

## Dashboard - Feature #46501

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

### mgr/dashboard: evaluate FastAPI

07/13/2020 03:01 PM - Ernesto Puerta

<b>Status:</b> New	<b>% Done:</b> 0%
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> General - Back-end	
<b>Target version:</b>	
<b>Source:</b>	<b>Reviewed:</b>
<b>Tags:</b>	<b>Affected Versions:</b>
<b>Backport:</b>	<b>Pull request ID:</b>
<b>Description</b>	
<p>This recent framework, <a href="#">FastAPI</a>, could well suit all the needs we have for Ceph API:</p> <ul style="list-style-type: none"><li>• Typed (Python hints from Pydantic)</li><li>• OpenAPI spec generation from Python type hints.</li><li>• Lightweight.</li><li>• Fully asynchronous (ASGI), vs. Synchronous Cherrypy (WSGI). It natively supports <a href="#">Websockets too</a>.</li><li>• Similar syntax to our custom implementation (Flask-like).</li></ul> <p>Cons:</p> <ul style="list-style-type: none"><li>• Most distros don't package it or its major dependencies (Pydantic, Starlette).<ul style="list-style-type: none"><li>◦ A containerized deployment could work, but that would first require to change the way of interacting between ceph-mgr and mgr modules (containers IPC/shared memory?).</li></ul></li></ul>	
<b>Related issues:</b>	
Related to Dashboard - Feature #46423: mgr/dashboard: Python runtime typecheck...	<b>New</b>

### History

#### #1 - 07/13/2020 03:02 PM - Ernesto Puerta

- Related to Feature #46423: mgr/dashboard: Python runtime typechecking framework added

#### #2 - 07/13/2020 03:02 PM - Ernesto Puerta

- Parent task set to #40907

#### #3 - 04/15/2021 05:04 PM - Ernesto Puerta

- Project changed from mgr to Dashboard

- Category changed from 146 to General - Back-end