LDMS USER GROUP MEETING

January 27, 2025

Agenda

- V4.4.5 Release Update
- Stream Authentication Workgroup Updates
- Curated Metric Updates
- Q&A

Release v4.4.5 Updates

- Testing Progress
  - YAML Parser
    - 4 bug fixes (PRs merged)
    - 2 in progress (PRs 1589 and 1591) – Testing in progress
  - Resiliency Testing
    - Race condition identified
    - Fix submitted (PR 1590 merged)
- Release target: End of next week

Stream Authentication Workgroup – Updates

- Meeting summary sent out last Friday
- Key Discussion Points
  - Introduction to LDMS Stream in v4.5+
  - Differences between Stream in v4.4.* and v4.5.+
    - No configuration changes are required to transition from v4.4 to v4.5
    - APIs are completely changed from ldmsd_stream_* to ldms_stream_*with more capabilities
  - Additional security and functionality requests

Stream Authentication Workgroup – Updates (cont.)

OGC

Sandia National Laboratories

- Next meeting
  - This Thursday, Jan 30
  - 9 AM - 10:30 AM PT
  - Zoom link has been sent out with a calendar invite and included in the meeting note email.
- Tentative Agenda:
  - Stream ACL configuration example(s) (Chris)
  - Stream functionality and naming
  - Filtered subscription by producers, UID, GID
  - Stream message routing design (targeted clients)
  - Connection authorization mechanism discussion (if time allows)

Curated Metrics Meeting Updates

- Initial list of curated metrics sent out on Jan 16
  - https://docs.google.com/document/d/1gr_dG6PqEf3Q5sGib_dA3bCUsVXY0nwJAGHjDFlfiSg/edit?usp=sharing
- In the meeting on last Thursday:
  - Reviewed the initial list
  - Added additional metrics
  - Provide per-node job tag to facilitate analysis per job, especially for multi-tenancy environments
  - Curated metrics should be universal and not specific to a file system or specific to a transport type

Curated Metrics Meeting Updates (cont.)

- Next Steps:
    - Tom will go through the modified list and fill in more details
    - We will send out the list when it's ready
    - After reviewing the modified list, the group will determine if another meeting is needed

Q&A

Stream:

- Tom, Jim, and Ben A agreed that the utility command `ldmsd_stream_publish` should use `libldmsd_stream` library APIs and add a new command `ldms_stream_publish` that uses the new `libldms_stream` library APIs
  - Tom proposes to provide the current `libldmsd_stream` functionalities concurrently with the new `libldms_stream` when v4.5.1 has been released so users have a period of time to transition
  - Prevent version incompatibility Stream communication
    - `ldmsd_stream_publish` using the new `libldms_stream` APIs won't be able to publish to a daemon that uses `libldmsd_stream` APIs

Q&A

Stream (cont.):

- Chris pointed out that there are exported Stream and ARVO-related APIs that do not prepend with `ldms_`
- John requests a clear path on how to transition from v4.4 to v4.5
  - Whether Stream work with mixing ldms daemons from v4.4.* and v4.5.+
- John has a use case that users publish streams
  - On v4.4.*, users can publish streams without additional authentication. He requests any new security features in v4.5.+ be transparent to maintain the current workflow

Thank you!