Technology Landscape

Fedora 4: Scale, Performance, Community
Fedora 4 is the Fedora Future

- Fedora 3.7 is last in 3 series
- Fedora 3.7 inadequate for AP Trust
- Community development is on 4 series

- Core Performance
- Large-scale clustering
- Flexible storage
- Linked data standards
- Modular extension points
Community Development Model

- All code contributed by community partners
- Emphasis on stakeholder engagement
- Contributors supported by management
- Pooling knowledge, development practices
- Partners affect the pace and features

AP Trust impacts Fedora’s future
Fedora 4 Project Status

- Beginning regular releases
- Acceptance testing by stakeholders
- Focus shifting from features to core performance
- Infrastructure in place to support more developers

- 4.0 release timeline depends on contributors
Component Stack

- REST Framework
- Fedora Services
- ModeShape
- Infinispan

Access & Preservation Services

Repository Services

Caching, Clustering & Storage Services

Storage (Objects and Datastreams)
We didn’t want to build it ourselves
Evaluated many alternatives
Mature software (version 4.0 in progress)
RedHat and JBoss Community
Implements Java Content Repository 2.0
  ○ standard by Java Community Process
ModeShape 4 release planning
  ○ Fedora 4 was invited and participated
Fedora team has contributed significant code to ModeShape
Map to Bags in Fedora 4

Bags package data uniformly, but object structure is embedded deeper:

- FOXML: datastream names and versions
- METS: DSpace metadata profile
- Other flavors of METS, etc..

Federate over bag structures in Fedora 4
Access diverse objects via Fedora 4 API