bug #21898: Error preventing the Frontend fo match jobs)

#6 - 02/20/2019 11:03 AM - Lorena Lobato Pardavila

- Related to Support #21940: Unit tests for boolean and string values added

#7 - 04/10/2019 11:44 PM - Marco Mambelli

- Related to Bug #22354: Strings evaluated as boolean added

#8 - 06/28/2019 04:47 PM - Marco Mambelli

- Target version changed from v3_5_x to v3_5_1

- Priority changed from Normal to High

Do we still need this?

#9 - 06/28/2019 04:50 PM - Lorena Lobato Pardavila

- Status changed from New to Resolved

I don't think so as all the sub-tasks have been completed.

I am resolving the ticket.

#10 - 09/28/2019 10:12 AM - Marco Mambelli

- Status changed from Resolved to Closed