

Pulp - Issue #3861

A remote Redis server is being ignored when configured at server.yaml

07/17/2018 10:35 PM - tchellomello

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:	tchellomello	Estimated time:	0:00 hour
Category:			
Sprint/Milestone:	3.0.0		
Severity:	2. Medium	Groomed:	No
Version:		Sprint Candidate:	No
Platform Release:		Tags:	
OS:		Sprint:	
Triaged:	No	Quarter:	

Description

A remote Redis server is being ignored when configured at server.yaml.

Regardless of the configuration placed for Redis, it will always point back to localhost.

Note: Remote database is working as expected

```
#server.yaml
bash-4.4# cat server.yaml | grep -v ^$ | grep -v ^#
REDIS:
  HOST: redis
  PORT: 6379
  PASSWORD:

DATABASES:
  default:
    CONN_MAX_AGE: 0
    ENGINE: django.db.backends.postgresql_psycopg2
    NAME: pulp
    USER: pulp
    PASSWORD: pulp
    HOST: pgsq
    PORT: 5432

SECRET_KEY: lrr7on0ossjj993vq8o6bbpnk5x+5*z16n(+8a0#982_$v^gx
DEBUG: True
```

connectivity works

```
bash-4.4# ping redis
PING redis (172.18.0.3): 56 data bytes
64 bytes from 172.18.0.3: seq=0 ttl=64 time=0.100 ms
```

Troubleshooting with the rpdb we can see the configured is being merged by <https://github.com/pulp/pulp/blob/master/pulpcore/pulpcore/app/settings.py#L259-L272>

```
bash-4.4# rq worker -n 'resource_manager@%h' -w 'pulpcore.tasking.worker.PulpWorker'
pdb is running on 127.0.0.1:4444
```

```
bash-4.4# telnet localhost 4444
> /nightly/pulp/pulpcore/pulpcore/app/settings.py (273) load_settings()
-> return settings
(Pdb) l
268
269     for setting_name, setting_value in settings.items():
```

```

270         setattr(sys.modules[__name__], setting_name.upper(), setting_value)
271
272         import rpdb; rpdb.set_trace()
273     ->         return settings
274
275
276     # Read PULP_SETTINGS environment variable to find the location of server.yaml,
277     # defaults to /etc/pulp/server.yaml
278     PULP_SETTINGS = os.getenv('PULP_SETTINGS', '/etc/pulp/server.yaml')
(Pdb) settings
{'DATABASES': {'default': {'ENGINE': 'django.db.backends.postgresql_psycopg2', 'NAME': 'pulp', 'USER': 'pulp', 'CONN_MAX_AGE': 0, 'PASSWORD': 'pulp', 'HOST': 'pgsql', 'PORT': 5432}}, 'logging': {'version': 1, 'disable_existing_loggers': False, 'formatters': {'simple': {'format': 'pulp: %(name)s: %(levelname)s: %(message)s'}}, 'handlers': {'console': {'class': 'logging.StreamHandler', 'formatter': 'simple'}, 'syslog': {'address': '/dev/log', 'class': 'logging.handlers.SysLogHandler', 'formatter': 'simple'}}, 'loggers': {'': {'handlers': ['syslog'], 'level': 'INFO'}}}, 'SERVER': {'WORKING_DIRECTORY': '/var/lib/pulp/tmp'}, 'CONTENT': {'WEB_SERVER': 'django', 'HOST': None}, 'REDIS': {'HOST': 'redis', 'PORT': 6379, 'PASSWORD': None}, 'PROFILING': {'ENABLED': False, 'DIRECTORY': '/var/lib/pulp/c_profiles'}, 'SECRET_KEY': 'lrr7on0ossjj993vq8o6bbpnk5x+5*zl6n(+8a0#982_5v^gx', 'DEBUG': True}
(Pdb) settings.get('REDIS')
{'HOST': 'redis', 'PORT': 6379, 'PASSWORD': None}

```

However, the worker will try to connect locally:

```

bash-4.4# rq worker -n 'resource_manager@%h' -w 'pulpcore.tasking.worker.PulpWorker'
pdb is running on 127.0.0.1:4444
Error 99 connecting to localhost:6379. Address not available.

```

Associated revisions

Revision 259bc4ca - 07/19/2018 10:00 AM - tchellomello

Make sure the REDIS connection string present in server.yaml is inherited by workers and resource_manager.

fixes #3861 <https://pulp.plan.io/issues/3861>

Revision 259bc4ca - 07/19/2018 10:00 AM - tchellomello

Make sure the REDIS connection string present in server.yaml is inherited by workers and resource_manager.

fixes #3861 <https://pulp.plan.io/issues/3861>

History

#1 - 07/17/2018 10:35 PM - dkliban@redhat.com

- Tags Pulp 3 added

#2 - 07/17/2018 11:37 PM - tchellomello

Hello guys,

I took the troubleshooting a little further and it does it seems we are not passing the right connection string to the Redis. I added some troubleshooting code to the worker.py within rq and it is receiving localhost by default.

1) Starting a worker

```

$ rq worker -n 'resource_manager@%h' -w 'pulpcore.tasking.worker.PulpWorker'
pdb is running on 127.0.0.1:4444

```

2) Checking with rpdb

```

bash-4.4# telnet localhost 4444
> /usr/local/lib/python3.6/site-packages/rq/worker.py(108)all()
-> if queue:
(Pdb) l
103         @classmethod
104         def all(cls, connection=None, job_class=None, queue_class=None, queue=None):
105             """Returns an iterable of all Workers.
106             """
107             import rpdb; rpdb.set_trace()

```

```

108 ->         if queue:
109             connection = queue.connection
110         elif connection is None:
111             connection = get_current_connection()
112
113         worker_keys = get_keys(queue=queue, connection=connection)

```

```

(Pdb) connection
StrictRedis<ConnectionPool<Connection<host=localhost,port=6379,db=0>>>

```

If we look at the rq code, it will point to the localhost:

```

def __init__(self, host='localhost', port=6379,
             db=0, password=None, socket_timeout=None,
             socket_connect_timeout=None,
             socket_keepalive=None, socket_keepalive_options=None,
             connection_pool=None, unix_socket_path=None,
             encoding='utf-8', encoding_errors='strict',
             charset=None, errors=None,
             decode_responses=False, retry_on_timeout=False,
             ssl=False, ssl_keyfile=None, ssl_certfile=None,
             ssl_cert_reqs=None, ssl_ca_certs=None,
             max_connections=None):

```

Now to test, if we change the redis port on the server.yaml if still does not change the redis string:

```

bash-4.4# cat pulp/pulpcore/pulpcore/etc/pulp/server.yaml | grep REDIS -A 3
REDIS:
  HOST: redis
  PORT: 6378
  PASSWORD:

```

```

bash-4.4# telnet localhost 4444
> /usr/local/lib/python3.6/site-packages/rq/worker.py(108)all()
-> if queue:
(Pdb) l
103         @classmethod
104         def all(cls, connection=None, job_class=None, queue_class=None, queue=None):
105             """Returns an iterable of all Workers.
106             """
107             import rpdb; rpdb.set_trace()
108 ->         if queue:
109             connection = queue.connection
110         elif connection is None:
111             connection = get_current_connection()
112
113         worker_keys = get_keys(queue=queue, connection=connection)
(Pdb) connection
StrictRedis<ConnectionPool<Connection<host=localhost,port=6379,db=0>>>

```

So it seems we are not passing any options to the rq when calling it.

Still looking

#3 - 07/17/2018 11:59 PM - tchellomello

Alright, so if we pass the --url to the RQ worker then it works.

```

rq worker --url "redis://redis:6379/0" -n 'resource_manager@%h' -w 'pulpcore.tasking.worker.PulpWorker'

```

Checking the postgresql database, it then got its status registered:

```

bash-4.4# psql -h pgsq1 -U pulp
Password for user pulp:
psql (10.4)
Type "help" for help.

pulp=# select * from pulp_app_worker ;

```

name	id	last_heartbeat	created	gracefully_stopped	last_updated	cleaned_up
resource_manager@3891802b8d5c	711f762b-24c1-4518-9557-5d2debd9840a	2018-07-17 21:56:06.255469+00	2018-07-17 21:44:04.153992+00	f	2018-07-17 21:55:36.149917+00	f

```

(1 row)

```

So it seems we have to pass that directly to the worker manually or have it globally somewhere in Pulp.

#4 - 07/19/2018 09:37 AM - tchellomello

PR submitted <https://github.com/pulp/pulp/pull/3555>

Tested and worked fine.

#5 - 07/19/2018 03:52 PM - dkliban@redhat.com

- Status changed from NEW to POST

- Assignee set to tchellomello

<https://github.com/pulp/pulp/pull/3555>

#6 - 07/19/2018 03:54 PM - tchellomello

- Status changed from POST to MODIFIED

Applied in changeset <pulp|259bc4caced6c81b1004228447f84a97c7c9d5ad>.

#7 - 04/25/2019 06:45 PM - daviddavis

- Sprint/Milestone set to 3.0.0

#8 - 04/26/2019 10:34 PM - bmbouter

- Tags deleted (Pulp 3)

#9 - 12/13/2019 06:33 PM - bmbouter

- Status changed from MODIFIED to CLOSED - CURRENTRELEASE