Topic name

Spectrum Scale + Archive

Speaker title

Yan Xu (闫旭)

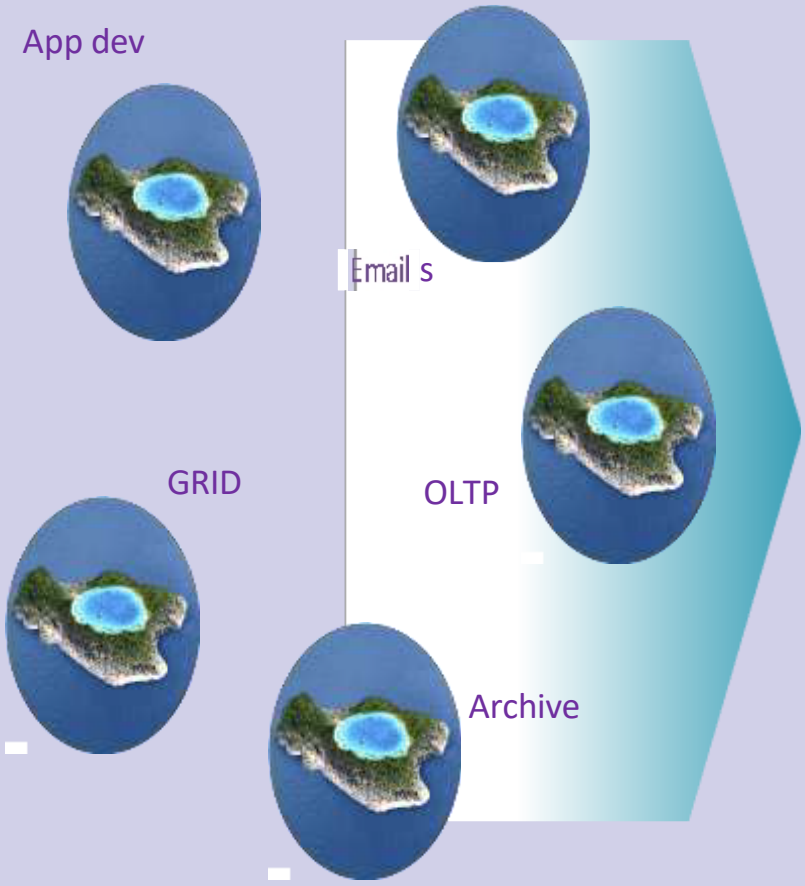
Cons. spec. ATS storage IBM CHINA

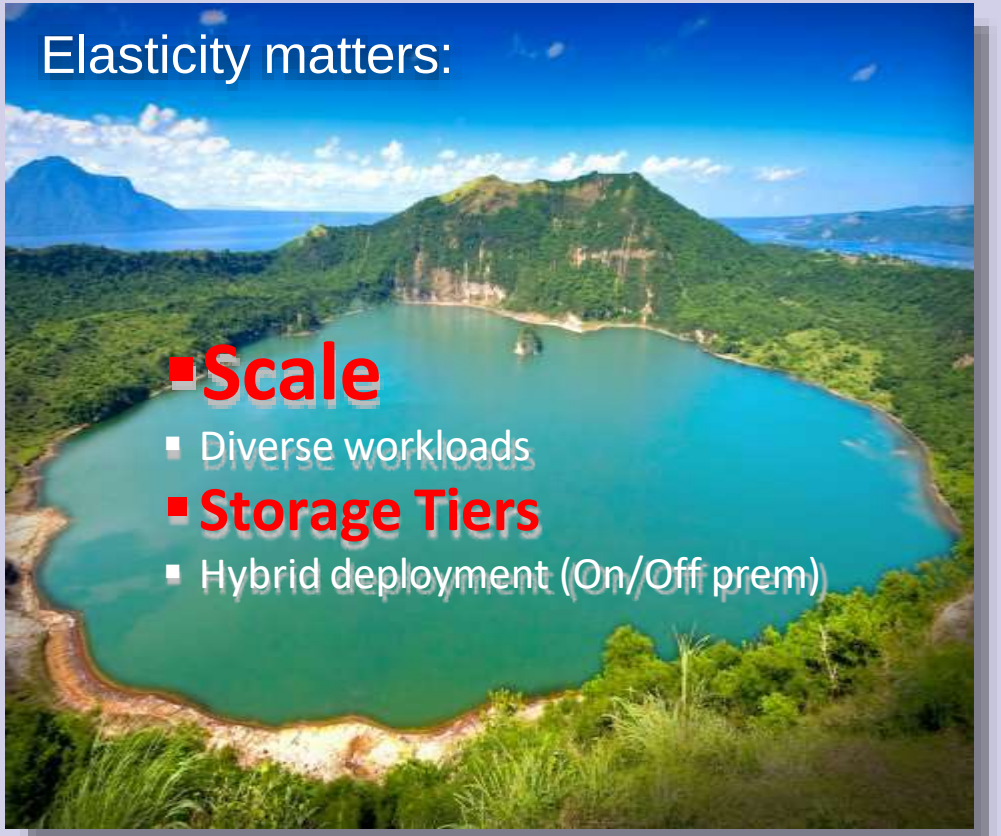
内容

- Solution深度解析
- Demo背景介绍
- Demo
- 小组讨论与问答
- 重点回顾

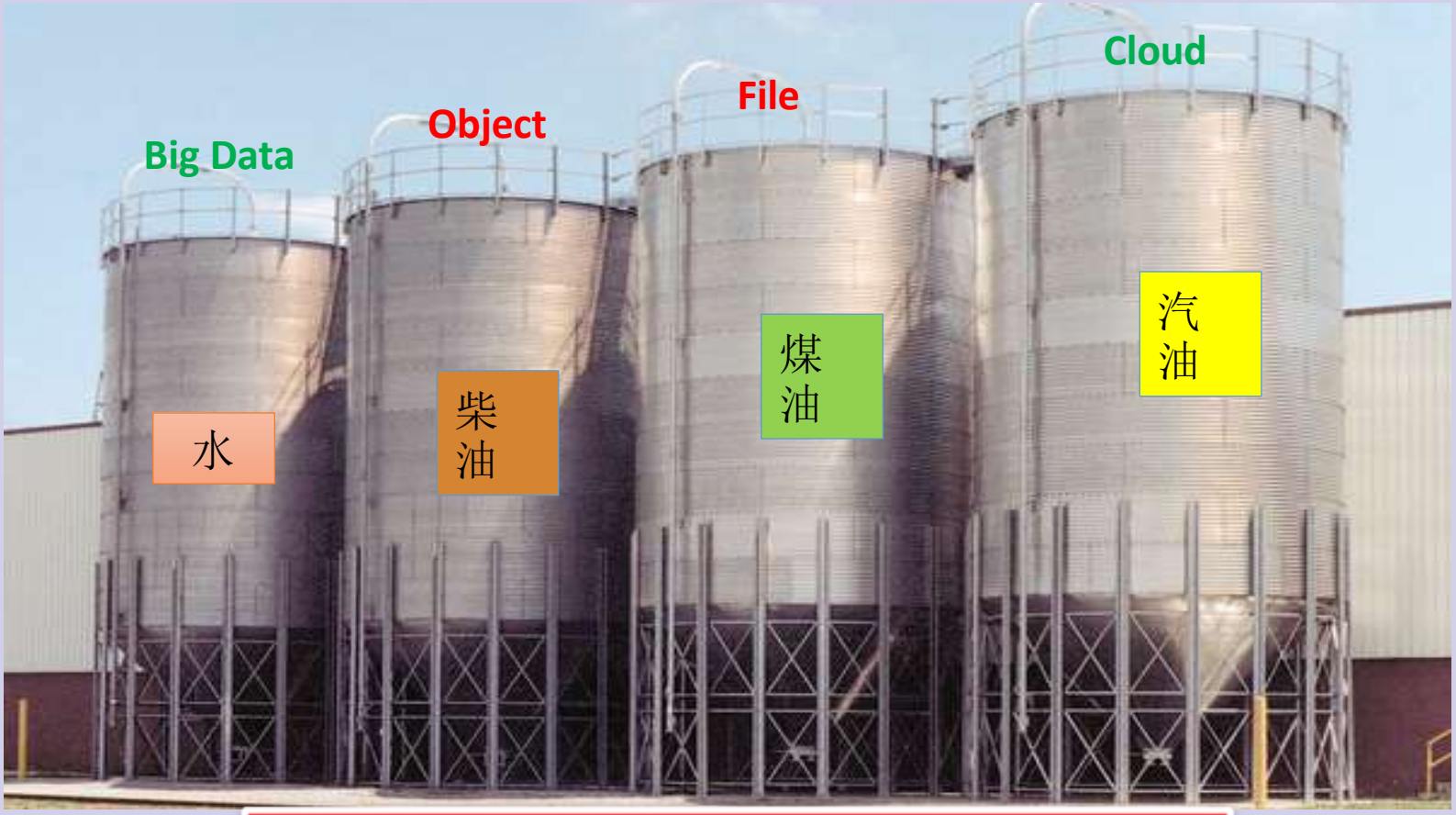
Solution深度解析

Spectrum Scale + Archive -重塑你的业务





Spectrum Scale + Archive -重塑你的业务



Spectrum Scale + Archive改变数据经济学

	核心能力
高性能 高扩展性	High performance for petabytes of data & billions of files under a single global namespace
简单	Integrates with open architectures e.g. OpenStack & POSIX
安全	Built-in encryption and data protection
降低成本 提高效率	Up to 10x cost savings with automatic movement across tiers
成熟	3000+ clients and more than 100,000 systems













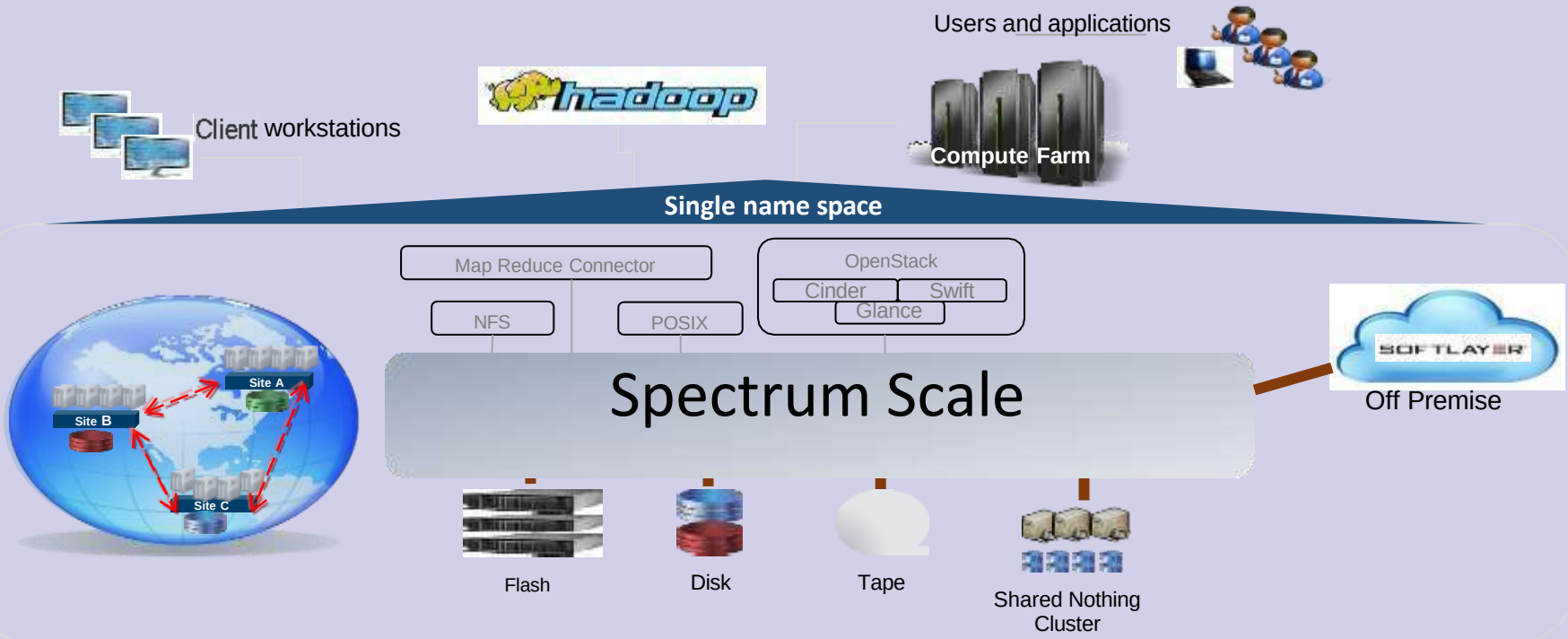


Spectrum Scale + Archive是什么?

高性能、高可扩展性的非结构化数据管理方案

- 高性能、高可扩展性的文件系统存储方案
- 高性能的大数据平台存储方案
- 高性能、大容量的云存储方案
- 弹性存储服务器（Elastic Storage Server)

GPFS +LTFS = ?



IBM General Parallel File System (GPFS)

可扩展、高性能、高可靠 的软件定义存储解决方案

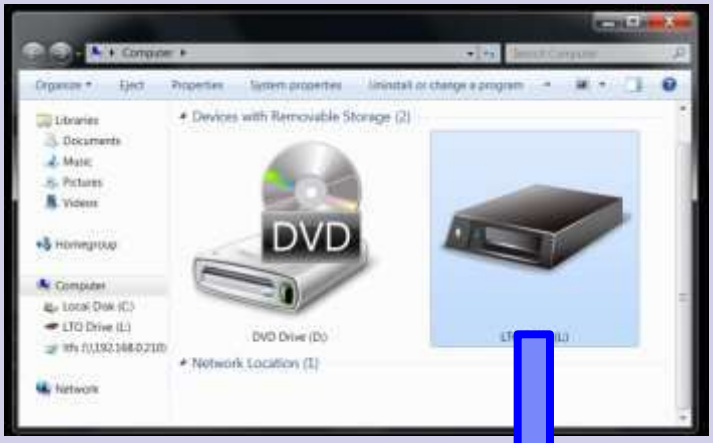
为什么选择GPFS

- GPFS能解决如下客户痛点
  - 扩展性：当前最大规模8192节点
  - 性能：最大实测吞吐率405GB/s
  - 可靠性：无单一故障点、在线软件升级、在线硬件更换、多分拷贝、远程容灾
  - 存储及数据管理：
    - 简单有效地管理数据，自动化信息生命周期管理工具
    - 可以管理数以十亿记的文件，数十PB级别的数据（一个文件系统内）
    - Windows、Linux、AIX全面支持
    - IBM、HP、EMC等等多个存储产品支持
- 15年的市场历史，研发至今已经超过20年
- 全球数以万记的用户，数十万个GPFS系统
- 久经行业验证，风险最小



IBM Liner Tape File System (LTFS)

Example: Windows 7 Desktop



- Supported OS
  - Windows 7
  - Mac OS X
  - Linux



TS2250

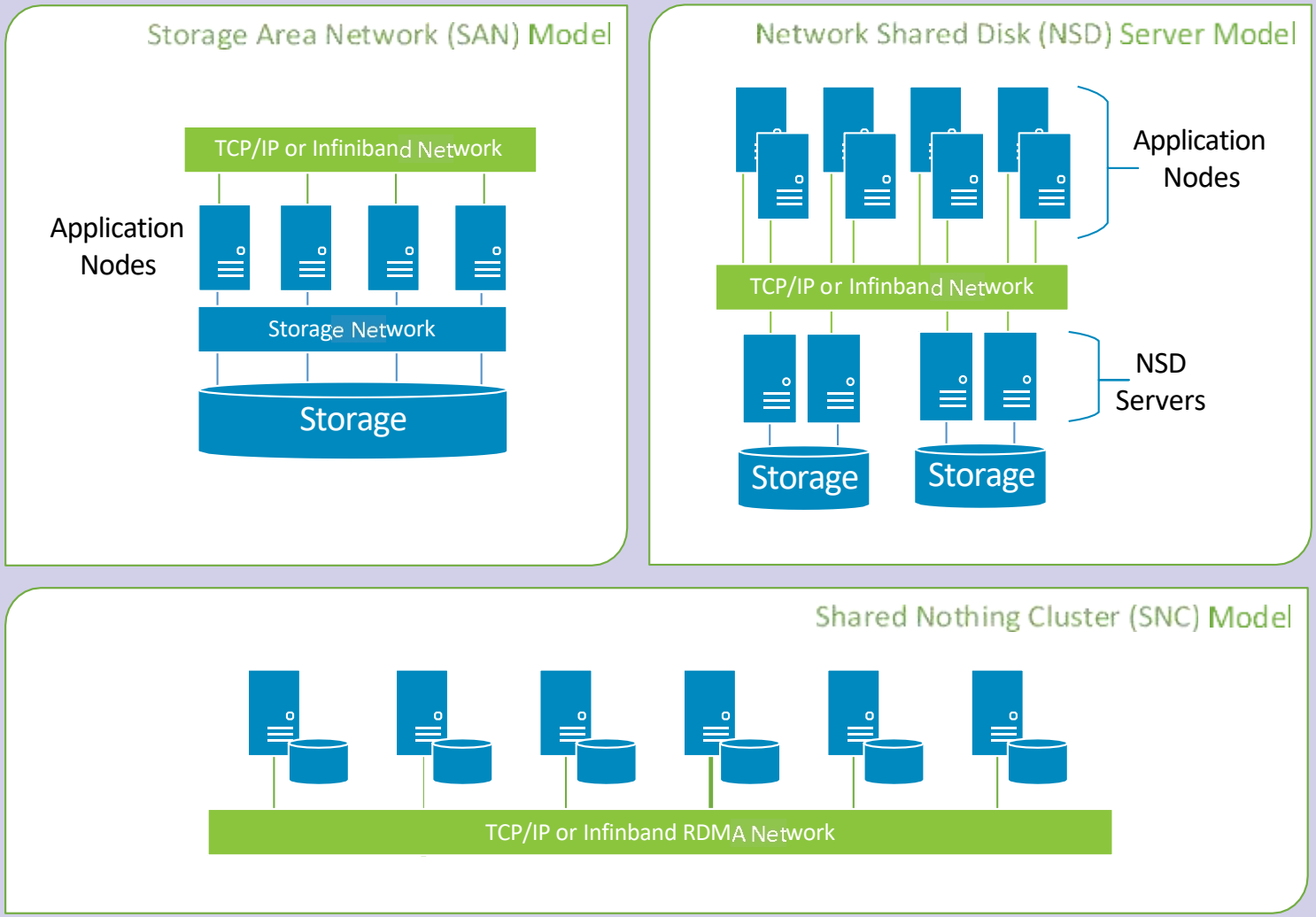


LTO-5 Tape Cartridge

LTFS Tape Load

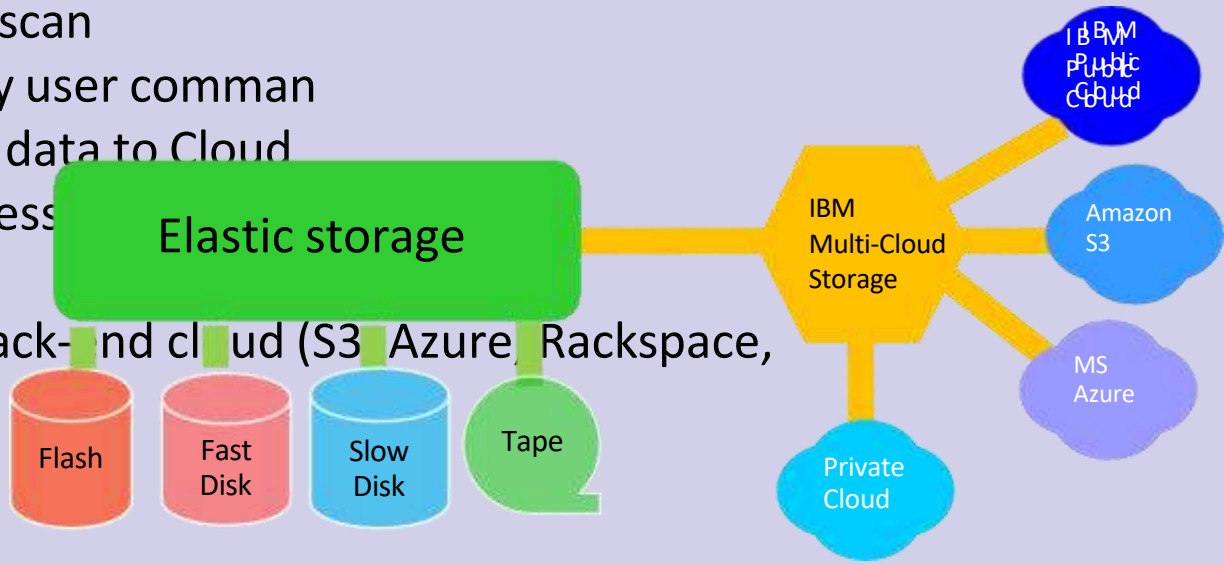


Spectrum Scale能适应各种用户模式

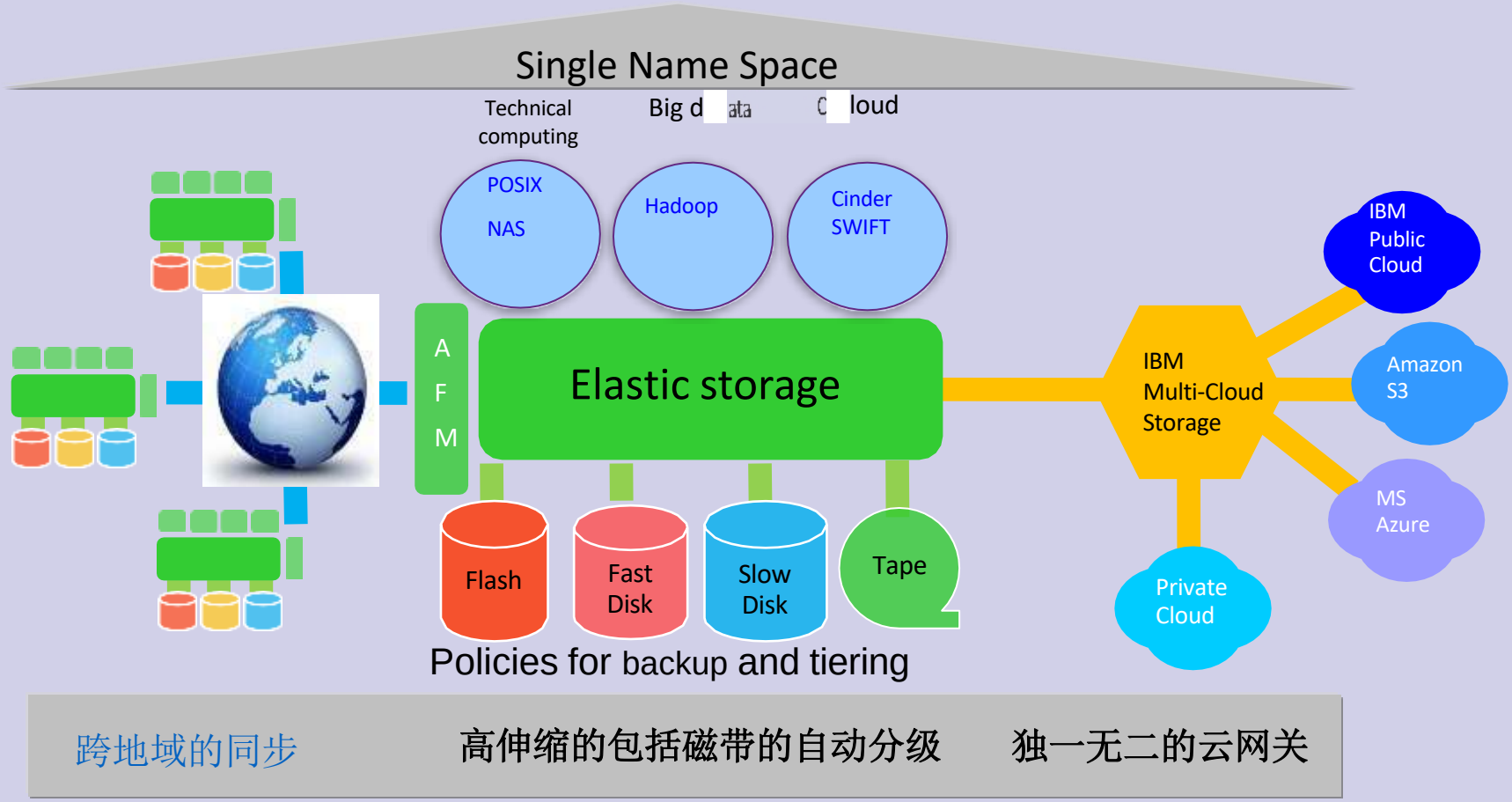


Elastic storage - ILM Cloud

- Policy Engine uses a rich SQL like query language
- High-performance metadata processing
- Petabytes of data, billions of files
- Seamless integration with offline storage
- IBM Tivoli Storage Manager
- High Performance Storage System (HPSS)
- On Demand data retrieval
- Cloud store es an external pool
- Batch migration via policy scan
- Individual files migrated by user comman
- Migrate infrequently used data to Cloud
- File selection done via access
- Files remain encrypted
- Jclouds API for different back-end cloud (S3 Azure, Rackspace, Nirvanix)

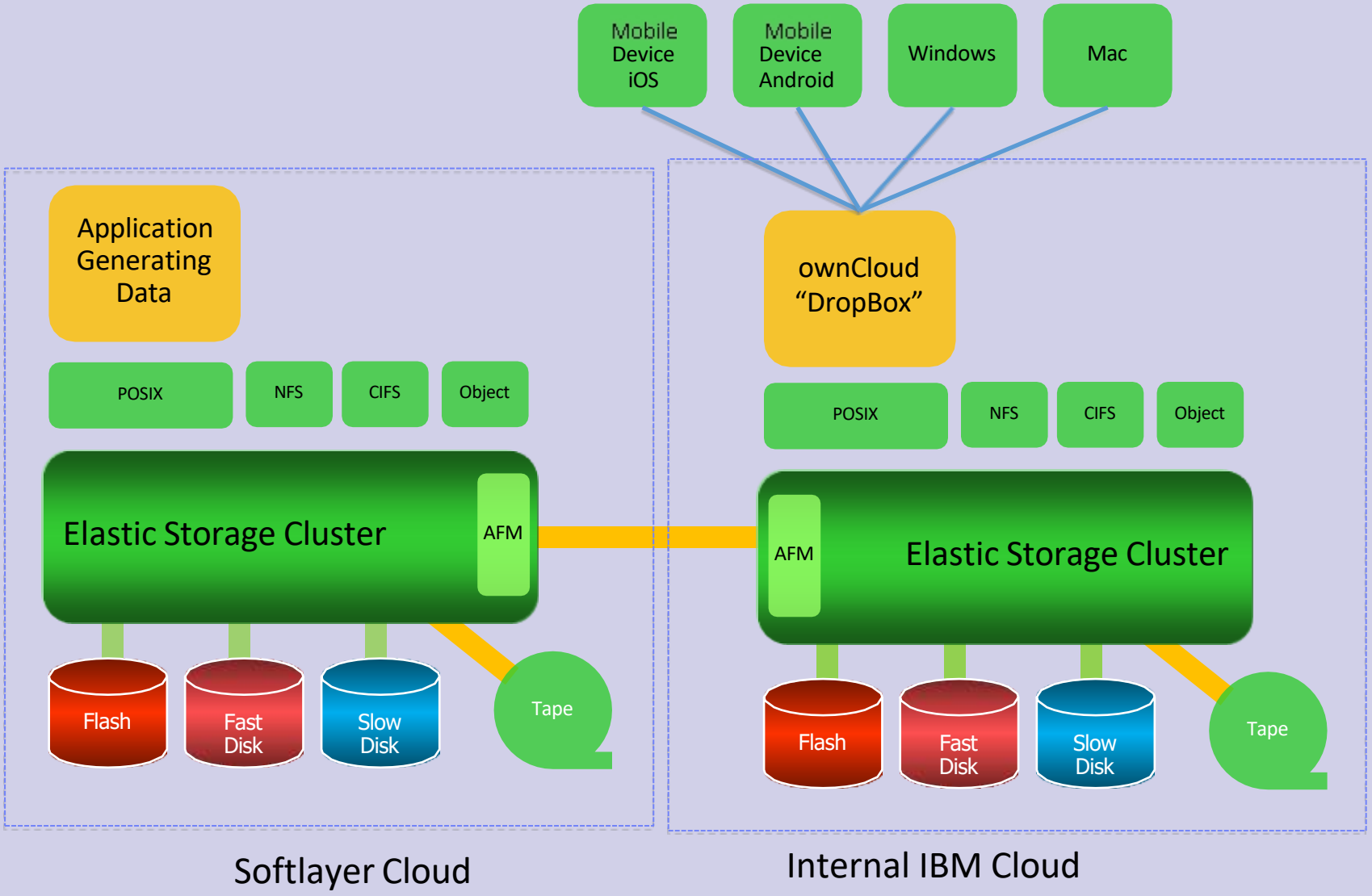


Elastic storage - integration Cloud

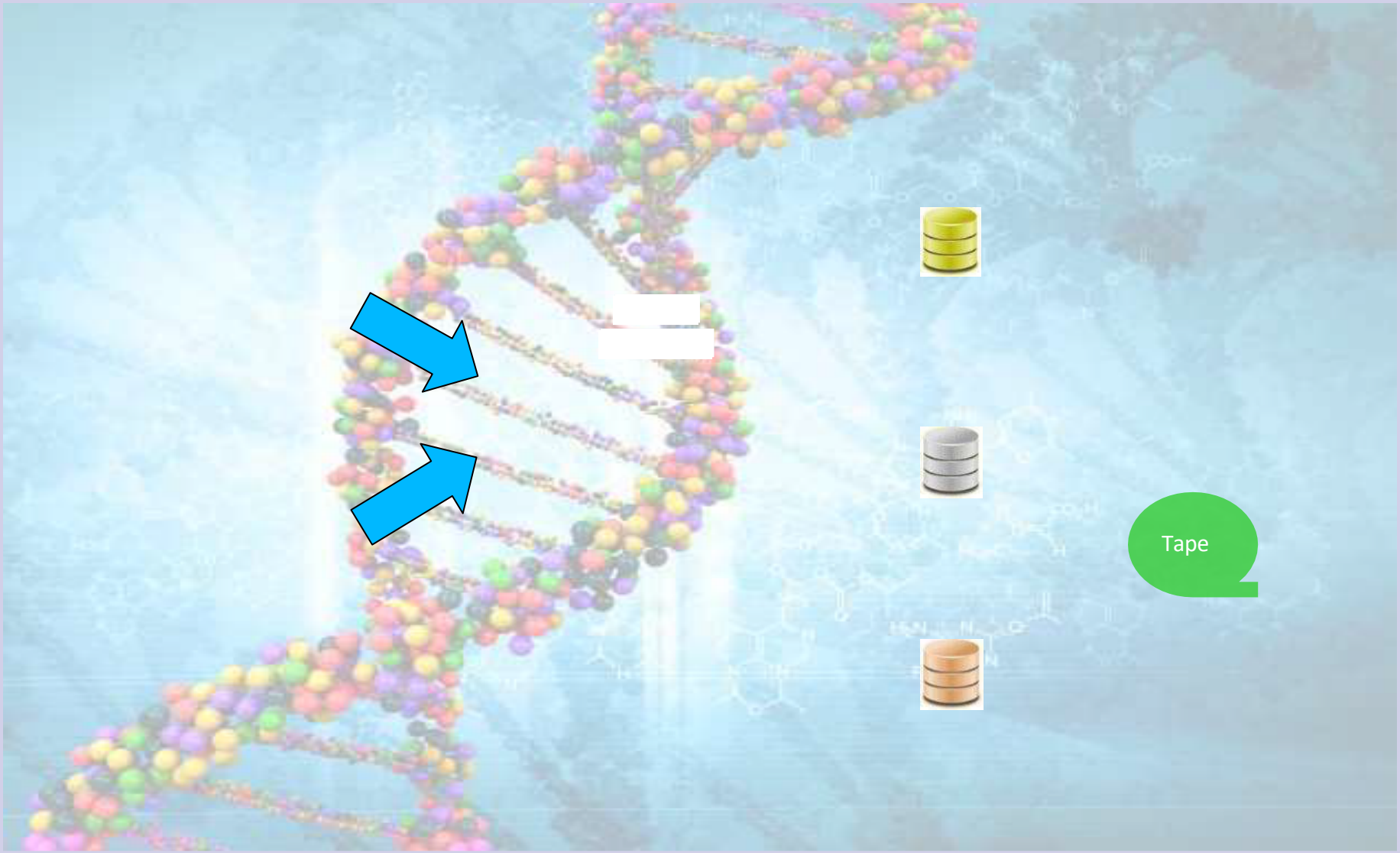


跨地域的同步　　高伸缩的包括磁带的自动分级　　独一无二的云网关

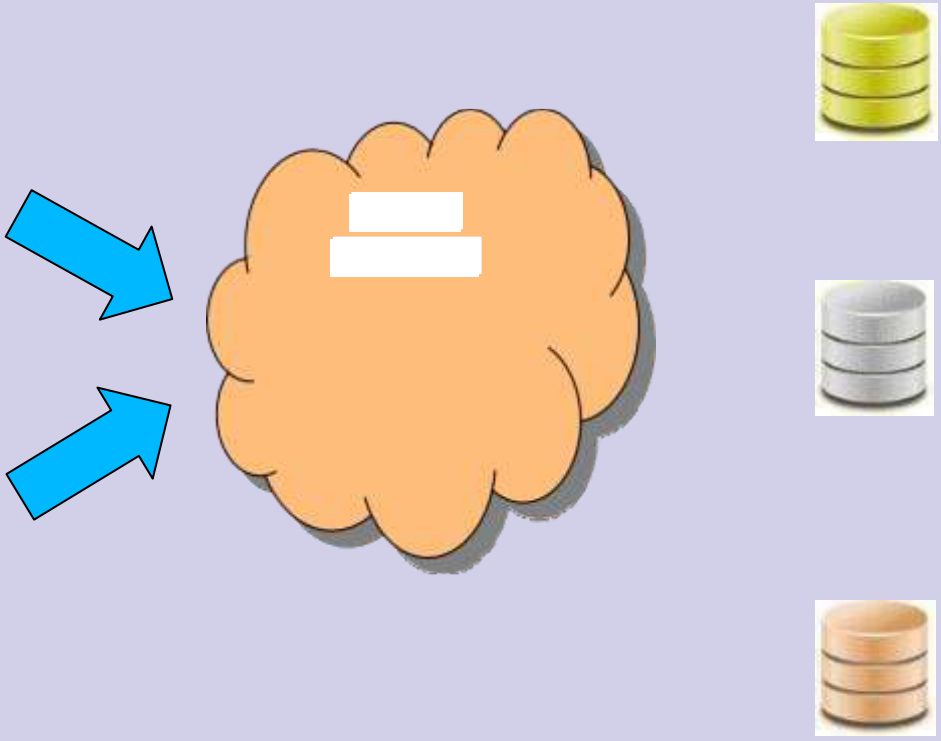
Elastic storage – hybrid/Global Cloud



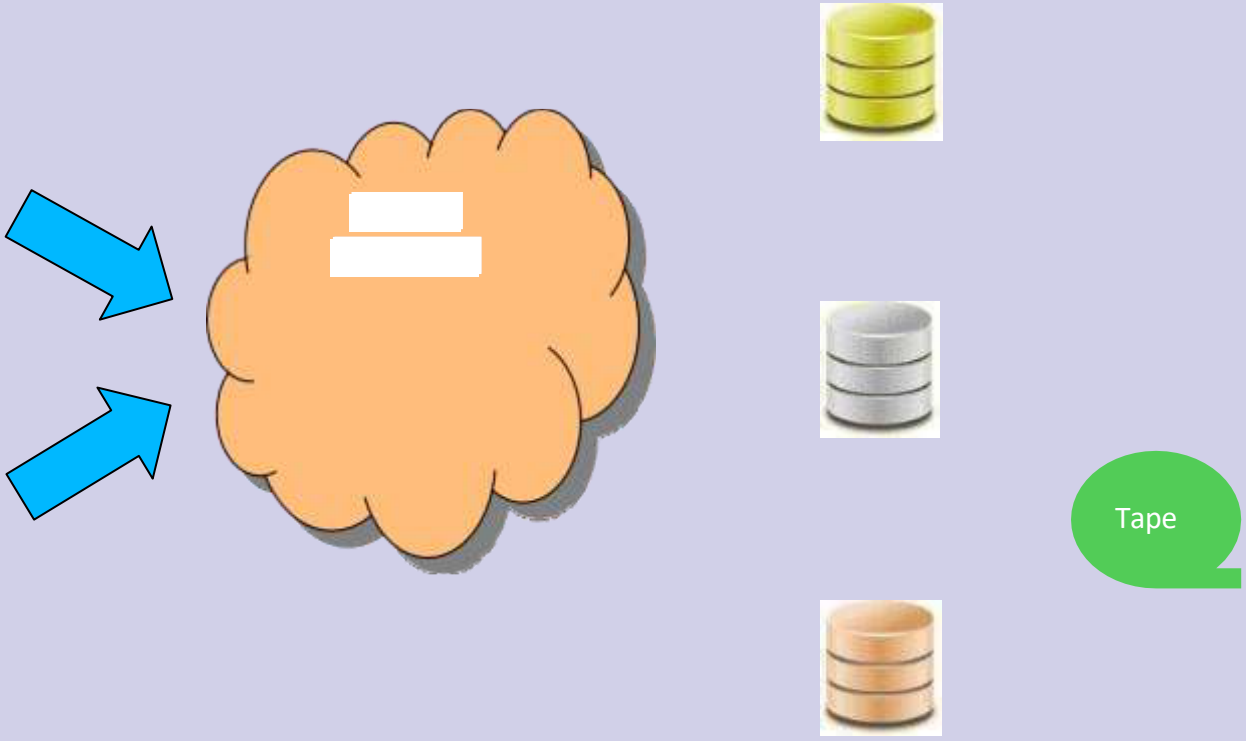
Demo背景介绍


Tape

演示



演示



以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：https://d.book118.com/817025036021006042