

Monitoring issues during the first week of beam

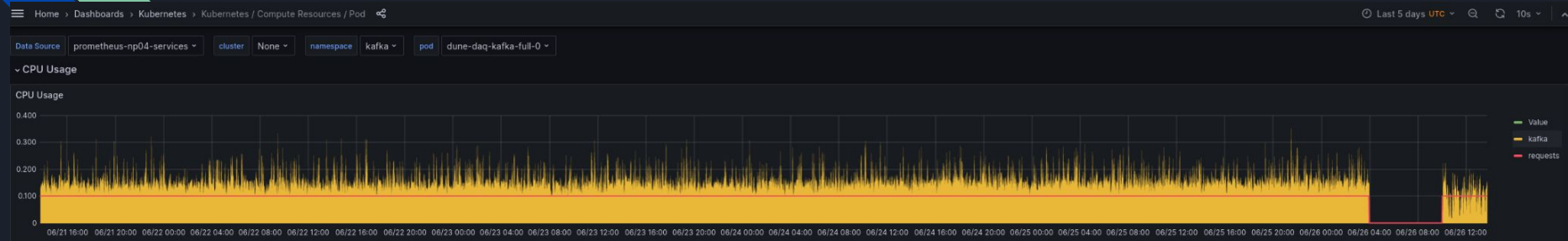
Marco Roda



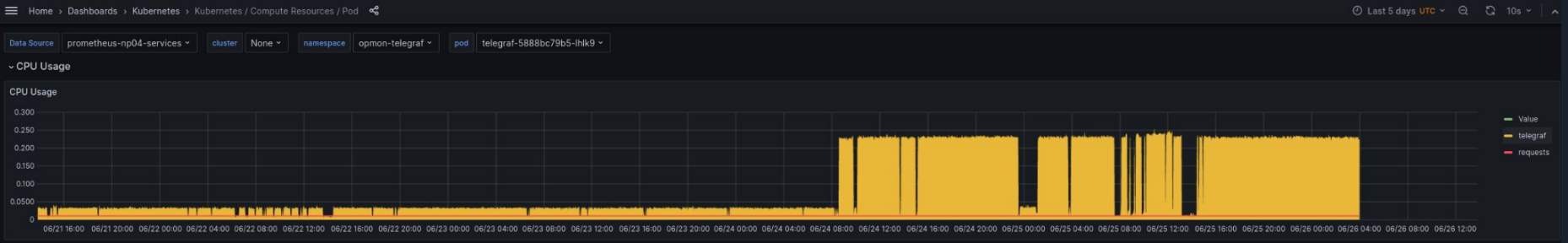
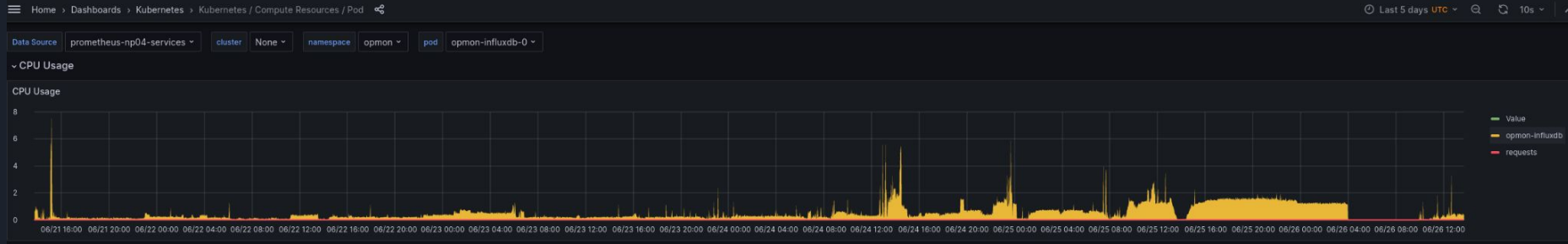
High rate monitoring for CTB

- With a 10s `opmon_interval` we could not resolve the beam spill
 - Being able to see this was requested from operations
 - Beam spill ~ 4s
- We experimented a bit during the beam time
 - since Monday we are running with `opmon_interval = 1s` for the DAQ applications
 - That is the granularity we can have at the moment
 - No impact on performance
 - Kafka, influx and grafana didn't show any change in behaviour
 - Only difference visible in the `opmon_microservice` where the CPU consumption increased
 - Increase in CPU usage less than expected from a 10 times increase in the rate

Plots - not affected: kafka, grafana



Plots - Affected: mostly telegraf, a bit influx





daqconf changes

- I made a PR on daqconf to expose the control of the `opmon_interval`
 - PR approved and merged
- We plan to run with `opmon_interval = 1s` on all the DAQ applications for the whole beam
 - DAQ applications excludes controller applications like `wibs`, `daphne`, etc
- We will need to change the `np04-configs`



Implication for opmon_level

- Targeting monitoring opened a quick discussion with Alessandro
 - Summary being: we don't have a clear plan on the opmon_level
- This is true for the current system
 - But also true for the new system where we will have more publishing possibilities
- Discussion is not for now but this is a reminder that we don't have a clear idea
 - This issue of the high rate monitoring is a possible usage case
 - Do we have any others?



opmonlib API status

- Eric approved the first draft of the API
- I haven't merged yet, first I'll discuss with Roland
- Once that is done and merged
 - I will tag opmon - a tag unrelated to the release but necessary to start creating docker images
 - The new image will contain the opmon schema
 - Then I'll move on to a draft of the microservice for the new stream
 - Initial draft will be a python microservice
 - But we will probably explore the telegraf option too