EIC PD Computing and Software Services I: Control and Monitoring Services

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on behalf of the Scientific Computing & Data Facility (SCDF)
and other collaborators

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Disclaimer

This work is the sum of many efforts in and without our organization; only the details of those directly related to this PD, and who have reported their efforts here, are included in detail. Apologies to those whose efforts are not mentioned.

This work is evaluatory in nature and still in development. As such, much of the technology is not yet available outside the working group or for wider testing.

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Monitoring technology updates

System logging
- New containerized logging infrastructure online in parallel with existing logging for full stress testing (R. Hancock)
  - Pod storage provided by NVME/tcp XFS volumes in VAST Data appliance

Lustre monitoring
- Lustre exporter migrated from local Prometheus to central Victoria Metrics instance (Z. Yang)
- Victoria Metrics scraping Lustre servers for exporter data (J. Leonardi, Z. Yang)
- Grafana dashboards being updated to pull metrics from new data source (Z. Yang)
- Loki service output migrated to Victoria Logs (Z. Liu)
- New dashboards for syslog monitoring & error logs; new alerts for unavailable OSTs and client evictions (Z. Liu)

Opensearch
- New containerized instance being built, deployed to OpenShift (L. Pelosi)

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