mgr - Feature #37530

mgr/dashboard: Feature toggles

12/05/2018 06:56 PM - Ernesto Puerta

Status:	Resolved	**% Done:**	80%
Priority:	Normal		
Assignee:	Ernesto Puerta		
Category:	dashboard/general		
Target version:	v14.0.0		
Source:		**Reviewed:**	
Tags:		**Affected Versions:**	
Backport:		**Pull request ID:**	26102

Description

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- Provides support for disabling/enabling *features* from the Ceph-dashboard by means of configuration changes.
- In this context *features* should be primarily considered from UI perspective and include at least:
  - Single components (e.g.: iSCSI)
  - *Optionally*: Sets of related components (e.g: RBD comprising Images, Mirroring & iSCSI). This could also be enabled/disabled on a per-component basis.
- Takes precedence over Role Based Authorization: features are either enabled/disabled for all users.
- No need for an instant effect: a Ceph-mgr or module reload could happen if needed. However, no code changes or builds should be needed.
- No need to disable back-end functionality too.

User Stories

Feature toggles bring in benefits for a lots of user personas:

- As a System Administrator I want to disable Ceph components I don't have deployed (e.g: iSCSI) so that the dashboard only reflects the relevant information and workflows.
- As a Ceph Distributor, I want to disable Ceph elements I don't support (e.g.: CephFS).
- As a Back-end Developer I want to disable a new experimental feature so that I don't break/interfere with other ongoing developments, or deployments.
- As a UI/UX Designer I want disable an improved feature so that I can run an A/B test to quickly gather feedback from the same build.

References

- [Feature Toggles by Martin Fowler](#)

Implementation tips

- Ceph-mgr [config options](#) provide an easy (CLI) way to set/unset settings.
- Options names can describe component hierarchies: RBD enables/disables RBD_IMAGES, RBD_MIRRORING, RBD_ISCSI.
- For a front-end only feature toggle, there's a [PR ongoing](#) providing a SettingsService for accessing Ceph-Mgr Config Options.
- For a back-end support, it should be easy to extend the ApiController/RESTController for enabling/disabling them.

Related issues:

Related to mgr - Cleanup #38259: mgr/dashboard: replace pluggy lightweight im...	**New**	**02/11/2019**

History

#1 - 12/05/2018 07:28 PM - Ernesto Puerta

Feedback from the F2F meeting:

> Feature status indicators

- Features added to Ceph may not be supported by either SuSE or Redhat, so this discussion centers on how/if preview features should have some indicator in the UI to warn the admin.

- It's also important to ensure that if this path is adopted, each downstream vendor can select which features are viewed as not GA/supported
- Suse: support everything in the UI/CLI when it's shipped but no message is shown to indicate if something is Tech Preview
- Do we want to hide those elements?
- BlueStore, CephFS snapshots did have a warning that it was experimental - CLI emitted a warning
- "Allow experimental" setting to expose experimental features
- Do we similarly want to enable / disable other features (e.g. RGW, RBD, etc.)?
- Showing/hiding functionalities could be done via setting the user permission. The question is if the user permission can be applied to features that are declared as experimental
- If the permissions for a module are removed it means they are removed from the front-end and the REST API
- How granular would it be? E.g. a feature within RBD
- Extend and show experimental info in the About modal?

#2 - 12/05/2018 07:30 PM - Ernesto Puerta

- Description updated

#3 - 12/05/2018 07:31 PM - Ernesto Puerta

- Subject changed from Feature toggles to mgr/dashboard: Feature toggles

#4 - 12/11/2018 12:55 PM - Ernesto Puerta

- Assignee changed from Kanika Murarka to Ernesto Puerta

#5 - 12/20/2018 09:43 AM - Ernesto Puerta

- Status changed from New to In Progress

#6 - 01/16/2019 03:03 PM - Ernesto Puerta

- Pull request ID set to 25665

#7 - 02/05/2019 07:23 PM - Ernesto Puerta

- Pull request ID changed from 25665 to 26102

#8 - 02/05/2019 07:23 PM - Ernesto Puerta

- Status changed from In Progress to Fix Under Review

- % Done changed from 0 to 80

#9 - 02/11/2019 03:13 PM - Lenz Grimmer

- Status changed from Fix Under Review to Resolved

#10 - 02/11/2019 04:11 PM - Lenz Grimmer

- Related to Cleanup #38259: mgr/dashboard: replace pluggy lightweight implementation with packaged one added