

LDMS USER GROUP MEETING

December 16, 2024

Agenda

- v4.4.5 Release Status
- Stream Resolution for v4.4.5
- Future Plans: Stream in v4.5
- Announcements
- Q&A

Release v4.4.5 Updates

- Pending patch
 - Format of 'perm' inputs in YAML configuration file:
<https://github.com/ovis-hpc/ldms/issues/1555>
- Resolved
 - Stream default behavior (details follow)

Stream Resolution in v4.4.5 – Recap

- Publishers and subscribers require authentication
- Authenticated publishers can publish to any Stream
- Only the **ldmsd** owner can access Stream data, regardless of publisher
- If **ldmsd** is owned by **root:root**, only **root:root** can access stream data

Stream Resolution in v4.4.5 – Resolutions

- Stream are enabled by default
 - Preserves compatibility with existing configurations
 - No changes needed for current Stream users
- `stream_disable` config command is added to disable Stream
 - Support in both configuration files and `ldmsd_controller`
- Important note:
 - Once disabled, Stream cannot be re-enabled without restarting the daemon
- To enable Stream after disabling,
 - Remove `stream_disable` from configuration files
 - Restart `ldmsd`

Stream in v4.5

- New Stream APIs and functionalities were introduced, `ldms_stream`
 - In v4.4, it is `ldmsd_stream`
- `ldms_stream` has enhanced security model:
 - Use UID, GID, and perm for access control
 - Publishers and subscribers require authentication when authentication is used
 - Publishers can specify 'perm', e.g., 0400
 - Subscribers can subscribe to any Streams, but will only get the allowed Stream
 - `root` can access to all Streams regardless of permissions
- Active discussion and proposal:
<https://github.com/ovis-hpc/ldms/discussions/1548>
 - Stream authorization improvements
 - Remove `ldmsd_stream` APIs from v4.5?
 - Add the enable/disable configuration commands to v4.5

Stream in v4.5 – Stream Workgroup

- Propose to spin off the Stream Workgroup
- Workgroup objectives
 - Identify required Stream authorization improvements
 - Decide on removing `ldmsd_stream` APIs
- Participants
 - Current Stream users
 - Users of `ldmsd_stream` APIs
 - Potential Stream users
- Timeline
 - Start after New Year
 - Biweekly meetings alternating with User Group meetings?
 - First meeting on Jan 20?

Announcements

- No meeting on December 30
- Next meeting will be on January 13

Q&A



Thank you!