JobSub - Feature #22164

Upgrade jobsub code to use argparse instead of optparse

03/19/2019 11:08 AM - Shreyas Bhat

Status:	Work in progress	**Start date:**	03/19/2019
Priority:	Normal	**Due date:**	
Assignee:	Shreyas Bhat	**% Done:**	20%
Category:		**Estimated time:**	0.00 hour
Target version:	v1.3	**Spent time:**	0.00 hour
Stakeholders:			

Description

We want to use argparse to get jobsub ready to move to python 3. Some pointers for upgrading optparse to argparse are here:

https://docs.python.org/2.7/library/argparse.html#upgrading-optparse-code

With some playing around, it looks like opts, args = parser.parse_args() in optparse can become args, extras = parser.parse_known_args() pretty easily.

Related issues:

Blocks JobSub - Bug #21031: jobsub_submit allows more than one --group argument	**Work in progress**	05/29/2018

History

#1 - 03/19/2019 11:09 AM - Shreyas Bhat

- Blocks Bug #21031: jobsub_submit allows more than one --group argument added

#2 - 04/03/2019 05:06 PM - Shreyas Bhat

- Status changed from New to Work in progress

#3 - 04/10/2019 11:37 AM - Shreyas Bhat

jobsub_fetchlog, jobsub_submit, and jobsub_q done and tested.

#4 - 04/16/2019 04:32 PM - Shreyas Bhat

jobsub_history done and tested.

#5 - 04/26/2019 03:34 PM - Shreyas Bhat

- % Done changed from 0 to 20

jobsub_hold and jobsub_probe_url done and tested.

#6 - 04/26/2019 05:03 PM - Shreyas Bhat

Rough outline of steps for each client module:

1. imports (optparse, callbacks, version, etc)
2. Usage line: %prog --> %(prog)s
3. optparse --> argparse
4. OptionParser --> ArgumentParser
5. version_string: Comment out, add argument for Version_String
6. opt_group --> client_options
7. optparse.OptionGroup --> parser.add_argument_group; remove later parser.add_argument_group line
8. add_option --> add_argument
9. Change all types from strings to callables (like 'string' should become str)
10. Change callbacks (action = callback --> action = actual callback class)
11. Check that there's no "store_true" actions with metavars - argparse doesn't support that
12. parser.parse_args --> parser.parse_known_args
13. logSupport.dPrint.....: options --> vars(options)

#7 - 05/16/2019 04:55 PM - Shreyas Bhat

The rest of the client code is updated, but my dev client/server isn't working as I expected. I assume it's something to do with the incommon/curl issues we'd seen. I'll first rebase the work here off of current master, since I'd need to anyway, and then troubleshoot my dev server.