SAP Protection and Recovery: Commvault Azure Platform for HANA & S/4
THE ‘DATA CENTRIC’ SAP PLATFORM

What you will learn in the next 20 minutes

• Why should I care about Commvault? -- The data centric SAP platform with Azure
• Why a data protection strategy with Commvault is critical for running SAP in hybrid cloud environments
• Why Commvault is great for SAP + Azure today
• Examples of how Commvault makes moving SAP to Azure Hybrid environments simpler and safer
• How Commvault makes any SAP installation better
Commvault Solution Overview

THE ‘DATA CENTRIC’ SAP PLATFORM
THE ‘DATA CENTRIC’ SAP PLATFORM

Flexible protection options to meet your Diverse Client Needs

- **Intuitive** – Management Console shows you what backups and/or snapshots are available.
- **Flexible** – HANA Multiple Data Component Ready
- **Scalable** – Supports Large Client Implementations
- **Unified**
  - Data is stored in a virtual data repository
  - Single addressable index across all data
  - Visibility of all data in a single consolidate view

Commvault Data Management Platform

*Backup, Archive, Search, Retrieve*
Azure Foundation Enablement:

Commvault enhances your ability to meet your complex client’s objective

Enterprise Cloud Backup

Cloud Migration Services

Cloud Disaster Recovery

Best in the Industry Support | Global Coverage
5 Reasons to use Commvault for SAP in Azure

- Get the most value out of Azure
  - Eliminate costly on-prem disk storage and tape
  - Faster time to value with policy-based data movement to cloud and automation

- Support for Streaming & Snapshot protection
  - Commvault is the only vendor that supports BOTH methods with one console
  - Broadest integrated snapshot support in the industry

- Automated Refresh of SAP Dev/Test systems
  - Automate and orchestrate SAP landscape refreshes
  - SID Renaming PRD to DEV
  - LAMA Integration

- No Custom Scripting Required
  - Automated and GUI-based management for backup and recovery (no scripts)
  - Support for all SAP databases, use cases and deployment types

- Cloud Accelerator
  - Meet tighter SLAs
  - Scalable cloud solution with fast direct from VM to blob storage access
  - Eliminates costly network hops and bottlenecks

Commvault and Azure help SAP customers reduce complexity, mitigate risk, and lower TCO
Yes! Commvault is SAP Certified

Commvault has the most diverse protection footprint

- All SAP-supported Databases, all Open Systems OSes
- Tight collaboration with SAP PM and Development
- Certified solutions wherever possible

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<th>SAP Interface</th>
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Commvault and Azure
Azure with Commvault delivers results

*Customer success validates value of joint efforts by industry leaders*

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**Pharma Use Case**

**CHALLENGES**
- SAP HANA in the Cloud utilizing Hardware in Co-Location
- DR in the Cloud
- Could not meet the appropriate data retentions as set out in the RFP
- Dell EMC and Veritas could not meet the security requirement with their backup software

**SOLUTION Provided by Commvault**
- SAP HANA in the Cloud / Co – Location (Equinix), SQL Always On and Backup\Recovery 3rd option
- Commvault Proxy from Equinix to West
- Cross Region DR (East to West) by installing a new DR Commserve

**BENEFITS**
- Delivered the RFP retention requirements
- Providing high availability and disaster recovery
- Full Featured Support as well as ability to work with Azure functionality

**Why Commvault with Azure ?**
Ability to fully integrate with Azure Cloud and SAP HANA requirements and easily adapt to changing requirements
Commvault Components in the Pharma Solution
*Meeting the client needs from their RFP*

- Commserve
- Media Agents
- Cloud Accelerator
- Proxy
- This solution enabled appropriate data retention required for client on Azure
Azure Large HANA Reference Architecture with Commvault

Reference Architecture
- Base
- CommCell
- Media Accelerators
- Proxy

Commvault The Data Platform
- Enabling ASR
- Enabling SQL Always on
- Enabling HSR
Azure SAP Use Cases
Commvault enables the Data Foundation

- **Foundational Approach** – Our best of breed data mover allows you to be confident that your foundation will be able to move all of the data your to Azure

- **Cloud Agnostic** Choose your cloud without sacrificing features

- **Storage Agnostic** – Our storage integration story is second to none. Allowing you to say yes we can move that

- **Stream, Snapshot or Both** One tool without compromising your clients preferences or infrastructure
Enabling DR with Multi Region Cloud Support

Commvault can meet or exceed their client’s RFP needs through:
- Commvault integrates snapshots with streaming backint
- Diverse snapshot support with IntelliSnap – eg Nimble, Dell EMC

Enabling the Azure Cloud

• DR Ready w/Cross Region
  Enabling your clients to work across region

• Lower RPO/RTO
  By utilizing CVLT’s IntelliSnap and HANA iData Agent.
CVLT Cloud Accelerator for SAP HANA Enables Tighter SLA’s!

• **Commvault writing to Blob Storage Faster**
  
  Writes/Reads **directly** to Blob, or any cloud blob storage 10TB/h+ depending on HANA node count

  • The more nodes you have the more data you can push through
  
  • Commvault Cloud Accelerator removes the data mover network hop from VM → data mover → storage

  • Linearly scales Blob and object storage performance because of parallelism of IOPS

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**Enabling the Azure Cloud**

• **Faster** – You can meet your RPO/RTO, SLA’s

• **More Efficient** – Less network traffic client writes directly to the storage

• **Ease of Use** – Easier to set up and maintain than traditional approaches

• **Consolidated** - All resources are managed on the client
SAP Toolset – BEYOND
Migration Backup and Recovery
Effectively Managing your SAP Archiving needs

**SAP Archiving to Azure using Commvault**

- **Enabling the Azure Cloud**
  - Reduce your database size
  - Reduce your backup time
  - Reduce response time to increase your performance
  - Reduce upgrade duration
  - Reduce system shut-downs
  - Reduce your infrastructure growth

**Better SAP environments perform SAP Archiving**

- Providing our clients with a secure encrypted indexed archival store.
- Fully compatible with all of the configurable SAP Archiving Transactions
One-Click SAP Refresh with Commvault LAMA Integration

Enabling the Azure Cloud
- One-Click SAP System Refresh System
- Leverage existing streaming or snapshots based backups
- Increase synergies and eliminate additional tools
- Faster time to value for SAP roll-outs

LAMA Environment in Azure
- Leverage Hybrid or All-in models with Commvault
- Plug existing Commvault environments into SAP LAMA for automated
  **One-Click** DevOps (Dev, QA, Test, refreshes)
- On Prem or in Azure
Analysts Review
COMMVAULT: THE CLEAR INDUSTRY LEADER
Commvault Recognized with the 1-2 Punch of Industry Leadership from Gartner and Forrester

A Leader in the 2017 Gartner Magic Quadrant for Data Center Backup and Recovery Solutions
Commvault positioned farthest in completeness of vision among leaders

A Leader in The Forrester Wave™: Data Resiliency Solutions, Q3 2017
Commvault recognized with the top-ranked current offering in data resiliency
 Customers state the value of Commvault

**IDC conducted customer survey captures real business value**

IDC’s statistically valid survey of Commvault customers\(^1\) validates that Commvault delivers:

- **54% reduction** in cloud provisioning and cloud data management
- **42% reduction** in annual hours of unplanned downtime
- **63% drop** in perceived risk exposure

Wrap up \ Next Steps
Thank you.