Pulp - Story #4072

As a plugin writer I can have digest and size information validated and populated easily via a staticmethod

10/09/2018 05:36 PM - bmbouter

Status:	MODIFIED	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:	bmbouter	**% Done:**	100%
Category:		**Estimated time:**	0:00 hour
Sprint/Milestone:	3.0		
Platform Release:		**QA Contact:**	
Blocks Release:		**Complexity:**	
Backwards Incompatible:	No	**Smash Test:**	
Groomed:	No	**Verified:**	No
Sprint Candidate:	No	**Verification Required:**	No
Tags:		**Sprint:**	

Description

Problem

While making an upload API for pulp_ansible, I receive only a sha256 from the user to validate the uploaded data. To save an Artifact I need the other digests and the size. This causes me to manually compute all the digest info and perform any validation.

This is going to be a common problem for plugin writers receiving Artifact data and not using the downloaders, e.g. upload.

Solution

Add a static method to Artifact named create_and_validate that can create an in-memory Artifact from an on-disk asset with the following signature:

def create_and_validate(file, expected_digests=None, expected_size=None):

These params are the same type/names as the ones used by BaseDownloader here

Usage

For example I can call it with:

my_artifact = Artifact.create_and_validate('/path/to/file', expected_digests={'sha256': 'long_digest_value_goes_here'})

Exception Raising

If the sha256 doesn't match, I expect it to raise a DigestValidationError or a SizeValidationError, just like the downloaders. See this docstring:

```
            :class:`~pulpcore.plugin.download.DigestValidationError`: When any of the
                ``expected_digest`` values don't match the digest of the data passed to
                :meth:`~pulpcore.plugin.download.BaseDownloader.handle_data`.
            :class:`~pulpcore.plugin.download.SizeValidationError`: When the
                ``expected_size`` value doesn't match the size of the data passed to
                :meth:`~pulpcore.plugin.download.BaseDownloader.handle_data`.
```

^ is from here

Associated revisions

Revision 50251ae5 - 10/09/2018 09:07 PM - bmbouter

Make an Artifact from a PulpTemporaryUploadedFile

Adds the Artifact.create_and_validate staticmethod that creates an in-memory, unsaved Artifact from a PulpTemporaryUploadedFile. Uploaded files to Pulp show up with that type so that is convenient for plugin writers. Also as the file is received by Django it auto-computes all of the digest types.

This PR also moves SizeValidationError and DigestValidation error to pulpcore.exceptions instead of living in pulpcore.plugin.downloads.

The ArtifactSerializer is also exposed via the plugin API with this change also.

https://pulp.plan.io/issues/4072
closes #4072

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Revision bfe5efbc - 10/10/2018 10:57 PM - bmbouter

Allow Artifact init and validation from a file

There wasn't a way to have the upload handler involved so I had to open and compute the hashes manually.

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re #4072

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History

#1 - 10/09/2018 07:07 PM - bmbouter

- Description updated

Renaming to create_and_validate

#2 - 10/09/2018 07:21 PM - bmbouter

- Description updated

The Artifact needs to read from somewhere, so I added a 'file'.

#3 - 10/09/2018 08:47 PM - bmbouter

- Status changed from NEW to POST

- Assignee set to bmbouter

PR available at: https://github.com/pulp/pulp/pull/3704

#4 - 10/09/2018 09:32 PM - bmbouter

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100

Applied in changeset pulp|50251ae5dab13fab533f173250ce083bcb3bf6fd.

#5 - 10/10/2018 11:07 PM - bmbouter

- Status changed from MODIFIED to POST

#6 - 10/11/2018 10:25 PM - bmbouter

- Status changed from POST to MODIFIED

#7 - 04/25/2019 06:44 PM - daviddavis

- Sprint/Milestone set to 3.0

#8 - 04/26/2019 10:33 PM - bmbouter

- Tags deleted (Pulp 3)