

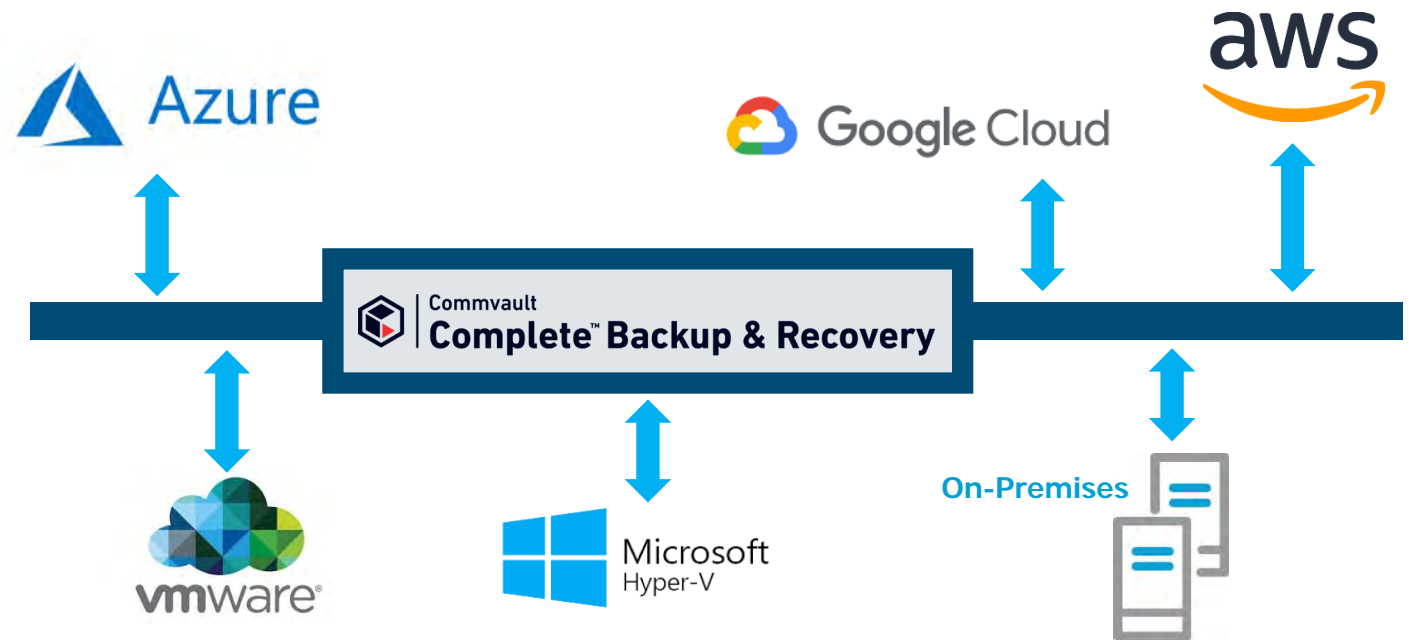


► 5 REASONS WHY:
Commvault® software allows
you to “Cloud Responsibly”

COMMVAULT® 

► What you'll learn today about cloud data management

- Increases in cloud usage as a flexible storage option
- How to move, manage and use data to, from and across clouds
- Why a single platform helps with the management of data on-premises and in cloud(s)



► Top reasons to move to the cloud

- Increase customer focus through business agility
- Cost savings
- Enable innovations and development of new applications, products and services
- Replacing tape storage
- Move away from legacy applications and infrastructure
- See better value from IT staff



▶ Common cloud data protection questions



High volume of data, scattered around the world. How can I get it to cloud quickly and securely?



Too many different tools for different data types. Why do I have so many?



How can I manage ransomware and Disaster Recovery?



How can I consolidate data simply and consistently?



How do I drive compliance for regulations like GDPR?

▶ Streamline managing shared responsibility in the cloud

Native cloud

- Manual migration
- Cloud only views
- No deduplication

Backup tools

- Hidden complexity
- Costs quickly escalate
- Proprietary gateways
- External deduplication
- Data recovery?

Commvault Complete™ Backup & Recovery

- Native cloud integration
- Single pane of glass
- Cost control
- On-premises and cloud
- Integrated encryption
- Global deduplication
- Data recovery
- Data portability



Cloud responsibly with Commvault.

Multi-cloud data management.

WE'VE GOT YOUR BACK.

► Comprehensive data management across cloud projects



Move data

Move by storing data in the cloud

- Which cloud platform(s)? What cloud APIs, resources, and tiers?
- What data sets to target? How to securely move them?



Manage data

Manage applications from data centers to the cloud

- What are the risks in the cloud? How do I protect and govern data in the cloud?
- How do I use the cloud tools effectively? What additional tools do I need?



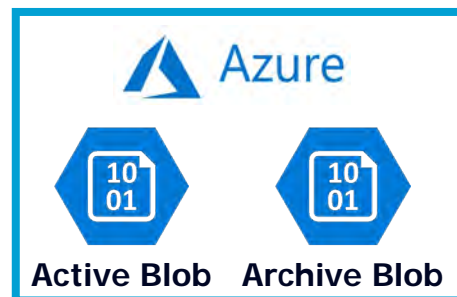
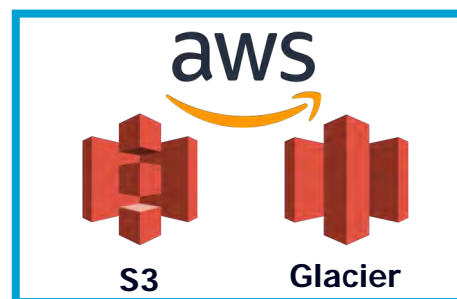
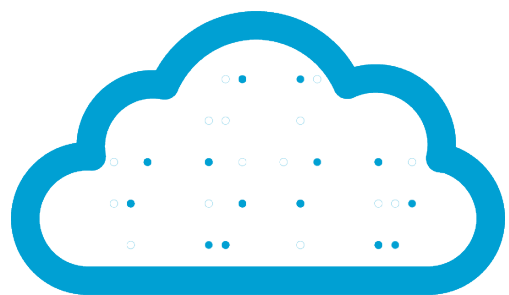
Use data

Use cloud as an extension of data center - Disaster Recovery, Dev & Test, BI

- Which services can be cost effectively run in cloud?
- What is the learning curve? How much manual intervention and automation will be needed?

► REASON #1: Smart, native integration with cloud technology

The first and most important step is how you move data to the cloud

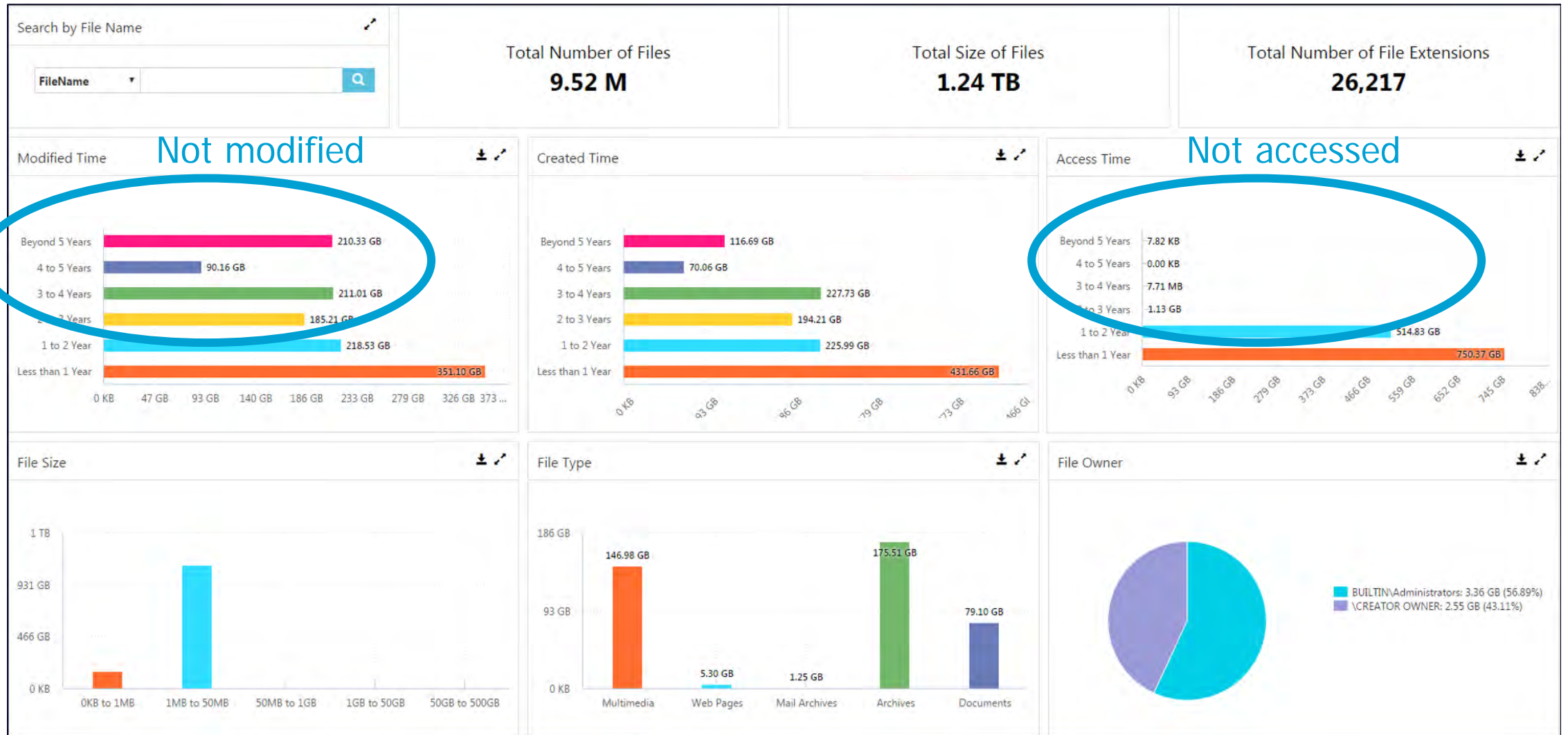


**Native integration with cloud providers
directly to the storage tiers**

Why native integration matters

1. No cloud infrastructure required, reducing storage and access costs
2. Allows for data to be leveraged for future use in native formats
3. Data is fully indexed and accessible
4. Deduplication can be supported for efficient network transfer
5. Data can be encrypted data in transit and at rest

► Commvault®: Insight into cloud data migration potential



▶ REASON #2: Built-in multi-cloud support



IBM Cloud



Google Cloud Platform

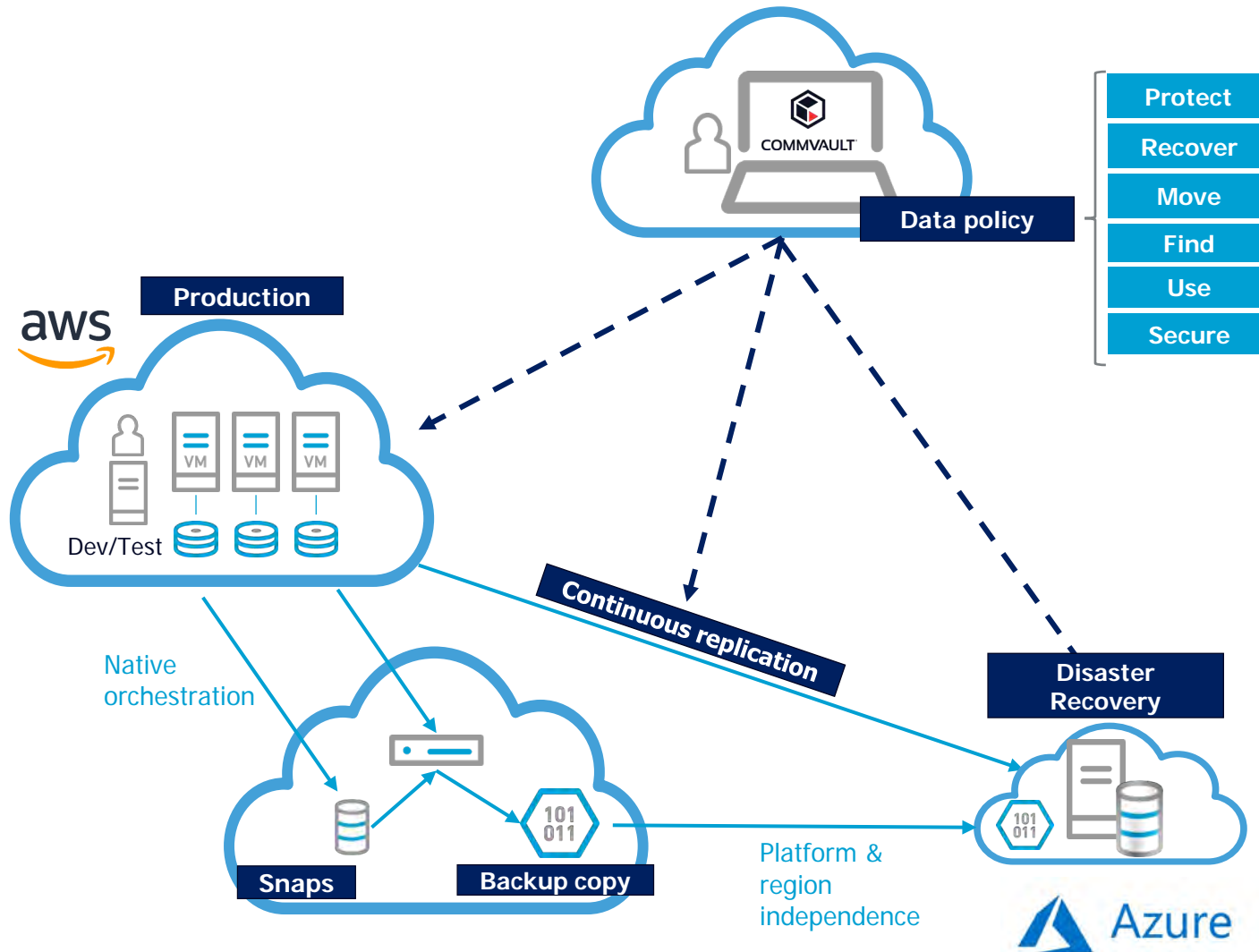
Freedom of choice

Use one cloud provider or leverage multiple providers

Multi-cloud management right at your fingertips

Run multiple accounts from a single cloud provider using one solution

► Manage data across multiple clouds and on-premises



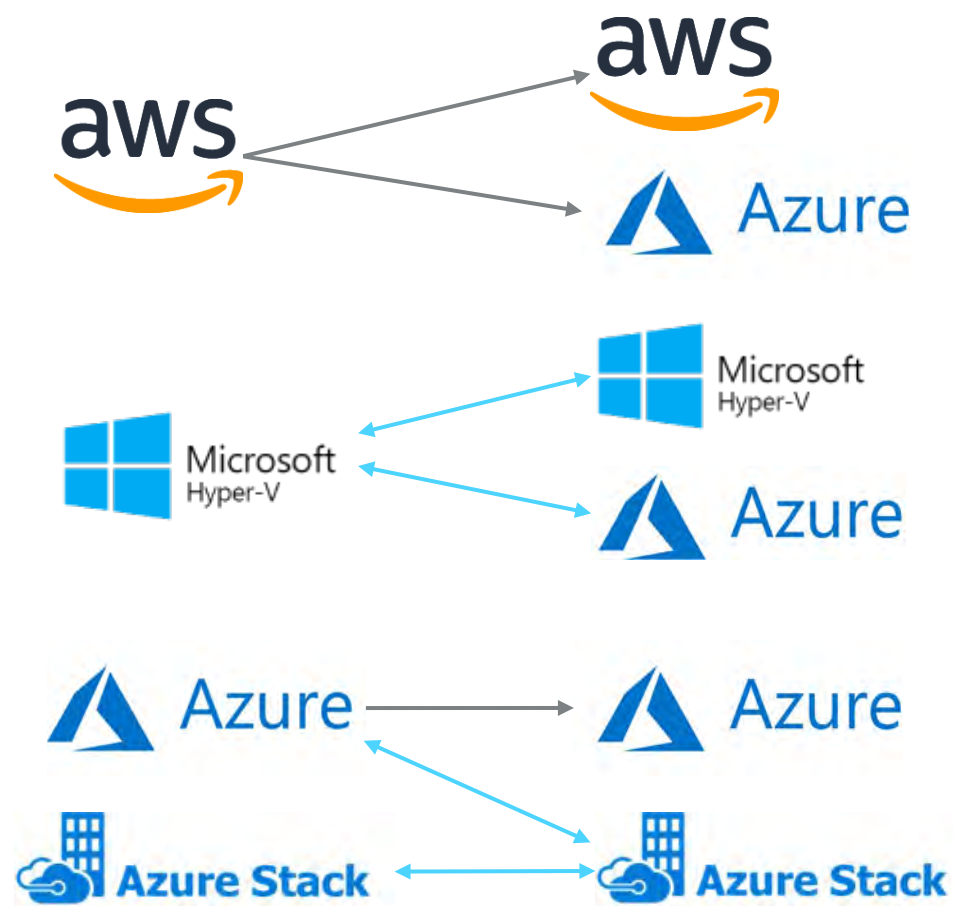
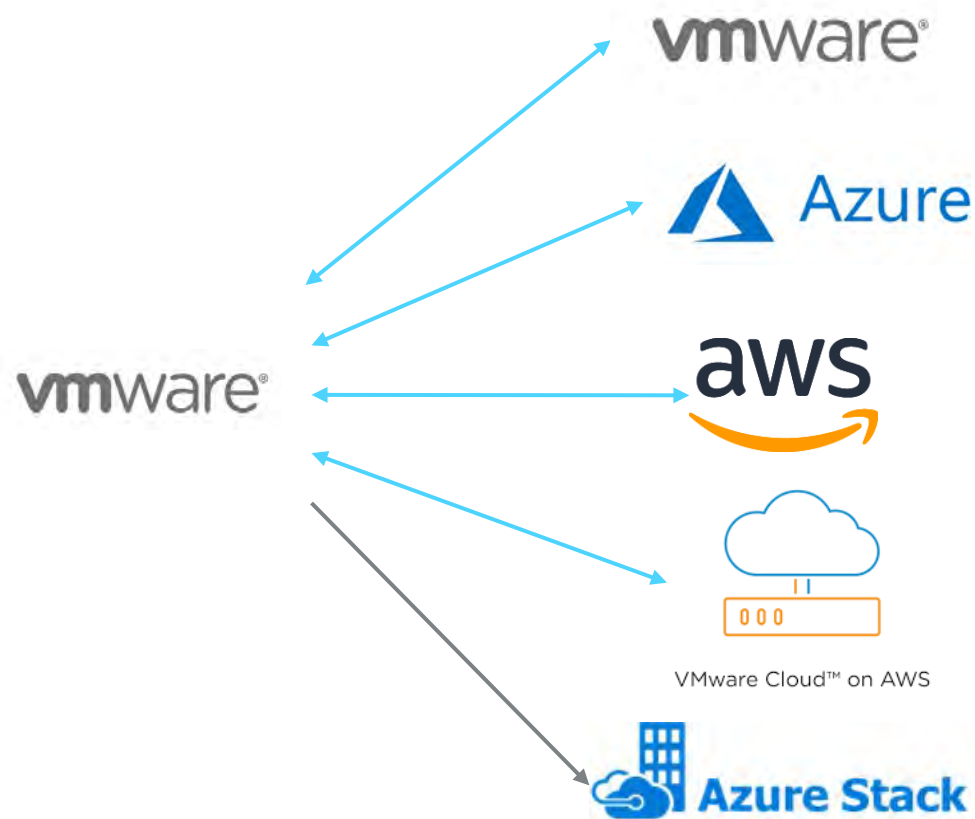
Multi-cloud control and scale

- Consistent, strategic data management policies across on-premises and cloud storage
- Know what data you have, where it lives and what needs to happen to it
- IT resource orchestration and control speeds time to value
- Automate data archiving: move legacy data and applications to the cloud based on pre-set retention schedules

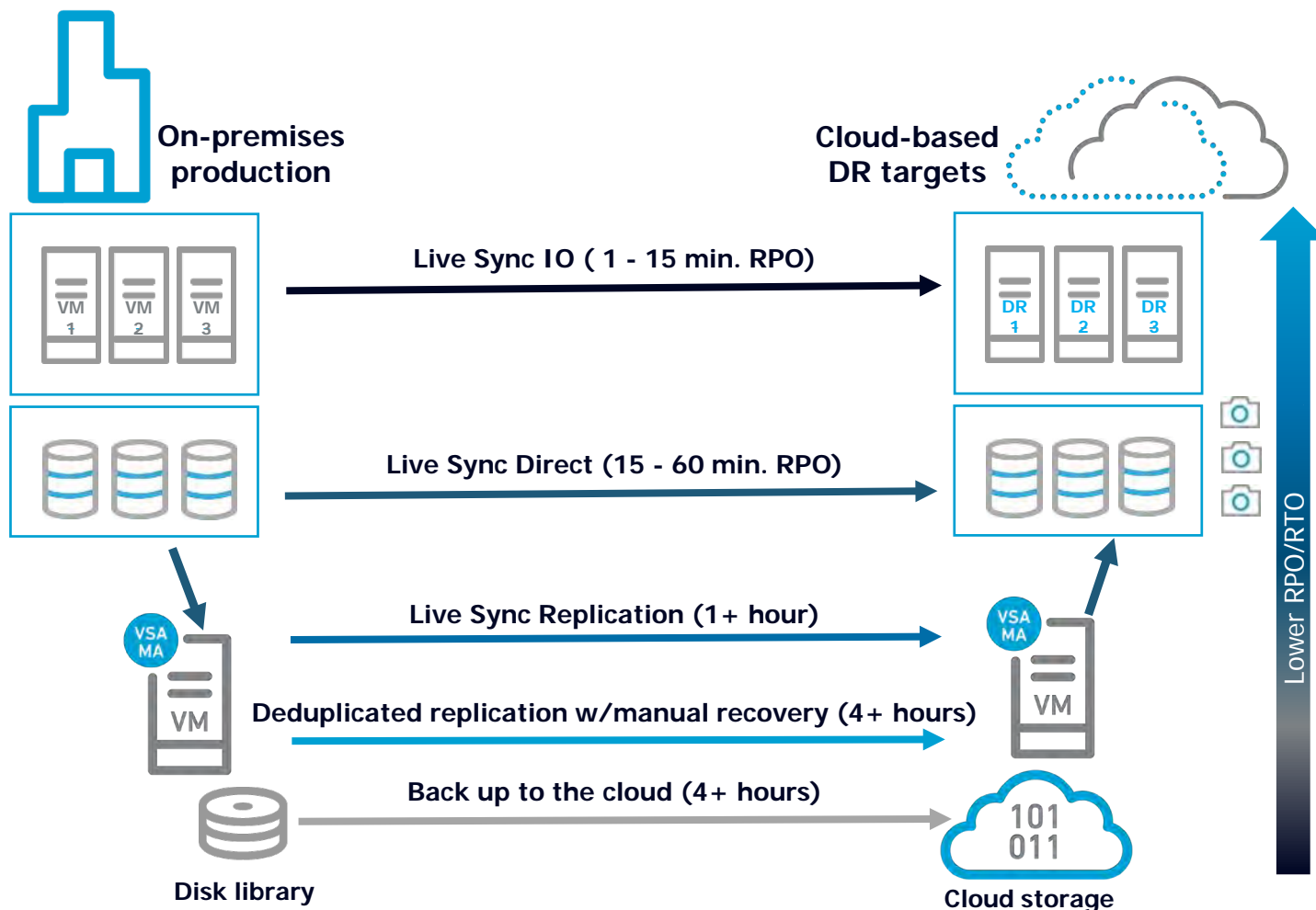
► REASON #3: Multi-cloud migration to, from, and across clouds

↔ Native replication with failover and failback

→ Native conversion and migration



► REASON #4: Multi-cloud Disaster Recovery made easy



COMMVAULT® CLOUD DATA PROTECTION CUSTOMER STATISTIC

48% of surveyed Commvault cloud customers are using cloud for disaster recovery.

48%

Source: TechValidate survey of 199 users of Commvault® Cloud Data Protection

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TechValidate

Validated Published: May, 2018 TVID: 9DD-8E0-0D4

COMMVAULT® SOFTWARE CUSTOMER TESTIMONIAL

How has Commvault helped achieve your company's cloud data management goals?

“We can confidently recover our most critical data in the event of a massive failure or disaster.

— Network Administrator, Educational Institution

Source: Network Administrator, Educational Institution

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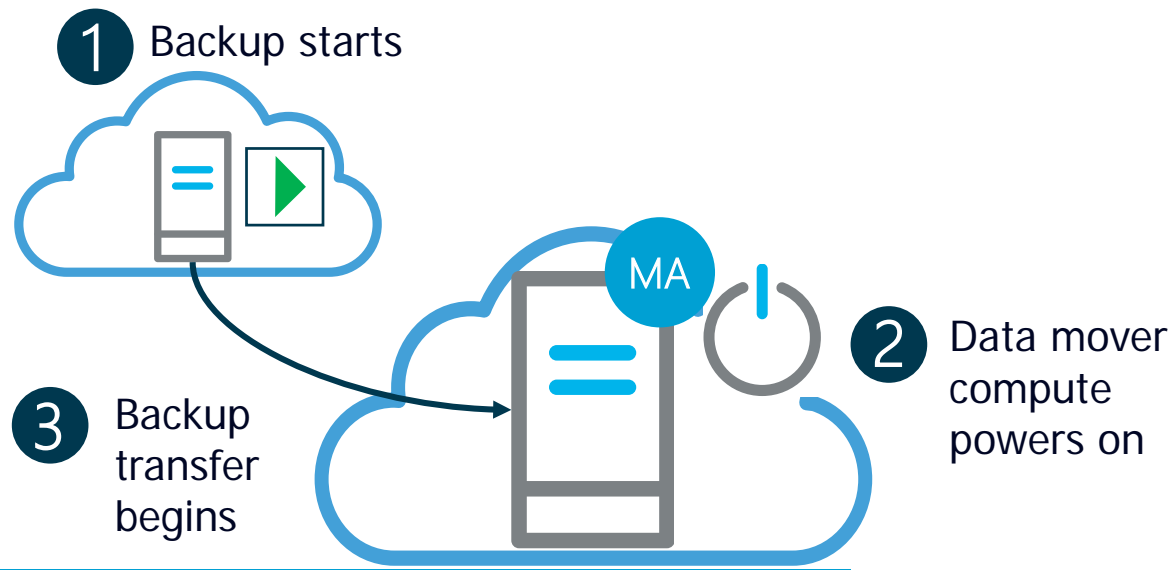
TechValidate

Validated Published: May, 11, 2017 TVID: 24C-F9E-F8E

Source: [TechValidate survey of 306 users of Commvault® software, May 2017.](#)

► REASON #5: Cloud resource management and control

Power up/down control of cloud resources reduces cloud waste = cost



Media agent powers off when no more jobs are active

Provision and retire dev and test resources automatically

Compute



200
ON-PREMISES
DAY +2 WEEK -2

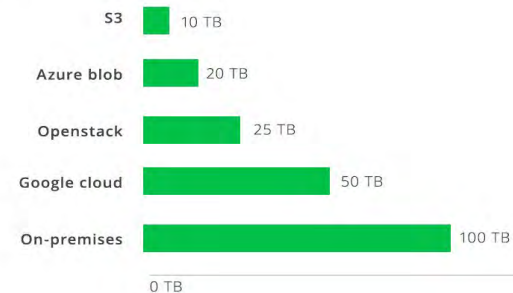


100
AMAZON
DAY +2 WEEK -2

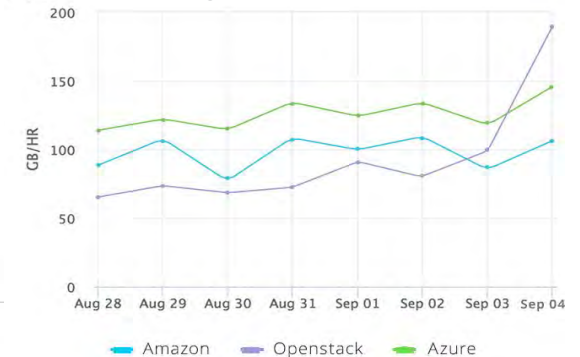


10
AZURE
DAY +2 WEEK -2

Storage

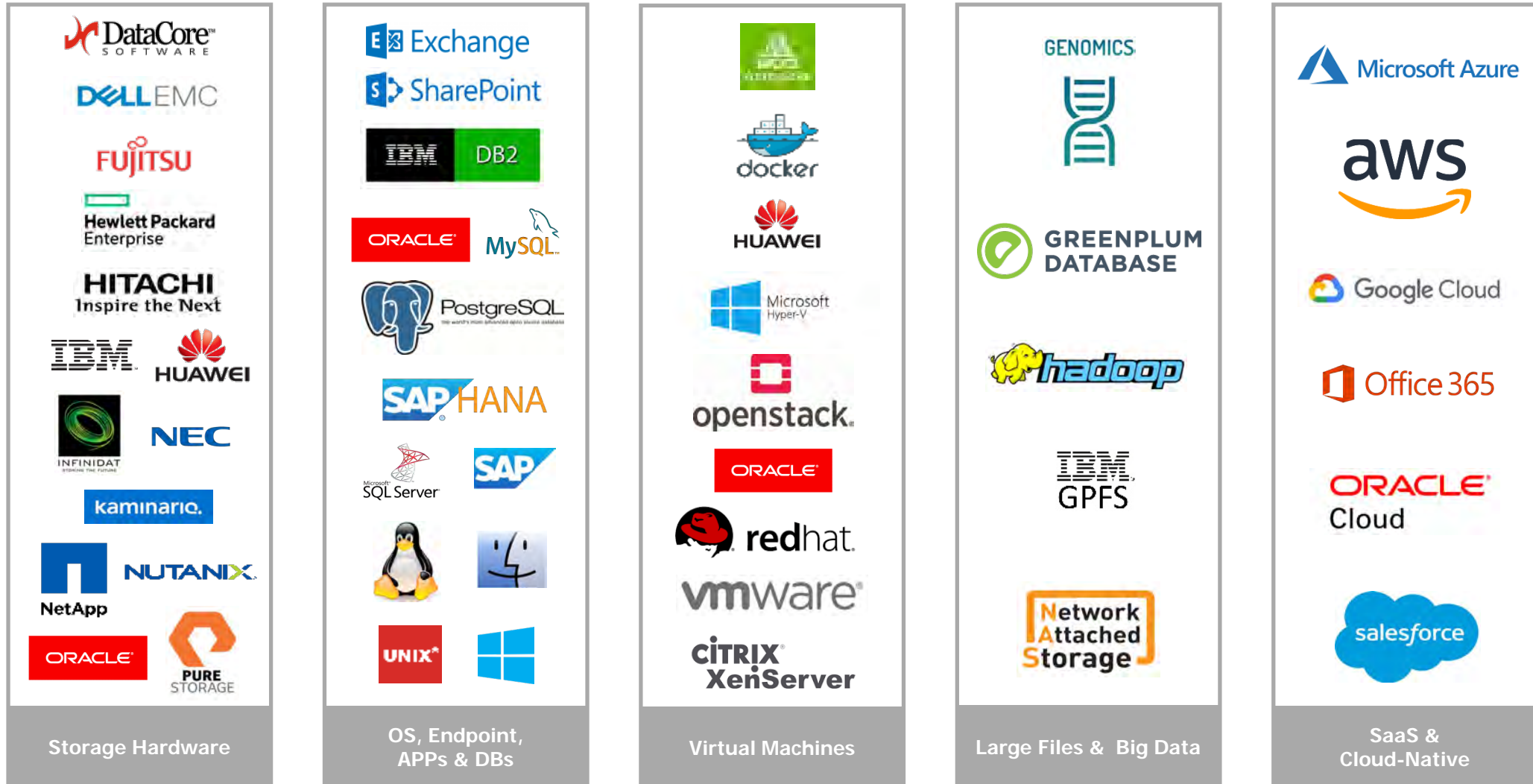


Cloud backup throughput



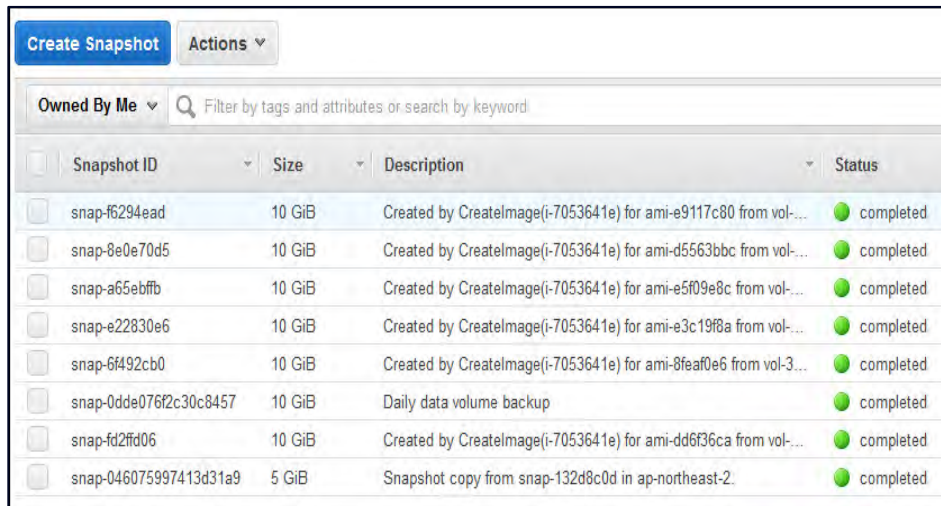
Know what you are using with an intuitive dashboard

► Support for applications, hypervisors, big data, endpoints...



► Streamlined snapshot management with cost control

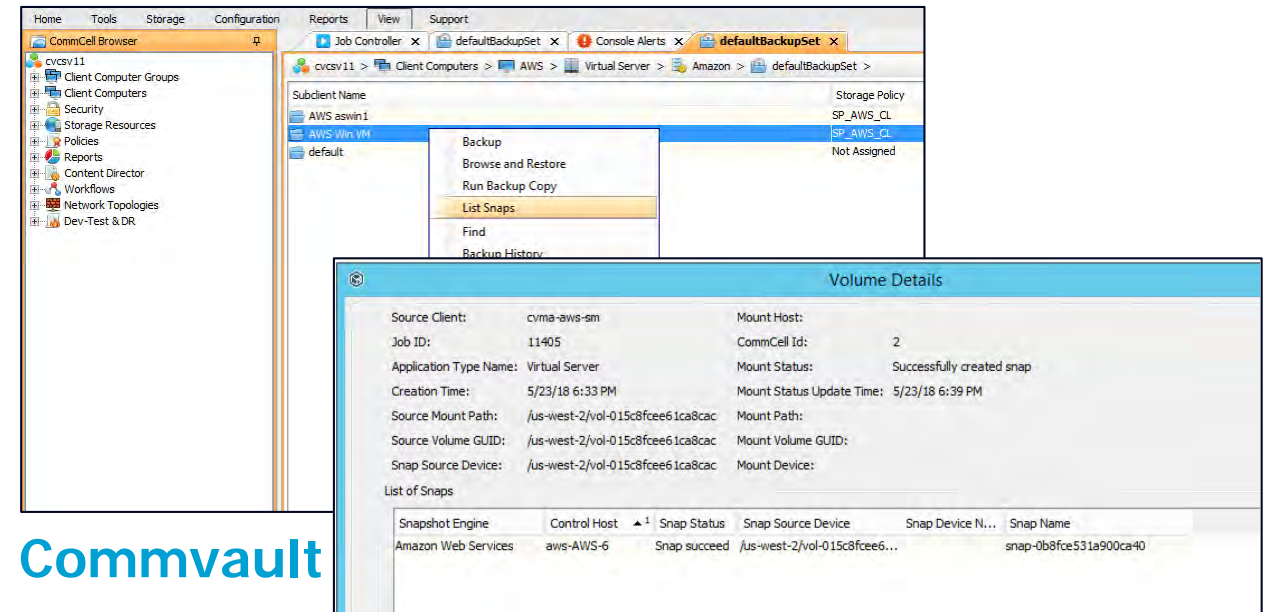
- 1 virtual machine, 1 snapshot/hour = 24 snapshots each day
- 100 VMs, 100 snaps/hour = 2,400 per day or 72,000 per month
- How exponential is your snapshot management problem?



The screenshot shows a web interface for managing snapshots. At the top, there is a 'Create Snapshot' button and an 'Actions' dropdown. Below this is a search bar with the text 'Owned By Me' and a filter option 'Filter by tags and attributes or search by keyword'. The main area is a table with columns: Snapshot ID, Size, Description, and Status. The table lists several snapshots, all with a status of 'completed'.

Snapshot ID	Size	Description	Status
snap-f6294ead	10 GiB	Created by CreateImage(i-7053641e) for ami-e9117c80 from vol-...	completed
snap-8e0e70d5	10 GiB	Created by CreateImage(i-7053641e) for ami-d5563bbc from vol-...	completed
snap-a65ebffb	10 GiB	Created by CreateImage(i-7053641e) for ami-e5f09e8c from vol-...	completed
snap-e22830e6	10 GiB	Created by CreateImage(i-7053641e) for ami-e3c19f8a from vol-...	completed
snap-6f492cb0	10 GiB	Created by CreateImage(i-7053641e) for ami-8feaf0e6 from vol-3...	completed
snap-0dde076f2c30c8457	10 GiB	Daily data volume backup	completed
snap-fd2fd06	10 GiB	Created by CreateImage(i-7053641e) for ami-dd6f36ca from vol-...	completed
snap-046075997413d31a9	5 GiB	Snapshot copy from snap-132d8c0d in ap-northeast-2.	completed

Native cloud



The screenshot shows the Commvault interface. On the left is a navigation tree with categories like Client Computer Groups, Security, Storage Resources, Policies, Reports, Content Director, Workflows, Network Topologies, and Dev-Test & DR. The main area displays a table of snapshots. A context menu is open over the 'default' snapshot, showing options: Backup, Browse and Restore, Run Backup Copy, List Snaps, Find, and Backup History. Below this, a 'Volume Details' dialog box is open, showing information for a specific snapshot.

Snapshot Engine	Control Host	Snap Status	Snap Source Device	Snap Device N...	Snap Name
Amazon Web Services	aws-AWS-6	Snap succeed	/us-west-2/vol-015c8fcee6...		snap-0b8fce531a900ca40

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▶ Accelerate your cloud data management projects

Start at commvault.com/cloud for your free 30 day trial, plus demo videos, webinars, architecture guides, white papers, customer stories and more

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A Checklist for Cloud Data Management

Upgrade your data management strategy to support today's demands. The system - systems - you purchased or inherited years ago are probably not appropriate for the data protection needs of your organization.

A researching data protection that supports files, work, plus both public and private clouds.

MENT DOES THIS SYSTEM SUPPORT?

- Microsoft
- Disaster Recovery
- VMware
- Network

DEPTH OF CLOUD SUPPORT

- Google Cloud
- Azure
- Oracle Cloud
- IBM Cloud
- Microsoft
- Google Cloud
- Amazon
- IBM Cloud
- Microsoft
- Google Cloud
- Azure
- Oracle Cloud
- IBM Cloud
- Microsoft

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Azure

Commvault and Microsoft Azure Solution Showcase

CONSTRUCTION

Laing O'Rourke

A leading construction and engineering enterprise, Laing O'Rourke brings innovation and excellence to the sector through its digital and offsite manufacturing approach.

[Read the Case Study](#)

Google

Georgia State uses Google Cloud Platform to improve disaster recovery

Disaster recovery is a critical part of any organization's business continuity plan. Georgia State University has adopted Google Cloud Platform to improve its disaster recovery capabilities.

Google Cloud Platform is a cloud computing platform that provides a wide range of services, including storage, computing, and networking. Georgia State University has adopted Google Cloud Platform to improve its disaster recovery capabilities.



▶ Thank you.

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