Sample Project: Data Centre Infrastructure Management

Code	IT2484
Programme	TRAIN-PTES
Department	IT
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Title

Data Centre Infrastructure Management

Description

The IT Computing Facilities group is responsible for managing the data centres CERN-Geneva and Wigner-Budapest. With the increasing needs of compute and storage resources for the CERN Large Hadron Collider data analysis, it is expected that the CERN private cloud will grow to 15,000 servers and over 100,000 virtual machines within three years. Data centre infrastructure management (DCIM) enables efficient power usage, capacity planning and operational efficiency.

The selected trainee will be on-the-job training in this area, enabling data centre infrastructure management, in particular, integrating the management of CERN-Geneva (local) and Wigner-Budapest (remote) data centres.

Skills

Databases: MySQL, NoSQL, Oracle. Information Technologies: Developing with virtualised infrastructure (e.g. Openstack), Using software development tools (e.g. Git, Jira, Trac), Using web application frameworks (e.g. Django, GWT, APEX). Programming Languages: C, C++, Java, Javascript, Python, Ruby, SQL, PL/SQL or similar

Disciplines

Information Technologies

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