

Pulp - Story #9148

Task # 9256 (NEW): [EPIC] Use shared task resources in plugin code

As a plugin writer i want to be able to share task resources for reading

07/27/2021 01:18 PM - mdellweg

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:	mdellweg	% Done:	100%
Category:		Estimated time:	0:00 hour
Sprint/Milestone:	3.15.0	Tags:	Performance
Platform Release:		Sprint:	Sprint 103
Groomed:	No	Quarter:	
Sprint Candidate:	No		
Description			
The tasking system should be able to allow resources to be shared between tasks if only read access is requested.			
The following design should allow to implement this without a migration and in a backwards compatible way:			
<ul style="list-style-type: none">• reuse the reserved_resources_record ListField shared resources will be prefixed by "shared:" exclusive resources will be used as is• dispatch will add another parameter "shared_resources" in a backwards compatible way• workers will augment the list of in_use_resources with a flag if any previous task requested a resource exclusive			
Note: shared access that was scheduled after exclusive access still needs to wait. That is, one task requesting exclusive access to a resource will introduce a barrier for all other tasks requesting the same resource in any way.			
https://hackmd.io/Y0l9nBm9SFmPiIBXBz8lwQ?view#Idea-Example-with-shared-and-exclusive-locks			
Related issues:			
Related to RPM Support - Story #9255: As a user, copy tasks which have the sa...		CLOSED - CURRENTRELEASE	

Associated revisions

Revision 66744406 - 08/19/2021 11:50 AM - mdellweg

Add shared_resources to task dispatch

This allows tasks that use overlapping resources read only to run concurrently. A setting ALLOW_SHARED_TASK_RESOURCES has been added to switch it on.

fixes #9148

History

#1 - 07/27/2021 03:39 PM - ipanova@redhat.com

- Description updated

#3 - 07/28/2021 12:55 PM - mdellweg

- Status changed from NEW to ASSIGNED

- Assignee set to mdellweg

#4 - 07/28/2021 01:01 PM - pulpbot

- Status changed from ASSIGNED to POST

PR: <https://github.com/pulp/pulpcore/pull/1526>

#5 - 08/17/2021 06:15 PM - dalley

- Sprint/Milestone set to 3.15.0

- Sprint set to Sprint 103

#6 - 08/18/2021 11:53 AM - pulpbot

PR: <https://github.com/pulp/pulpcore/pull/1556>

#7 - 08/19/2021 11:50 AM - mdellweg

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100

Applied in changeset [pulpcore|66744406b7b2f991a6137ca8d9ec8798a91274b2](#).

#8 - 08/19/2021 01:23 PM - ttereshc

- Related to Story #9255: As a user, copy tasks which have the same source repos are run in parallel added

#9 - 08/19/2021 01:34 PM - mdellweg

- Parent task set to #9256

#10 - 08/26/2021 02:36 PM - pulpbot

- Status changed from MODIFIED to CLOSED - CURRENTRELEASE