



Sample Project: Scalable database deployment

Code	IT1206
Programme	TRAIN-PTES
Department	IT
Responsible	44442 - Mr. Eric Grancher
Created by	
Updated by	23616 - Dr. Miguel Marquina
Date Created	16-MAY-07
Date updated	16-JUN-14

Title

Scalable database deployment

Description

The project on which the selected candidate will work is to enhance and optimise our database deployment system (replication, backup, monitoring, performance analysis). We currently deploy both the Oracle database and the MySQL open-source database. Our users require strict Service Level Agreement and we deploy our infrastructure with replication, clustering and provide integration services so that application can be tested. The selected candidate will be integrated in the team of experienced database administrators. CERN has a privileged relationship with Oracle in the CERN openlab collaboration program <http://openlab.web.cern.ch/>. IT-DB group runs Oracle databases for many services including LHC accelerator and experiments, hierarchical mass-storage (CASTOR), administrative services (AIS). The databases are run with Oracle clustering (RAC) with some databases in the tens or one in hundreds of Terabytes of information. IT-DB group runs Oracle databases for many services including LHC accelerator, hierarchical mass-storage (CASTOR), administrative services (AIS). The databases are run with Oracle clustering (RAC) on around hundred servers with some databases in the multi tens of TBs range.

Skills

Databases: MySQL, NoSQL, Oracle. Information Technologies: Developing with virtualised infrastructure (e.g. Openstack), System administration (e.g. with GNU/Linux, Microsoft Windows, Networks). Programming Languages: Perl, Python, SQL, PL/SQL or similar

Disciplines

Information Technologies

To edit this project go to https://hrapps.cern.ch/auth/f?p=131:4:::::P4_ID:1206