

Pulp - Issue #993

Worker discovery takes 30 seconds when all services restarted at the same time

05/20/2015 07:39 PM - bcourt

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:	bcourt	Estimated time:	0:00 hour
Category:			
Sprint/Milestone:			
Severity:	2. Medium	Groomed:	No
Version:	Master	Sprint Candidate:	No
Platform Release:	2.7.0	Tags:	Easy Fix, Pulp 2
OS:		Sprint:	
Triaged:	Yes	Quarter:	

Description

When all of the pulp services are restarted at the same time it often takes 30 seconds before the workers are discovered.

When running the script:

```
[root@bcourt pulp]# /home/bcourt/bin/restart-pulp.sh
++ systemctl stop httpd
++ systemctl stop pulp_workers
++ systemctl stop pulp_resource_manager
++ systemctl stop pulp_celerybeat
++ systemctl stop goferd
++ systemctl stop qpidd
++ systemctl start qpidd
++ systemctl start goferd
++ systemctl start pulp_celerybeat
++ systemctl start pulp_resource_manager
++ systemctl start pulp_workers
++ systemctl start httpd
[root@bcourt pulp]#
```

The following are the relevant log entries:

```
May 20 13:33:42 bcourt.usersys.redhat.com pulp[8229]: pulp.server.webservices.application:INFO: **
*****
May 20 13:33:42 bcourt.usersys.redhat.com pulp[8229]: pulp.server.webservices.application:INFO: Th
e Pulp server has been successfully initialized
May 20 13:33:42 bcourt.usersys.redhat.com pulp[8229]: pulp.server.webservices.application:INFO: **
*****
May 20 13:33:42 bcourt.usersys.redhat.com pulp[8229]: gofer.messaging.adapter.qpid.connection:INFO
: opened: qpid+tcp://localhost:5672
May 20 13:33:42 bcourt.usersys.redhat.com pulp[8229]: gofer.messaging.adapter.connect:INFO: connec
ted: qpid+tcp://localhost:5672
May 20 13:34:10 bcourt.usersys.redhat.com pulp[8185]: pulp.server.async.worker_watcher:INFO: New w
orker 'reserved_resource_worker-1@bcourt.usersys.redhat.com' discovered
May 20 13:34:10 bcourt.usersys.redhat.com pulp[8185]: pulp.server.async.worker_watcher:INFO: New w
orker 'reserved_resource_worker-3@bcourt.usersys.redhat.com' discovered
May 20 13:34:10 bcourt.usersys.redhat.com pulp[8185]: pulp.server.async.worker_watcher:INFO: New w
orker 'reserved_resource_worker-0@bcourt.usersys.redhat.com' discovered
May 20 13:34:11 bcourt.usersys.redhat.com pulp[8185]: pulp.server.async.worker_watcher:INFO: New w
orker 'reserved_resource_worker-2@bcourt.usersys.redhat.com' discovered
```

This looks like a race condition where the initial heartbeat from the worker is missed as celerybeat is still starting up. A simple solution would be to have the workers heartbeat faster initially and then back off once they have communication with celerybeat.

Associated revisions

Revision 2e250c92 - 06/04/2015 06:00 PM - bcourt

Fix delayed worker discovery if all the services are restarted at the same time.

fixes #993

Revision 2e250c92 - 06/04/2015 06:00 PM - bcourt

Fix delayed worker discovery if all the services are restarted at the same time.

fixes #993

History

#1 - 05/20/2015 07:53 PM - bcourt

- Subject changed from *Worker discovery takes 30 seconds when all services restarted* to *Worker discovery takes 30 seconds when all services restarted at the same time*

#2 - 05/20/2015 08:21 PM - bmbouter

Here is how I think this should be fixed:

When workers startup they emit a [worker-online](#) event. Add this event type to the [events the scheduler monitors](#). The handler of the worker-online event should craft a heartbeat and pass it to `worker_watcher.handle_worker_heartbeat` [similar to the way this code does it](#).

#3 - 05/22/2015 04:57 PM - mhrivnak

- Platform Release set to 2.7.0
- Triaged changed from No to Yes
- Tags Easy Fix added

This was introduced in 2.7.0 alpha.

#4 - 06/01/2015 05:36 PM - bcourt

- Assignee set to bcourt

#5 - 06/01/2015 07:57 PM - bcourt

- Status changed from NEW to POST

<https://github.com/pulp/pulp/pull/1889>

#6 - 06/04/2015 06:14 PM - bcourt

- Status changed from POST to MODIFIED

#7 - 06/04/2015 06:17 PM - bcourt

- % Done changed from 0 to 100

Applied in changeset pulp2e250c92d2bf58a1759cf7931af3976b7cef6e28.

#8 - 06/15/2015 08:35 PM - dkliban@redhat.com

- Status changed from MODIFIED to 5

#9 - 06/29/2015 06:08 PM - Skullman

- Status changed from 5 to 6

Verified with pulp-server-2.7.0-0.3.beta.fc21.noarch

```
Jun 29 12:04:50 nec-em24-1.rhds.eng.bos.redhat.com pulp[13068]: pulp.server.async.worker_watcher:INFO: New worker '
reserved_resource_worker-1@nec-em24-1.rhds.eng.bos.redhat.com' discovered
Jun 29 12:04:50 nec-em24-1.rhds.eng.bos.redhat.com pulp[13068]: pulp.server.async.worker_watcher:INFO: New worker '
reserved_resource_worker-13@nec-em24-1.rhds.eng.bos.redhat.com' discovere
Jun 29 12:04:50 nec-em24-1.rhds.eng.bos.redhat.com pulp[13068]: pulp.server.async.worker_watcher:INFO: New worker '
reserved_resource_worker-6@nec-em24-1.rhds.eng.bos.redhat.com' discovered
Jun 29 12:04:50 nec-em24-1.rhds.eng.bos.redhat.com pulp[13068]: pulp.server.async.worker_watcher:INFO: New worker '
reserved_resource_worker-8@nec-em24-1.rhds.eng.bos.redhat.com' discovered
Jun 29 12:04:50 nec-em24-1.rhds.eng.bos.redhat.com pulp[13068]: pulp.server.async.worker_watcher:INFO: New worker '
reserved_resource_worker-14@nec-em24-1.rhds.eng.bos.redhat.com' discovere
Jun 29 12:04:50 nec-em24-1.rhds.eng.bos.redhat.com pulp[13229]: pulp.server.db.connection:INFO: Mongo database for connection is version 2.4.13
[...]
--snip--
[...]
Jun 29 12:04:51 nec-em24-1.rhds.eng.bos.redhat.com pulp[13230]: pulp.server.webservices.application:INFO: **
*****
Jun 29 12:04:51 nec-em24-1.rhds.eng.bos.redhat.com pulp[13230]: pulp.server.webservices.application:INFO: The Pulp server has been successfully
initialized
Jun 29 12:04:51 nec-em24-1.rhds.eng.bos.redhat.com pulp[13230]: pulp.server.webservices.application:INFO: **
*****
```

#10 - 11/06/2015 08:35 PM - amadonna@redhat.com

- Status changed from 6 to CLOSED - CURRENTRELEASE

#12 - 04/15/2019 10:48 PM - bmbouter

- Tags Pulp 2 added