Enabling (long term) preservation through Hydra

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A ‘bit’ of History

- First bit preservation system in 2005.
- First version of our “DOMS”.
- Digital Preservation as a part of the Organization since 2006.
- Currently have long “data-move/copy” workflows, based on a “preservation first, show second” mindset.
- 2010 - DOMS2 started….. and ended.
- 2011 - Danish National Bitrepository was initiated.
- 2012 - We chose Hydra as our Digital Library Infrastructure.
Bitrepository (bitrepository.org)

SLA 1
System: Technique, Organisation, Costs
Pillar 1: Technique, Organisation, Costs
Pillar 3: Technique, Organisation, Costs

SLA 2
System: Technique, Organisation, Costs
Pillar 2: Technique, Organisation, Costs

Bit Repository (BR)
General System Layer
Technique, Organisation, Costs

Pillar Layer
Pillar 1
- Technique
- Organisation
- Costs

Pillar 2
- Technique
- Organisation
- Costs

Pillar 3
- Technique
- Organisation
- Costs

Pillar 4
- Technique
- Organisation
- Costs

Pillar 5
- Technique
- Organisation
- Costs

Royal Library
State & Univ. Library
National Archives
Norway
“Yggdrasil” long term Preservation (Java)

METS Structuring
WARC packing
Bitrepository Client

Ingest
Integrity
Restore Import Migration Validation

Rabbit MQ

Status

“Valhal” Management (Hydra head)

Identification (UUID)
Characterization (FITS)
Collection Building
Object and Collection level Preservation Planning

ActiveMQ

Fedora Commons
Apache Solr

BITREPOSITORY.ORG
“Yggdrasil” long term Preservation (Java)

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ActiveMQ

“Valhal” Management (Hydra head)

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Validation
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