



Commvault Overview

Commvault Cloud, powered by Metallic AI

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Don Maruca, VP, Federal Sector

Richard Breakiron, Corporate FSO, Federal Field CTO

Grant Wagner, Sales Director, DoD & IC

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November 2023



Agenda – Why Commvault

- Thanks for this Opportunity
 - Basic Background – Commvault & Major Launch Today
 - Key Performance Indicators (KPIs) Driving Best Value Award at JSP (HaCC)
 - Fully Integrated Data Insight Solutions from File Storage Optimization & Records Management (think NARA) to Insider Threat Identification
 - Metallic Demonstration
- 

The Trusted Leader in Cyber Resilience

#1

in cyber resilience for more than 25 years and counting.

G Gartner MQ Leader
12 years running

>3_{EB} Safeguard more than
3 exabytes of cloud data

FR Only FedRAMP High
cyber resilience platform

1.4K

We have over 1.4K patents for groundbreaking innovation:



The first to unify data protection for on-prem, cloud and hybrid.



The first to integrate ransomware protection into our platform.



The only to offer unique architecture with any-to-any portability and defense in depth



The only vendor to offer Cleanroom Recovery.

- Annual Rev close to \$1B, 2600 employees
- We add 2 Pb net new a month to AWS S3 and more to Azure
- Major efforts with JSP

Embracing a Platform Accelerates Transformation

True cyber resilience starts before the attack — and never ends.

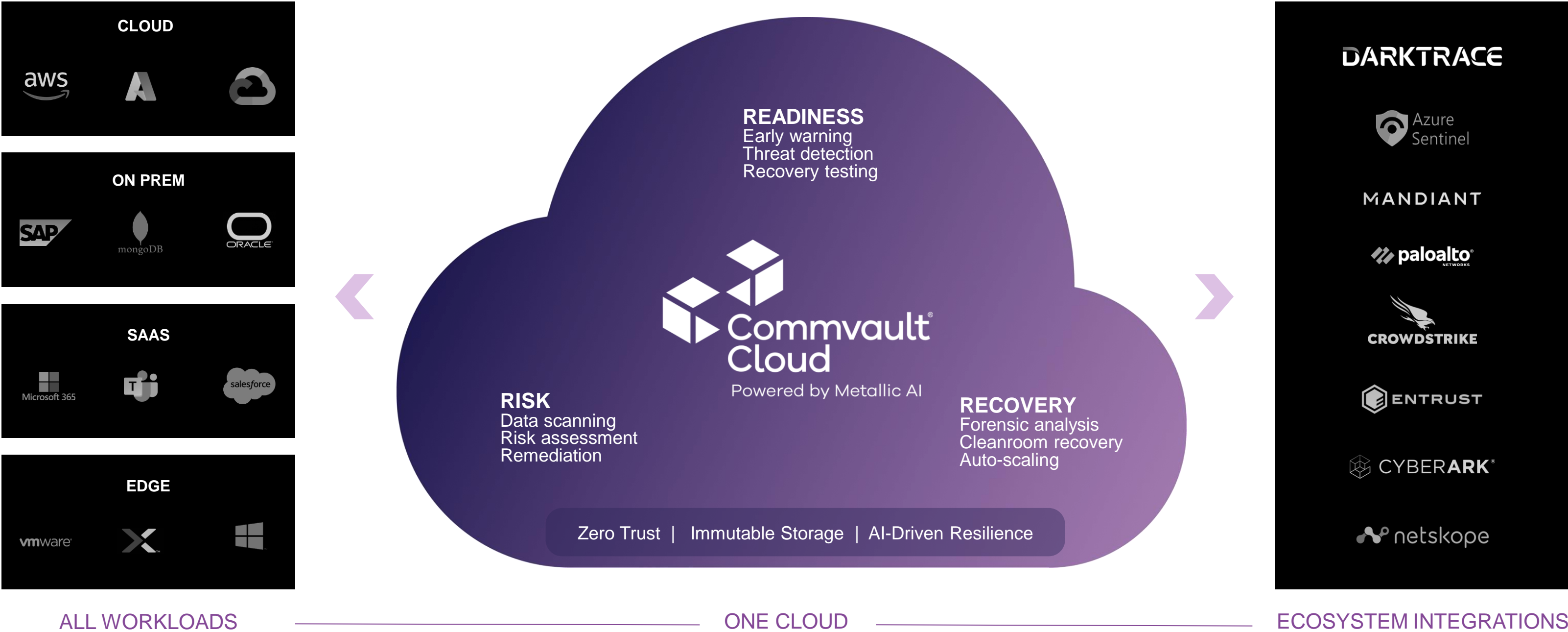
Protecting Data **REQUIRES** AI & ML to deliver comprehensive cyber security!

The platform must make processes simpler and faster — reduces risk

Transformation is driven by the mission and the requirements — not technology



One platform. All workloads. Single Pane of Glass.



Targeting the Gap: Key Performance Indicators for JSP: AI / ML Driven

- **CMI-Spillage removal:** Click of a mouse detection & remediation of individual files/emails with automated audit
- **Multi-tenancy:** Unlimited tenants for reporting and self-service with complete integrated intuitive HTML dashboard
- **Commvault Virtual Tape Library for DoD -** file data (NDMP) backups off the IP network sends over the fiber channel reducing backup time exponentially
- **Centralized Management:** regardless of geographical dispersion or infrastructure
- **Multi-Cloud:** Native integration with public cloud services (Microsoft, Amazon Web Services, OCI, GCP)
- **Edge to the cloud architecture:** Intuitive HTML dashboard
- **Migration & Resilience:** Out of Place restore to new storage
- **Multi-Security Domain:** From CUI to TS-SCI
- **Enterprise Scale:** Delivery from Endpoint to Cloud

All Critical Aspects
Required for HaCC,
JWCC, and DISA Hybrid
Multi-Cloud Already in
Place with JSP
Now HaCC Region 3

“Also Included” with JSP Award – Transformation Way Ahead

- **Containers & Kubernetes:** Fully integrated protection for containers/K8s data in delivered solution and ready when required to meet current and future standards – industry leading solution
- **Multi-Cloud:** Agentless data protection, multiple VM restore, workload conversion, PaaS Protection, large volume data migration
- **Full Data Retention Policy Management:** Across all data forms, fully automated and resilient customization, meeting all ZTA data pillar requirements, final archive export, full key management

Again, All Critical Aspects
Required for HaCC, JWCC,
and DISA Hybrid Multi-Cloud
Already in Place with JSP
(now HaCC Region 3)

**Meeting Future Data
Strategy Today**

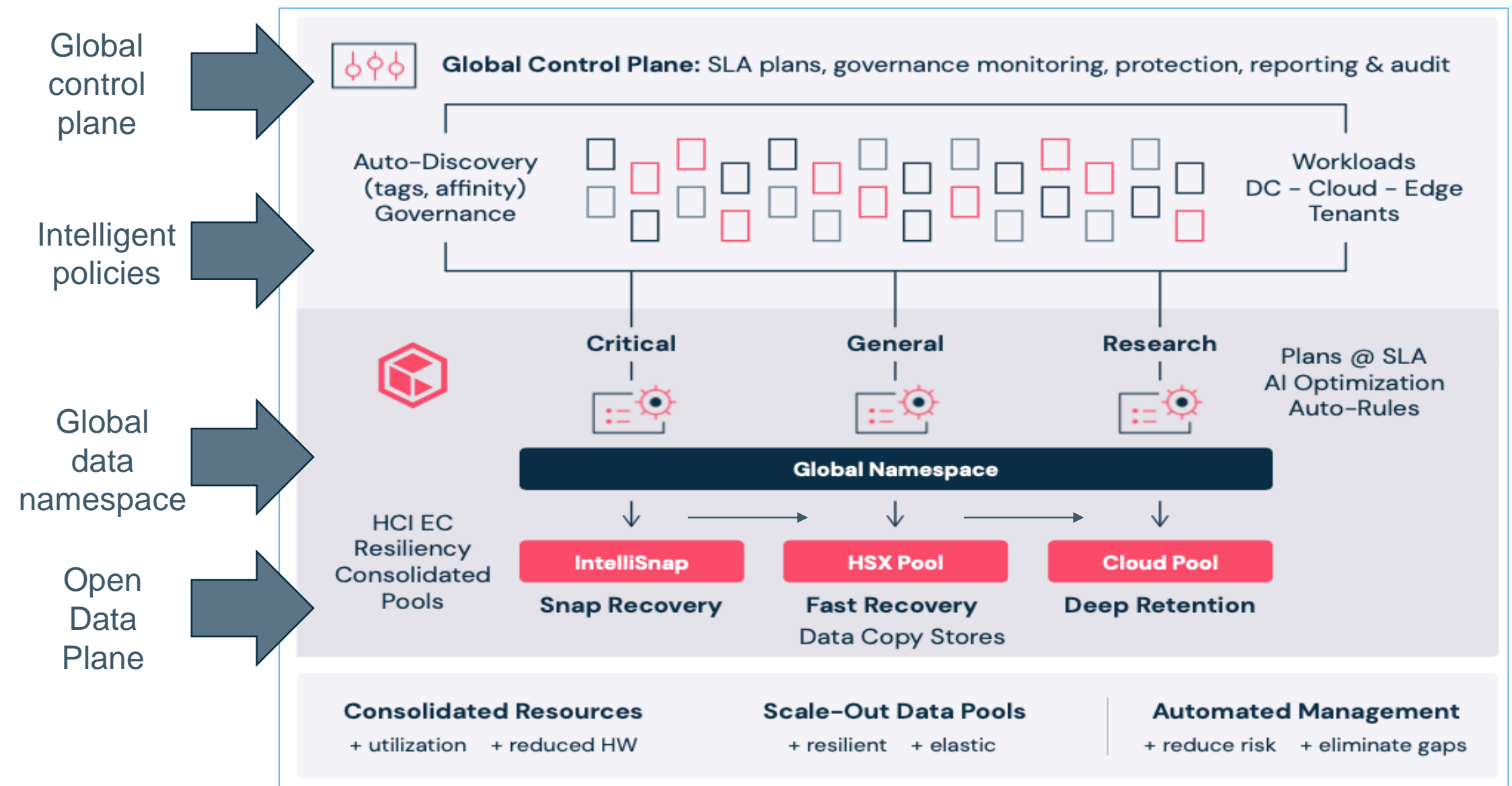
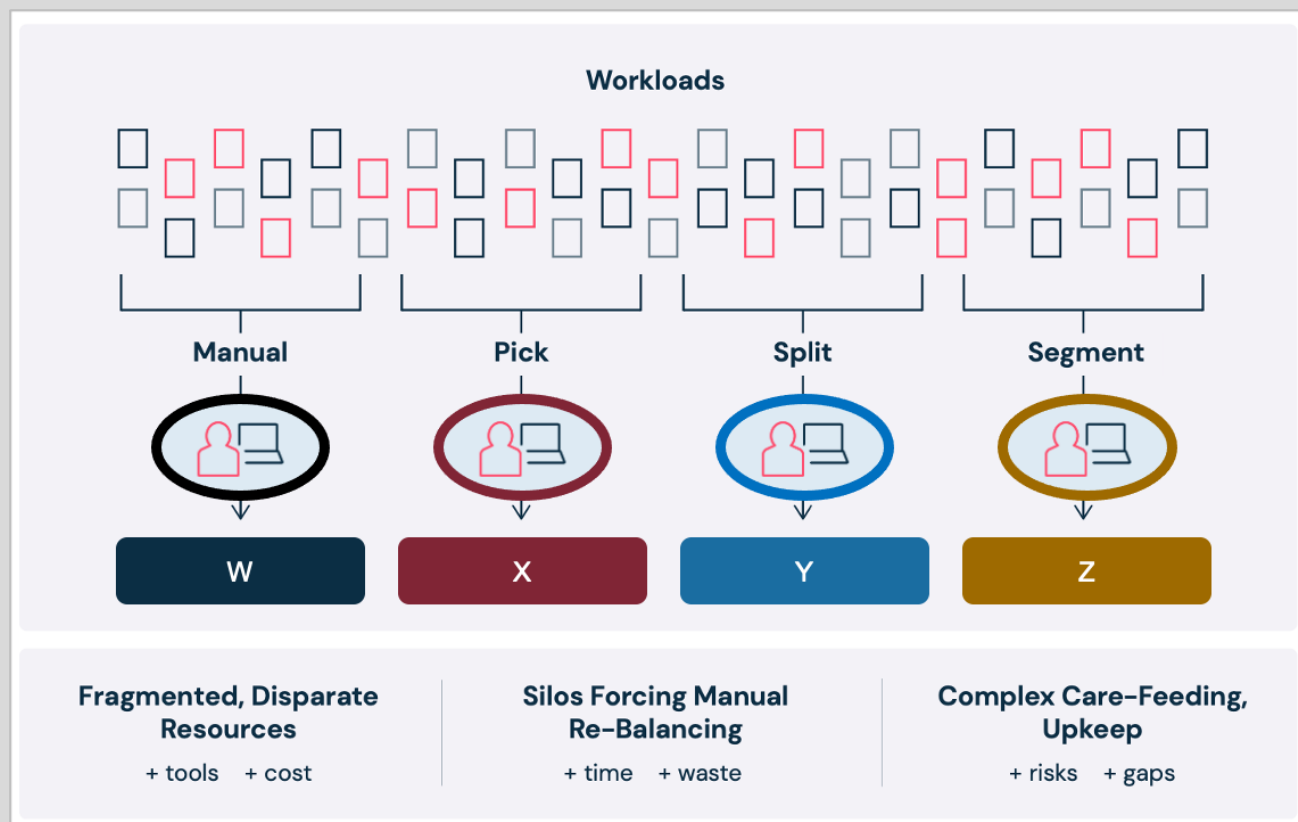
“Also Possible” with Commvault – One Code Base

- **Data Insights:** File Storage Optimization and Automated Records Management Policy and Implementation for ALL data systems, log management, mobile device, etc. (Integrated in delivered solution – activated with key purchase)
- **Insider Threat Detection at Enterprise Scale:** Cyber Insights by tracking user data activity and data environment anomalies (Integrated in delivered solution – activated with key purchase)
- **Advanced Threat Detection:** Who knows better how to create ‘honey pot’ targets than your data protection provider? (Standalone solution to meet DCO architecture)

Roadmap for Continual Data Centric Operations

The Gap: Fragmentation Impedes Leveraging the Best of Digital Transformation

- Complex, fragmented resources results in **downtime impacting mission readiness**
- Fragmentation creates **gaps** - > **risks multiply** → **cost overruns result**.
- **Digital transformation opportunity**



- **Consolidate, simplify, and accelerate.**
- Leverage self-describing context from the data drives classification and policy.
- Orchestrate snaps converge pools, natively coupled with the cloud (use all copies independently)
- Distribute environments under a global control plane.

An Enterprise Data Overview

All Data is not created equally: different service levels to retain changes and easy access to respond to a need to retrieve/inquire.

Preserve content for all daily changes in a 7-year repository, with simplified operations offering users easy search and retrieval.

1. Start with **Client Group Policies** aligned with source membership tags, auto rule associates them to the new **Plan – Research Class**
2. Research Class Plan = uses normal recovery service C1<region-local-HSX-30d>, DASH replica to C2<central-pool-DR-90d> + adds + replica C3<COLD-GDA-AWS-7Y>
3. Retrieval = based on protection unit (/VM or /File or /DB), restore options back to
1) Any managed site, 2) User-download (browser), or 3) in-cloud destination for further use.
 - Use in-cloud VM transform restore of VMWare to AWS EC2 instance
 - **Advanced option** to submit VM-date-chain for VM-file indexing to provide simplified file, version, content search, and retrieval of the file contents. Add ediscovery (for working size batch ~50-100TB) and Cloud Index server.





Modernized approach - Key to Resilience



service offers



Policy based management



Global visibility, alerting & reporting



Roles-Based Access Controls & MFA



Automation & Orchestration

CONTROL PLANE

Blended hybrid outcomes – consolidate control as your provider **AND** blend BaaS tenant offers from Metallic

Storage Integration



30+ integrated storage and HCI types for snap and replication

OS, Apps, DBs, & Endpoint



25 application and database types

Virtual Infrastructure



15 hypervisor and container platforms

Large Files and Big Data



20+ operating environments

SaaS and Cloud-Native



SaaS application coverage for O365, Salesforce, and more



On-prem Apps/VM/FS | Cloud Backup & DR | Cyber Vaulting | Data Archival

Cloud-Delivered | SaaS Apps Hybrid Cloud Apps | SaaS & Edge

DATA PLANE

SaaS



Devices



Database



VMs



Containers



On-Prem



Cloud



Hybrid



Commvault



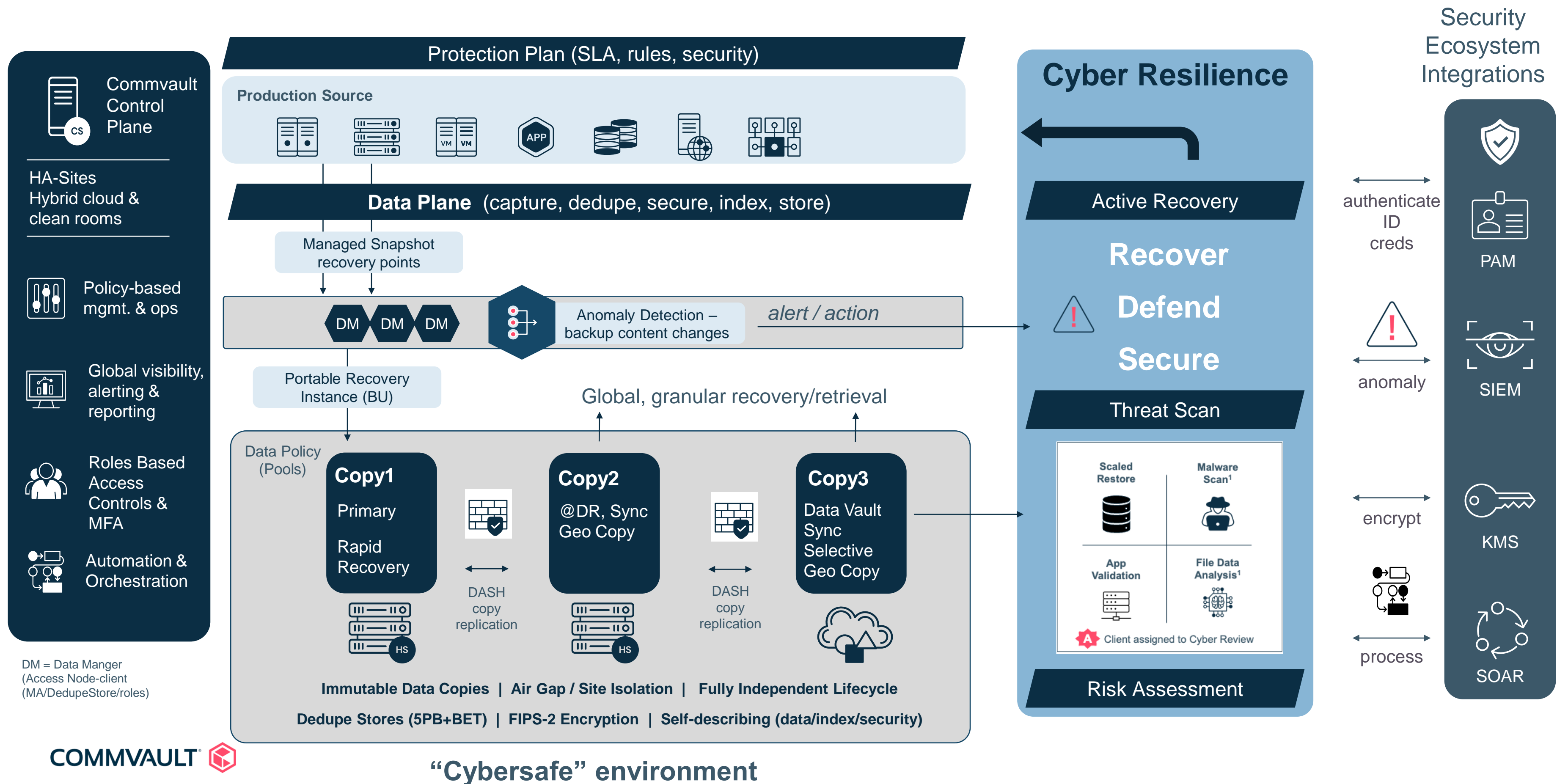
Broadest Integrated Workload Portfolio

Optimized infrastructure TCO

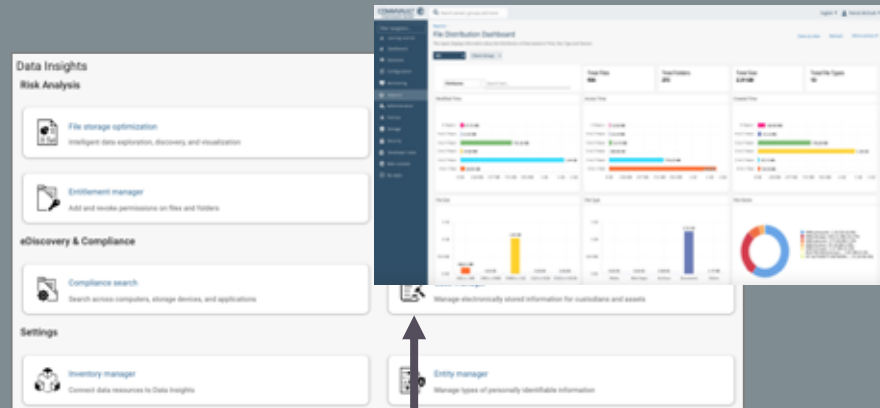
Our Data Protection platform offers the **most extensive collection of integrated** application, cloud, and storage workloads/storage services in the industry.



Modernized architecture – The Framework



Data Insights

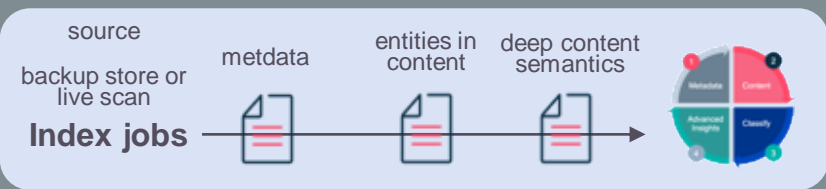


Applications
Interactive content applications – powered by search, classification and workflow actions



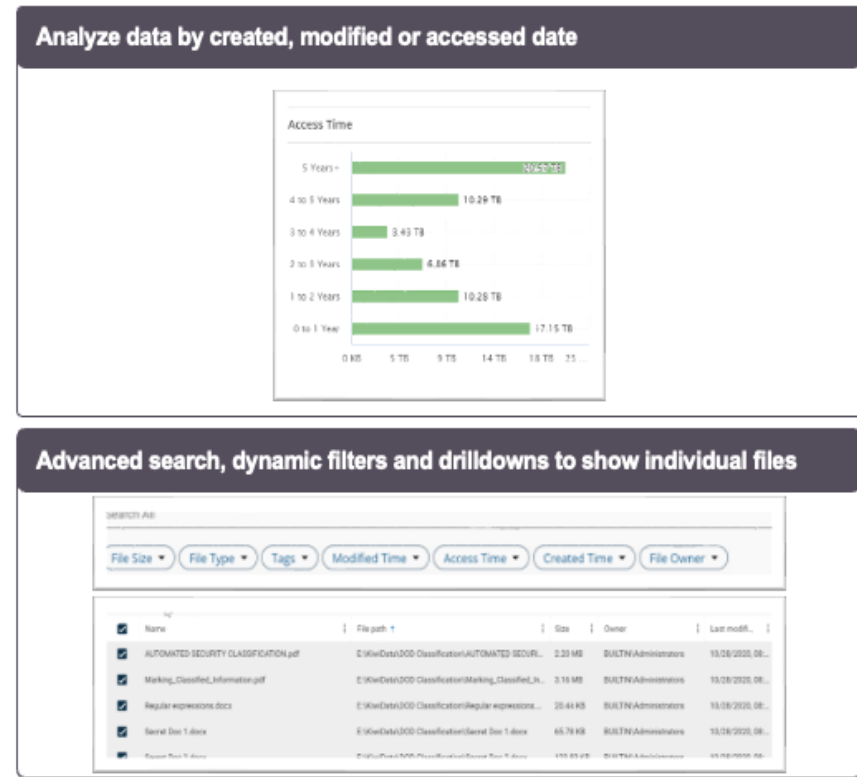
Index Store (logical)
Scale-out SOLR 4D Index cloud (self-managed), regional or global

Index Engines (nodes)
processing pipelines, Content Analyzer, SOLR nodes

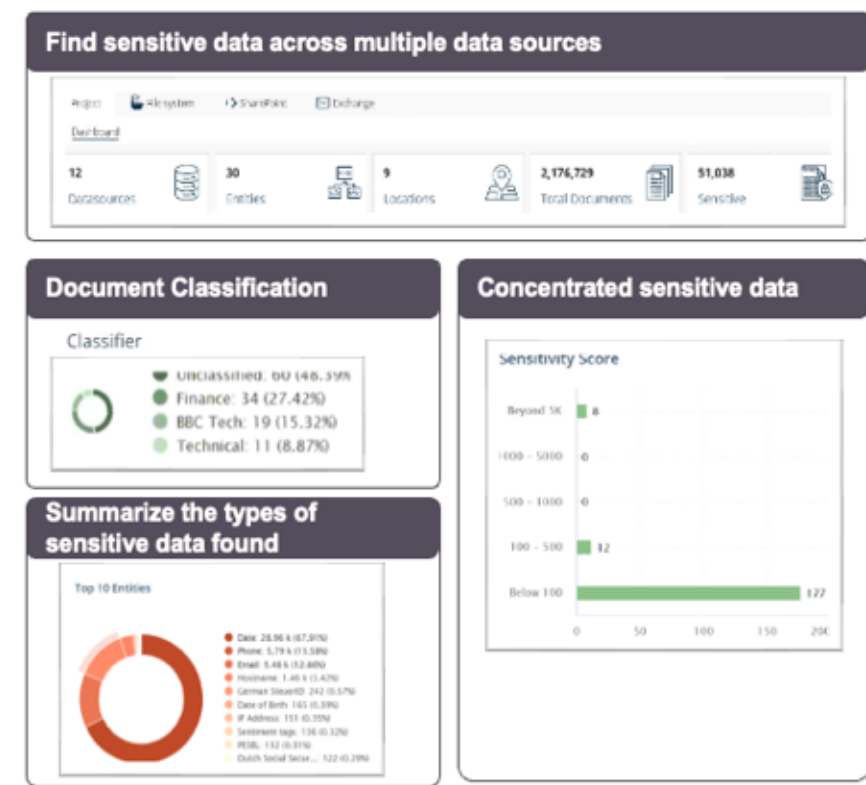
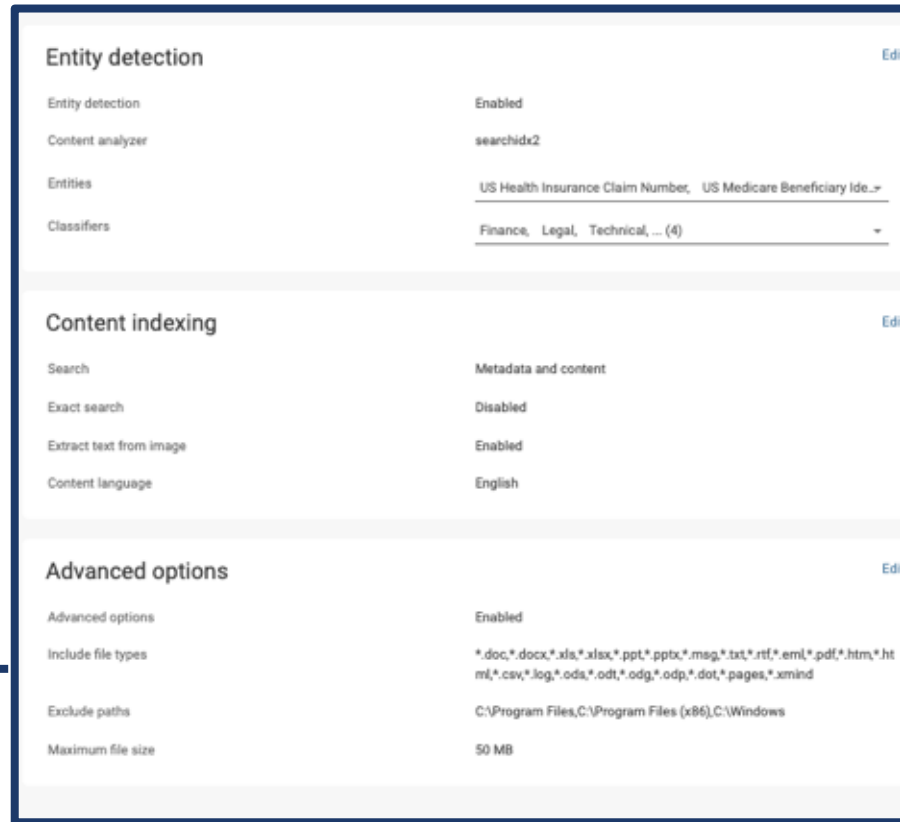


Data Class Plan (policy)
Index rules, options, engine, sources, entity rules, classification ML, security associations

Automated Records Management Driving Actionable Outcomes Changing the Discussion to Deliver Security



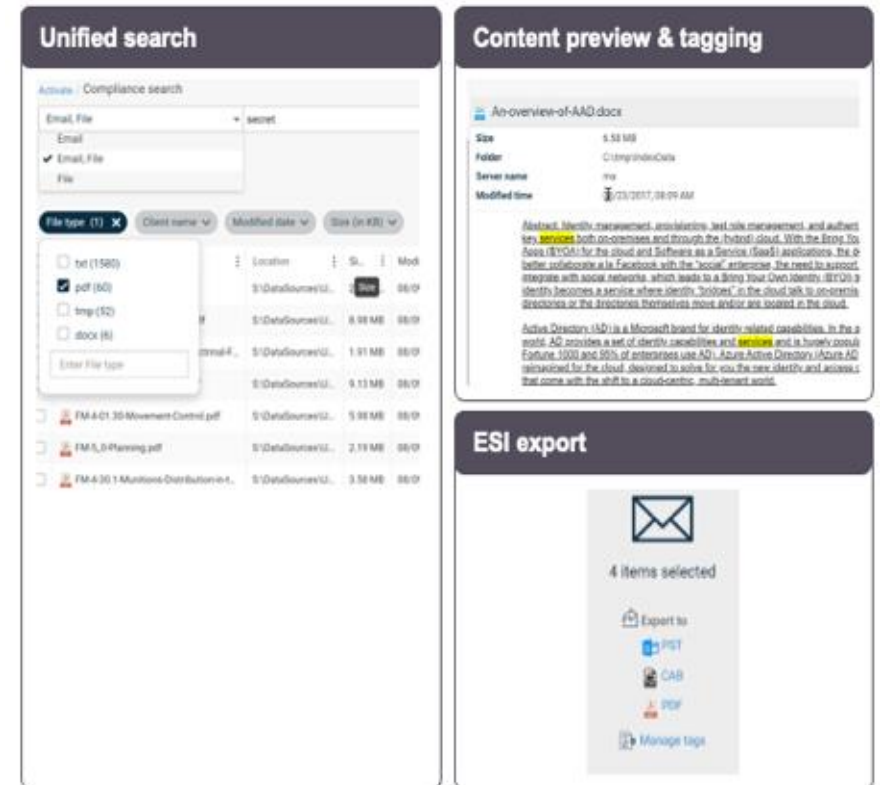
@1D Metadata



@2D Entities & Classification

Data Governance (SDG)

- ✓ Data profiling sensitive data across silos
- ✓ Data breach mitigation
- ✓ Proactive data cleanup of sensitive files
- ✓ Data subject requests (GDPR/CCPA)
- ✓ Audit reports



@3D Deep Content Indexing

eDiscovery & Compliance

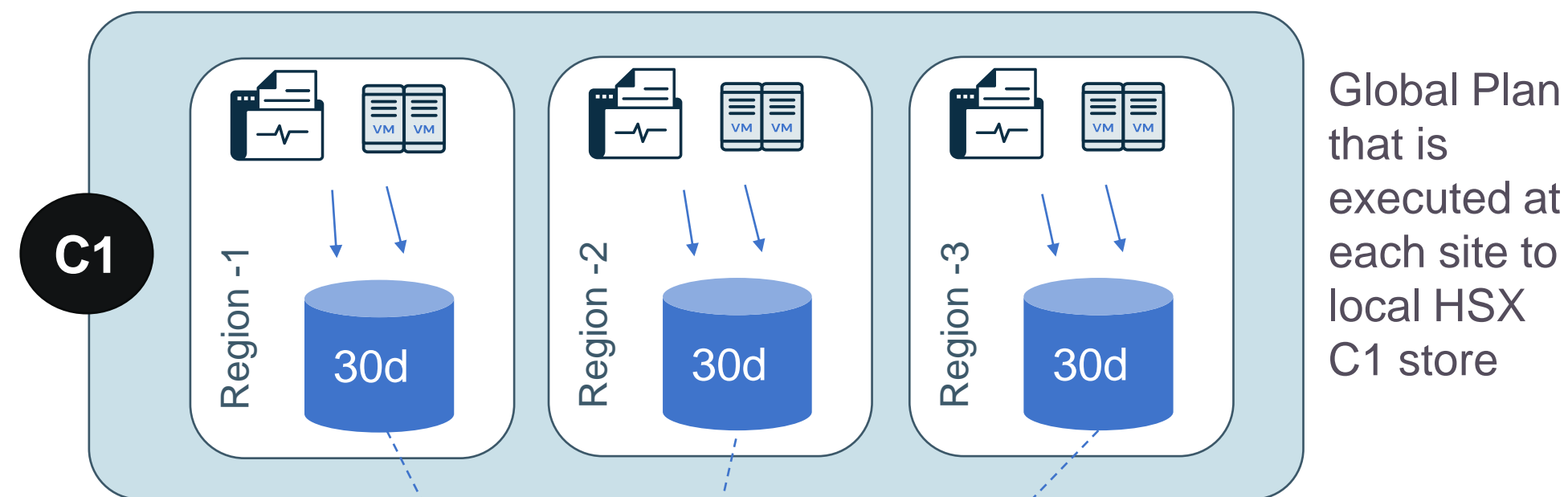
- ✓ Proactive preservation of relevant data
- ✓ Custodian review and advanced search
- ✓ Review sets
- ✓ Legal copies and holds
- ✓ Export and integration

OV-1

Enterprise Plan: Regional, associated by client group tags, adds C3 to Cloud Archive



The same current method, daily backup of incremental changes at each site (region)



Daily DASH Copy to DR Pool for 90d, all jobs

DASH Copy, Synchronous

Cloud Library 1

C2

90d – consolidated DR site (S3/FB)

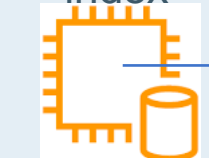
Data Manager (2)
MA.DDB /C2
Index Store
Restore driver

MA-MA
Air-Gap

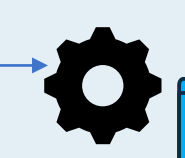
COMMVAULT

Archive Retrieval options

VM->File
index



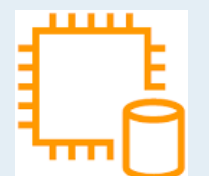
Content
Index



Advanced
discovery and
Search /
Research
Content

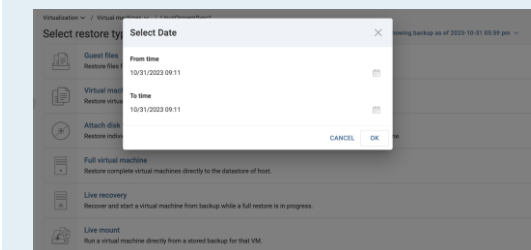
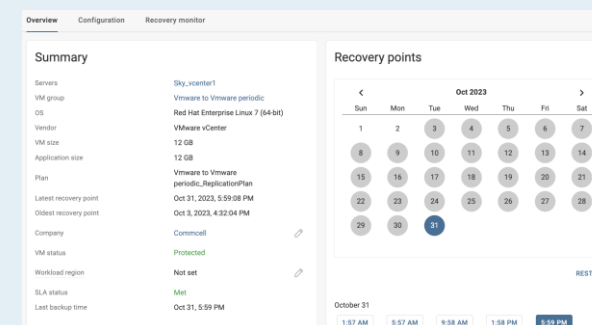


Selective metadata file search and restore (FS backup)



Selective VM recovery point and VM restore, live browse restore (VM backup)

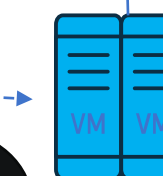
Time range search or browse using Index Store in AWS with C3



Granular restore

DASH Copy, Synchronous

C3



Data Manager (2)
MA.DDB /C3
Index Store
Restore driver

Cloud Library 2

S3 Glacier Deep
Archive
S3-GDA / Combined
Tier



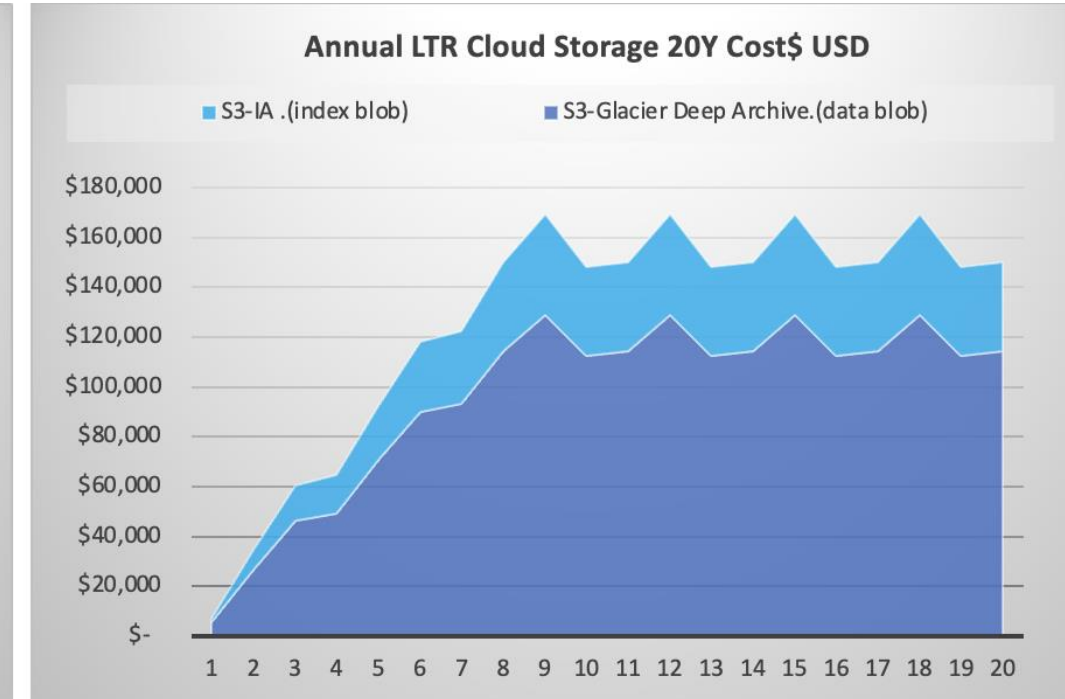
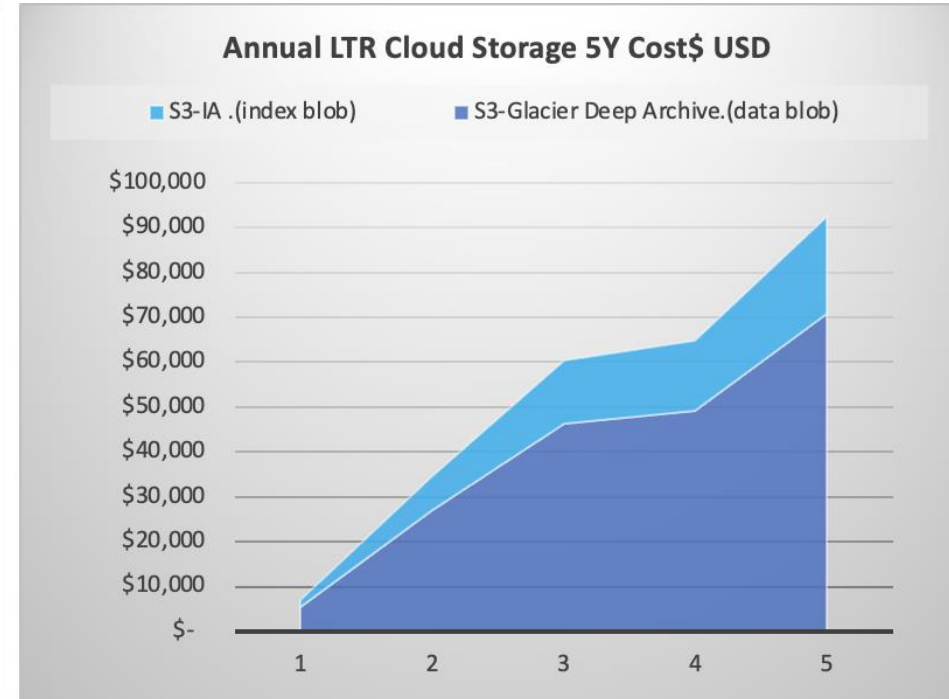
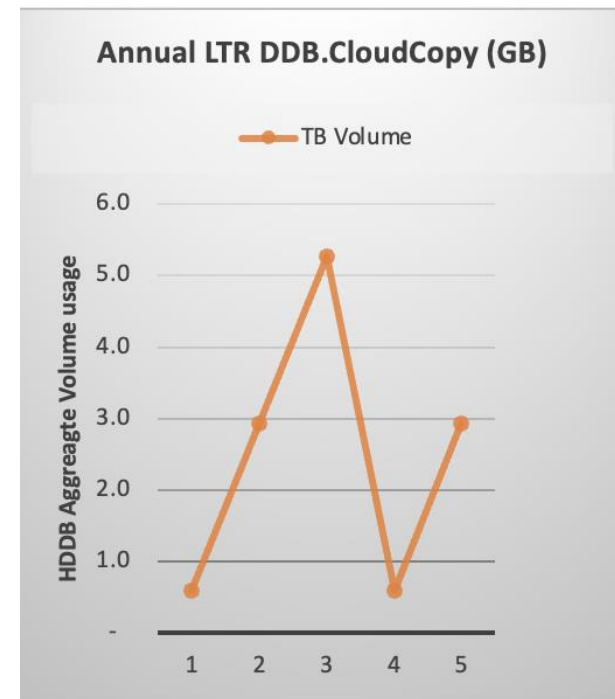
Daily DASH Copy (#2>#3) to Research Archive Pool for 7Y, all jobs

Business Case Deep Dive

Annual AWS Storage IaaS Projection for copy #3

Assumptions:

1. @650 FET starting research content pool
2. @1.5% Daily Dedupe Change rate
3. 260 changed days per year (Delta)
4. Baseline 400BET
5. Annual Delta changes 6TB/day = 1600 TB/y
6. Data vault with 3Y basis on AWS GDA, using combined tier Warm(index) /DeepCold(data)








Data Manager (2) instances, Linux 12CPU would host DDB space 4TB SSD, Index Store 4TB SSD.

Category	Commvault BET on Cloud: Loaded TB Cost						
	AWS.US	Monthly Storage \$/TB	Upload \$/TB	Minimum Stay day	\$/TB Recall-Read Charge	Egress> Internet \$/TB	CV Blob Size (MB)
Deep Cold	S3-Glacier Deep Archive	\$ 1.01	\$ 1.64	180	\$ 22.12	\$ 51	64
Cold	S3-Glacier IR	\$ 4.10	\$ 0.66	90	\$ 30.88	\$ 51	64
Warm	S3-IA	\$ 12.80	\$ 2.62	30	\$ 10.37	\$ 51	8
Hot	S3-Std	\$ 23.55	\$ 1.31	0	\$ 0.05	\$ 51	8



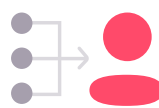


*Factored costs with the CV=1TB of written BET data (post-dedupe) including cloud API, methods and storage costs per year

Commvault® eDiscovery & Compliance

Issues

-  Altered or deleted ESI
-  Lengthy compliance searches and audits
-  Costly legal reviews
-  Business inefficiency
-  Operational inefficiency

Needs

-  Guaranteed trust in the data
-  Efficient, fast and scalable data collection solution
-  Streamlined data sets for review
-  Data reuse
-  Ease of use

Retained backup data can be analyzed for deeper inspection



- Reduce time and effort for collection of ESI using pre-indexed backups
- Reduce storage costs by eliminating additional infrastructure required for search and discovering ESI for time-sensitive requests
- Support IT resiliency and add strategic value with the ability to reuse existing data backed up by Commvault

Select file backup jobs directly or pre-index using the VM –File indexing methods.

Collection from backup

☐ Analyze from backup

Activate / Compliance search

Email * x [Advanced search](#)

<input type="checkbox"/>	From	Subject	Received time...	Mailbox
<input type="checkbox"/>	AlwaysOnLab	Alert: Commserv Anomaly Alert Type: Operat...	05/27/2020, 05:36 ...	Stanley Thoma...
<input type="checkbox"/>	Henry Blodget	We lost the war in Afghanistan – time to co...	05/27/2020, 02:50 ...	Stanley Thoma...
<input type="checkbox"/>	Commvault Team	[Tune in] New features, virtual hands on labs,...	05/27/2020, 02:22 ...	Bernadette Del...
<input type="checkbox"/>	Business Insider Sel...	A top Trump economic adviser says the Whit...	05/27/2020, 08:07 ...	Stanley Thoma...
<input type="checkbox"/>	AlwaysOnLab	Alert: Commserv Anomaly Alert Type: Operat...	05/27/2020, 07:57 ...	Stanley Thoma...
<input type="checkbox"/>	AlwaysOnLab	Alert: Commserv Anomaly Alert Type: Operat...	05/27/2020, 07:13 ...	Stanley Thoma...
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<input type="checkbox"/>	AlwaysOnLab	Alert: Commserv Anomaly Alert Type: Operat...	05/27/2020, 05:55 ...	Stanley Thoma...
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<input type="checkbox"/>	AlwaysOnLab	Alert: Commserv Anomaly Alert Type: Operat...	05/27/2020, 03:51 ...	Stanley Thoma...
<input type="checkbox"/>	AlwaysOnLab	Alert: Commserv Anomaly Alert Type: Operat...	05/27/2020, 03:50 ...	Stanley Thoma...

Assurance that Relevant Data is Unaltered Using a Trusted Chain-of-Custody

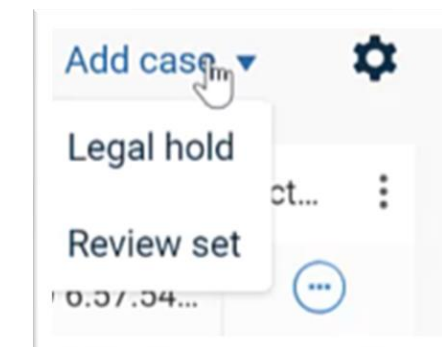


- Ensure that data cannot be lost or modified by proactively preserving electronically stored information (ESI) from immutable backups
- Ensure case folders and their contents survive default data retention policies through the use of legal holds
- Guarantee chain-of-custody and trust in the data for legal and compliance purposes

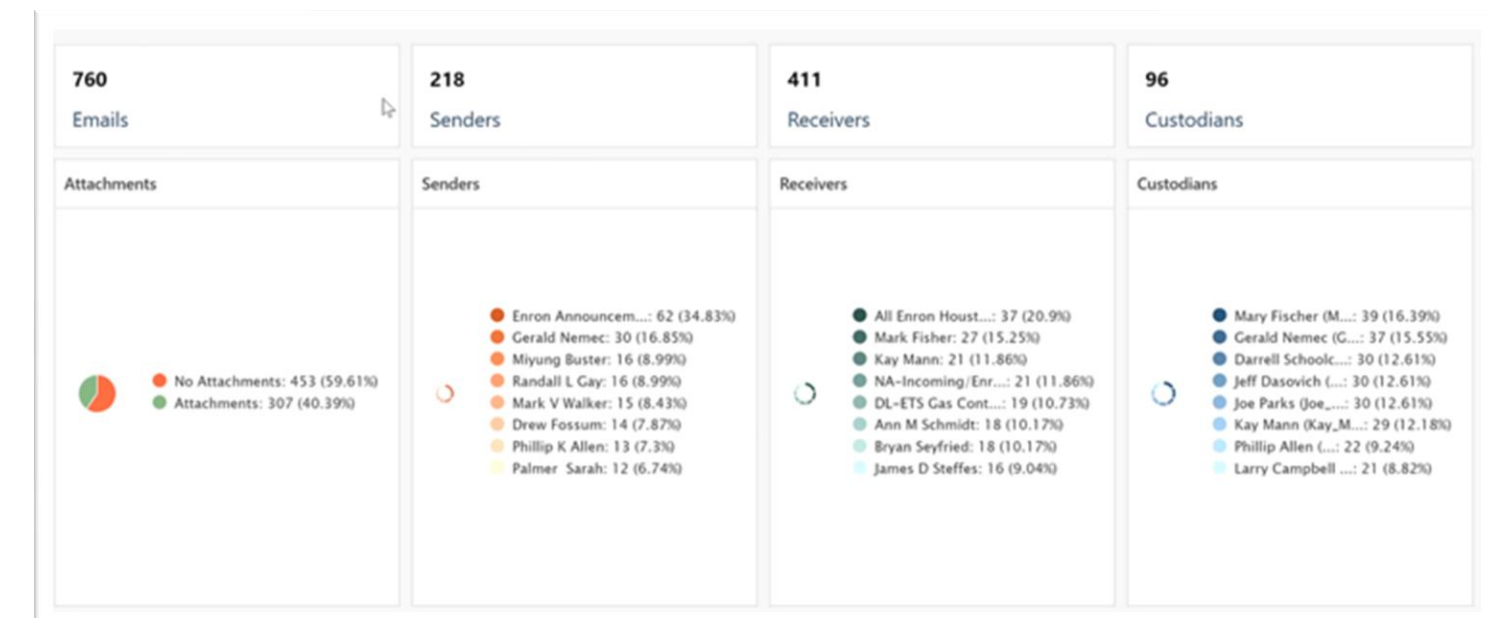
Collection from backup

☐ Analyze from backup

Configurable Legal Hold



Case Dashboards



Efficient Compliance Data Collection that's Fast and Scalable



- Improve productivity by automatically capturing data for custodians or file locations based on rules, search criteria, and content filters
- Streamline operational efficiency for data collection by supporting of one-time, scheduled, or continuous operations
- Reduce risk by automating the removal of redundant and obsolete ESI

Search on both metadata or content

Custom definitions

General

Definition name	CVSharedCase1-definition
Data type	Exchange archiving
Data collection	Continuous
	<input checked="" type="checkbox"/> Continuous
	<input type="checkbox"/> One time only

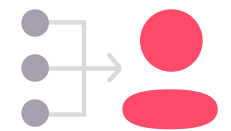
Custodians (0)

John Smith [Add](#)

Additional criteria

Keyword	Attack
Email (2)	
Inter field operator	AND
Email address	ATest@mail.com
Subject	Pipeline
Add criteria	Click to select

Streamlined Data Review via Advanced Search Capabilities



- Simplify search operations using a single interface search across email and file data sources, leveraging advanced techniques (e.g. fuzzy, proximity searches) on content and filtering of email/file metadata
- Improve compliance and eDiscovery tasks with enhanced review tools such as tagging
- Reduce costly legal reviews by streamlining the export of data sets for integration with external systems

Compile the results into a Case for additional review, sequential tasks or to export for sharing

Unified search

Activate / Compliance search

Email, File secret

Email

✓ Email, File

File

File type (1) X Client name Modified date Size (in KB)

☐ txt (1580)

☒ pdf (60)

☐ tmp (52)

☐ docx (6)

Enter File type

	Location	Size	Modified
	S:\DataSources\U...	2	08/09
	S:\DataSources\U...	8.98 MB	08/09
	S:\DataSources\U...	1.91 MB	08/09
	S:\DataSources\U...	9.13 MB	08/09
<input type="checkbox"/>	FM-4-01.30-Movement-Control.pdf	5.98 MB	08/09
<input type="checkbox"/>	FM-5_0-Planning.pdf	2.19 MB	08/09
<input type="checkbox"/>	FM-4-30.1-Munitions-Distribution-in-t...	3.58 MB	08/09

Content preview & tagging

An-overview-of-AAD.docx

Size 6.58 MB

Folder C:\tmp\IndexData


Server name ma

Modified time 8/23/2017, 08:09 AM

Abstract: Identity management, provisioning, test role management, and authentic key services both on-premises and through the (hybrid) cloud. With the Bring Your Apps (BYOA) for the cloud and Software as a Service (SaaS) applications, the d better collaborate a la Facebook with the "social" enterprise, the need to support integrate with social networks, which leads to a Bring Your Own Identity (BYOI), t identity becomes a service where identity "bridges" in the cloud talk to on-premis directories or the directories themselves move and/or are located in the cloud.


Active Directory (AD) is a Microsoft brand for identity related capabilities. In the o world, AD provides a set of identity capabilities and services and is hugely popul Fortune 1000 and 95% of enterprises use AD). Azure Active Directory (Azure AD reimagined for the cloud, designed to solve for you the new identity and access c that come with the shift to a cloud-centric, multi-tenant world.


ESI export





4 items selected

Export to

 PST

 CAB

 PDF

 Manage tags

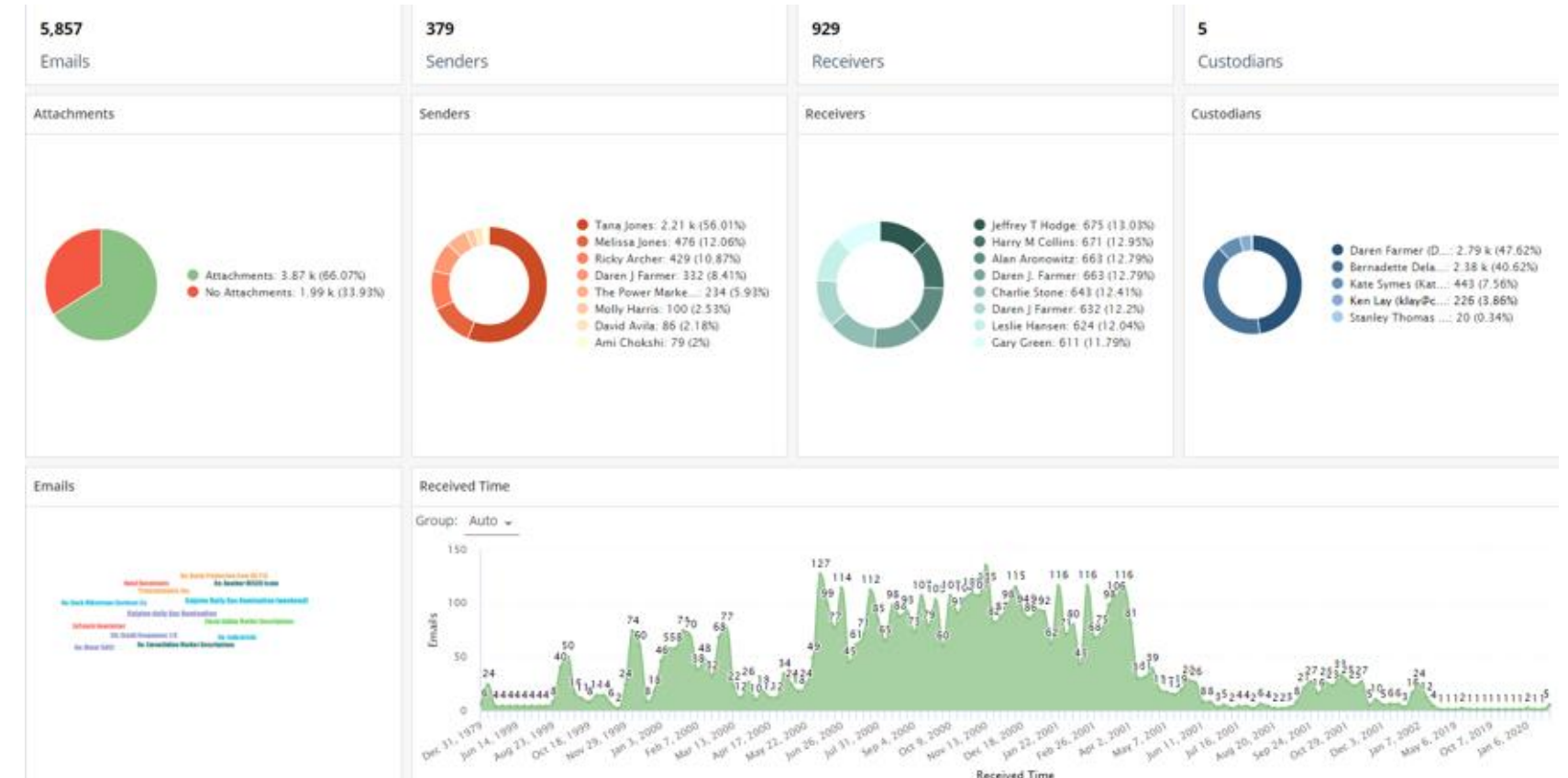
Data Collection from a Single Pane of Glass, at Massive Scale



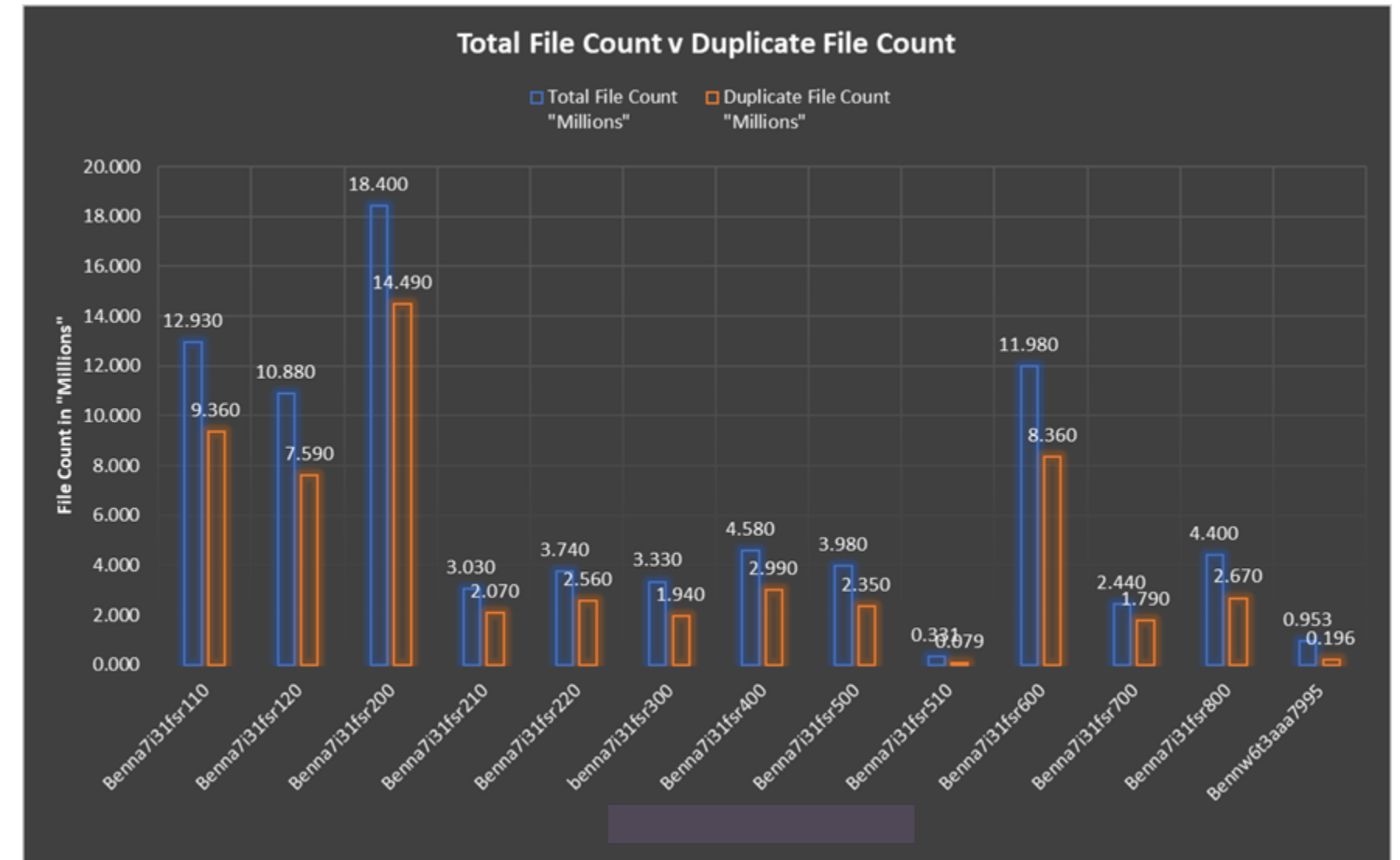
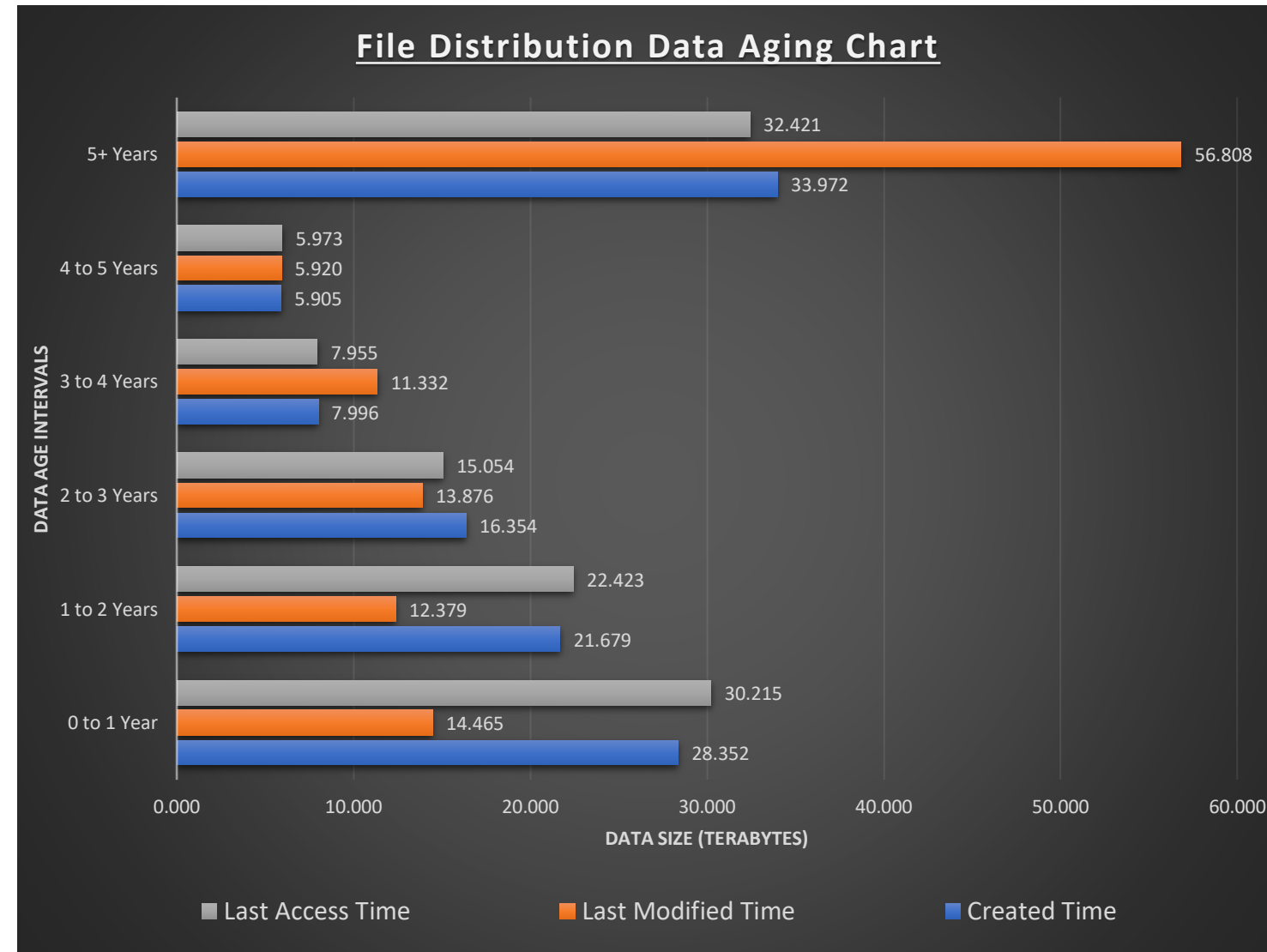
- Compliment your data protection strategy with streamlined integration with existing archiving and retention policies
- Maintain security by ensuring the right users have access to insights using role-based access to dashboards, operations and management tools
- Maintain compliance and support audits with all actions and access history logged

Compile the results into a Case for additional review, sequential tasks or to export for sharing

Customizable dashboards



Commvault Data Insights Use Case Results @ Army Post

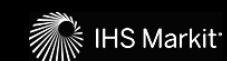
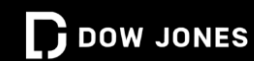


Over 50% of the total data of 120 TB not accessed in 2 years

Over 70% of the total data of 120 TB is duplicate files

Cyber Readiness Dramatically Improves when Data Footprint Reduced

We help over 100K organizations around the world secure their data.



We streamlined resilience for an icon.

Challenge:

Cloud-native, cross-region, and multi-account data security for Coca-Cola's critical workloads couldn't meet Coca-Cola's service objectives.

Solution:

Commvault's unique platform capabilities and autoscaling empowered Coca-Cola protect cloud workloads across multiple regions, at scale, at a fraction of the cost.

The result:

150k

snapshots

1.2PB

managed

40%

cost reduction f

We helped this global news source stay out of the headlines.

Challenge:

Needed to recover data faster and leverage cloud to reduce risk of business interruption due to natural disasters.

Solution:

Commvault's automation and orchestration across cloud and on-premises storage provided fast recovery as 30,000 tapes were moved to the cloud, and data centers were consolidated from 50 down to 6.

The result:

4000

AWS instances

5 PB

Tape to cloud

4 HR

RTO; down from 4 days

We helped a government agency turn tech debt into total resilience.

Challenge:

Maintaining data security and business continuity across legacy applications, systems, and environments.

Solution:

Commvault's modern cyber resiliency platform to protect virtualized, on-prem, and cloud environments — from a single source.

The result:

350+

VMs migrated

25%

reduction in cost

100%

regulatory compliance



Total resilience. 5x lower TCO.



Metallic Demonstration

metallic

Search or type / for a command

New!

?

SEAmericas\rbreakiron

Filter navigation...

Service catalog

Protect

Data Insights

Usage

Jobs

Reports


Monitoring

Storage

Manage


Web console

Service Catalog




Active Directory
Protection for Active Directory and Azure AD

ConfigureManage...




Cloud Command
Unified view of security, health and trendscloudCommand

ManageLearn more...




Database
Amazon, Azure, Microsoft SQL, Oracle, and SAP HANA databases

ConfigureManage...




Dynamics 365
CRM applications

ConfigureManage...




Endpoint
Fast, secure, scalable endpoint protection

ConfigureManage...




File & Object Archive
Move inactive data to managed archive

ConfigureManage...




File Server
File system backups for Windows and Linux

ConfigureManage...




Kubernetes
Total protection for your container data for both on-prem and Azure AKS

ConfigureManage...




Microsoft 365
Exchange, OneDrive, SharePoint, and Teams

ConfigureManage...




Object Storage
Amazon S3, Azure Blob, Azure File, and OCI Object Storage

ConfigureManage...




Salesforce
Sales, Service, and Financial Services Clouds

ConfigureManage...



ThreatWise
Early warning threat detection

ManageLearn more...



Virtual Machines
Amazon EC2, Azure VM, Hyper-V, OCI VM, and VMware



Thank You!

Contact Information

Commvault.com

<https://www.commvault.com/platform/commvault-cloud-console>

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Richard Breakiron, Corporate FSO, Federal Field CTO

Grant Wagner, Sales Director, DoD & IC

Mike Cirelli, Sales Account Exec, DISA

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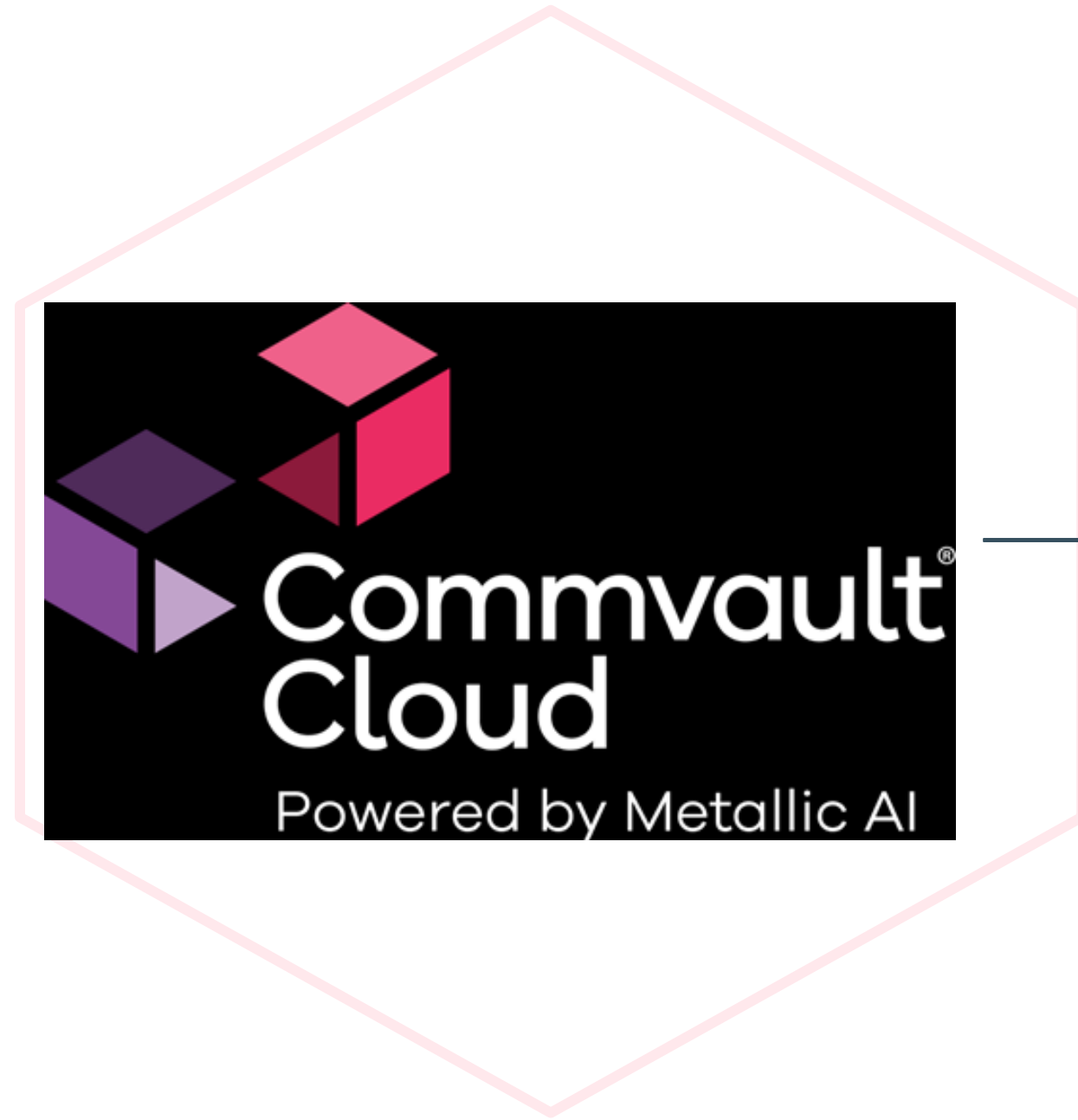
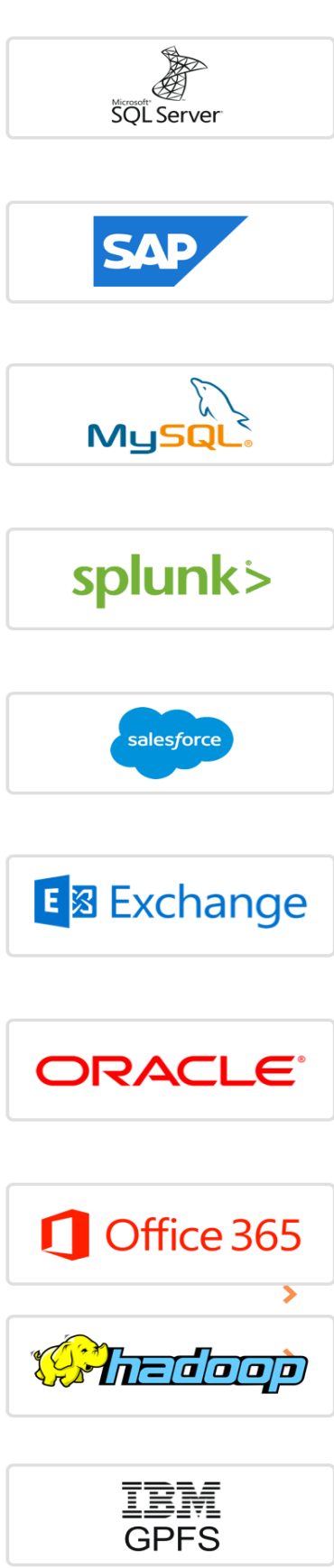
pmarkey@commvault.com

rthapar@commvault.com

Backup

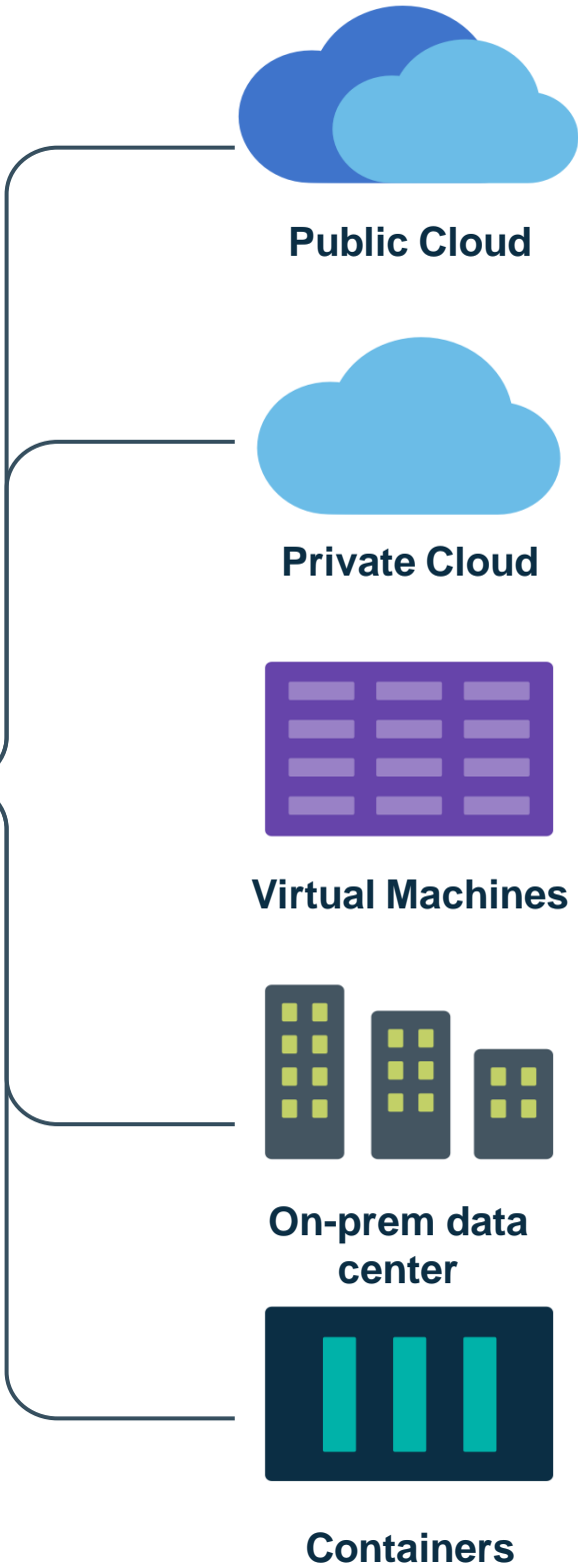
Accelerating Data Protection with Automated AI & ML

APPLICATIONS



Fully Integrated for Future Protection

INFRASTRUCTURE



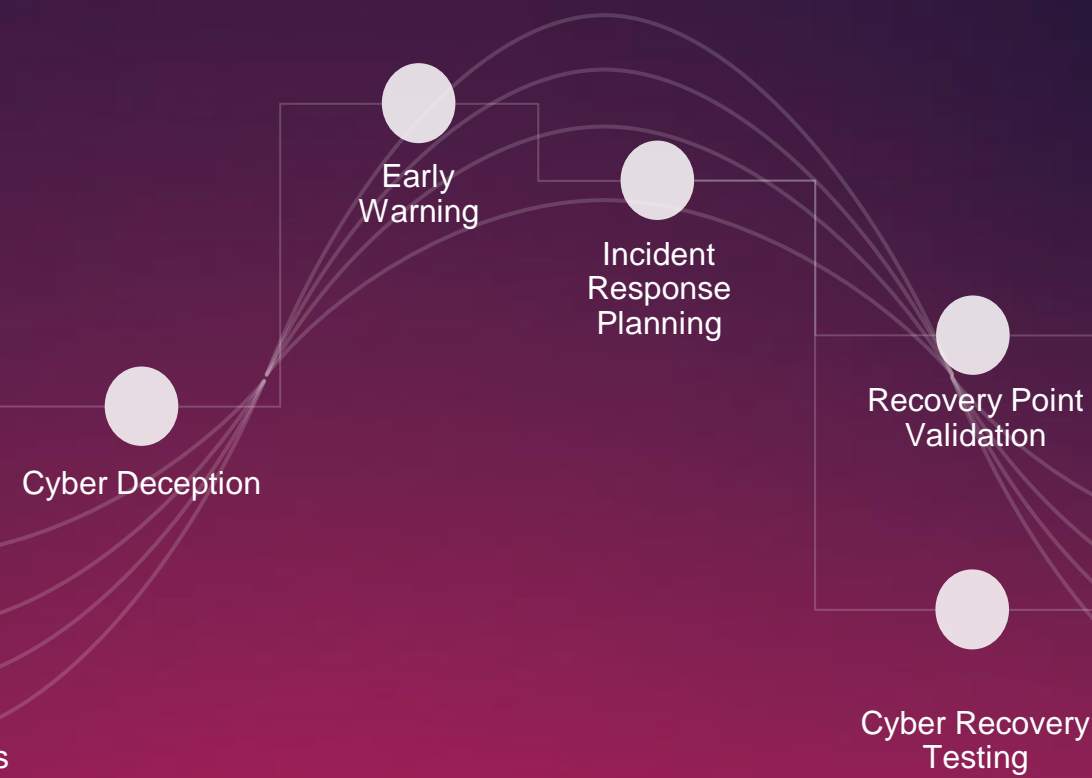
Commvault Cloud New Launch Today!

Based on MITRE CREF and NIST frameworks

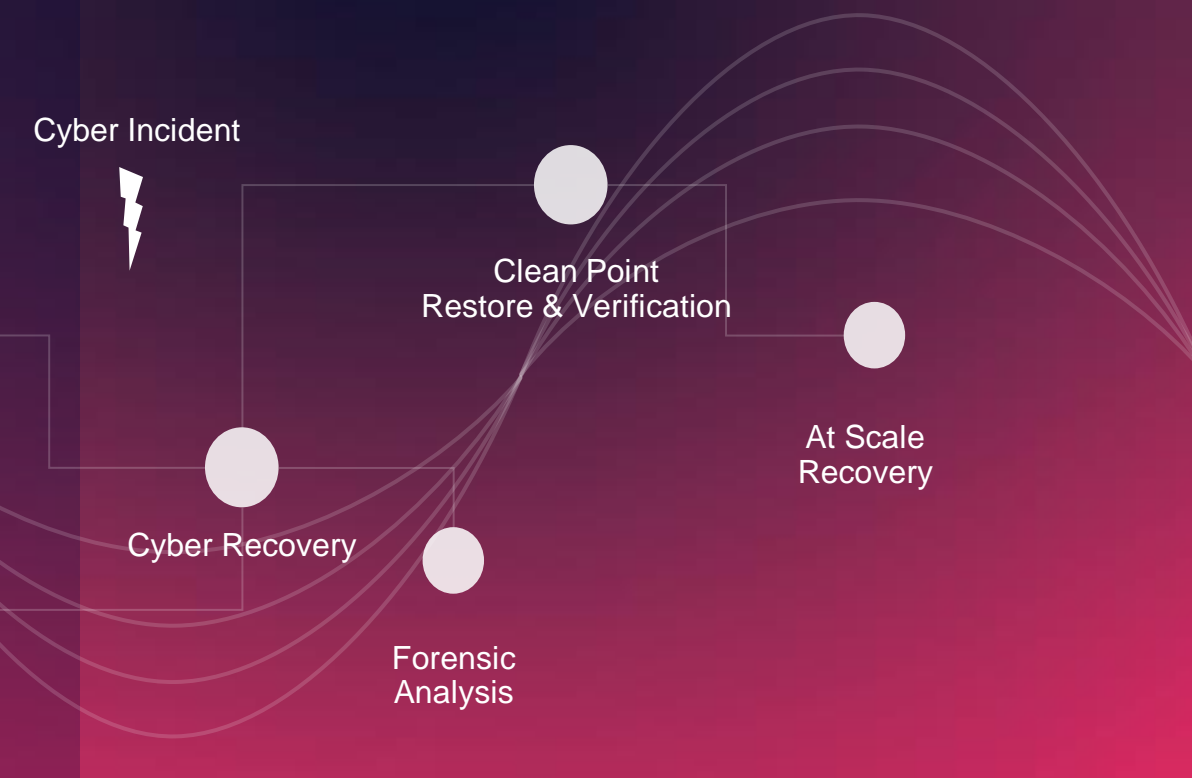
RISK [Secure – Know your Data]



READINESS [Defend – ‘When not If’]



RECOVERY [COOP in DDIL environment]



What's new

SECURITY

The industry's best data security.

UNIFIED MANAGEMENT

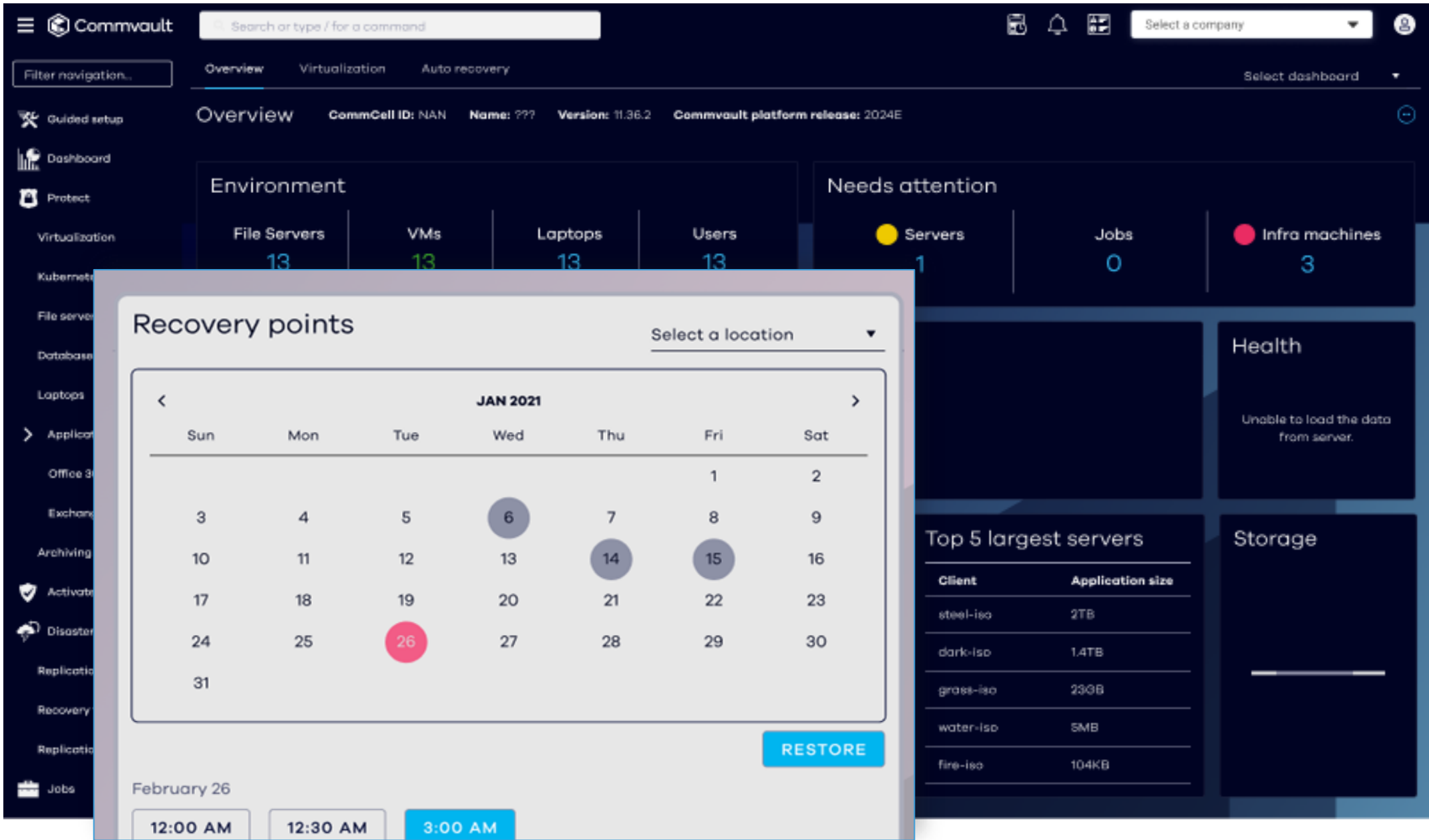
A single way to see and govern your cyber resilience across all hybrid workloads

RISK GOVERNANCE

Categorize your data & continually scan for compliance to ensure the strongest security posture

INTELLIGENCE

RECOVERY



What's new

SECURITY

INTELLIGENCE

RECOVERY



Powered by advanced AI to strengthen resilience.

FIGHT AI WITH AI

AI-driven ransomware to identify zero-day and AI-driven malware threats that have already impacted backups

PLAIN LANGUAGE. POWERFUL RESULTS.

Leverage the category's only AI co-pilot to:

- Generate API code and workflows
- Find and fix faster
- Gain real-time analysis and report digests
- Ensure data shared in Data Lakes is safe to share

What's new

SECURITY

INTELLIGENCE

RECOVERY

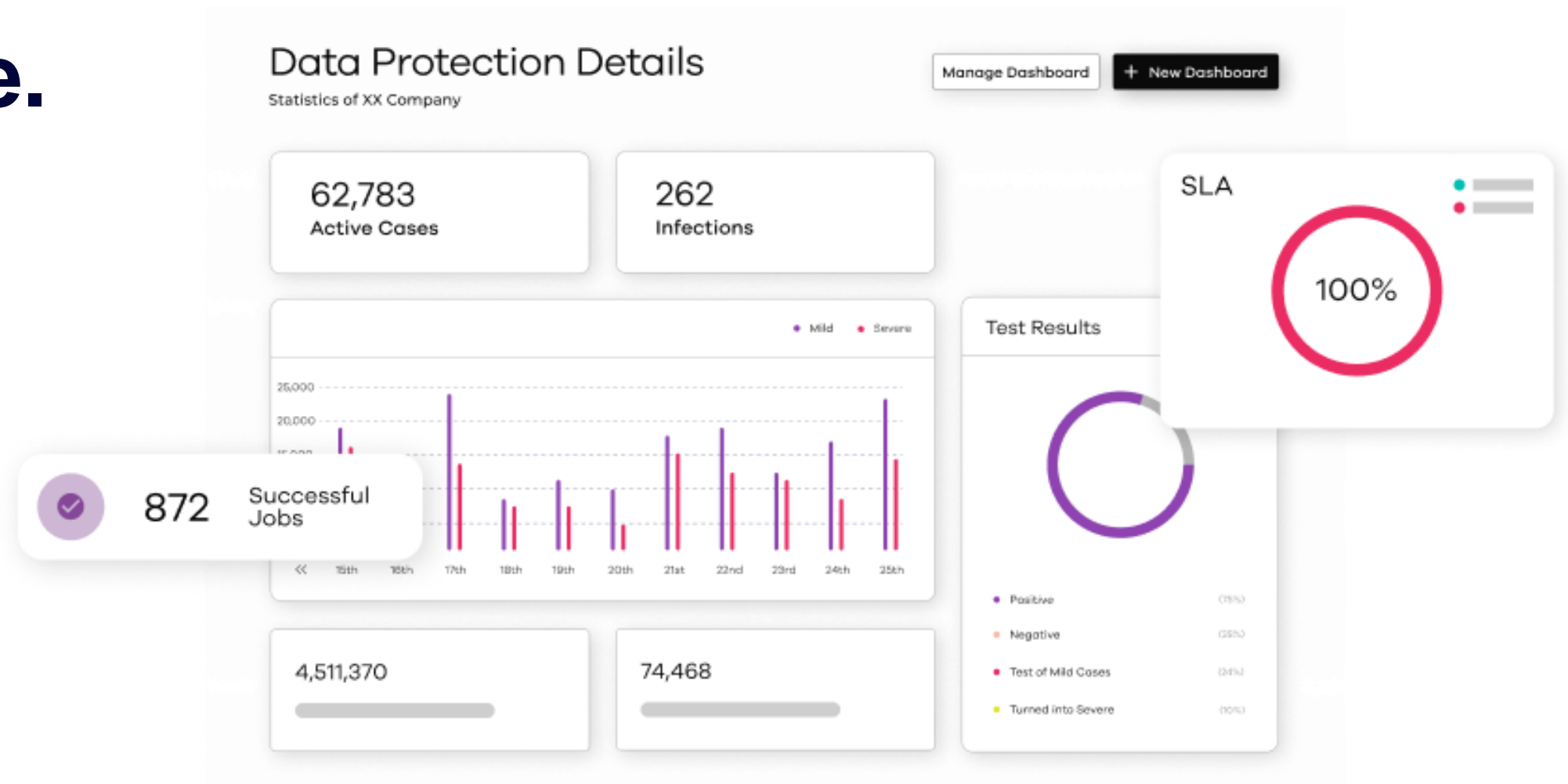
Rapid, frictionless, reliable recovery is the best defense.

CLEANROOM RECOVERY

Providing a testing ground for a rapid, frictionless, and reliable recovery to a cleanroom in the cloud

CLOUDBURST RECOVERY

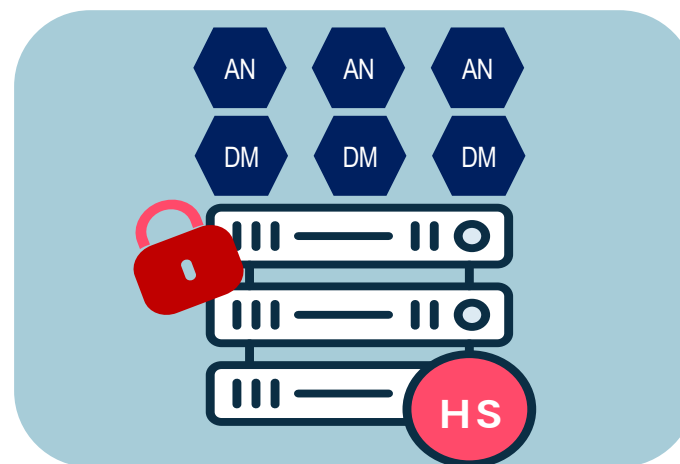
Leverage infrastructure-as-code and cloud-scaling to recover data from anywhere to anywhere — at scale



HyperScaleX™ scale-out pools



- ✓ **Compliance Lock** WORM policy
- ✓ **RW-lock with SELinux hardened node**
- ✓ **Secure CDS File System (immutable)**
- ✓ **OS managed by CV**
- ✓ **5PB scale-out pool**



- ✓ **Linear scaling** by adding nodes incremental (+1)
- ✓ Bare metal servers / **certified with automated install** on validated Architecture BOMs
- ✓ Erasure Coding resiliency @ 4:2 (server & disk failure)
- ✓ Automatic data containers rebalance / re-distribute across nodes

FS /OS Corruption Compromise Risk



System Extended Outage Risk



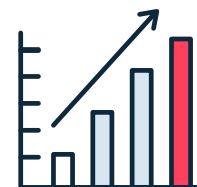
Faster time to value

Eliminate identifying, testing, and optimizing the configuration.



Reduced capital costs

Mix/match HW for Ref Design; leverage existing partnerships



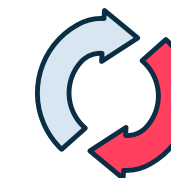
Scalability and flexibility

Purchase the capacity you need with no costly forklift upgrades



Integrated management

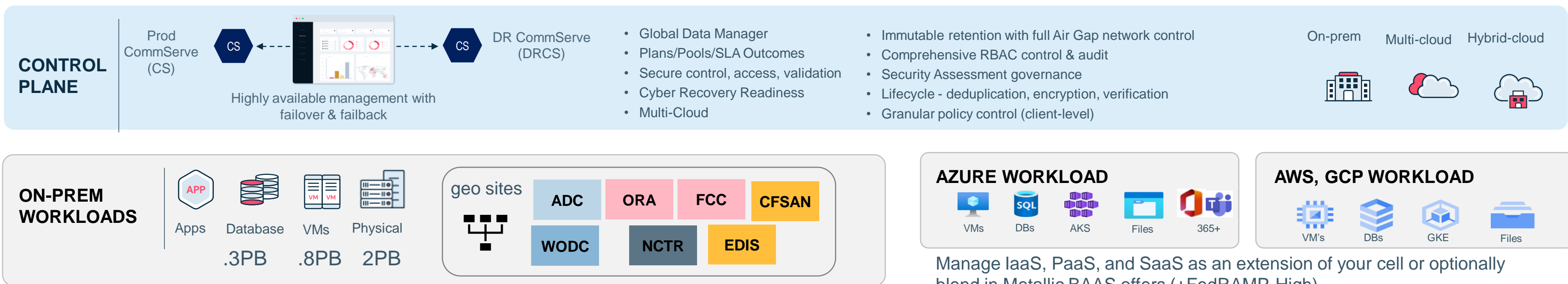
Save IT staff time with centralized management and reporting



Single patch and updates

Deploy one comprehensive patch for software updates

Consolidated Outcome



Hybrid Platform + Cyber Resiliency

Secure – Defend – Recovery Readiness

