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Data services on the NGS













Policy for re-use



- This presentation can be re-used for academic purposes.
- However if you do so then please let <u>training-support@nesc.ac.uk</u> know. We need to gather statistics of re-use: no. of events, number of people trained. Thank you!!







Overview

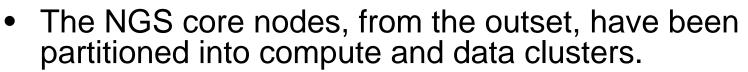


- OGSA-DAI: data access and integration
- GridFTP: a protocol for large file transfer
- The Storage Resource Broker
- And also: ORACLE available for data storage









- 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.





National Grid





- Additional application needed after joining the NGS
- All enquiries and production support for the Oracle service is via the Grid Operations Support Centre (<u>GOSC</u>)
 - 9-5 Operational support (monitoring, notification, maintenance) other times best endeavours basis.











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 <u>extendable</u> middleware tools to support
 - Move computation near to data
 - easy access, controlled by AA
 - integration and federation

• OGSA -DAI



