Demonstration of Policy Reification in iRODS

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Components of a Policy-Based preservation environment

- iRODS
  - records management
- iDrop
  - ingestion of records
- Arch
  - policy management
What is a preservation policy?

A plan or course of action that governs the management of a repository and its data.
Policy Composition Model

Bridging high-level declarative policies to iRODS rules
Arch: An Archivist’s Interface

• Prototype/proof of concept
• User friendly interface to iRODS tailored to the needs of archivists
• Enables easy policy creation and storage from a set of menus
Defining a policy
Adding the policy to a policy repository
Binding the policy to a record series
Updated series/collection view
Automatic policy enforcement
Another example: scanning for malware
Lessons learned

• Computer actionable rules can automatically enforce a set of desired preservation properties

• At this point the creation of preservation policies still requires significant knowledge of the underlying data grid technology