

Dashboard - Feature #24763

Feature # 40907 (New): mgr/dashboard: REST API improvements

mgr/dashboard: Automatic generation of REST API documentation based on Python docstrings

07/04/2018 07:42 AM - Ricardo Dias

Status:	Resolved	% Done:	100%
Priority:	Normal	Spent time:	0.00 hour
Assignee:	Tina Kallio		
Category:	dashboard/general		
Target version:	v14.0.0		
Source:		Reviewed:	
Tags:	dashboard, swagger, openAPI, python	Affected Versions:	
Backport:		Pull request ID:	26227

Description

In the current implementation of the Ceph-Dashboard we already generate a Swagger-UI page with the available REST API endpoints that are implemented in the dashboard backend. This generation is automatic and it's done when the dashboard module starts.

The REST API endpoints correspond to Python class methods decorated with `@Endpoint`, and, in the special case of the REST controllers, correspond to the following class methods: `list`, `create`, `get`, `set`, `delete`, `bulk_set`, `bulk_delete`.

The objective of this feature is to parse the docstrings of the endpoint methods and add these to the Swagger-UI page to document each endpoint.

We could also agree on a particular python docstring format to allow the specification of the parameters types and return types and add also add that information to the Swagger-UI page.

Related issues:

Related to Dashboard - Bug #40027: mgr/dashboard: REST API: OpenAPI docs requ...

Closed

History

#1 - 07/04/2018 12:00 PM - Lenz Grimmer

- Assignee deleted (Lenz Grimmer)

#2 - 11/19/2018 08:23 AM - Lenz Grimmer

- Assignee set to Tina Kallio

- Target version set to v14.0.0

#3 - 12/19/2018 02:41 PM - Tina Kallio

There is no suitable off-the-shelf parser that can be used to accomplish this.

Another way to obtain information for the documentation directly from the code is to use annotations and decorators. This approach will be used instead.

However, function annotations can not be used since it is not compatible with Python2.

It is desirable but not mandatory that the solution includes responses.

#4 - 01/31/2019 02:43 PM - Tina Kallio

WIP PR: <https://github.com/ceph/ceph/pull/26227>

#5 - 01/31/2019 03:00 PM - Lenz Grimmer

- Pull request ID set to 26227

#6 - 01/31/2019 03:00 PM - Lenz Grimmer

- Status changed from New to Fix Under Review

#7 - 02/13/2019 11:35 AM - Lenz Grimmer

- Subject changed from dashboard: Automatic generation of REST API documentation based on Python docstrings to mgr/dashboard: Automatic generation of REST API documentation based on Python docstrings

#8 - 03/04/2019 11:53 AM - Tina Kallio

- Status changed from Fix Under Review to Resolved

- % Done changed from 0 to 100

Fix with PR <https://github.com/ceph/ceph/pull/26227>

#9 - 07/12/2019 04:26 PM - Lenz Grimmer

- Related to Bug #40027: mgr/dashboard: REST API: OpenAPI docs require internet connection added

#10 - 09/23/2020 02:11 PM - Alfonso Martínez

- Parent task set to #40907

#11 - 04/15/2021 05:26 PM - Ernesto Puerta

- Project changed from mgr to Dashboard

- Category changed from dashboard/general to dashboard/general