

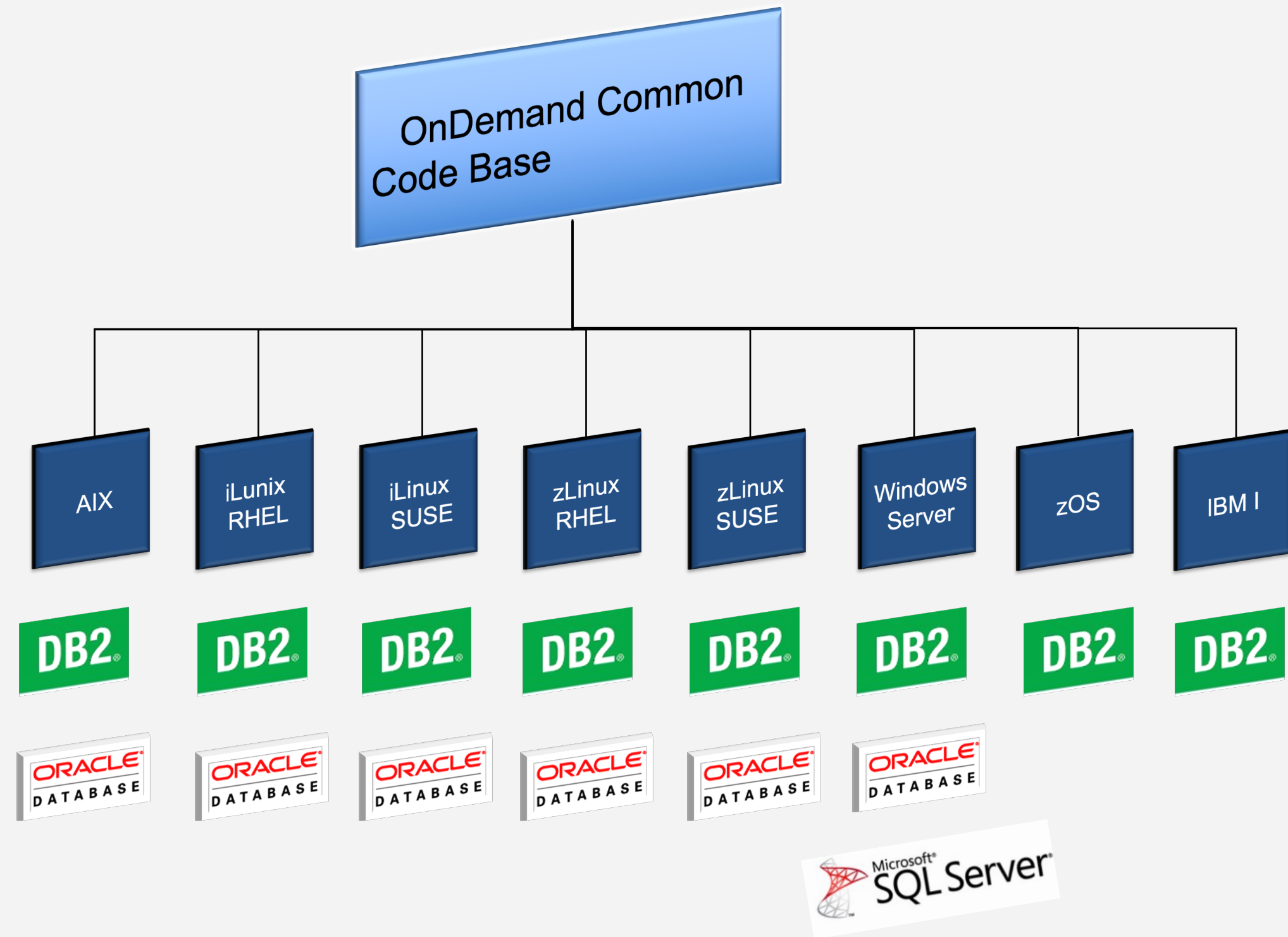
# Content Manager OnDemand Hybrid Deployments

# What is a Hybrid Deployment?

# Why would you do a Hybrid Deployment?

- System Replatforming
- Lowering Total Cost of Ownership (TCO)
- Source of Content Generation
- Strategic Direction
- Ease of Operation/Management

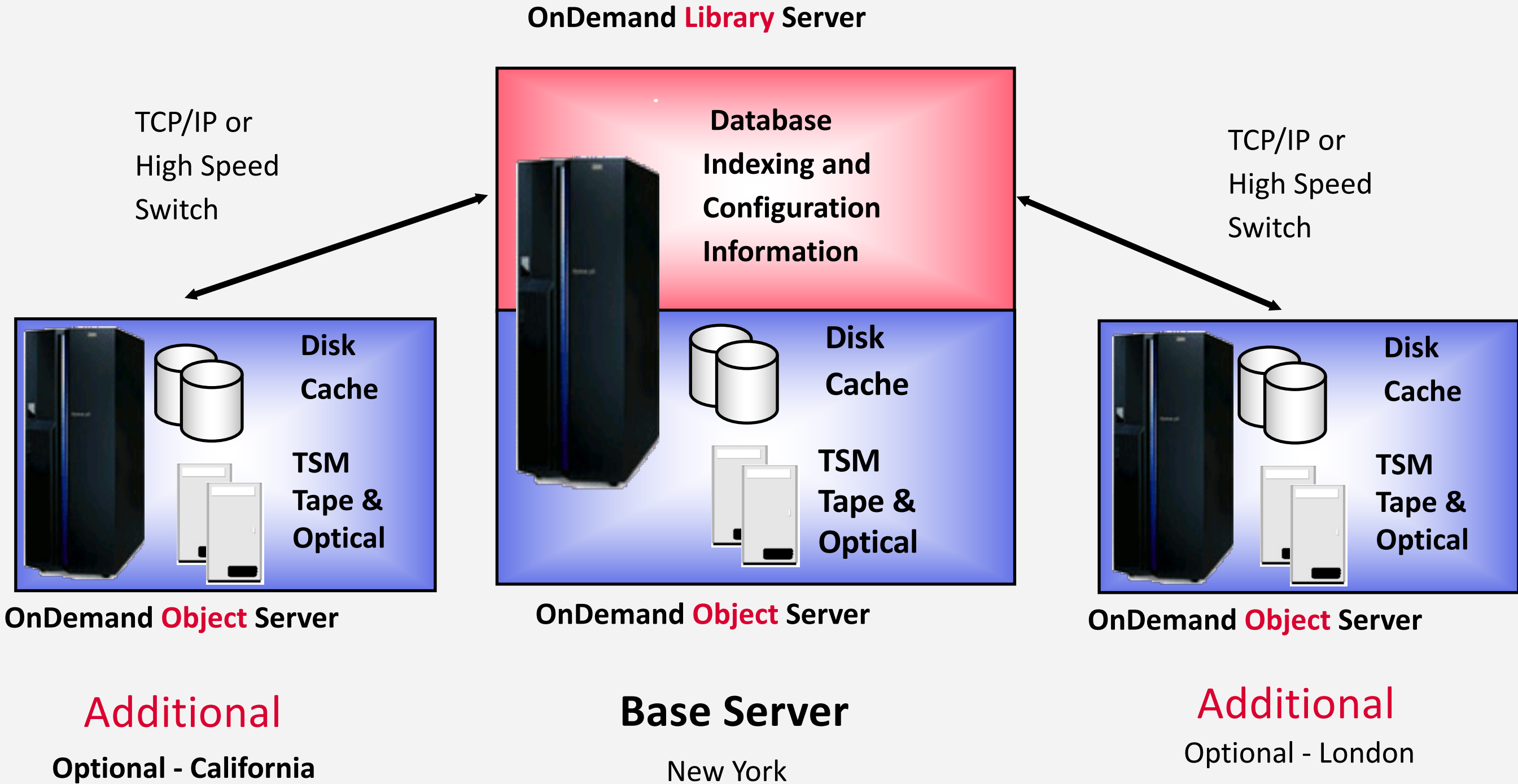
# Why does this work so well for CMOD?



# OnDemand Key Components

**Library Server** - manages a database of information about the users of the system and the reports stored on the system

**Object Server** - manages the reports on disk, optical, and tape storage devices



# What pieces are we talking about?

- Library Server – collocate with the Database (only one of those)
- Object Server – where do you want to store you content?
- ARSLoad Process – where do you want to load from?
- zOS Specific
  - ARSLoad Process – capturing work from JES
  - ARSYSpin – capturing Sysout
  - Distribution Facility – pushing print jobs back to JES

# Object Storage

Economical and highly scalable storage

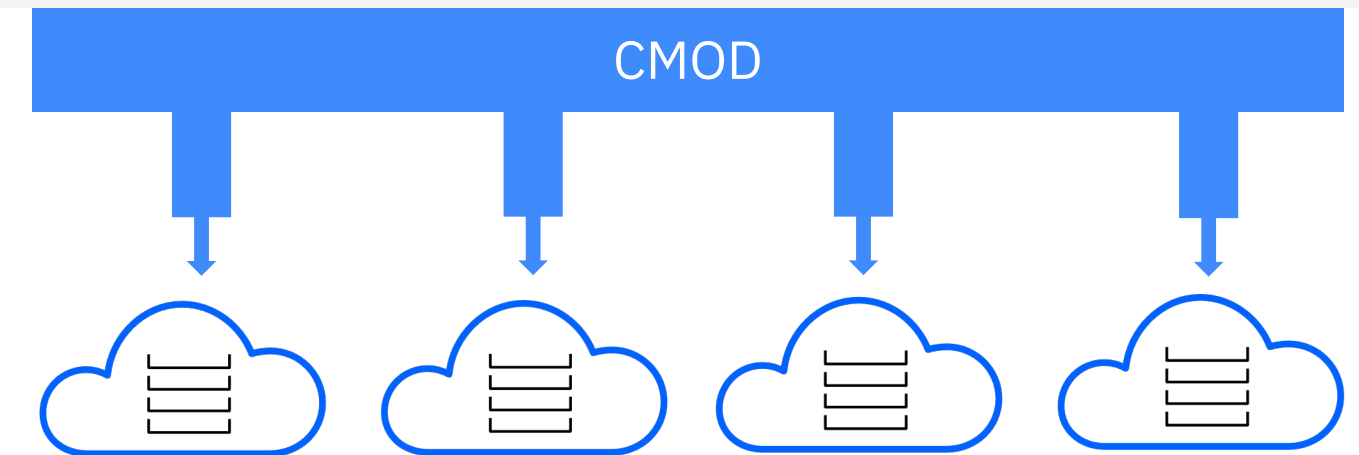
- Scale up to peta bytes and beyond

Ideal for archive storage tier for CMOD

Use of TSM (Spectrum Protect) not required

- CMOD integrates directly with IBM Cloud Object Storage (ICOS), AWS S3, Hitachi HCP and Azure object storage<sup>\*</sup>

WORM Capability available with IBM Cloud Object Storage and Hitachi HCP



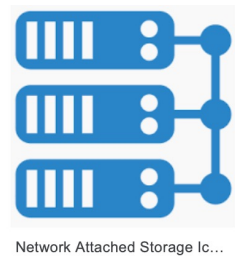
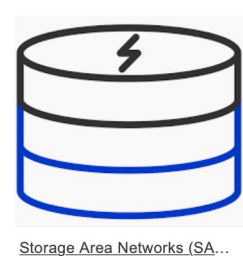
<sup>\*</sup>*TSM (Spectrum Protect) required for other object storage devices.*

*IBM Spectrum Protect cloud object storage support*

<https://www.ibm.com/support/pages/ibm-spectrum-protect-cloud-object-storage-support>

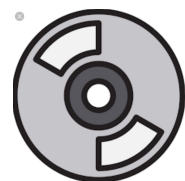
# Content Storage

Traditional SAN, NAS Storage



traditional SAN, NAS storage

Tape Storage



Object Storage



IBM COS



Openstack



Hitachi HCP



AWS S3



Azure

Hadoop HDFS



Wider choice of economical & highly scalable object storage support



# Why would you do a Hybrid Deployment?

- System Replatforming
- Lowering Total Cost of Ownership (TCO)
- Source of Content Generation
- Strategic Direction
- Ease of Operation/Management

# Couple of real world deployments

- Client is moving Datacentres to Azure
- Current CMOD run on zOS
- Two Phases in move
  - Phase One
    - Load from Azure to mainframe
  - Phase Two
    - Load from Azure to CMOD on Cloud (SaaS offering)
    - Load from mainframe to CMOD on Cloud (will be phased out)
- CMOD on Cloud
  - Includes IBM Cloud Object Storage for Tier two archive

# Couple of real world deployments

- Client considering moving zOS to Linux
  - Concerns
    - MIPS
    - Storage Costs
- Will stay on zOS with some changes to their deployment
  - Implement the zEDC card on zOS (now part of z15)
    - Moves compression to HW
  - Perform remote loads for Distributed generated content (Linux)
  - Leverage private IBM Cloud Object Storage instance
- Benefit
  - Lower TCO of running system
  - Leverage highly resilient deployment
  - Minimize migration

# Key Considerations

- What is the motivation?
- Does compliance play a role?
- Where do your skills reside?
- Do you have existing investment you can take advantage of?
- Risk vs reward
- What is your long term strategy?

# Key Contacts

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