



Sample Project: CERN Data Centre Monitoring Tools

Code	IT2482
Programme	FCT
Department	IT
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Title

CERN Data Centre Monitoring Tools

Description

CERN IT computing facilities are spread over two data centres (Meyrin Switzerland, and Budapest Hungary) that jointly provide 150.000 x86_64 cores and 200.000 Terabytes of disk space, through the local private cloud or as bare metal servers.

To cope with the increase of CERN data centre resources, new monitoring solutions are being developed and deployed using modern open source technologies such as Hadoop, ElasticSearch, Kafka, etc. These technologies are being integrated under a Lambda Architecture capable of handling large quantities of metrics and logs by taking advantage of batch-processing and stream-processing methods.

As a member of CERN IT monitoring team you will be involved in team DevOps activities, working on the analysis of new open source technologies, developing and testing new tools, and contributing to the day-to-day operations of CERN large data centres.

Skills

Hadoop, ElasticSearch

Disciplines

Information Technologies

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