

## Pulp - Task #8435

Task # 7960 (CLOSED - COMPLETE): FIPS and support for ALLOWED\_CONTENT\_CHECKSUMS

### Remove checksum filtering in Remote.get\_downloader and add checksum type enforcement to downloaders itself

03/22/2021 03:45 PM - bmbouter

<b>Status:</b>	CLOSED - CURRENTRELEASE	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	ipanova@redhat.com	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0:00 hour
<b>Sprint/Milestone:</b>	3.12.0	<b>Tags:</b>	
<b>Platform Release:</b>		<b>Sprint:</b>	Sprint 93
<b>Groomed:</b>	Yes	<b>Quarter:</b>	
<b>Sprint Candidate:</b>	Yes		

#### Description

#### Current behavior

1. The downloaders don't have any capability to only use those checksums that are in ALLOWED\_CONTENT\_CHECKSUMS. This usage happens [here](#).
2. The Remote.get\_downloader will filter out the checksums on an Artifact to only those that are allowed. That happens [here](#).
3. The DeclarativeArtifact.download also filters checksums. That occurs [here](#).

#### The First Issue

(1) is an issue because the downloaders can be used directly and as-is they won't respect the ALLOWED\_CONTENT\_CHECKSUMS feature.

#### Solution to the first Issue

The downloader code should be adjusted to only use those checksums in ALLOWED\_CONTENT\_CHECKSUMS. If any checksums are specified (trusted or not), at least one trusted hasher must be available or an exception should be raised. If no checksums are requested the downloader should be allowed to proceed because some content does not have checksums, e.g. the very first metadata file fetched, or ruby content.

#### The second problem

By (2)(3) filtering out checksums, it could misrepresent the set of checksums to the downloader as being an empty set when really checksums exist but no trusted checksums exist.

#### Solution to the second problem

Remove the filtering done in Remote.get\_downloader and DeclarativeArtifact.download. Instead have it pass all original checksums unmodified to the downloader.

#### Associated revisions

Revision 0ab6e8c1 - 03/24/2021 09:56 PM - ipanova@redhat.com

Added checksum type enforcement to the BaseDownloader.

closes #8435

#### History

#1 - 03/22/2021 03:45 PM - bmbouter

- Subject changed from Remove checksum filtering that happens prior to checksums being passed to downloaders to Remove checksum filtering in

Remote.get\_downloader and add checksum type enforcement to downloaders itself

**#2 - 03/22/2021 05:14 PM - bmbouter**

- Description updated

**#3 - 03/22/2021 05:19 PM - daviddavis**

- Tracker changed from Issue to Task

- % Done set to 0

- Severity deleted (2. Medium)

- Triaged deleted (No)

- Groomed changed from No to Yes

- Sprint Candidate changed from No to Yes

- Sprint set to Sprint 93

**#4 - 03/23/2021 05:23 PM - ipanova@redhat.com**

- Status changed from NEW to ASSIGNED

- Assignee set to ipanova@redhat.com

**#5 - 03/24/2021 03:43 PM - pulpbot**

- Status changed from ASSIGNED to POST

PR: <https://github.com/pulp/pulpcore/pull/1207>

**#6 - 03/24/2021 09:57 PM - ipanova@redhat.com**

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100

Applied in changeset [pulpcore|0ab6e8c108f31a3691d0b07d50fa258a46174994](#).

**#7 - 04/08/2021 10:56 PM - pulpbot**

- Status changed from MODIFIED to CLOSED - CURRENTRELEASE