



SAP Protection and Recovery:
Commvault
Azure Platform for HANA & S\4

▶ Robert Peters | Solution Director Alliances SAP

▶ 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

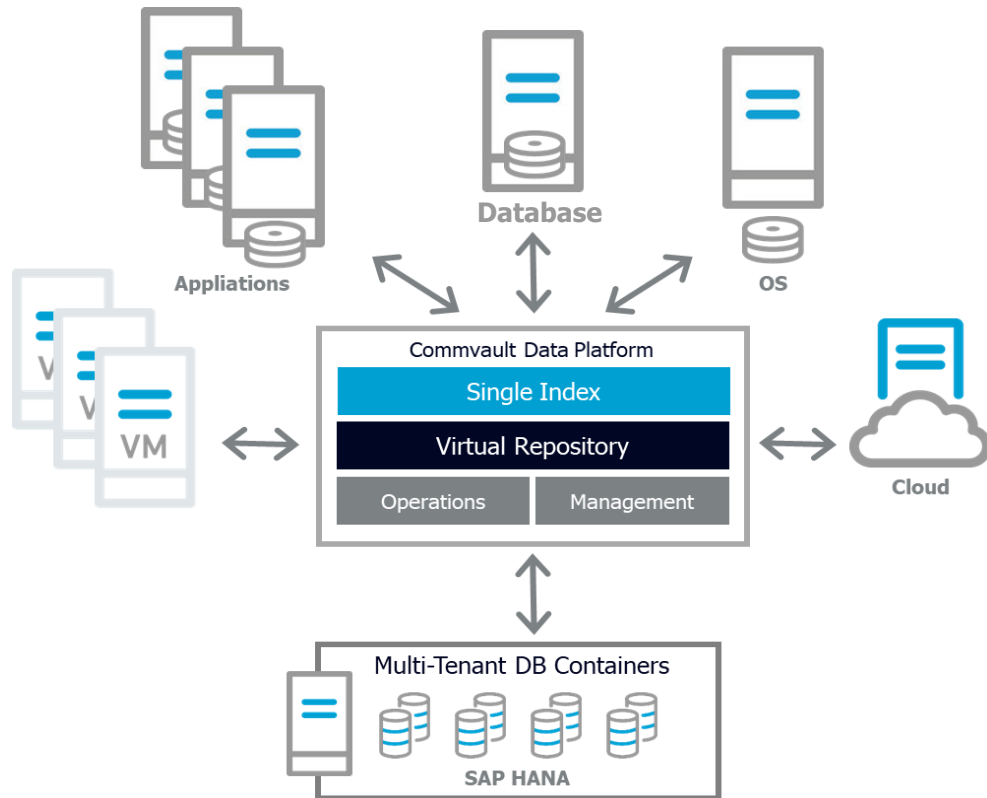
▶ THE 'DATA CENTRIC' SAP PLATFORM



▶ THE 'DATA CENTRIC' SAP PLATFORM

SAP® Certified
Integration with SAP HANA®

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

Physical

Virtual

Private

Commvault Data Management Platform
Backup, Archive, Search, Retrieve

Hybrid

Public M

Public A

▶ Azure Foundation Enablement:

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



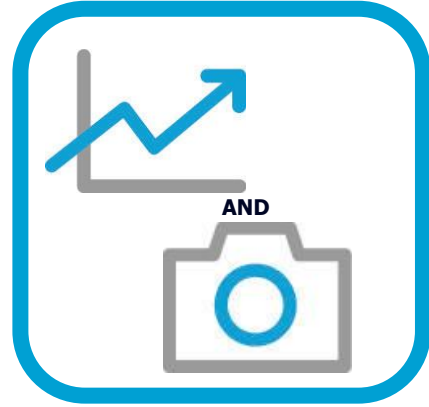
► 5 Reasons to use Commvault for SAP in Azure

Get the most value out of Azure



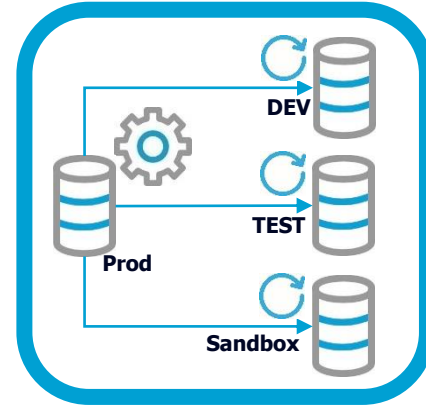
- Eliminate costly on-prem disk storage and tape
- Faster time to value with policy-based data movement to cloud and automation

Support for Streaming & Snapshot protection



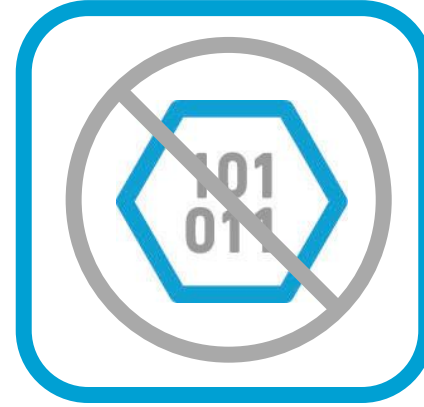
- Commvault is the only vendor that supports **BOTH** methods with one console
- Broadest integrated snapshot support in the industry

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 SLA



- 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
- Certified SAP Archiving solution

SAP® Certified
Integration with SAP NetWeaver®

SAP® Certified
Integration with SAP HANA®

Database Agent	SAP certified	SAP Integration	SAP Interface	Intellisnap On-Prem	Intellisnap On Azure
SAP on Oracle	Y	BRTOOLS DB13 DBA Cockpit	Backint for Oracle RMAN Integr.	Y	TBD
Oracle RMAN	N/A	N	N/A	Y	TBD
SAP on MaxDB	Y	DBM DB13 DBA Cockpit	Backint for MaxDB	N	N
DB2	N/A	DB13 DBA Cockpit	N/A	Y	TBD
MSSQL	N/A	N	N/A	Y	TBD
SYBASE	N/A	N	N/A	Y	TBD
HANA	Y	HANA Studio HANA Cockpit, DB13, DBA Cockpit	Backint for HANA	Y	TBD



▶ Commvault and Azure

▶ Azure with Commvault delivers results

Customer success validates value of joint efforts by industry leaders

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

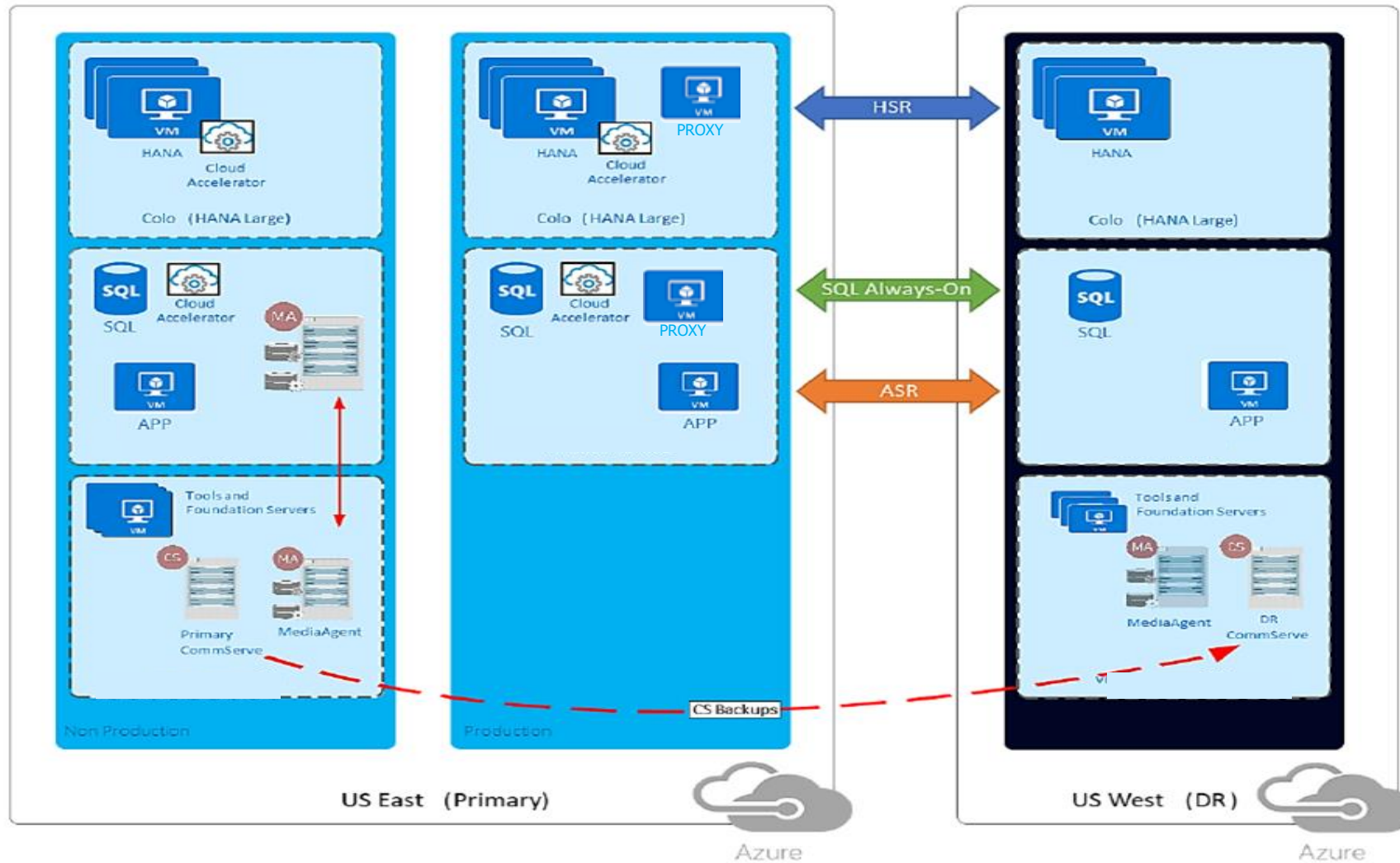
- Delivered the RFP retention requirements
- Providing high availability and disaster recovery
- Full Featured Support as well as ability to work with Azure functionality

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

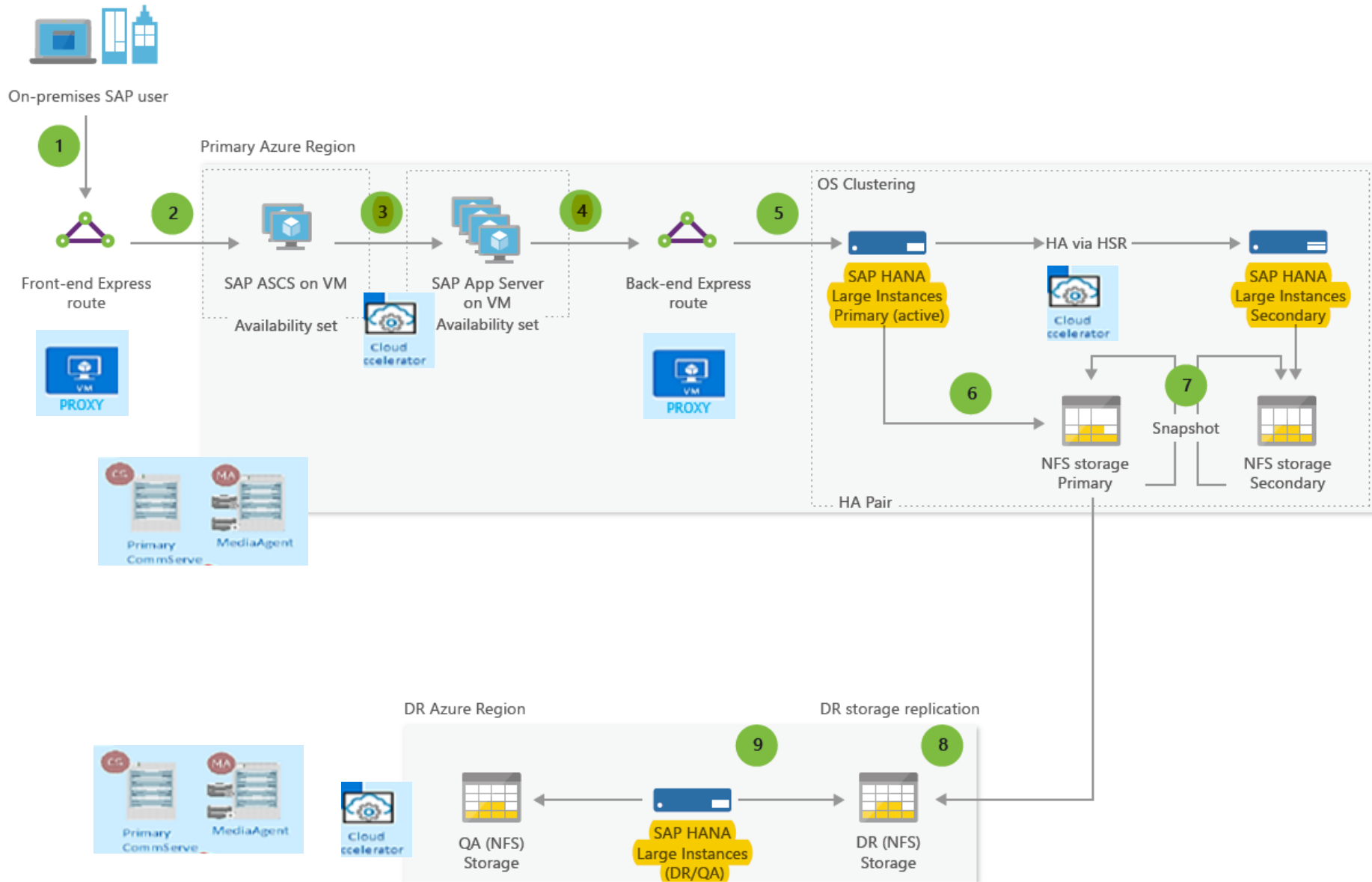
Meeting the client needs from their RFP



Commvault Components

- Commserve
- Commserve - DR
- 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

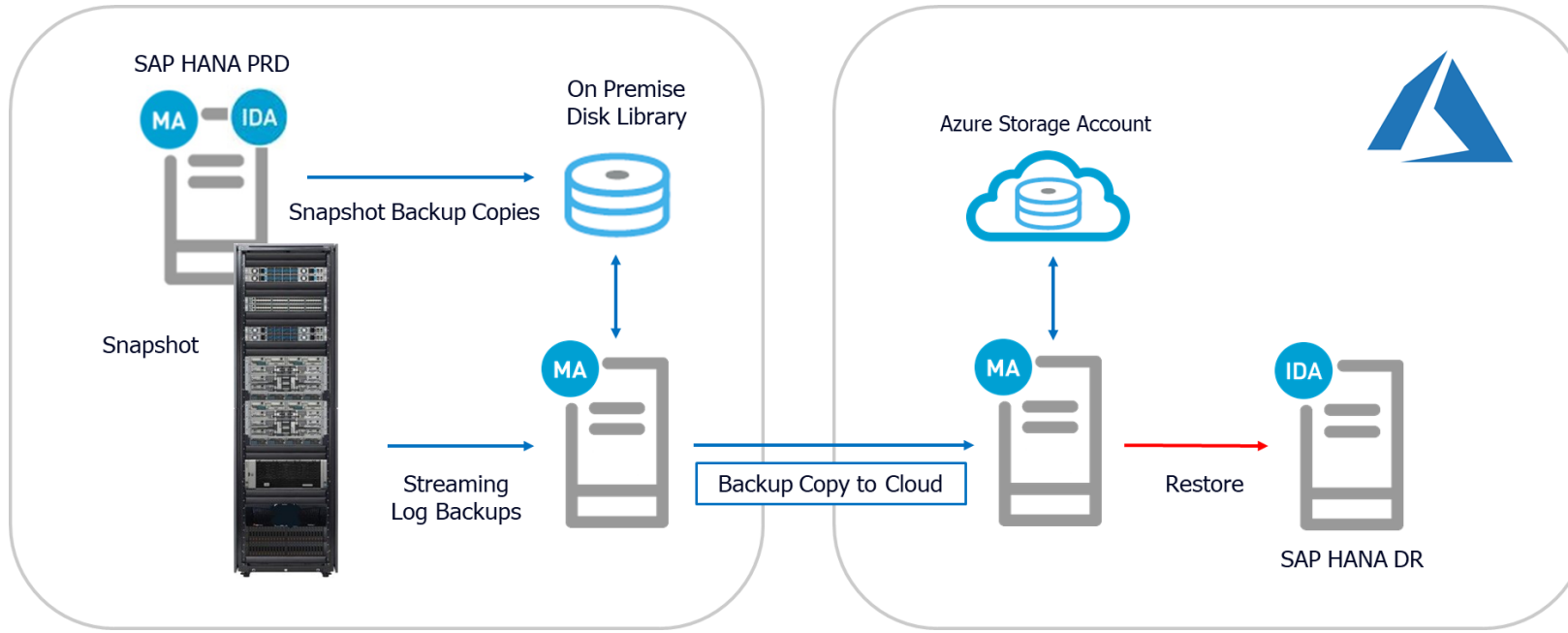
Commvault The Data Platform

- Enabling ASR
- Enabling SQL Always on
- Enabling HSR



▶ Azure SAP Use Cases

▶ Accelerating Your Journey to Azure!



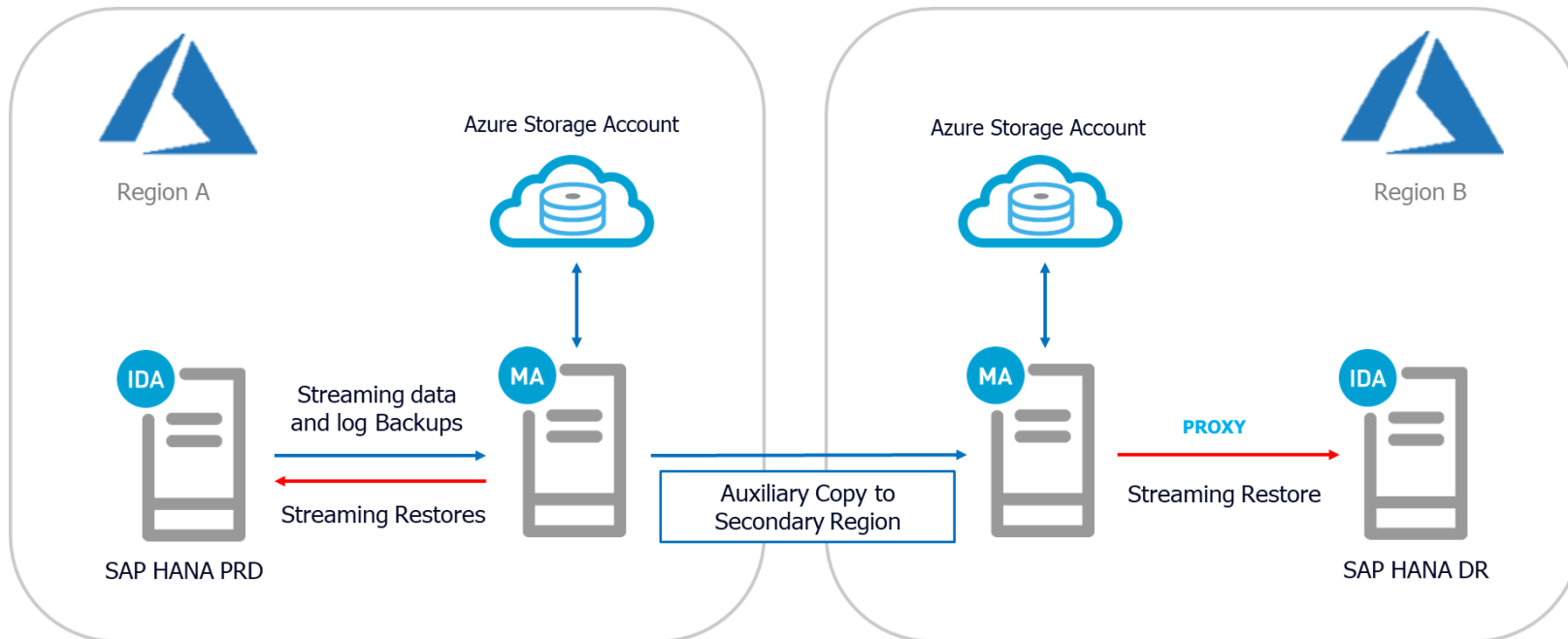
Commvault enables the Data Foundation

- **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

Enabling the Azure Cloud

- **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

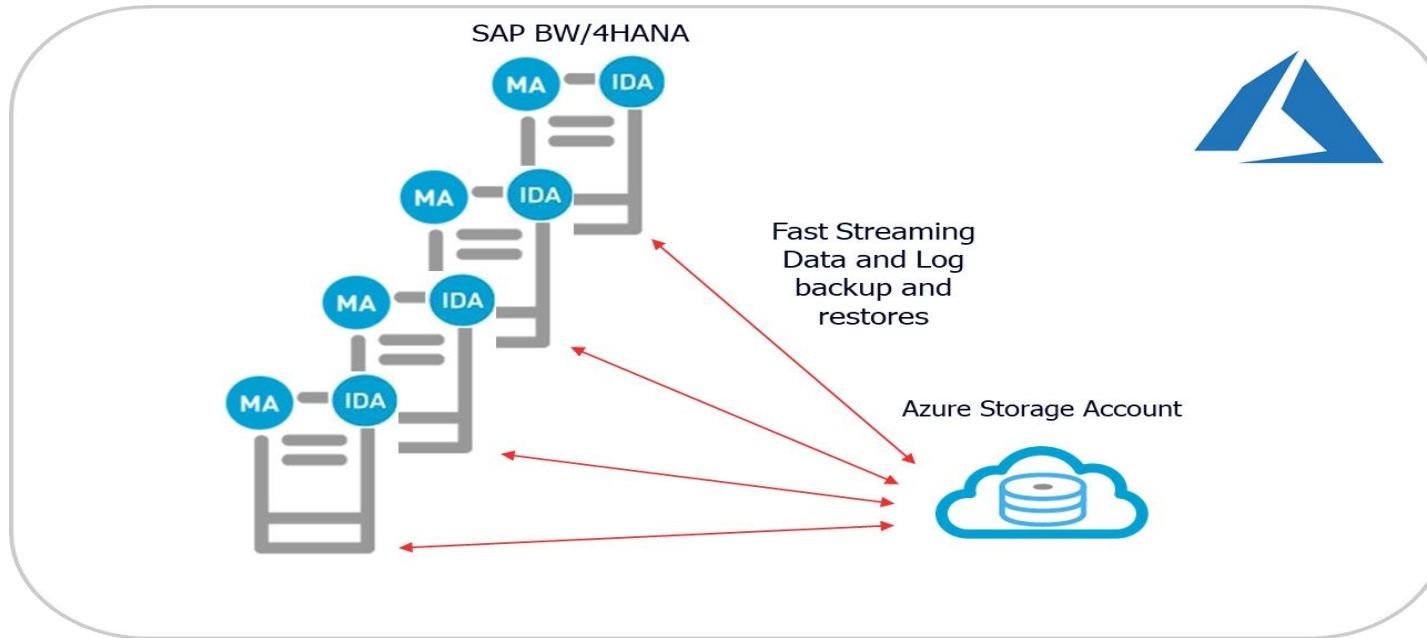


Enabling the Azure Cloud

- **DR Ready w/Cross Region**
Enabling your clients to work cross region
- **Lower RPO/RTO**
By utilizing CVLT's IntelliSnap and HANA iData Agent.

- *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
 - ...

▶ 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

Enabling the Azure Cloud

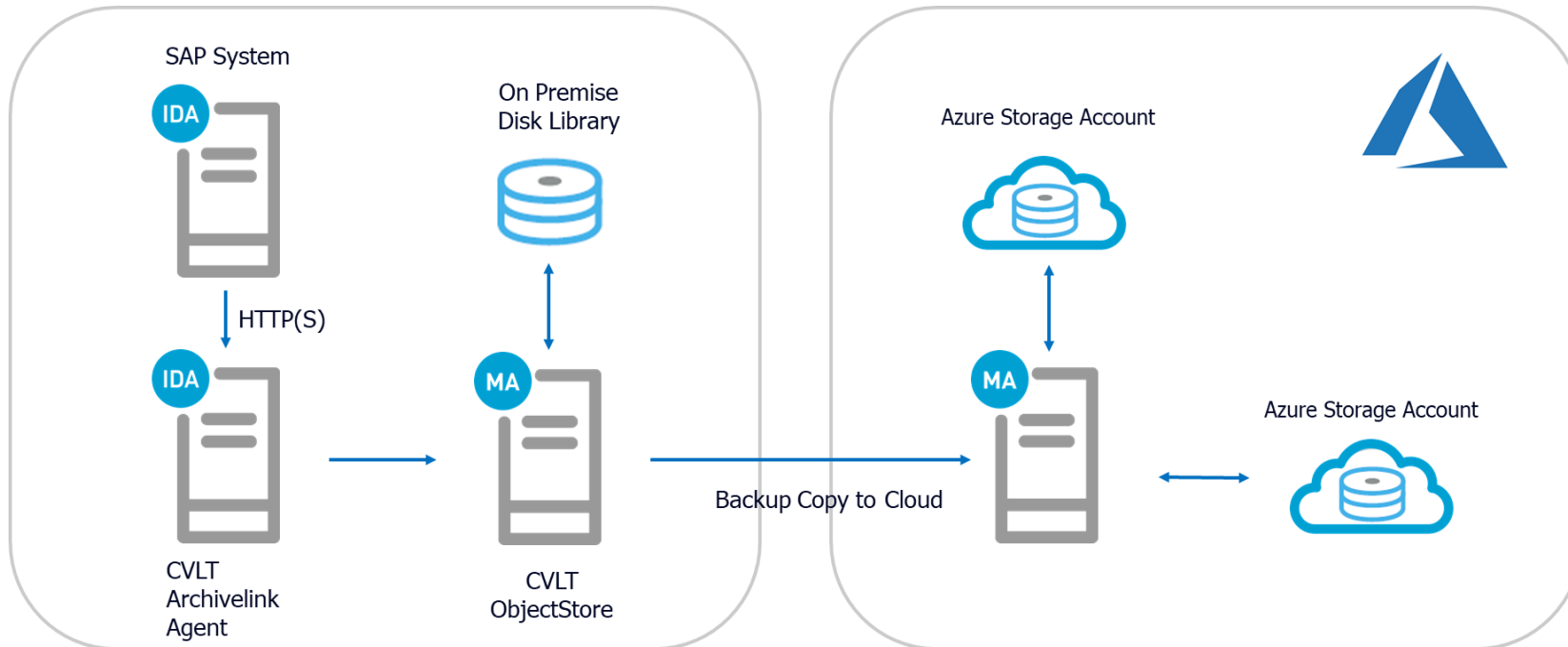
- **Faster** – You can meet your RPO\RTO, SLA's
- **More Efficient** – Less network traffic client writes directly to the storage
- **Ease of Use** – Easier to set up and maintain than traditional approaches
- **Consolidated** - All resources are managed on the client



▶ SAP Toolset – BEYOND
Migration Backup and Recovery

▶ Effectively Managing your SAP Archiving needs

SAP Archiving to Azure using Commvault



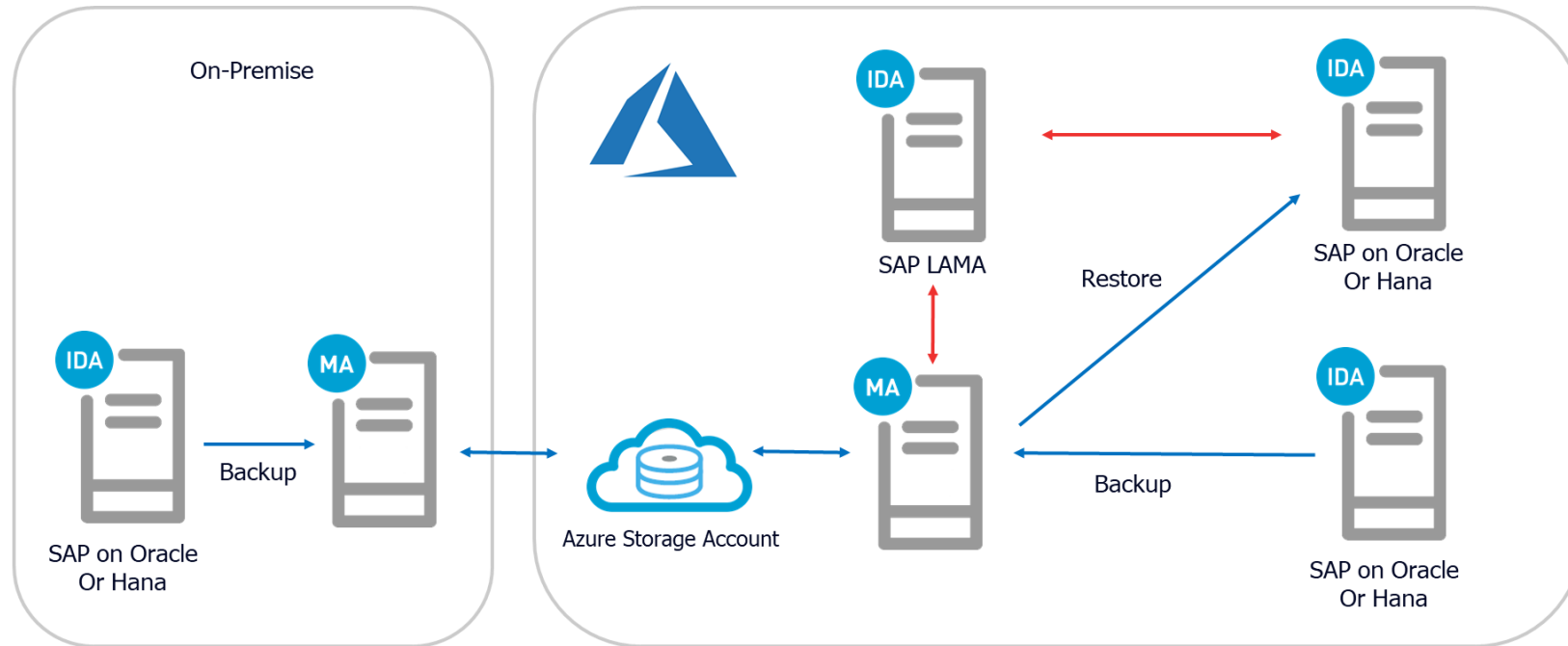
Enabling the Azure Cloud

- 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



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

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



▶ 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



Figure 1. Magic Quadrant for Data Center Backup and Recovery Solutions



The Magic Quadrant is a graphical representation of a marketplace at and for a specific time period. It depicts Gartner's analysis of how certain vendors measure against criteria for that marketplace, as defined by Gartner. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. **GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally, and is used herein with permission. All rights reserved.**

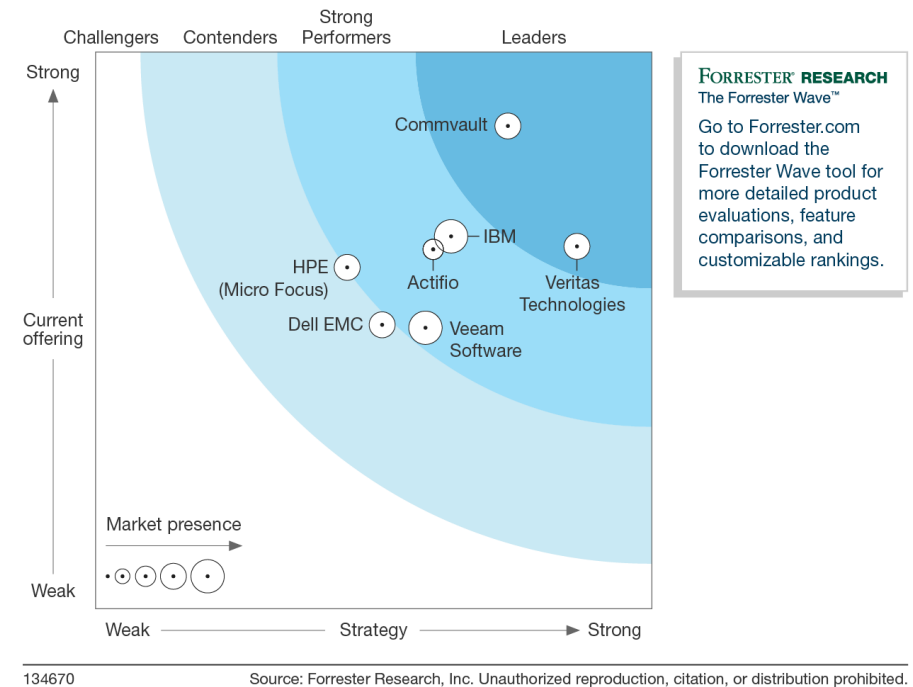
A Leader in The Forrester Wave™: Data Resiliency Solutions, Q3 2017

Commvault recognized with the top-ranked current offering in data resiliency



Forrester Wave™: Data Resiliency Solutions, Q3 '17

The Forrester Wave™: Data Resiliency Solutions, Q3 2017

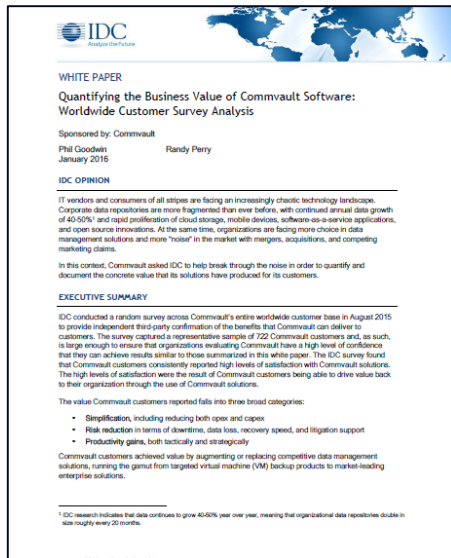


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▶ Customers state the value of Commvault

IDC conducted customer survey captures real business value



IDC's statistically valid survey of Commvault customers¹ 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.

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