The iRODS-GridFTP DSI
A Nucleus for Collaboration

Presented at GlobusWorld 2015
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What is iRODS?

iRODS is the underlying technology for the world’s preeminent genomic research institutes. iRODS is an infinitely configurable data janitor. iRODS is the kind of technology you need to host everyone’s unstructured data. iRODS is a powerful data migration tool. iRODS is the technology that underpins the iPlant Data Store. iRODS is a data preservation technology. iRODS is a fundamental technology for CineGrid. iRODS is a tool for providing fine-grained privacy and security controls. iRODS is extensible: iRODS has command-line clients, APIs for numerous programming languages, and web clients. iRODS supports new plug-ins for storage resources, authentication mechanisms, microservices, and network prot

iRODS is open source data grid middleware for...

- Data Virtualization
- Data Discovery
- Workflow Automation
- Secure Collaboration
The iRODS Consortium

- Membership
- Consulting Services, Training, and Advanced Support
- Third Party Partners
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• Preservation
• Attaching PIDs and other metadata to data objects
• Generating PID, metadata extraction, access control
• Federation

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The iRODS-GridFTP DSI
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AAI
Network of trust among authentication and authorization actors

PID
Identity Integrity Authenticity Locations

B2DROP
Sync and exchange

B2SAFE
Data curation and access optimization

B2STAGE
Dynamic replication to HPC workspace for processing

B2SHARE
Store and share

B2FIND
Aggregated EUDAT metadata domain
Data inventory

External community metadata store

Data
Metadata
iRODS Versions

3.x

4.x and Beyond
The Title of This Talk

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[Logos and images related to EUDAT, SCAI, UC University of Canterbury, iRODS, and National Data Service]
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The iRODS-GridFTP DSI
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"How rabbits *really* reproduce" by the mad LOLscientist

mitosis

almost done