LDMS USER GROUP MEETING

December 2, 2024

Agenda

- Release v4.4.5 updates
  - Pending & deferred changes
  - Merged changes (non-comprehensive)
- Enable/disable Streams in v4.4.5
- Q&A

Release v4.4.5: Pending & Deferred Changes

- Defer adding new aliases of the 'interval' attributes, e.g., 'reconnect_interval', 'sample_interval', and 'update_interval'
  - This avoids disrupting existing scripts with warnings about 'interval' and 'reconnect' deprecation
- YAML Support
  - All comments and concerns have been addressed
  - The patch is ready for merging

Release v4.4.5: Merged Changes

- Moved hostname resolution to the connect path so that resolution failure will be retried at the producer reconnect interval
- Removed the -t cmd-line option
  - -t: truncate the existing log file
- Added validity check on set names
  - Invalid characters:
    - Control characters
    - Double quote (")
    - Single quote (')
    - Backslash (\)
    - Character values above 127

Release v4.4.5: Merged Changes (cont.)

Sampler Plugins

- rdc_sampler: build and build configuration improvement
- blob_stream_writer: prevent from creating empty files at rollover
- slurm_notifier: prevent slurm_notifier from delivering events on error clients, resulting in crashing slurmstepd by removing the error clients from its stream client list
- slingshot: modified the plugin such that metric sampling errors will not disable/stop the sampler

Storage Plugins

- Prevent store_sos from raising assertions when type mismatches occur

Release v4.4.5: Merged Changes (cont.)

Decomposition and Operator Decomposition Updates

- Static Decomposition bug fixes:
  - Handle column types when types not specified in the configuration
  - Use zero as the default 'fill' value
- Operator Decomposition bug fixes:
  - Handle errors when 'group' not specified
  - Prevent overflow/underflow of the 'mean' calculation
  - Clean up Row Cache according to a configurable timeout

Enable/Disable Streams

Issue 1527: https://github.com/ovis-hpc/ldms/issues/1527

Background:

- Chris has raised concerns about Stream authorization in v4.4.5
- In v4.4.5, all authenticated connections can publish data to any streams, but only processes with the same UID or GID as ldmsd's can subscribe to streams.

Proposed changes to v4.4.5:

- Add a configuration command to enable/disable Streams
  - Should Streams be disabled by default?
- Document how Streams work and state a warning "All authenticated users are permitted to publish to any stream"

Questions for v4.5.1:

- Should the 4.4.5 Streams API be removed from 4.5.1 to avoid confusion?

Q&A

Thank you!