

Don't get stuck on Pulp 2!


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Why to migrate to Pulp 3



- Pulp 2 EOL - next year
- Newer technology stack
- Simpler architecture
- More content plugins
- Better performance
- Easier to administrate
- Easier to write your own plugin

How to migrate

- Manually
 - Create and configure repositories in Pulp 3
 - Sync from Pulp 2 or a remote repo
 - Might be fine for small and simple setups
- Automagically 
 - Install and use Pulp 2to3 Migration plugin
 - Good for any setup, especially for a large one

Migration plugin

- pulp-2to3-migration (Pulp 3 plugin)
 - Pulp 3.7+
 - Pulp 2.21.5
- Supported content plugins
 - Pulp 2 ISO ⇒ Pulp 3 File
 - Pulp 2 Docker ⇒ Pulp 3 Container
 - Pulp 2 RPM ⇒ Pulp 3 RPM
 - Pulp 2 Deb ⇒ Pulp 3 Deb (tech preview)

Prerequisites

- Pulp 3 (can be on the same machine as Pulp 2)
- Pulp 3 content plugin(s) of interest
 - Installed but not used
- Access to the Pulp 2 database
- Access to `/var/lib/pulp`

Migration plan

- Migrate one or more plugins at a time
- Simple plan
 - Migrate everything for a plugin X
- Complex plan
 - More flexibility
 - Migrate a subset of repositories for a plugin X
 - Migrate repositories into multiple repository versions

Demo

Migration process



- Pre-migration
- Migration
- Hard links when possible
- Repository creation in parallel, scale with # of workers
- Re-run as many times as needed with Pulp 2 on
- Last run with Pulp 2 off, before switching to Pulp 3

Auxiliary features

- Mapping for Pulp 2 and Pulp 3 resources
- Mapping for Pulp 2 and Pulp 3 content
 - Useful for troubleshooting
- Validation of a Migration Plan
- Reset Pulp 3 data per content plugin
- Skipping corrupted Pulp 2 content
- [planned] Migration plugin removal and its data

Storage

- Hard link support - no extra storage for content
- Extra storage for the migrated repository metadata
 - 2x the size of /var/lib/pulp/published
 - RHEL7 ~ 100MB
 - Medium size installation (1000 repos, mostly RPM repos) - 9.5 GB

Database

- 70-80% the size of Pulp 2 MongoDB
 - with migration data
- 20-30% the size of Pulp 2 MongoDB
 - without migration data
 - after switching to Pulp 3 and removing pulp-2to3-migration plugin data

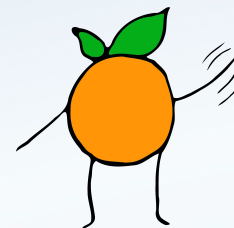
Not migrated

- Global settings
- RBAC
- Protection configuration for repositories
- Config options which are not in Pulp 3
- Pulp 2 only features
 - e.g. consumer management

Let us know if you lack anything in the Migration plugin.

Questions?

- <http://pulpproject.org/>
- <http://github.com/pulp/>
- IRC Freenode or matrix.org
 - #pulp
 - #pulp-dev
- mailing lists
 - pulp-list@redhat.com
 - pulp-dev@redhat.com



THANK YOU!