



Training Outreach and Education

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Data services on the NGS

PPARC

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eGEE

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- Thank you!!



Overview

- OGSA-DAI: data access and integration
- GridFTP: a protocol for large file transfer
- The Storage Resource Broker
- And also: ORACLE – available for data storage



Oracle and the NGS

- The NGS core nodes, from the outset, have been partitioned into compute and data clusters.
- As the NGS matures the requirement for data hosting will grow
- Oracle database: for both users and services offered by the NGS.

**The NGS Oracle service
is ready to host data
for your project!**

- The RAL and Manchester sites are designated as the data clusters with each site having the ability to dedicate up to eight nodes for use by Oracle.
- Additional application needed after joining the NGS

Data services on NGS

Simple data files

- Middleware supporting
 - **Replica files**
 - **Logical filenames**
 - **Catalogue**: maps logical name to physical storage device/file
 - **Virtual filesystems**,
POSIX-like I/O
- **Storage Resource Broker**

Structured data

- RDBMS, XML databases
- Require *extendable* middleware tools to support
 - Move computation near to data
 - easy access, controlled by AA
 - integration and federation
- **OGSA -DAI**