



Debugging FTS transfers and potential improvements

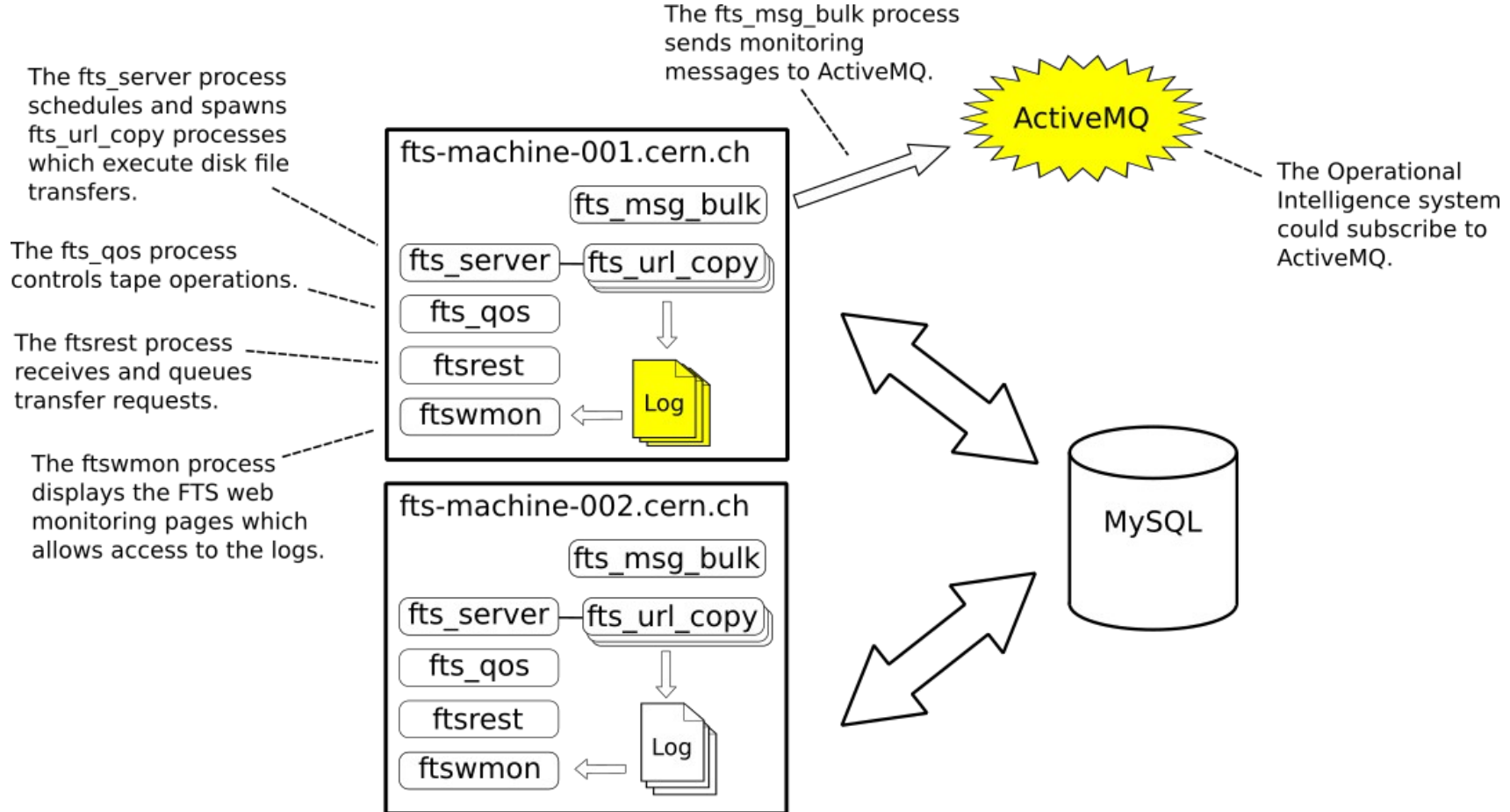
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What The File Transfer Service (FTS) does

- **Queues client requests to copy files from one storage end point to another.**
- **Schedules and executes file transfers in order to maximise the throughput between different source and destination end points.**
- **Hides the complexity of transfers involving various storage implementations and multiple protocols across the Grid.**
- **Provides a “web monitoring” interface to allow end users to see the status of their transfers and drill down to the transfer logs.**
- **Sends monitoring messages to ActiveMQ and ultimately to the CERN monitoring infrastructure.**

The architecture of an FTS instance



How FTS could benefit from operation intelligence

- **Anomalies could be automatically and continuously detected within the noise of the day to day running of file transfers.**
- **End users and FTS operators would ideally be able to visit a web service that would indicate the current anomalies detected for a given Virtual Organisation (VO), storage end point or transfer link.**
- **Possible processing and error classification into Source SE / Destination SE or middleware (FTS).**



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