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Preservation Archiving Solutions

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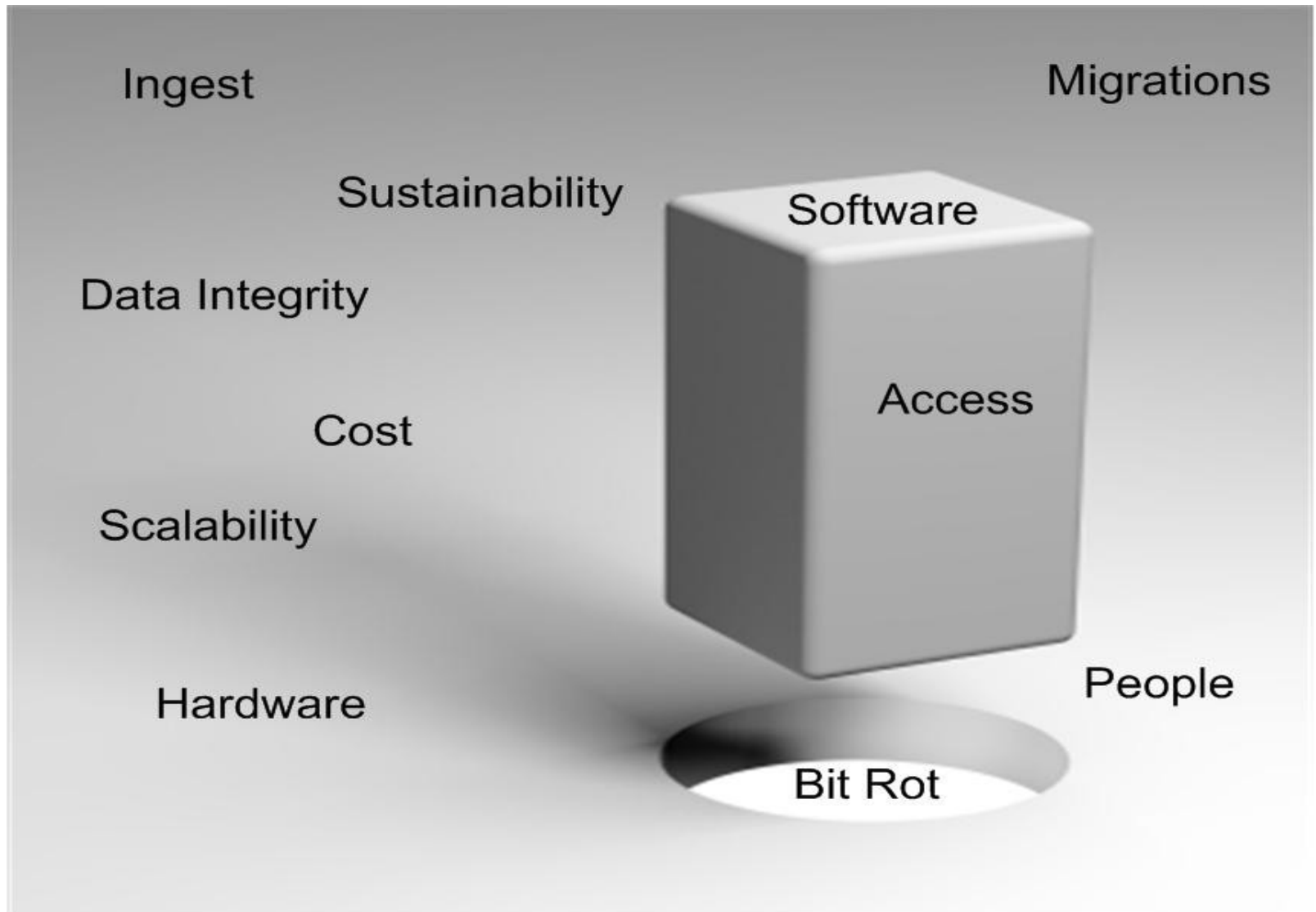


Agenda

- Challenges
- Requirements and Design Criteria
- Physical Architecture
- Sun Storage Solutions Archive
- References



Challenges



Business Drivers

- Change in data management practices
- Compliance
- New services – Web services
- Historical Preservation
- Support increasing amounts of data
- Centralization of institutional data

Requirements and Design Criteria

- Access Requirements
- Performance Requirements (Ingest, Search, Retrieval)
- Compliance
- Manageability
- Scalability
- Security
- Interoperability

Reference Architectures

Develop Collaborative, Replicable Reference Architectures

- Fedora
- Fedora/Drupal (Islandora)
- DSpace
- EPrints
- Duraspace (Cloud)
- Ex Libris Rosetta
- VTLS VITAL
- SAM/QFS

Value of Integrated Solutions

- Minimizes cost, complexity and deployment time
 - > Lowers administrative costs via automated data management and migration across storage tiers
 - > Cost-effectively matches the value of data with the appropriately priced media
 - > Economical and power-friendly cost of operation
- Flexibility to build performance, economy or mixed archive repository
 - > Infinitely scalable archive management

Open Storage



StorageTek
7410



SAM/QFS



StorageTek 7210

Identity
Management and
SOA

- Digital repositories for data and metadata storage
 - Fedora, EPrints, and D-Space communities
 - Ex Libris Rosetta and VTLS VITAL applications
-
- Large scale preservation projects needing policy based storage
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- Digital asset management
 - eResearch databases
-
- Federated repositories

Virtualized Repository Appliance



Single Virtualized Server

Virtual Machine 1:

- Repository
- Entity Preservation
- Index Creation
- Metadata Management
- Security
- Search Engine

Virtual Machine 2:

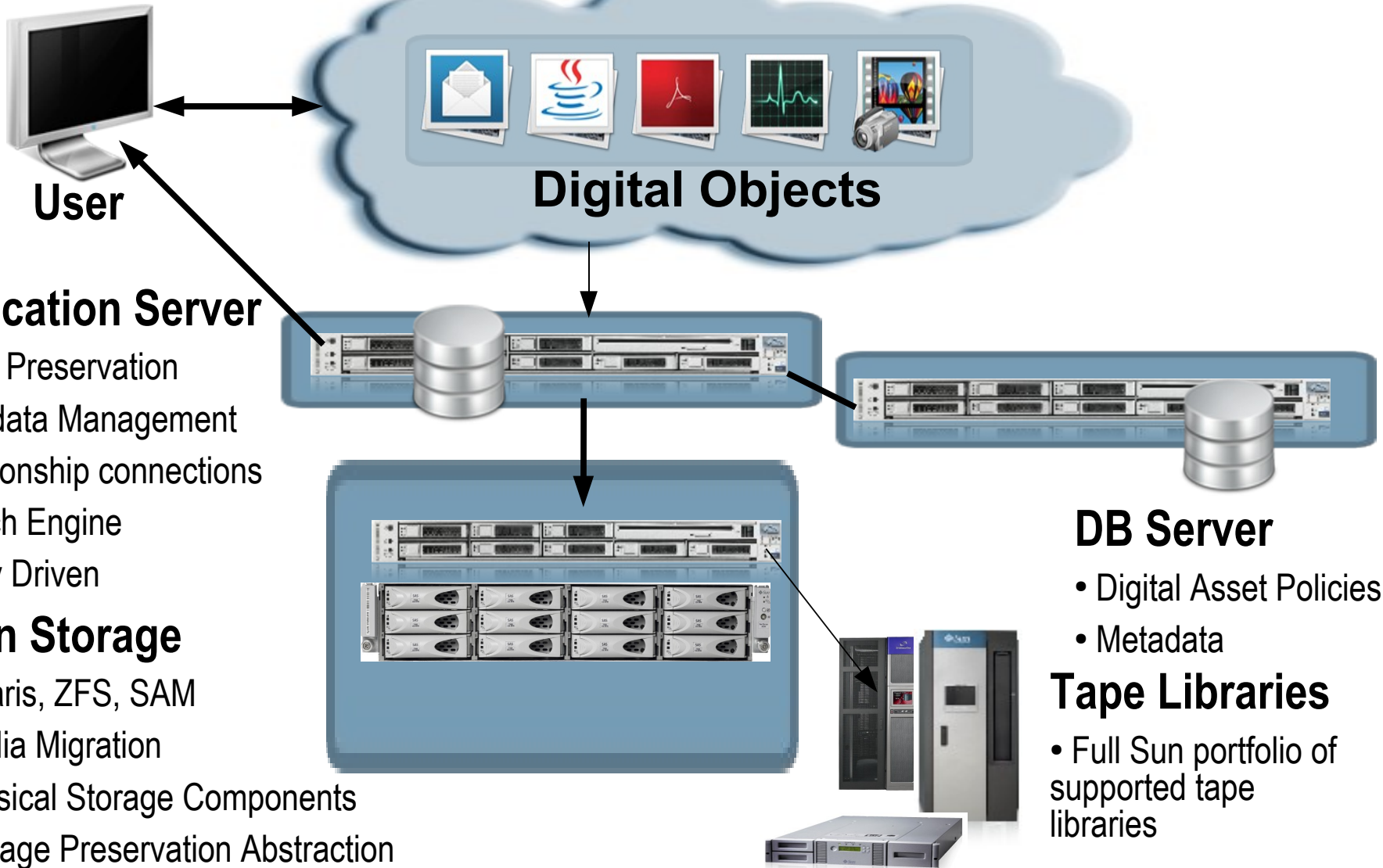
- Archive DB
- Policies
- Metadata

Virtual Machine 3:

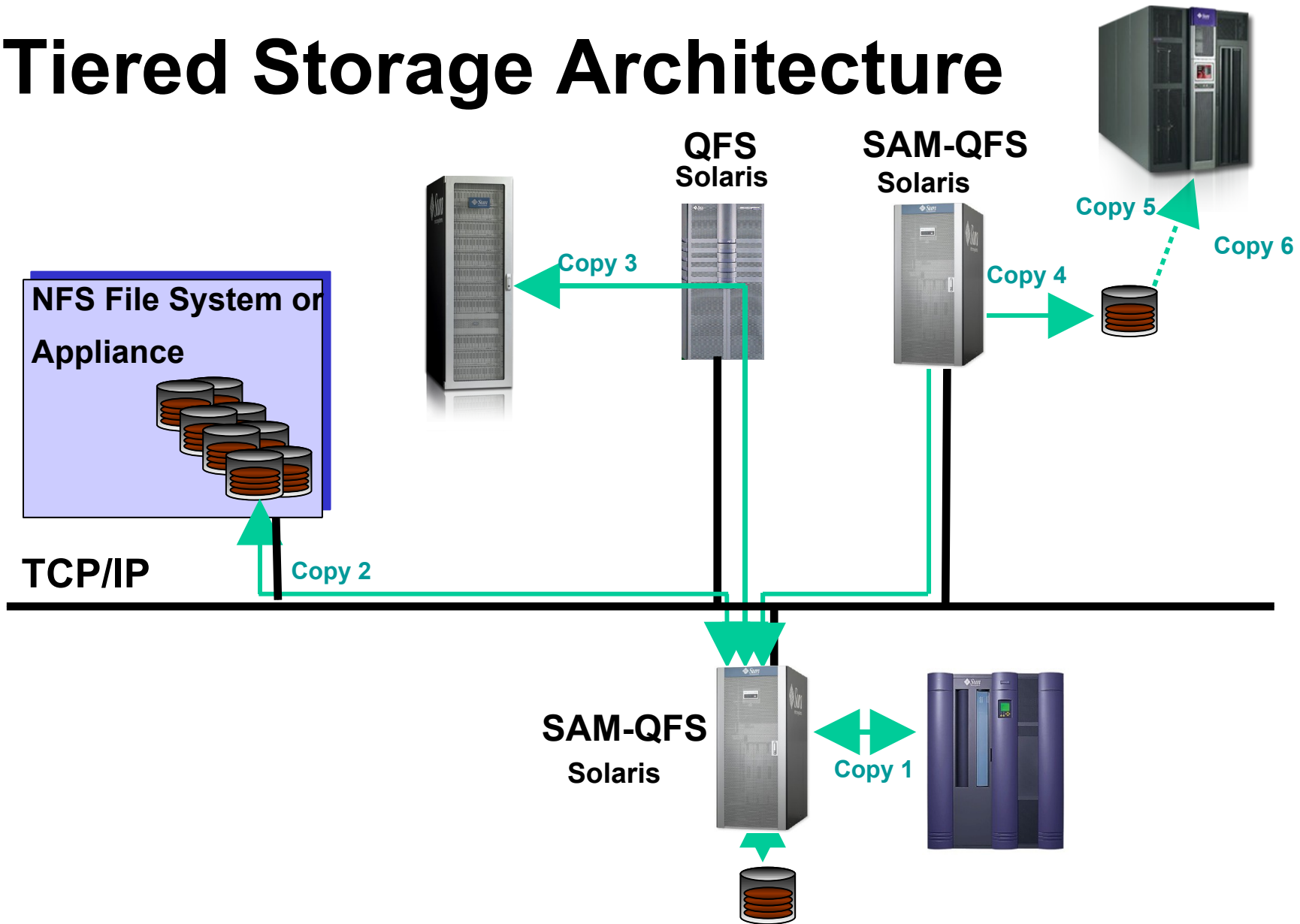
- Open Storage Mgmt
- Storage Preservation
- Physical Storage

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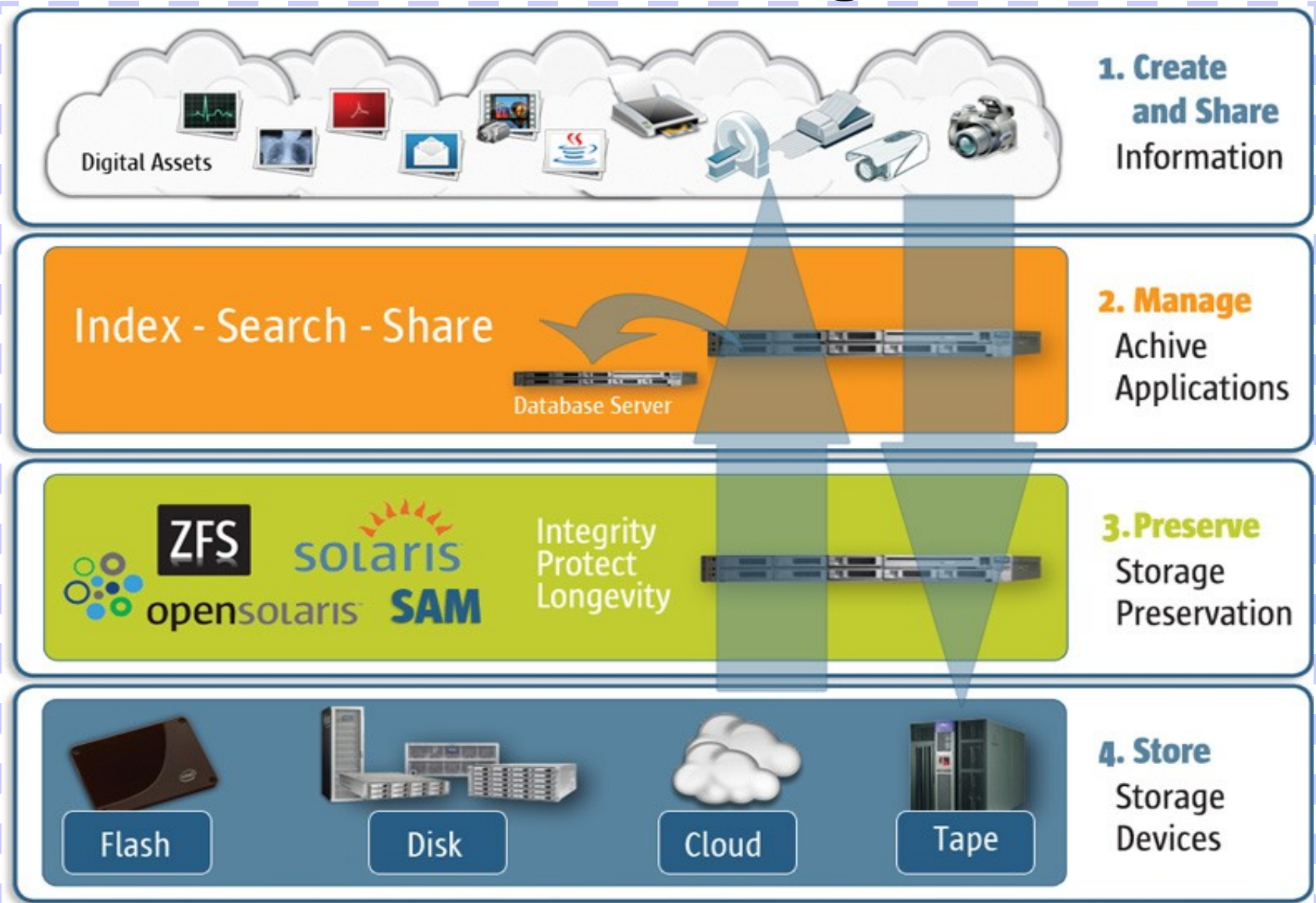
Open Repository Tiered Components



Tiered Storage Architecture



Preservation Archiving Solution



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Solution Benefits

- *Higher service levels* — The architecture is designed to optimize service levels with redundant components and automated failover using storage virtualization and cluster technologies.
- *Reduced cost* — Virtualization technologies enable consolidated solutions with higher resource utilization and tiered storage avoids overprovisioning or underprovisioning system resources. Best practices for management can also reduce the cost of maintaining the solution environment.
- *Faster time to delivery* — Accelerates deployment by providing proven and tested configurations with simplified installation to be up and running almost immediately.
- *Reduced risk* — Validated hardware and software configurations greatly reduce the risk of unforeseen problems in a production implementation.
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Thank You

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