



Contribution ID: 24

Type: **not specified**

Document oriented database infrastructure for monitoring HEP data systems applications

Thursday, 15 October 2015 14:00 (20 minutes)

Within the High Energy Physics (HEP) software infrastructure a diverse Data storage and Distribution software technologies are used. Despite their heterogeneity they all provide a capability to trace application event data to be able to troubleshoot problems related to the software stack or software usage. The subsequent data is written once and stored in the majority of cases in a file, commonly known as log file, for posterior analysis. An open source infrastructure to collect, store in a document oriented type database, and visualize data processed from the application log files is explored in this presentation. Experience in deploying the ELK (Elasticsearch, Logstash and Kibana) framework applied to a data storage technology is summarized.

Length of presentation (max. 20 minutes)

20

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Session Classification: Basic IT Services

Track Classification: Basic IT Services