GridKa School 2013
Big Data, Clouds and Grids

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Relational and non-relational databases

This session will be an introduction to relational and non-relational database management systems, with a hands-on approach.

1) Theory Session

Introduction to relational databases including terminology, relations, constraints, and operations.

2) Practice Session

Development of a simple application with a relational database backend using Python and SQLite.

3) Discussion

Typical pitfalls when building applications with a database backend.

4) Theory Session

Introduction to non-relational databases including characteristics, scalability, consistency, mapreduce, and operations.

5) Practice Session

Development of a simple application with a non-relational database backend using Python and MongoDB.

6) Discussion

Comparison of the developed applications with both types of backends.

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Track Classification: Big Data and Large Storage Systems