Database Monitoring

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DUNE Database Monitoring

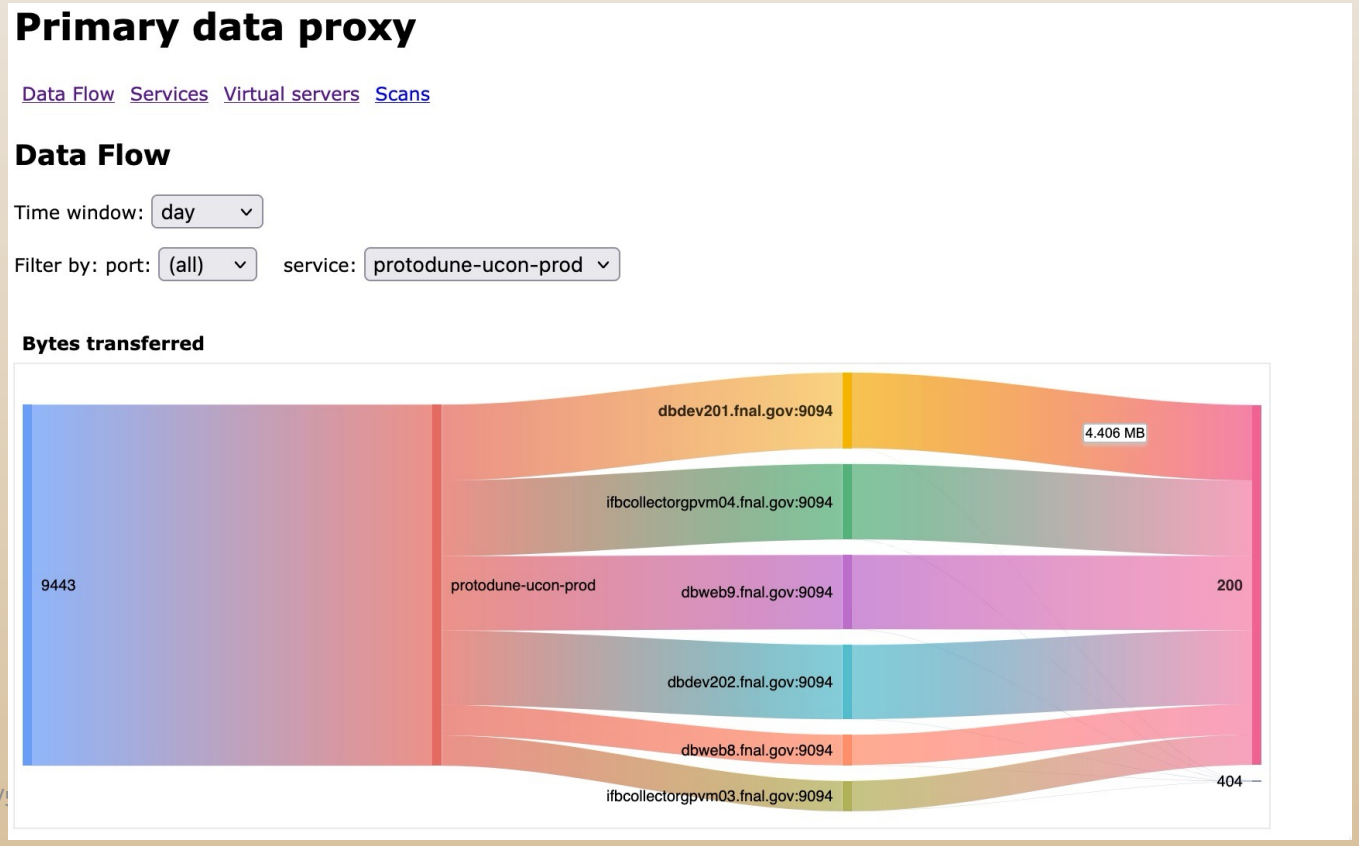
- DB Monitoring
  - As with other computing services – eg. job management/progress – the database system should be monitored
  - Front end
    - Is the conditions DB up and available
    - Is the condb synced to the ucondb
    - Query rate, query time
  - Back end
    - Connections between backend dbs and ucondb
    - Errors from any backend db (corruption, crashes, etc…)
    - Errors from APIs
- Automated messaging
  - System issues should be reported to experts (Ana Paula and me, at least)
  - Logging and plots

DUNE Database Monitoring

- Shifter feedback
  - Should DB plots or other monitoring be part of CR shifter monitoring?
  - Alarms from DB system?
  - Will there be offline shifters independent from CR shifts?
- Timeline
  - Unlikely we will have anything new, beyond what is already available, for this run of ProtoDUNE.
  - For DUNE we have more time to converge on approach.
  - Right now we have several other pressing projects that need effort but we need to start planning for monitoring and deciding on what approach to go with.

DUNE Database Monitoring

- Existing monitoring
  - There is some monitoring in place but we have not been utilizing it
  - As far as I know, no messaging
  - Need to explore level of detail available



Monitoring Workshop

Scientific Computing Monitoring Workshop

Wednesday Jul 24, 2024, 8:00 AM → 4:15 PM America/Denver

Kevin Retzke (FNAL)

Description

This workshop will provide Fermilab staff and users an overview of the current state of Scientific Computing Monitoring, the types of data that are collected, and how to interact with that data. There will also be advanced tutorials on how to instrument applications and services. We will discuss the current direction and trends in monitoring, and garner feedback to help shape the future roadmap.

It is expected that the morning session will be of general interest to users and CSAID staff alike, while the afternoon session will be more geared towards service providers/staff, although users who are interested in developing custom monitoring for their collaboration are welcome as well.

Sessions will be hybrid, with location onsite at Fermilab (see session details - NB: different rooms for morning and afternoon) and Zoom (connection info in email announcement). Timetable is developing and subject to change.

Sessions will be recorded and posted in Teams/Sharepoint, with links added here when available.

Workshop focused on Landscape, which grew out of FIFE batch monitoring.

Landscape seems to be fairly feature-laden and may be an option for the database system, but we need to determine what exactly we want for monitoring and then talk with the Landscape people to see if it will do what we want.