RPM Support - Story #3202

As a user, I can sync RPM/SRPM/Erratum from a remote Yum/DNF repository

12/14/2017 08:07 PM - ttereshc

Status: Start date: **CLOSED - CURRENTRELEASE** Due date: **Priority:** Normal % Done: Assignee: ttereshc 67% Category: **Estimated time:** 0:00 hour Sprint/Milestone: Pulp 3 RPM MVP Platform Release: Tags: Groomed: Sprint 42 Nο **Sprint:**

Quarter:

Description

Sprint Candidate:

As a user, I can sync RPM/SRPM/Erratum from a remote Yum/DNF repository.

Other unknown types of a content should be ignored during sync.

This story is complete when:

• I can initiate a sync from remote Yum/DNF repo

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- The sync completes without error
- I can see that the expected content was added to the repo

Pseudo Code First Stage Example

The sync will create a Stages API first stage and then pass all of them to DeclarativeVersion. Here is some pseudocode that can run inside of the __call__() of the first stage.

```
with ProgressBar(message='Downloading Metadata') as pb:
           repomd_url = url = self.remote.url + '/repodata/repomd.xml'
           downloader = self.remote.get_downloader(repomd_url) # get the downloader
           result = await downloader.run() # downloading happens here
           pb.increment() # tell the user we downloading something
           other_metadata_files = get_other_metadata_files_as_list(result) # gives urls of comps
, updateinfo, etc.
           downloaders = []
            for url in other_metadata_files:
                       downloader = self.remote.get_downloader(repomd_url) # get the downloader
                       downloaders.append(downloader.run()) # This only creates the coroutine, it
doesn't run it
           while downloaders:
                       done, downloaders = await asyncio.wait(pending, return_when=asyncio.FIRST_C
OMPLETED)
                       for finished_downloader in done:
                                     pb.increment() # tell the user we downloading something
                                     in_memory_parsed_metadata = createrepo_c.load_xml(finished_do
wnloader.path)
                                     for package in in_memory_parsed_metadata:
                                                 if is_updaterecord(package):
                                                              content = UpdateRecord(content_data_
from_package)
                                                              artifact = Artifact(digest_data_from
_package)
                                                              da = DeclarativeArtifact(artifact, u
rl, entry.relative_path, self.remote)
                                                              dc = DeclarativeContent(content=file
 d_artifacts=[da])
                                                              await out_q.put(dc)
```

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```
if is_packagerecord(package):
                                                              # Similar to what we did only usin
g RpmContent / SrpmContent
```

The call function will become long, so consider breaking it up into additional coroutine methods on the object. For example if we made a build_da_dc_and_emit() coroutine it would be defined like:

```
async def build_da_dc_and_emit(self, content, artifact):
              da = DeclarativeArtifact(artifact, url, entry.relative_path, self.remote)
              dc = DeclarativeContent(content=file, d_artifacts=[da])
              await out_q.put(dc)
# Then in your code call it with:
await self.build_da_dc_and_emit(content, artifact)
```

Subtasks:

Task # 3933: Save UpdateCollection and UpdateCollectionPackage in bulk

Story # 3934: As a plugin writer, I can have a stage that removes duplicates

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Task # 3942: Store a digest of the fields for an UpdateRecord

NEW

Related issues:

Related to RPM Support - Test #4108: Test syncing RPM/DRPM/SRPM/Erratum

ASSIGNED

Blocked by RPM Support - Task #3199: Create model(s) for a Package content type

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Associated revisions

Revision d9f95bd8 - 08/23/2018 10:49 PM - daviddavis

Initial pass at syncing rpm and erratum content

This handles creating packages and update records from an RPM remote. UpdateCollections and their packages are not included.

ref #3202 https://pulp.plan.io/issues/3202

Revision fcd156b3 - 08/24/2018 07:11 PM - daviddavis

Parsing erratum relationships and storing them on the model

ref #3202 https://pulp.plan.io/issues/3202

History

#1 - 12/14/2017 08:17 PM - ttereshc

- Sprint/Milestone set to Pulp 3 RPM MVP

#2 - 12/14/2017 08:19 PM - ttereshc

- Blocked by Task #3199: Create model(s) for a Package content type added

#4 - 02/20/2018 07:18 PM - ttereshc

- Subject changed from As a user, I can sync RPM/SRPM from a remote Yum/DNF repository to As a user, I can sync RPM/SRPM/Erratum from a remote Yum/DNF repository

#5 - 02/20/2018 07:19 PM - ttereshc

- Description updated

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#6 - 05/25/2018 02:00 PM - ttereshc

- Sprint set to Sprint 37

#7 - 06/01/2018 11:11 PM - rchan

- Sprint changed from Sprint 37 to Sprint 38

#8 - 06/26/2018 03:16 PM - rchan

- Sprint changed from Sprint 38 to Sprint 39

#9 - 07/16/2018 01:07 AM - dkliban@redhat.com

- Sprint deleted (Sprint 39)

#10 - 08/09/2018 03:16 PM - ttereshc

- Sprint set to Sprint 41

#11 - 08/09/2018 04:48 PM - bmbouter

- Description updated

Posting some sync pseudocode

#12 - 08/09/2018 05:15 PM - bmbouter

- Description updated

Adding an example about breaking the code up into smaller coroutines.

#13 - 08/10/2018 10:40 AM - milan

- Status changed from NEW to ASSIGNED
- Assignee set to milan

#14 - 08/13/2018 10:17 AM - milan

- Status changed from ASSIGNED to NEW
- Assignee deleted (milan)

#15 - 08/13/2018 06:03 PM - ttereshc

- Status changed from NEW to ASSIGNED
- Assignee set to ttereshc

#16 - 08/19/2018 06:20 PM - ttereshc

WIP PR https://github.com/pulp/pulp_rpm/pull/1160

#17 - 08/27/2018 03:03 PM - rchan

- Sprint changed from Sprint 41 to Sprint 42

#18 - 09/13/2018 03:35 PM - daviddavis

- Status changed from ASSIGNED to MODIFIED

#19 - 10/31/2018 02:17 PM - kersom

- Related to Test #4108: Test syncing RPM/DRPM/SRPM/Erratum added

#20 - 04/26/2019 10:37 PM - bmbouter

- Tags deleted (Pulp 3)

#21 - 12/13/2019 08:54 AM - ttereshc

- Status changed from MODIFIED to CLOSED - CURRENTRELEASE

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