

RPM Support - Story #5356

As a user, I can download a configuration for yum/dnf from an RpmDistribution

08/27/2019 02:28 PM - dkliban@redhat.com

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Low	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0:00 hour
Sprint/Milestone:	Pulp RPM 3.4.0	Tags:	
Platform Release:		Sprint:	
Groomed:	No	Quarter:	
Sprint Candidate:	No		
Description			
It is common for repositories to include a repo file that can be used to add the repository to a client. This file can be manually placed into /etc/yum.repos.d/ or it can be specified as a parameter to yum/dnf. e.g.			
<pre>dnf config-manager --add-repo http://example.com/pulp/content/some/repo/path/config.repo</pre>			
Related issues:			
Related to Pulp - Story #6570: as a plugin writer, my custom content handler ...		CLOSED - CURRENTRELEASE	

Associated revisions

Revision b1d7979e - 05/08/2020 11:19 AM - Pieter Lexis

Implement .repo file for RPM repositories

ref #5356

Revision 6a661c86 - 05/08/2020 11:19 AM - Pieter Lexis

Add directory listing for public.key, config.repo

ref #5356

Revision c9c226e1 - 05/08/2020 11:19 AM - Pieter Lexis

Assume the public key is called public.key

ref #5356

Revision 6b3b149f - 05/08/2020 11:19 AM - Pieter Lexis

Add tests for config.repo

closes #5356

Required PR: <https://github.com/pulp/pulpcore/pull/678>

History

#1 - 02/25/2020 07:34 PM - ttereshc

- Sprint/Milestone set to Priority items (outside of planned milestones/releases)

#2 - 02/25/2020 07:44 PM - ttereshc

- Priority changed from Normal to Low

#3 - 04/15/2020 09:37 PM - dkliban@redhat.com

The RpmPublicationSerializer[0] will need to be updated to accept an RpmDistribution as an optional parameter. When such parameter is passed in, the RpmPublicationViewSet[1] should pass the distribution's PK to the publish task[2]. The publish task should then create a new Artifact and PublishedArtifact for the config.repo file. The file should contain the URL associated with the RpmDistribution that was passed in by the REST API user. If a SigningService is being used to sign the metadata, config.repo should also contain a path to the public key in the publication.

[0] https://github.com/pulp/pulp_rpm/blob/1383fbf86b19a3baacd46be1903344f1eb24c25/pulp_rpm/app/serializers.py#L337

[1] https://github.com/pulp/pulp_rpm/blob/1383fbf86b19a3baacdd46be1903344f1eb24c25/pulp_rpm/app/viewsets.py#L228

[2] https://github.com/pulp/pulp_rpm/blob/1383fbf86b19a3baacdd46be1903344f1eb24c25/pulp_rpm/app/tasks/publishing.py#L201

#4 - 04/23/2020 04:13 PM - dkliban@redhat.com

The solution in the previous comment creates severe limitations for the user. Any publication that includes a config.repo file will need to be recreated each time the user wants to use it with a new Distribution. This file should always be dynamically generated when it is requested from the content app. This can be achieved in the following way:

The RPM plugin needs to introduce a new setting to allow users to specify RPM_CONTENT_PATH_PREFIX.

The RPM plugin needs to provide it's own content handler that inherits from `pulpcore.app.content.Handler[0]`. The new handler should handle a route that looks like this: `settings.RPM_CONTENT_PATH_PREFIX + '{path:.+}'`. This is a slight variation on what pulpcore already provides[1].

The handler needs to override the `_match_and_stream` method[3]. This method needs figure the distribution being requested, call `permit()`, and then check if the path being requested is equal to 'config.repo'. If it is, it should dynamically generate the config file based on the `base_url` of the distribution and any information about a public key associated with the publication that's associated with the distribution. If the path requested is not config.repo, then it should simply call `super()`.

[0] <https://github.com/pulp/pulpcore/blob/master/pulpcore/content/handler.py#L50> [1]

<https://github.com/pulp/pulpcore/blob/master/pulpcore/content/init.py#L51> [2]

<https://github.com/pulp/pulpcore/blob/master/pulpcore/content/handler.py#L303>

#5 - 04/23/2020 06:13 PM - ipanova@redhat.com

makes sense to me, +1

#6 - 04/23/2020 11:12 PM - bmbouter

The proposed plan in Comment 4 would work and with what we have currently it's what I would recommend also. I want to propose an alternative for us to consider too.

What if we did these things?

1. Add a hook method to `BaseDistribution` named `content_handler()` which would provide a no-op as it's base functionality and return `None` by default. It would take `subpath` as the single param and that would be the url portion after the distribution's `base_path` (the remaining part).
2. In the content app just after the `Distribution` is matched and `permit()` is called we have the content app call this new `content_handler`. That would roughly be [here](#).
3. If the `content_handler(subpath)` returns a subclass of `aiohttp.web.Response(...)` then return that and don't continue to call the rest of the code in the content app.

Then the `RpmDistribution` would implement `content_handler(sub_path)` and if `sub_path == config.repo` it would return the dynamically generated repo file.

The reasoning for this idea is to keep the repo file handout near the repo itself. Users think of the repo as the distribution path, and this would keep them together.

#7 - 04/24/2020 11:45 AM - lieter

WIP PR opened at https://github.com/pulp/pulp_rpm/pull/1687

#8 - 04/24/2020 12:35 PM - dkliban@redhat.com

bmbouter That is a great improvement to the design. It removes the need to add a new URL for serving RPM content. [@lieter](mailto:lieter) what do you think about opening another PR against pulpcore with this new interface in `BaseDistribution` and a call to it from the `BaseHandler`?

#9 - 04/24/2020 12:53 PM - dkliban@redhat.com

- Subject changed from *RpmPublication should include a repo file that clients can use to configure yum/dnf* to *As a user, I can download a configuration for yum/dnf from an RpmDistribution*

#10 - 04/24/2020 12:57 PM - dkliban@redhat.com

I added a story for pulpcore to capture the requirements for that piece of the work.

<https://pulp.plan.io/issues/6570>

#11 - 04/24/2020 12:58 PM - dkliban@redhat.com

- Related to Story #6570: as a plugin writer, my custom content handler can handle requests for `CONTENT_PATH_PREFIX` added

#12 - 04/28/2020 09:43 PM - rchan

- Status changed from *NEW* to *ASSIGNED*

#13 - 04/30/2020 12:08 PM - dkliban@redhat.com

The public key is added to the Publication as PublishedMetadata. It's placed into the 'reodata' directory. I am not sure if that's the right path for this file though.

https://github.com/pulp/pulp_rpm/blob/master/pulp_rpm/app/tasks/publishing.py#L434

#14 - 05/01/2020 04:00 AM - dkliban@redhat.com

The signing service interface is not strong enough and allows creators of signing scripts to generate arbitrary names for public key files. We should improve this interface and enforce that the name of the public key file is public.key.

Until the interface is made stronger, we should document this requirement and the content_handler for RPM distribution should assume that the public key's relative_path is reodata/public.key.

#15 - 05/05/2020 09:55 AM - mdellweg

dkliban@redhat.com wrote:

The public key is added to the Publication as PublishedMetadata. It's placed into the 'reodata' directory. I am not sure if that's the right path for this file though.

https://github.com/pulp/pulp_rpm/blob/master/pulp_rpm/app/tasks/publishing.py#L434

You can specify whatever relative_path you desire, when creating the published metadata artifact. (relative_path="reodata/public.key") It should not matter at all what name the signing script chose. Also I believe the public key *should* be part of the distribution, since you probably do not want to invoke the signing script in the content handler.

#16 - 05/08/2020 08:16 PM - Anonymous

- Status changed from ASSIGNED to MODIFIED

- % Done changed from 0 to 100

Applied in changeset [6b3b149f69f94e9a2b65af7ab0fab848279eb4cf](#).

#17 - 06/09/2020 10:29 AM - ttereshc

- Sprint/Milestone changed from Priority items (outside of planned milestones/releases) to Pulp RPM 3.4.0

#18 - 06/09/2020 10:33 AM - ttereshc

- Status changed from MODIFIED to CLOSED - CURRENTRELEASE