

VMGeneration Commvault

SÉCURISATION DES ENVIRONNEMENT OPENVMS

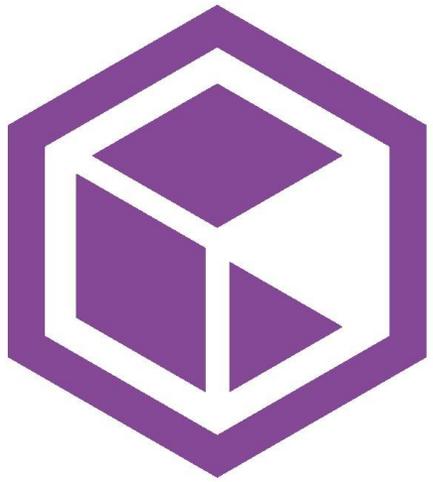
Sébastien Weber

Senior System Engineer

Février 2024

Agenda

- 01** Commvault
- 02** Intégration OpenVMS
- 03** Architectures
- 04** Questions



Commvault[®]

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.

Proactive, Multi-layered Security

Actively defend data and its recoverability

Unified Management

Software – SaaS - Appliance

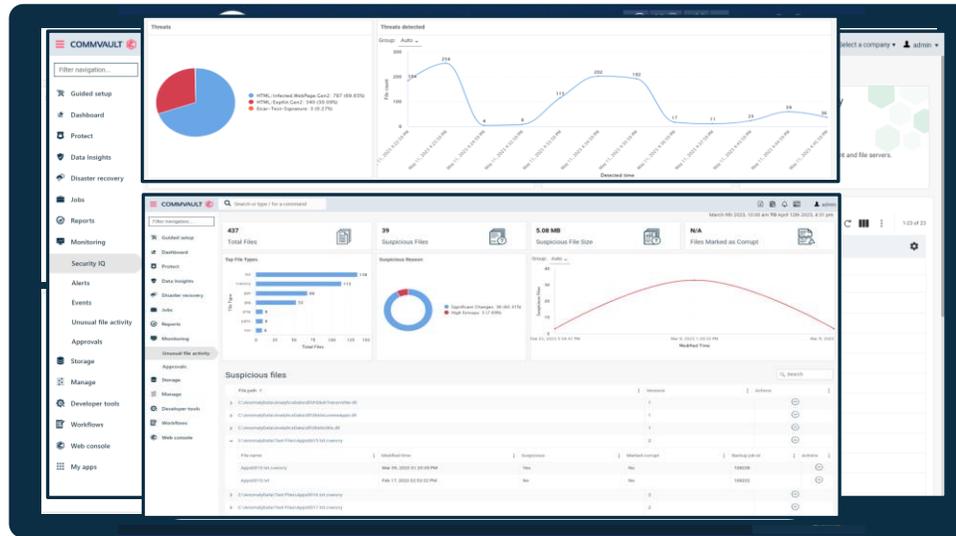
ThreatWise™
Surface cyberthreats
in production



Risk Analysis
Discover sensitive files &
prevent exfiltration



Security IQ
Alerting & security
posture improvements



Auto Recovery
Analyze, validate, &
orchestrate recoveries



Threat Scan
Isolate malware, remediate
risks, & prevent reinfection



Backup & Recovery
Fast, flexible, &
reliable response



On Premises



Multi-Cloud



SaaS Apps



Containers



Edge

Security Integrations

Visibility, coordination & countermeasures

Intégration OpenVMS

Architecture principe



Prérequis OpenVMS

HP

Operating system	Processor architecture
HP OpenVMS 8.4	Itanium
HP OpenVMS 8.3	Itanium

VSI

Operating system	Processor architecture
VSI OpenVMS 8.4-2L1 HP stack such as TCP/IP V5.7-13ECO5F is supported. MultiNet based TCP/IP stack is not supported.	Itanium
VSI OpenVMS 8.4-2	Itanium

File System

The following file systems are supported:

- On-Disk Structure 2 File System (ODS-2)
- On-Disk Structure 5 File System (ODS-5)

Hard Drive

Component	Space required
Software	32 MB
Job results folder	256 MB
Log folder	128 MB

Memory (RAM)

2 GB or more

Network

- HP TCP/IP Services configured on the OpenVMS server.
- SSH Services configured on the OpenVMS server.
- No firewall settings between the OpenVMS server and the access node.
- IPv6 is not supported.

OpenVMS dans Commvault

Commvault Search or type / for a command

Filter navigation... Overview HyperScale Virtualization Auto recovery Company Endpoint Data Insights Select dashboard

Guided setup Dashboard Protect Data Insights Auto recovery Jobs Reports Monitoring Storage Manage Developer tools Workflows Web console My apps

Overview **CommCell ID: 39BE** **Name: commserve1** **Version: 11.34.10** **Commvault platform release: 2024**

Environment

HyperScale	File servers	VMs	Laptops	Users
2	38	50	2	781

Needs attention

Servers	Infra machines	Jobs
4	2	9

SLA

82.93%

Met: 34 (82.93%)
Missed: 7 (17.07%)

Customer action pending 7
Service provider action pending 0

How to improve SLA

Jobs in the last 24 hours

Running	Success	CWE/CWW	Failed	Events
29	1,023 Day - 70 Week - 36	16 Day + 16 Week + 16	281 Day + 281 Week + 281	3

Health

Critical 9

Warning 5

Current capacity

Commvault Backup and Recovery USING

1.71 TB / 30 TB

You are having enough capacity

Storage space

Library	Type	Total space	Used space	Date to be full
DiskLib_SkyH...	Disk	123 TB	442.02 GB	Nov 30, 2031
SmallLocalDi...	Disk	99.95 GB	40.07 GB	Never
DiskLib_TFHS...	Disk	123 TB	74.36 GB	Never
AzureHot	Cloud	N/A	11.44 TB	Not Applicable
AmazonS3_BI...	Cloud	N/A	715 TB	Not Applicable
GoogleStora...	Cloud	N/A	74.18 GB	Not Applicable
AmazonS3oh...	Cloud	N/A	9.82 GB	Not Applicable
AzureEast2	Cloud	N/A	N/A	Not Applicable

Storage

Disk library

519.32 GB

Space savings

91.47%

Filter navigation...

- Guided setup
- Dashboard
- Protect
- Virtualization
- Kubernetes
- File servers**
- Databases
- Object storage
- Laptops
- Office 365
- Exchange
- SharePoint
- Active Directory
- Salesforce
- Big data
- Google Workspace
- Epic EHR systems
- DevOps
- Archiving
- Data Insights

File servers

Configure File Server

Select Type

<input type="radio"/> File server 	<input type="radio"/> NAS 	<input type="radio"/> Nutanix files 	<input type="radio"/> Qumulo file storage 
<input type="radio"/> Cluster file server 	<input type="radio"/> IBM i 	<input checked="" type="radio"/> OpenVMS 	<input type="radio"/> IBM Spectrum Scale (GPFS) 
<input type="radio"/> GlusterFS 	<input type="radio"/> Lustre 	<input type="radio"/> Azure NetApp Files 	

CANCEL

NEXT

Add OpenVMS Server

1 Server Configuration

2 Backup Configuration

Server Configuration

Server name *

OpenVMS.jupiter

Hostname *

jupiter.ct.com

Base install folder *

/SYS\$SYSDEVICE/SIMPANA/

OpenVMS user credentials

User name *

system

Password *

.....



Confirm password *

.....



Add OpenVMS Server

✓ Server Configuration

2 Backup Configuration

Backup Configuration

Access node client *

Click to select

Configure plan

Search plans by plan name



Does not associate schedules from plan for DR subclient

Backup Airgap DC1 to MCSS Cloud			
Backup frequency	1 day	Primary storage type	HyperScale
Copies	3	Associated entities	2

Backup example DB Only			
Backup frequency	8 hours	Primary storage type	Cloud
Copies	3	Associated entities	0

Backup Plan Gold			
Backup frequency	1 hour	Primary storage type	Disk
Copies	4	Associated entities	0

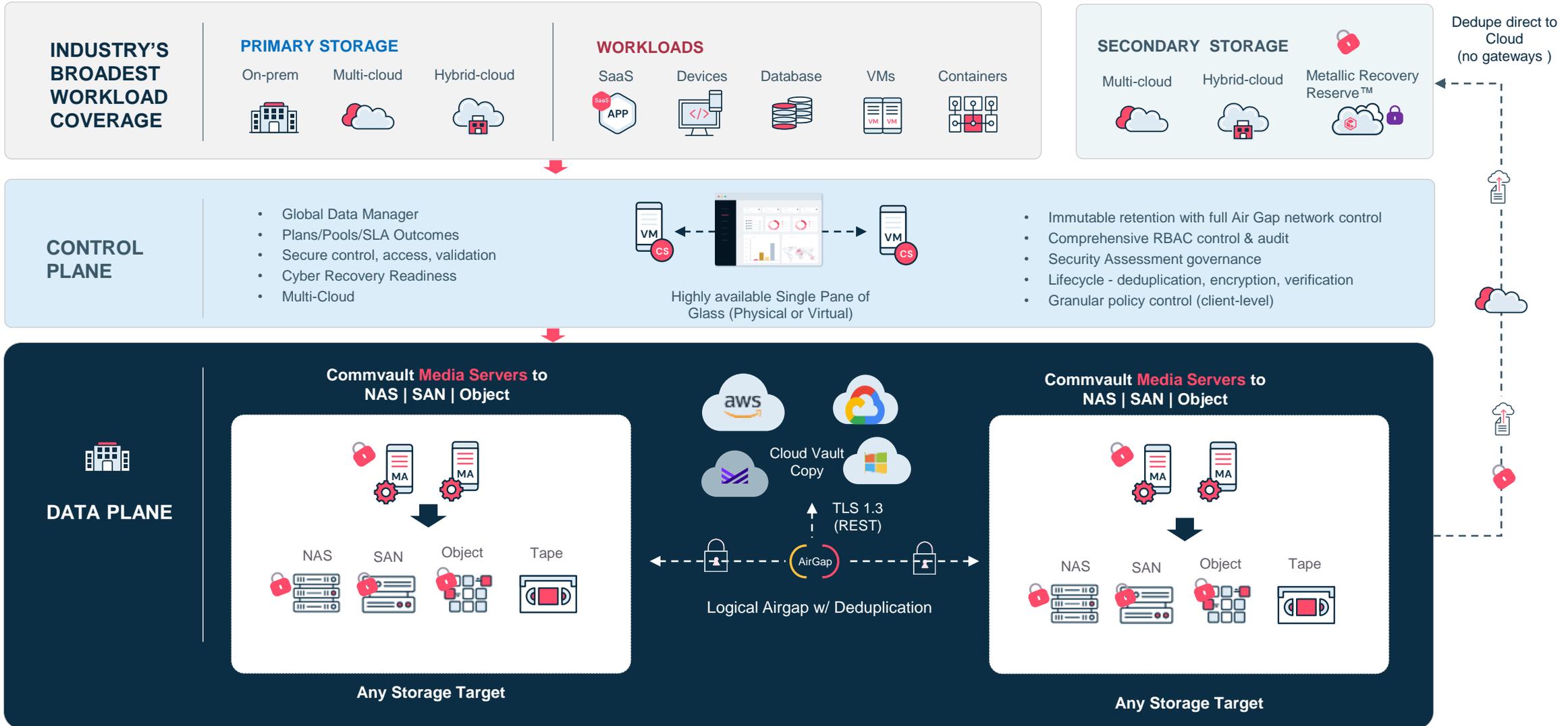
CANCEL

PREVIOUS

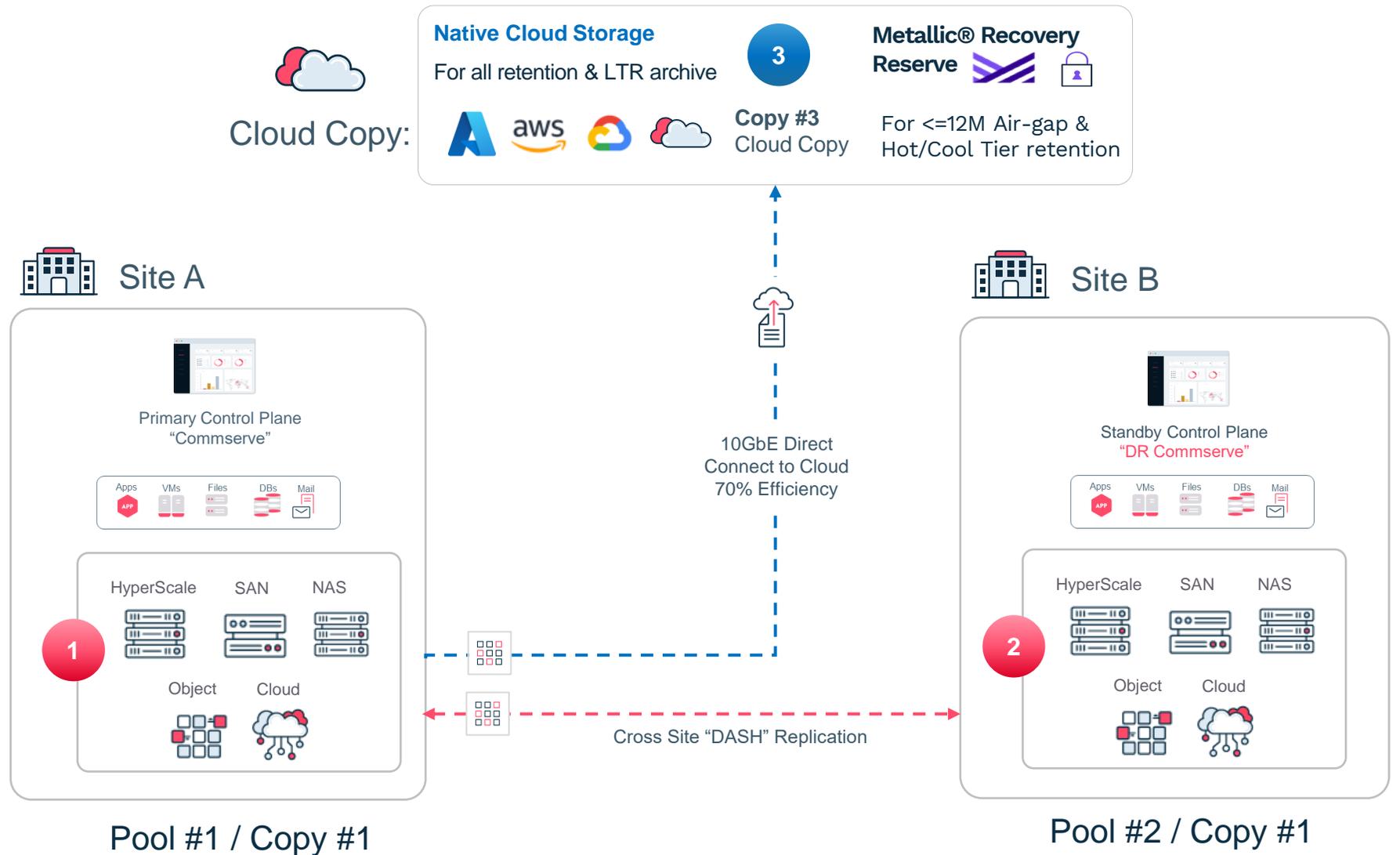
ADD

Architectures

Example Scale-up Architecture



Example - Cross Site + Plus Cloud Copy

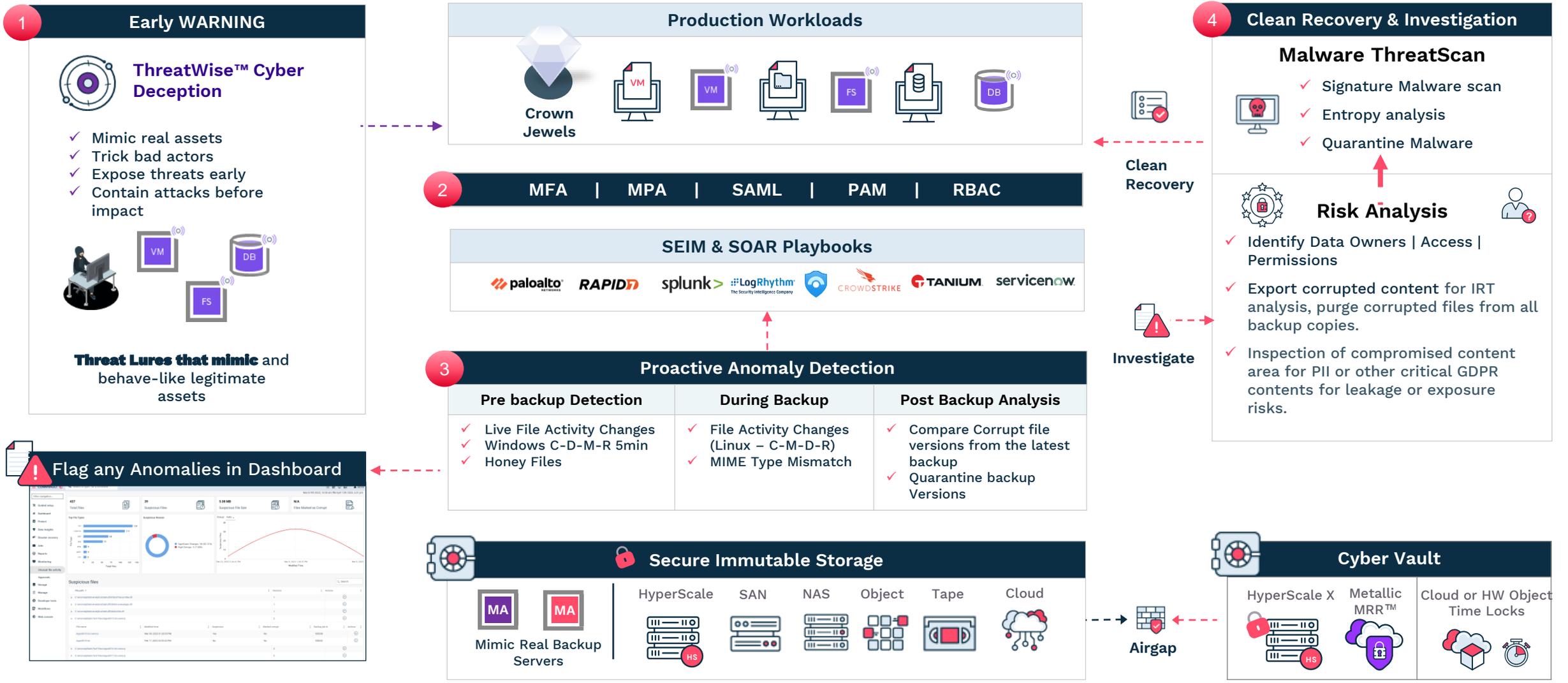




- Security Posture Dashboard
- Lifecycle - deduplication, encryption, verification
- Multi-Authorization Approvals



- Immutable Storage
- Air Gap network topology controls
- Comprehensive SAML | MFA | RBAC control & audit



Q&A

Thank You