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Utilizing the ELK Stack for Controls Logging at APS

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The ELK stack (Elasticsearch, Logstash, and Kibana) is a powerful open-source suite of tools widely used for real-time log aggregation, analysis, and visualization. At the Advanced Photon Source (APS), the Controls group employs the ELK stack to enhance debugging, diagnostics, and usage tracking of EPICS IOCs. ELK enables us to efficiently collect, store, and analyze EPICS ioc error logs and caput logs from multiple sources, providing a unified and web-based platform for real-time data interpretation and analysis. This talk will cover the core concepts of the ELK stack, its key advantages, and how the Controls group integrates ELK into our daily operations to streamline debugging, diagnostics, and usage tracking processes.

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