LDMS USER GROUP MEETING

May 6, 2024

Agenda

- v4.4.3 release update
- LDMSCON2024 – Program updates
  - Panel
  - Focus Groups

v4.4.3 Release Update

- We are in the testing phase.
- We pushed the release out a week (May 10th).

Questions on Current Deployment or Code Issues

LDMSCON2024 Program – Panel Discussion

"Understanding HPC Performance: Deploying LDMS and Leveraging Monitoring Data"

- The discussion will explore:
  - **Data Collection Strategies**:
    - Learn best practices for efficiently collecting data, using LDMS, within HPC environments.
  - **Troubleshooting HPC Performance Issues**:
    - Discover how LDMS data can be utilized to troubleshoot system and application performance issues.

LDMSCON2024 Program – Focus Groups

What are Focus Groups?

- Interactive, small groups where you'll gain hands-on experience
- Work with peers and facilitators on a specific topic
- Deepen your understanding by applying knowledge to real-world problems
- Occur concurrently with some tutorials/demonstrations/presentations

OGC

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LDMSCON2024 Program – Focus Groups

Get the Most out of Your Focus Groups

- Select up to 4 preferred groups (rank them 1-4)
- Prepare a brief description of your challenges (for each chosen group)
- This information helps facilitators tailor the experience for your benefit

LDMSCON2024 Program – Focus Group Topics

- Provisioning LDMS:
  - Determine the resources you need to set up LDMS monitoring nodes
  - Get hands-on experience with provisioning best practices
- Using LDMS data to troubleshoot applications or system performance:
  - How to utilize monitoring data to draw a baseline, identify anomalies, and find performance bottlenecks
  - Develop troubleshooting strategies based on LDMS data analysis
- Developing Programs that utilize LDMS Stream APIs:
  - Implement an executable or a software component that publishes or receives LDMS stream data
  - Write code that interacts with the LDMS stream API

LDMSCON2024 Program – Focus Group Topics

- Creating Maestro Configuration Files:
  - Using Maestro for LDMS configuration and load-balancing
  - Develop and deploy Maestro configuration files for your specific needs
- Sampler Plugin Implementation:
  - Develop a custom sampler plugin to address your unique data collection requirements
- Decomposition Configuration and Deployment:
  - Using LDMS's set decomposition to customize how you store LDMS sets
  - Configure and deploy a decomposition strategy for optimal data management
- Distributed SOS Querying API:
  - Query data from a SOS or dSOS database for data analysis and data visualization
  - Utilize the API to access stored LDMS data to develop applications that leverage distributed querying capabilities

LDMSCON2024 Program – Focus Group

- Sign up:
  - A sign-up link will be sent via emails together with each focus group information and sign up instructions.
- Confirmation:
  - Focus group leads will contact participants with the time and date the group will meet during the conference by June 7.

Q&A and Discussion

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