

COHESITY

Cyber Resiliency with Cohesity

IT'S TIME FOR
COHESITY
& **VERITAS**

COHESITY



Cohesity + Veritas: The Leader in AI-powered Data Security

Our Mission:

*To protect, secure & provide insights into the world's data.
The largest organizations in the world rely on us for their Resilience.*

Our Focus:



Data Protection

- Broad Workloads
- Enterprise Scale
- Flexible Consumption



Data Security

- Threat Detection
- Posture Management
- Cyber Recovery



Data Insights

- GenAI Engine
- Search & Analytics
- Operational Insights

What We Bring:

\$1.7B
Revenue¹

100+
EBs
Data Protected

1600
Patents

2x
R&D of
Nearest
Competitor

19.4%
Market Share²
(Leader)

140
Global
Locations

12000
Customers

3000
Partners

Leader
Gartner MQ

Our Commitment to Our Customers



“

*Cohesity is committed to futureproofing our customers' investments ... this means ongoing support for **all Veritas NetBackup, NetBackup Appliances and Alta Data Protection** ... for many years to come”.*

Sanjay Poonen, Cohesity CEO

Will Veritas data protection software, cloud, and appliance products continue to get roadmap investment?

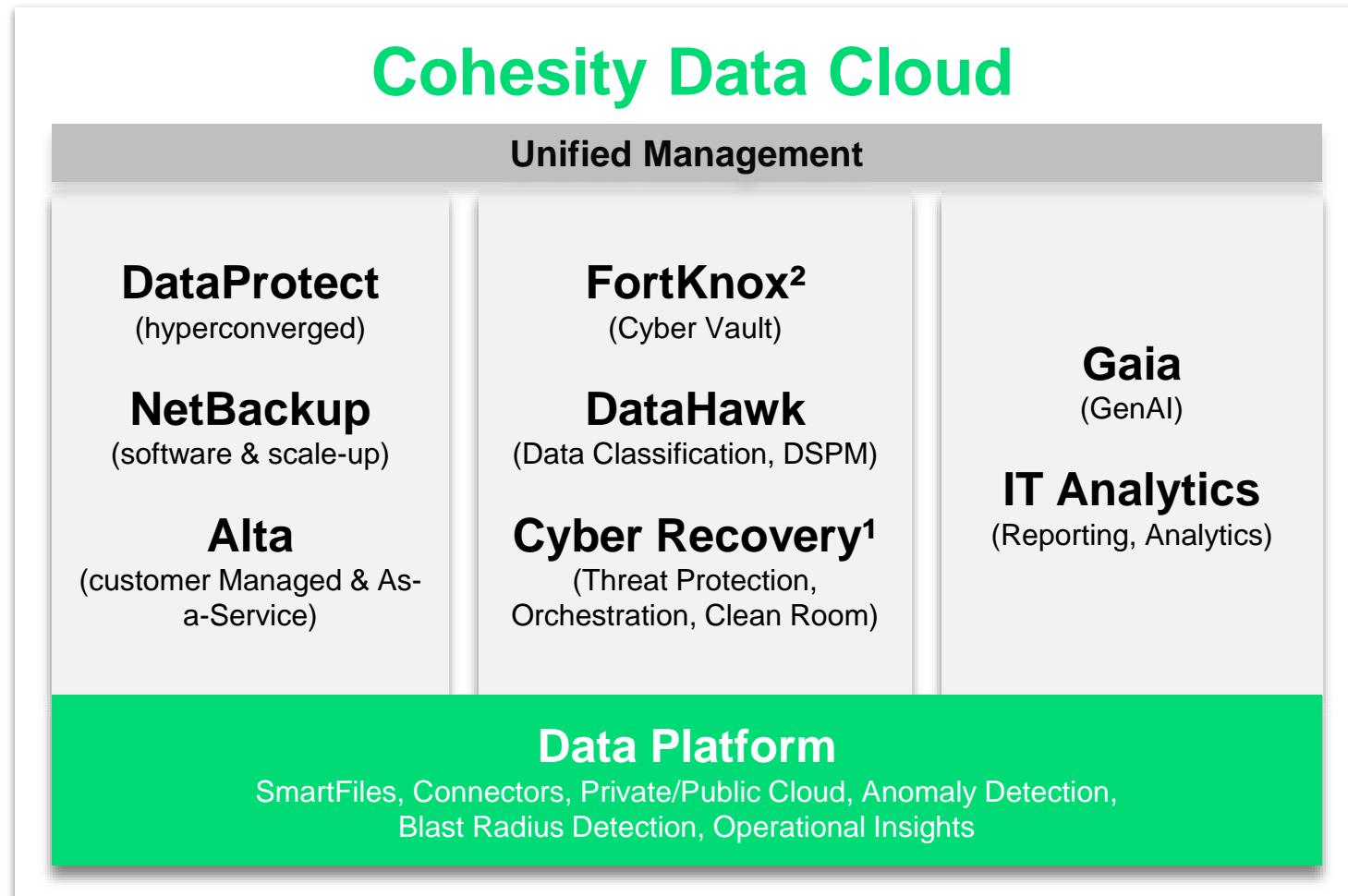
YES!

NEW!: Stay tuned for information regarding new commercial programs to further preserve your investment.

Will our customers be forced to migrate?

NO!

Cohesity + Veritas Product Roadmap



1 – Official Name TBD

2 – Includes Recover Vault

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Cyber Resiliency

Concept of Resilience

Cyber Resilience

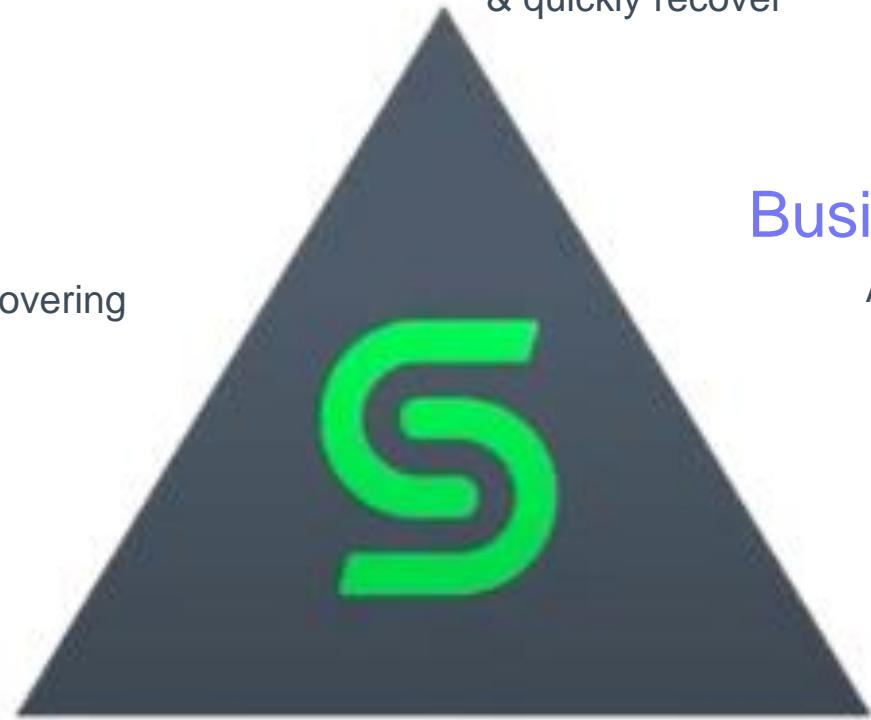
Preparing, responding, & recovering
from Cyber attacks

Data Resilience

Continue business operations
& quickly recover

Business Resilience

Adapt quickly to disruption





ransomware attacks targeting ESX

X |

Rise of the Half Moon

Forescout

<https://www.forescout.com/blog/vmware-esxi-servers...> :

VMware ESXi: A Major Attack Vector for Ransomware

Aug 1, 2024 — ESXi is a high-yielding target for attackers since it hosts several VMs, allowing attackers to deploy malware once and encrypt numerous servers ...

 The Hacker News

<https://thehackernews.com/Cybersecurity%20News> :

Ransomware Attacks Exploit VMware ESXi Vulnerabilities ...

May 23, 2024 — Ransomware attacks targeting VMware ESXi infrastructure follow an established pattern regardless of the file-encrypting malware deployed, new findings show.

 sygnia.co

<https://www.sygnia.co/Blog> :

ESXi Ransomware Attack: Evolution, Impact, and Defense

May 15, 2024 — Discover the evolution, impact, and defense strategies against ESXi ransomware attacks. Learn how to protect your virtualized environments ...

 Microsoft

<https://www.microsoft.com/security/blog/2024/07/29> :

Ransomware operators exploit ESXi hypervisor ...

Jul 29, 2024 — In a ransomware attack, having full administrative permission on an ESXi hypervisor can mean that the threat actor can encrypt the file system, ...

 The Hacker News

<https://thehackernews.com/Cybersecurity%20News> :

Ransomware on ESXi: The Mechanization of Virtualized ...

Jan 13, 2025 — In 2024, ransomware attacks targeting VMware ESXi servers reached alarming

NIST Cyber Security Framework and Best Practices

Protect all data
from all sources

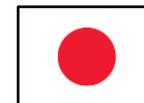
Detect threats as well
as signs of threats

Recover to anywhere
from anywhere



National Institute of Standards and Technology

INTERNATIONAL USE | Translations, Adaptations, and Other References Worldwide:

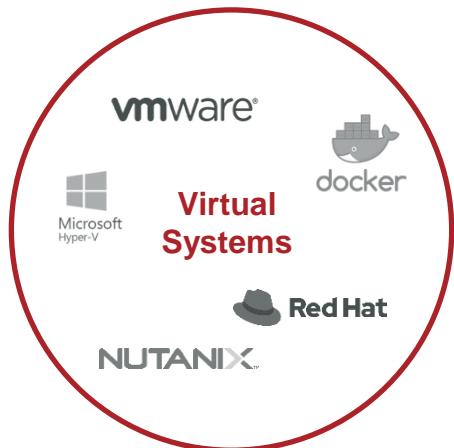


Netbackup

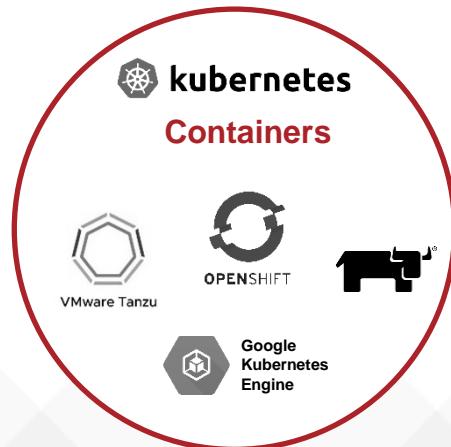
Pulai András

Pre-sales engineer

VERITAS™



NetBackup Unmatched Flexibility



Secure by Design



Prevent Unauthorized Access

- Network Access Control and MFA
- Root Access Removal
- Restricted Admin Access
- RBAC and Mandatory Access Control
- File System, Namespace and Network Isolation



Turnkey Cyber Resilience

NetBackup Flex and Flex Scale



Threat Monitoring, Scanning and Alerting

- Anomaly Detection, Threat Hunting, Malware Scanning
- Intrusion Detection System
- Audit Logging and Log Forwarding



Continuous Threat Mitigation

- Threat intelligence team provides expedited fixes to new vulnerabilities and threats as they emerge



Indestructible Data

- WORM with Indelible Compliance Clock Multi-Person Authorization
- Restricted IPMI

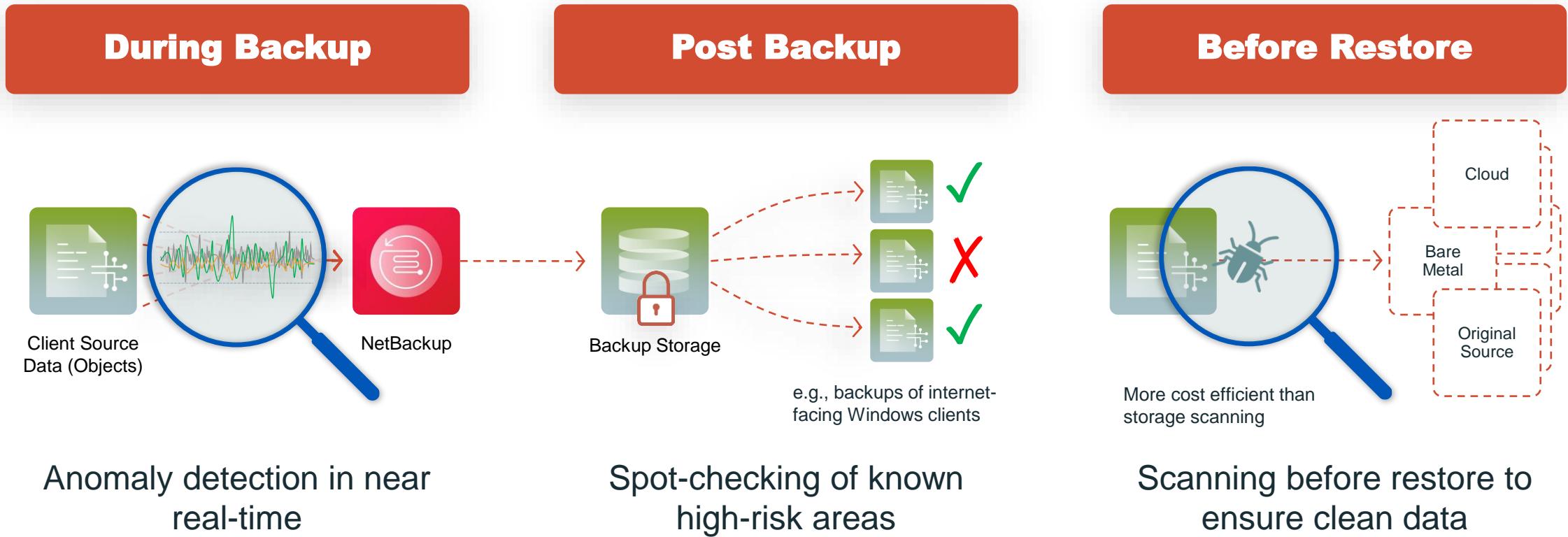


Unbreakable Data Isolation

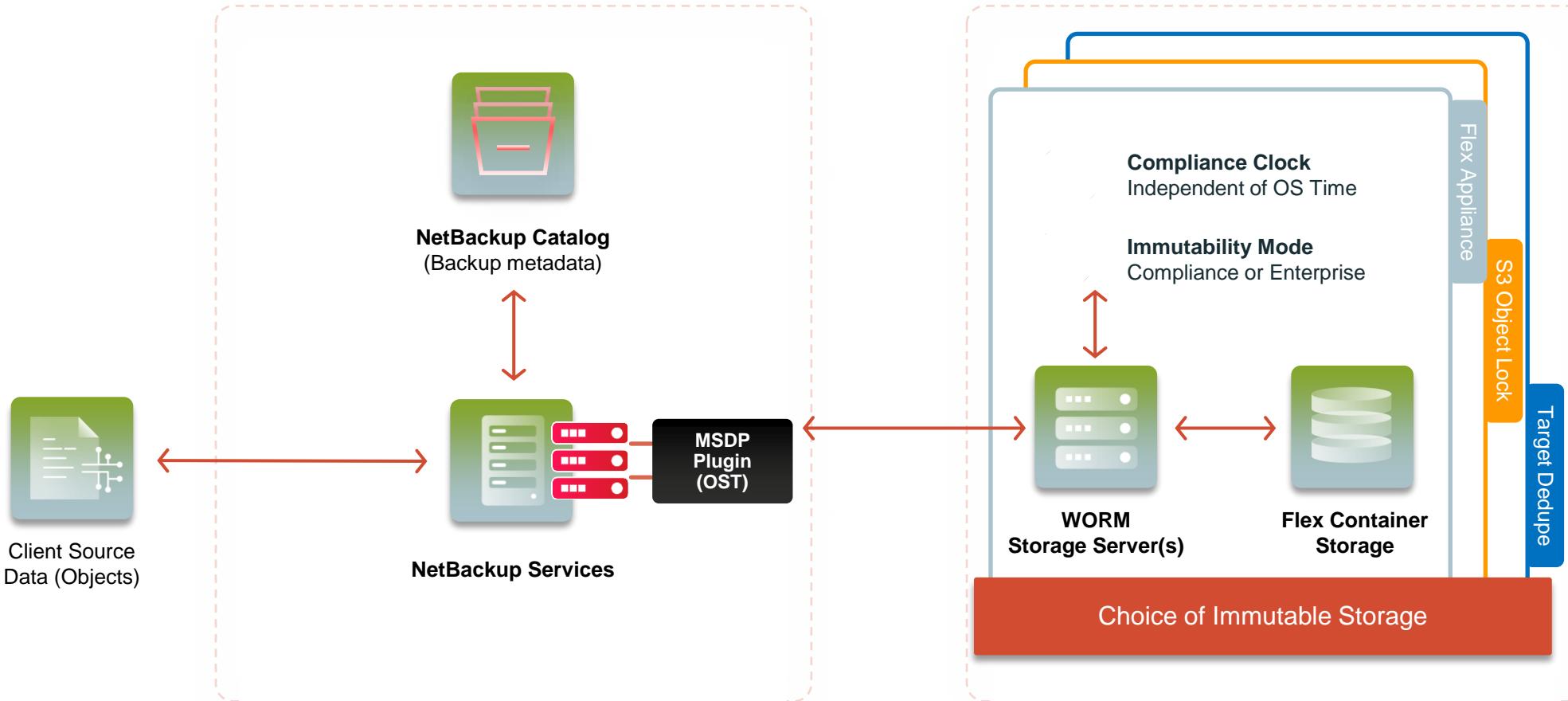
- Virtual AirGap (pull data model)

*Independently pen-tested by 3rd party companies on behalf of two large financial institutions.
FOUND TO BE SECURE*

High-Level Overview of Malware Detection in NetBackup



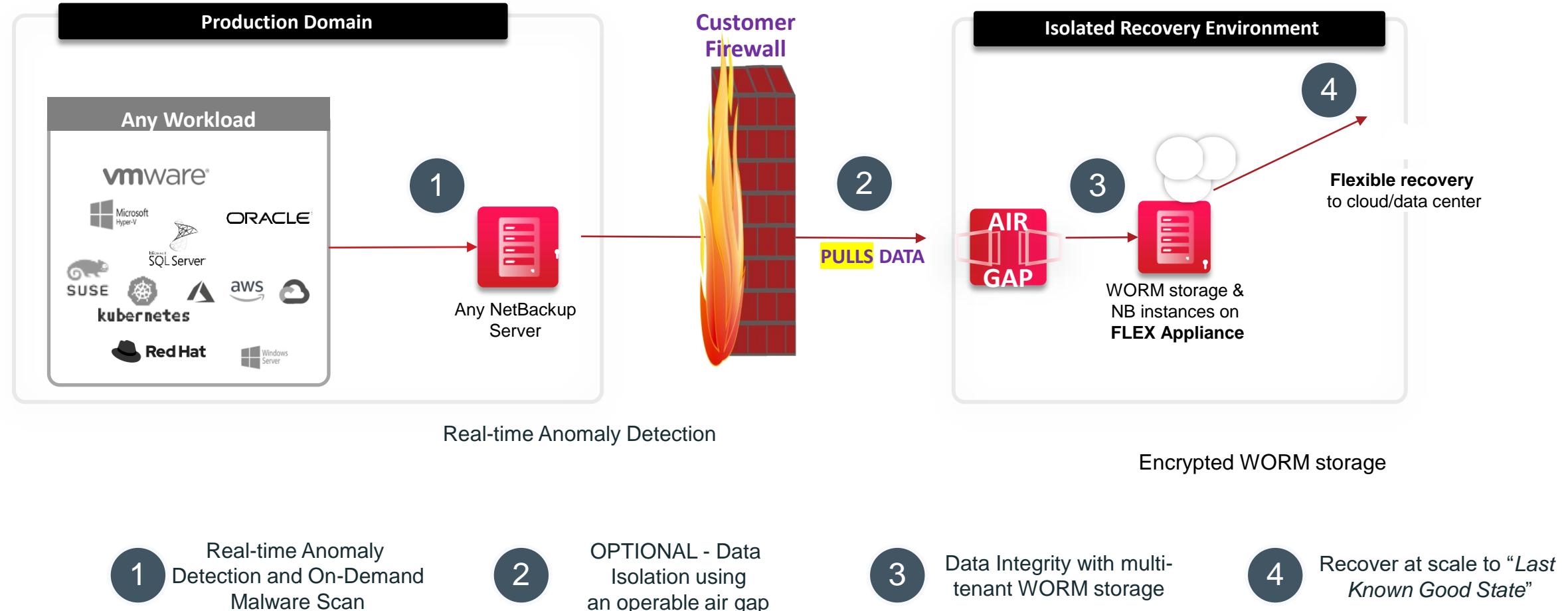
Immutable Storage



NetBackup Isolated Recovery Environment (IRE)

Eliminate need for Listening ports | Support 24 x 7 Data Replication | Pull Model

Powered by NetBackup





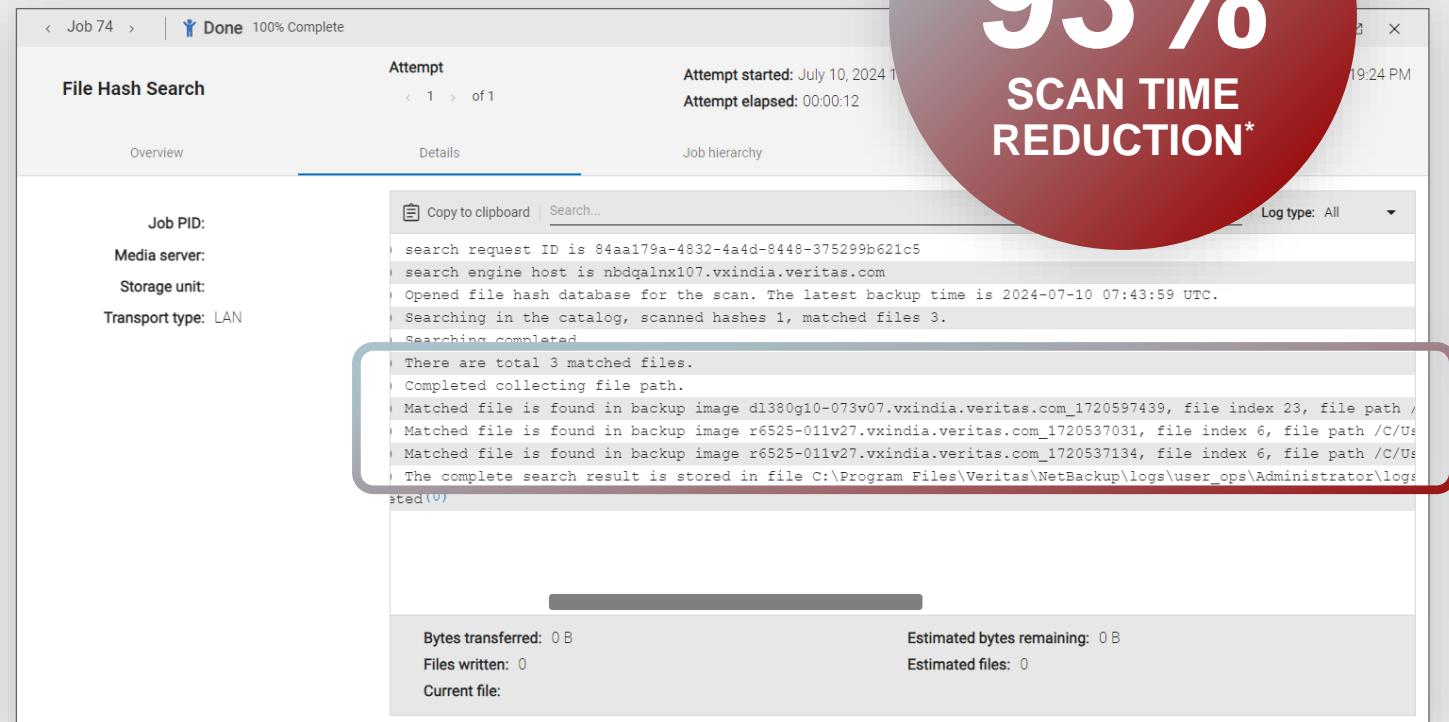
Threat Hunting and Blast Radius Analysis

ABOUT THE FEATURE

- Search for potential Incidents of Compromise (IoCs)
- Searches index (vs. full scan) of hash-based signatures created from recent scans

BENEFITS

- Reduce search time from hours to minutes
- Identify all infected unstructured files across the entire NetBackup environment



UP TO
93%
SCAN TIME
REDUCTION*

*Based on one TB of data, anticipate scan time reduction to increase as data volume increases



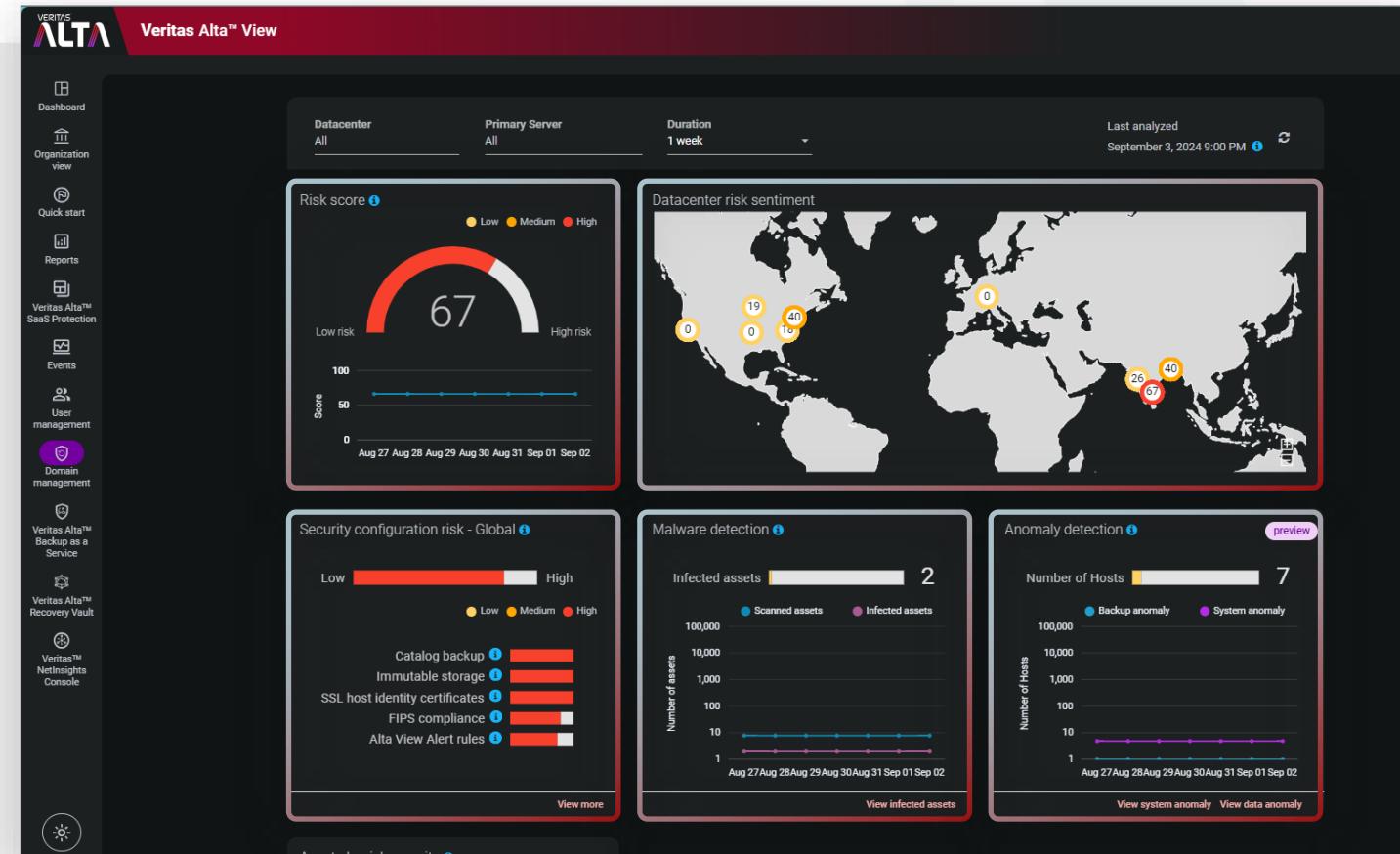
Automated Risk Assessment and Security Score

ABOUT THE FEATURE

- Visualize risk posture across entire data estate (datacenters, clouds, regions, etc.)
- Minimize duplicative alerts

BENEFITS

- Quickly ID and mitigate risks
- Reduced alert fatigue
- Evaluate and improve current risk mitigation measures

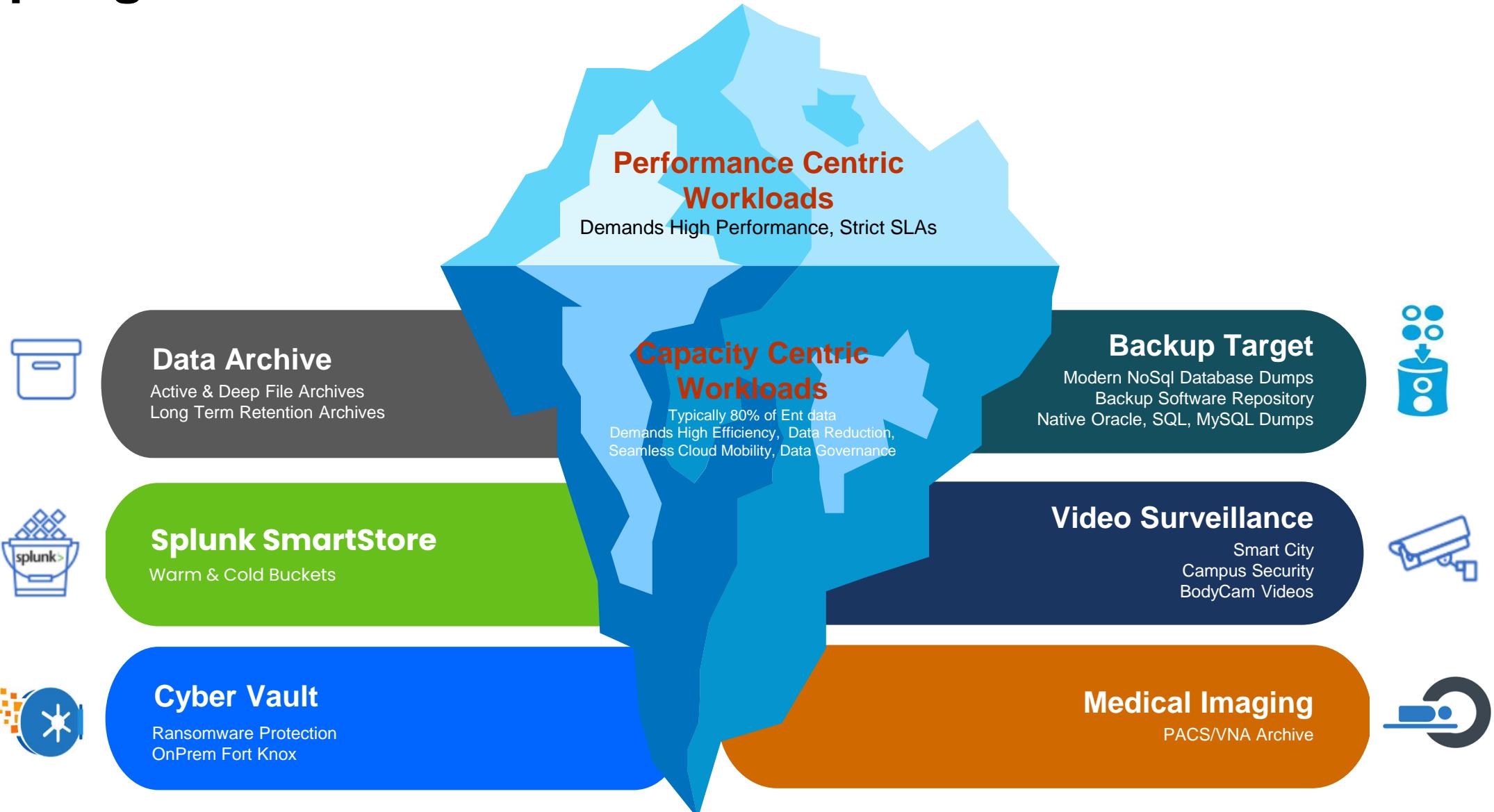


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The background of the slide features a dark, abstract design. It is composed of numerous small, glowing green dots that are arranged in a wavy, undulating pattern across the entire surface. This pattern creates a sense of depth and movement, resembling a digital landscape or a microscopic view of data. The dots are of varying sizes, with some being more prominent than others, which adds to the organic feel of the design.

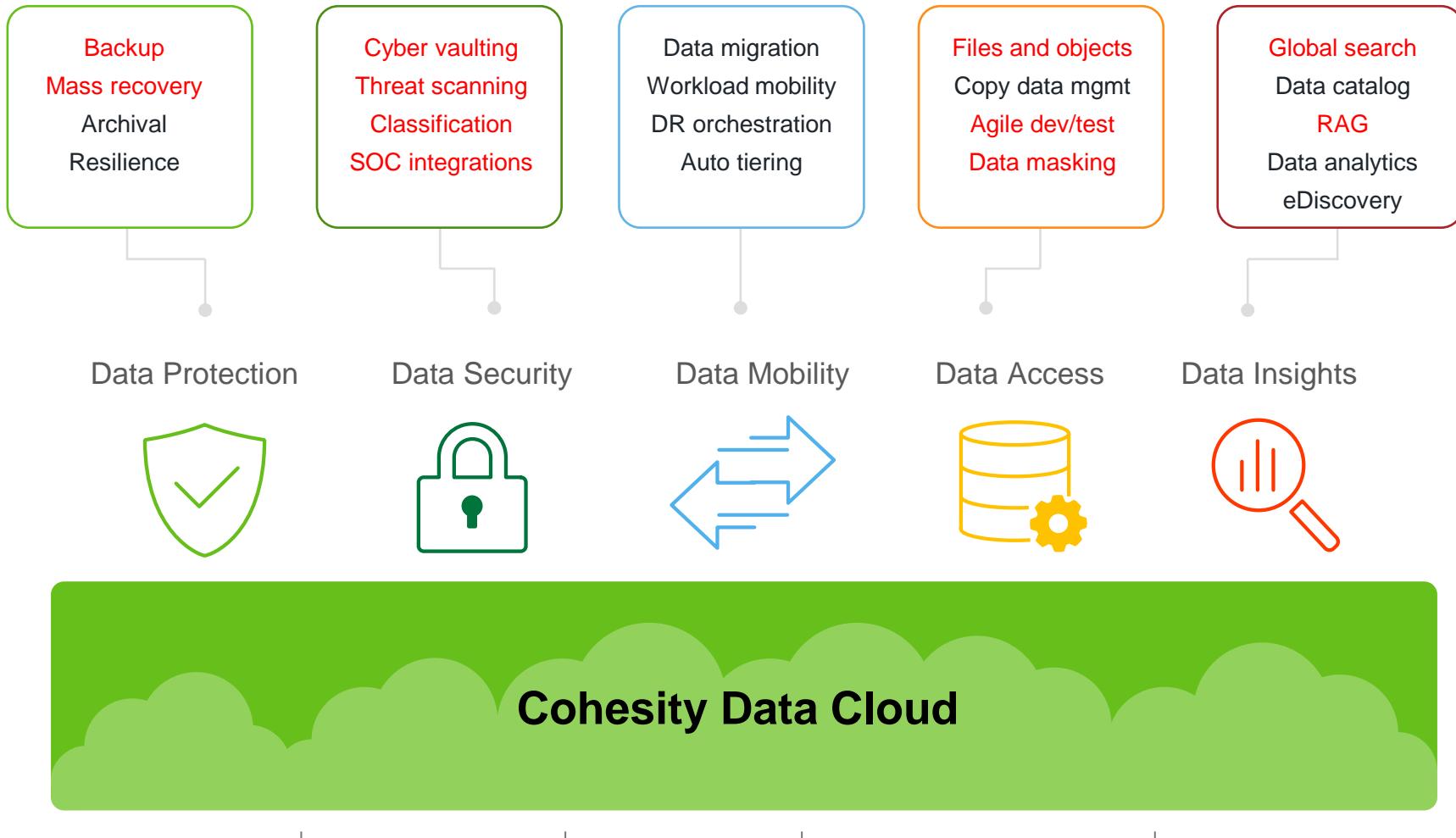
Cohesity Data Platform

Top High Level Use Cases



Unified, End-to-End Platform for AI-Powered Data Security & Management

MANAGE
SECURE
INSIGHTS



MANAGE
SECURE
INSIGHTS

Data Security Alliance

Extensive Security Ecosystem

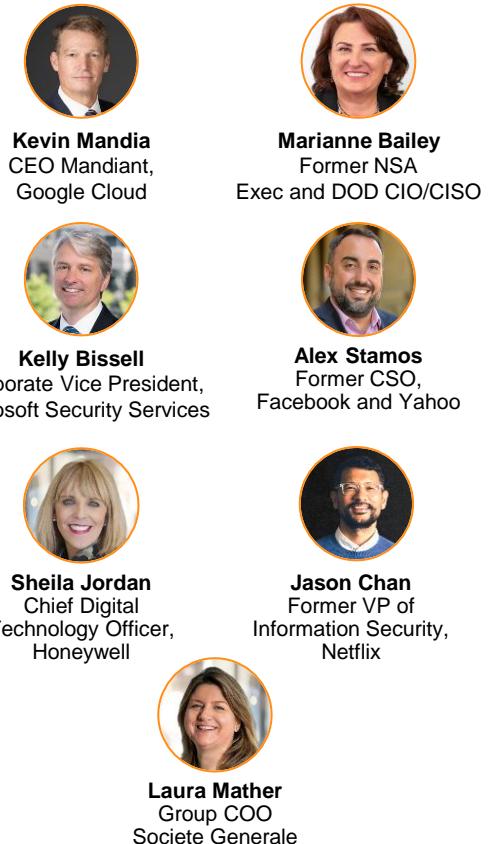
LEADING DATA SECURITY ALLIANCE



DATA SECURITY POSTURE MANAGEMENT PARTNERS

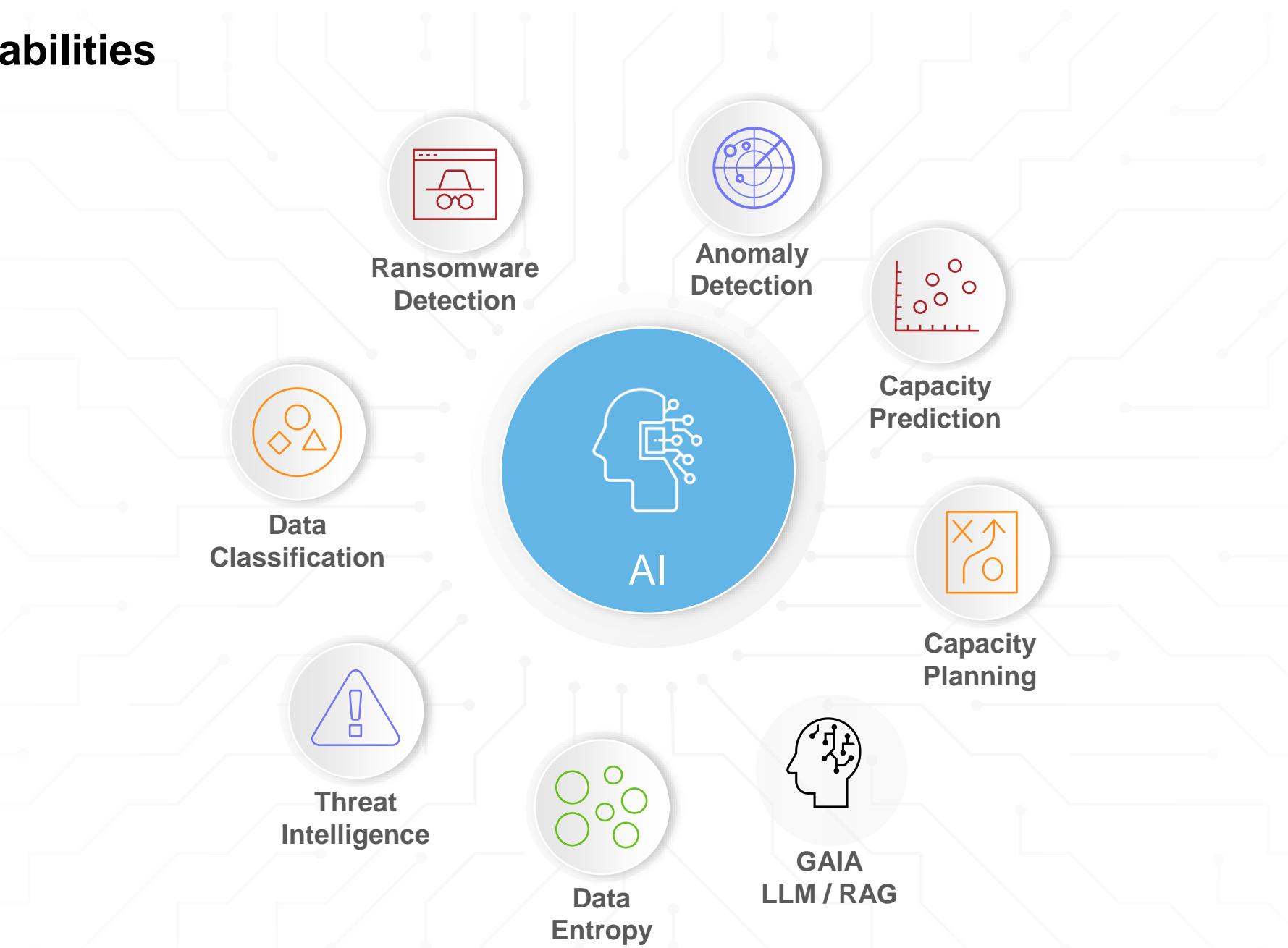


SECURITY ADVISORY COUNCIL



World-Class AI/ML Capabilities

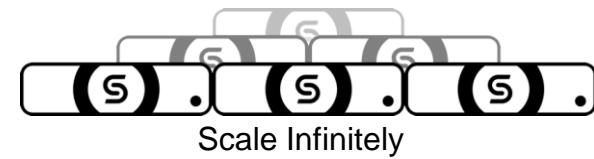
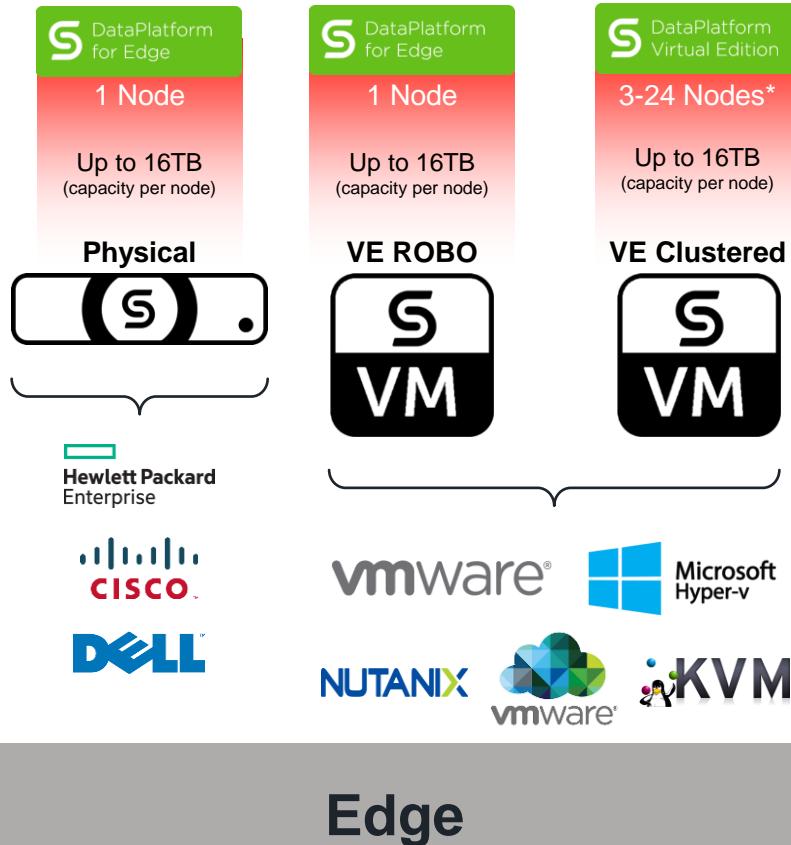
MANAGE
SECURE
INSIGHTS



COHESITY

Architecture and Services

Ultimate Scale & Flexibility



COHESITY DataPlatform

3+ Nodes

Heterogeneous Clusters
Hyperconverged | Rack Servers
Incremental Range of CPU, Memory, Storage

All Flash Nodes



All Flash Tier



Hybrid Nodes



Balanced Flash-to-HDD Ratio



Archive Nodes

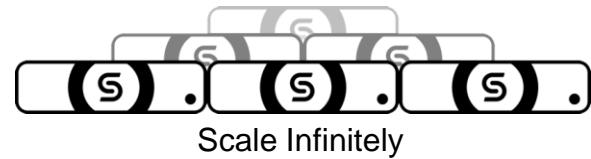


Lower Flash-to-HDD Ratio



FUJITSU

Core

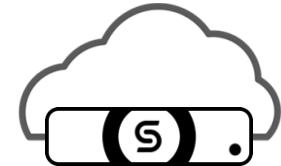


DataPlatform for Cloud

3+ Nodes

Small, Medium, Large, X-Large (capacities per node)

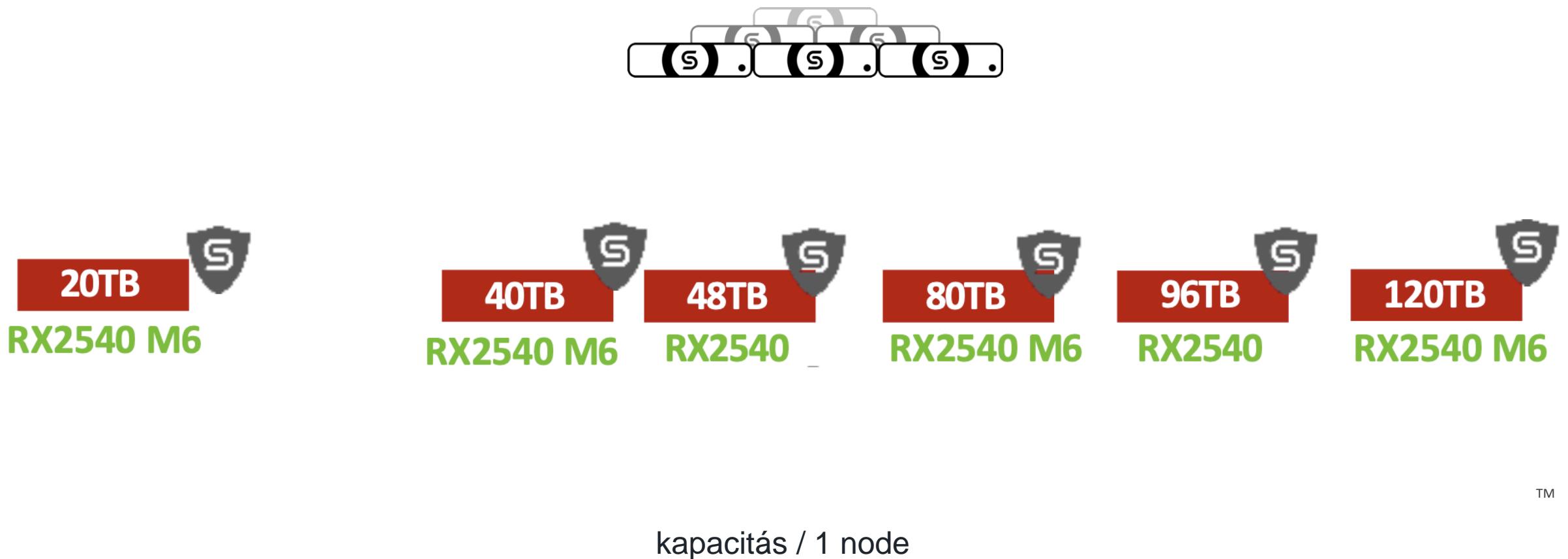
Cloud Edition



Cloud

*It is possible to scale beyond 24 nodes with support assistance

Link to all certified platform vendors and models are found [HERE](#)



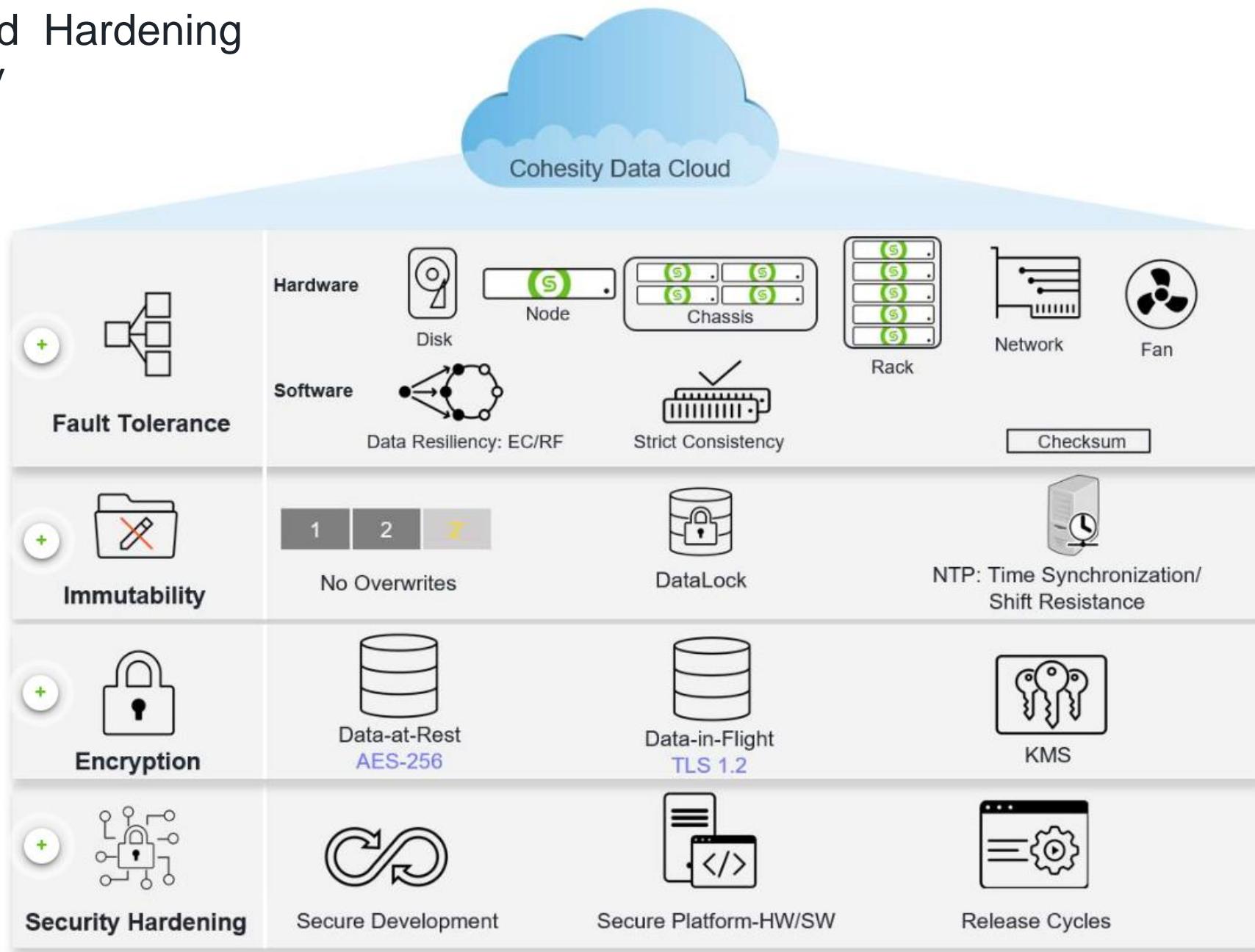
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Cyber Resiliency

Cyber Resilience Framework



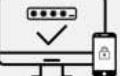
Resiliency and Hardening with Cohesity



Zero Trust Controls



The Cohesity Data Cloud is the central hub for all Zero Trust Controls.

Cohesity Data Cloud													
MFA		USER ACCOUNTS		AUTHENTICATION SOURCES									
	MFA		Local Users		Support User		SSO Users		AD User		TOTP-based App		Email
	Granular RBAC		Custom Roles		System-defined Roles		Operations Privileges						
	Secure Access		Allow/Deny-IP/Ports		Cluster UI & CLI Session mgmt.		Secure Protocols-SMB/NFS		Secure APIs				
	Quorum		Quorum Requestor		Quorum Operations, Template/Lists		Quorum Group						
	No Service Backdoor		No Direct Access		IPMI Split Key		Secure Shell		Shared Access Token				
	Continuous Monitoring		Security Posture		Audit Logs		Syslog Server						

Security Dashboard / Security Posture

≡ COHESITY

Cohesity Data Cloud / Security / Security Center

Dashboard

Security Center

Dashboard

AntiRansomware

DATAHAWK

Inventory

Threat Protection

Data Classification

Cyber Vaulting

Posture Advisor Score

Latest Scan: May 1, 2024 9:07pm

31

High Risk

Low Risk

Medium Risk

Cluster Risk Distribution

Latest Scan: May 1, 2024 9:07pm

High Risk: 2

Medium Risk: 0

Low Risk: 0

Top Issues

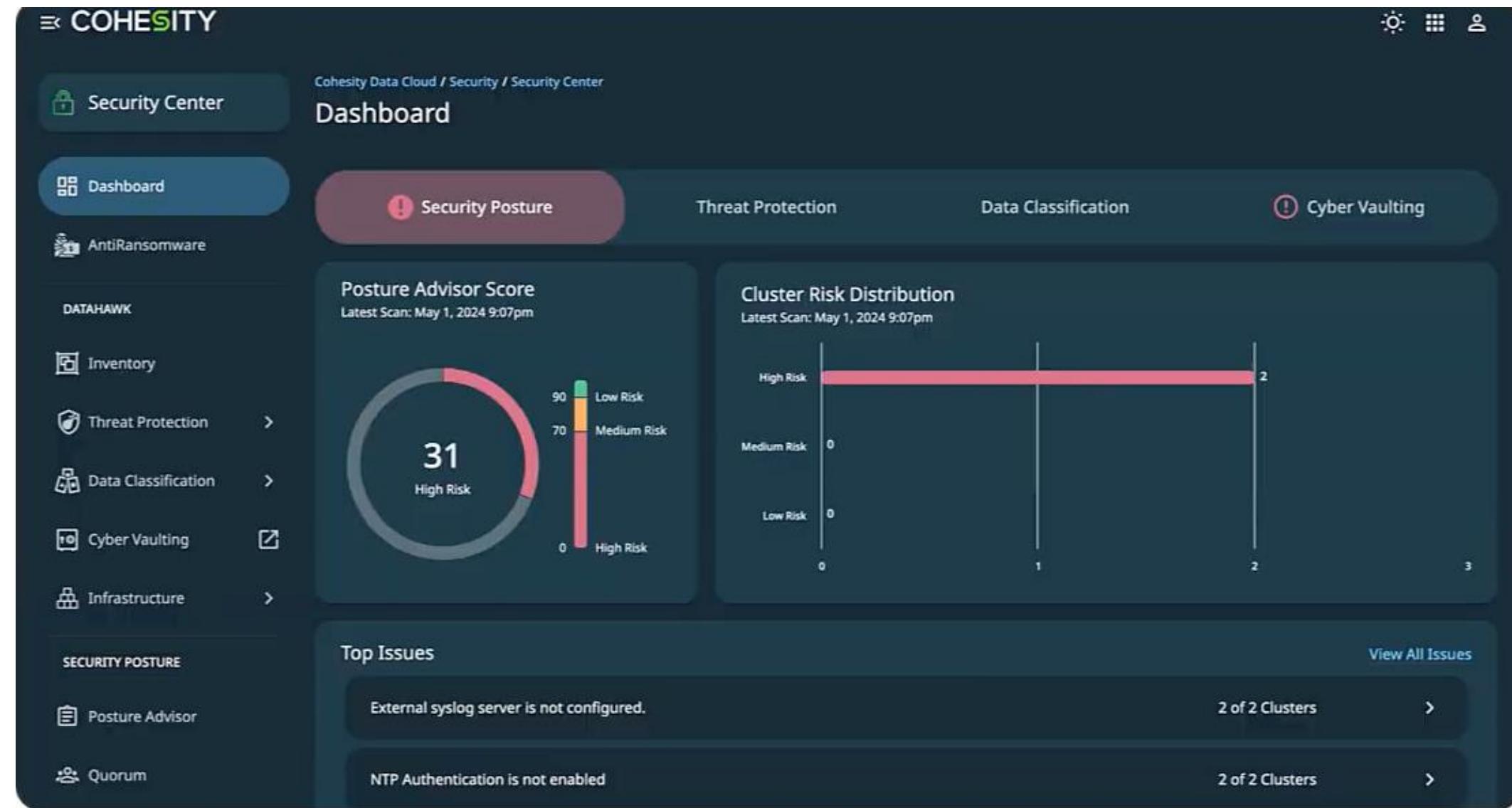
View All Issues

External syslog server is not configured.

2 of 2 Clusters

NTP Authentication is not enabled

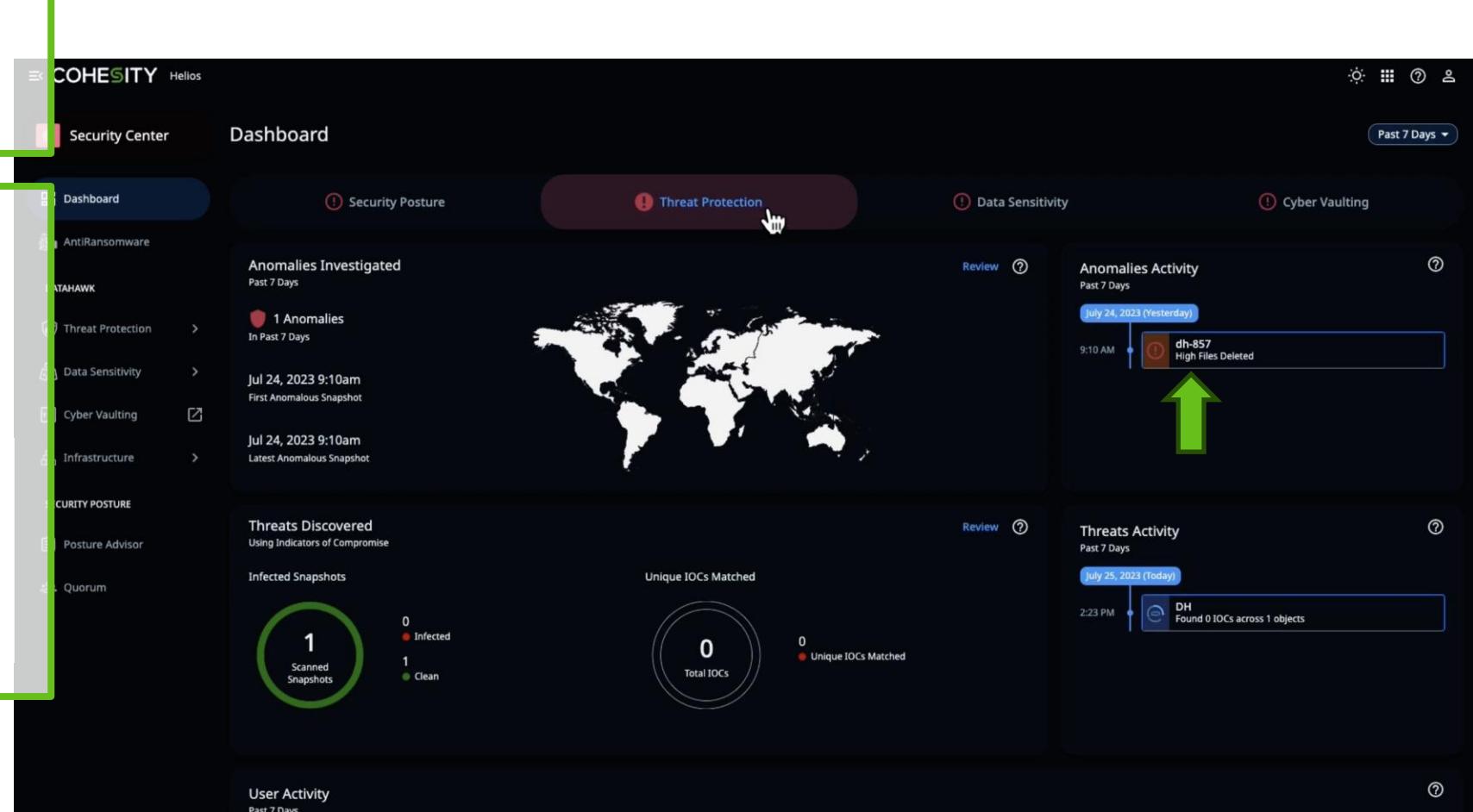
2 of 2 Clusters



Cohesity Threat Protection



Cohesity leverages threat feeds from Qualys to scan from over 100,000 IOCs



The screenshot shows the Cohesity Helios Security Center Dashboard. The Threat Protection section is highlighted with a green box and a green arrow pointing to a specific event in the Anomalies Activity section. The dashboard includes sections for Security Posture, Threat Protection, Data Sensitivity, and Cyber Vaulting. The Threat Protection section displays metrics like Anomalies Investigated (1 Anomaly in the last 7 days), Threats Discovered (1 Infected snapshot, 1 Clean snapshot), and Unique IOCs Matched (0 total IOCs). The Anomalies Activity section shows a log entry for 'dh-857' at 9:10 AM on July 24, 2023, with the message 'High Files Deleted'.

1 Customers can leverage all these IOCs to scan their backups

2 Threat feed is updated daily, eliminating the need for manual scanning rules and feed updates.

Advance Pattern Matching

Data Classification

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Personal Financial Health

Security Center PRD-FSSRSM01

Snapshots Trends Affected Files Sensitivity

Ignore Anomaly Recover Object

Dashboard AntiRansomware

DATAHAWK Threat Protection >

Data Sensitivity >

Cyber Vaulting >

Infrastructure >

SECURITY POSTURE Posture Advisor

Quorum

1.9k 981 933 7

Affected Files Files Added / Modified Files Deleted Patterns Matched

Patterns matched

Search

High Sensitivity Patterns (100)

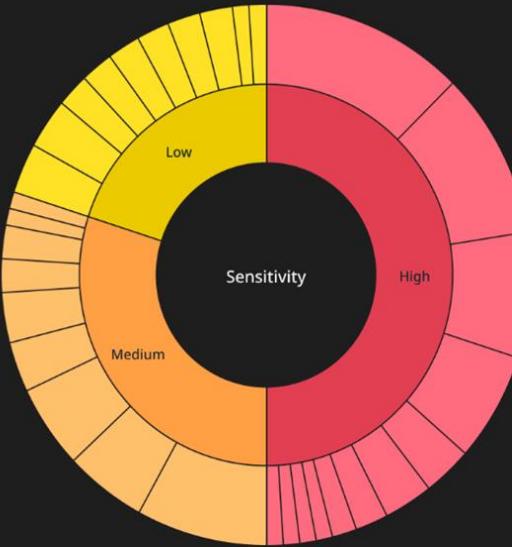
- Phone Number (12.5%)
- Partial Date of Birth (10%)
- Family Name (7.5%)
- Login Password (6.5%)
- Admission Date (3%)
- IP Address (3%)
- Salary (2%)
- Username (1.5%)
- Country (1%)
- MAC Address (1%)
- IMEI (1%)
- Sexual Identity and Orientation (1%)

Medium Sensitivity Patterns (75)

- Full Name (8%)
- Ethnicity (5%)
- Fingerprint (5%)
- Social Security Number (3%)
- Given Name (3%)
- Middle Name (2%)
- Credit Card Number (2%)
- Gender (1%)
- Sex (1%)

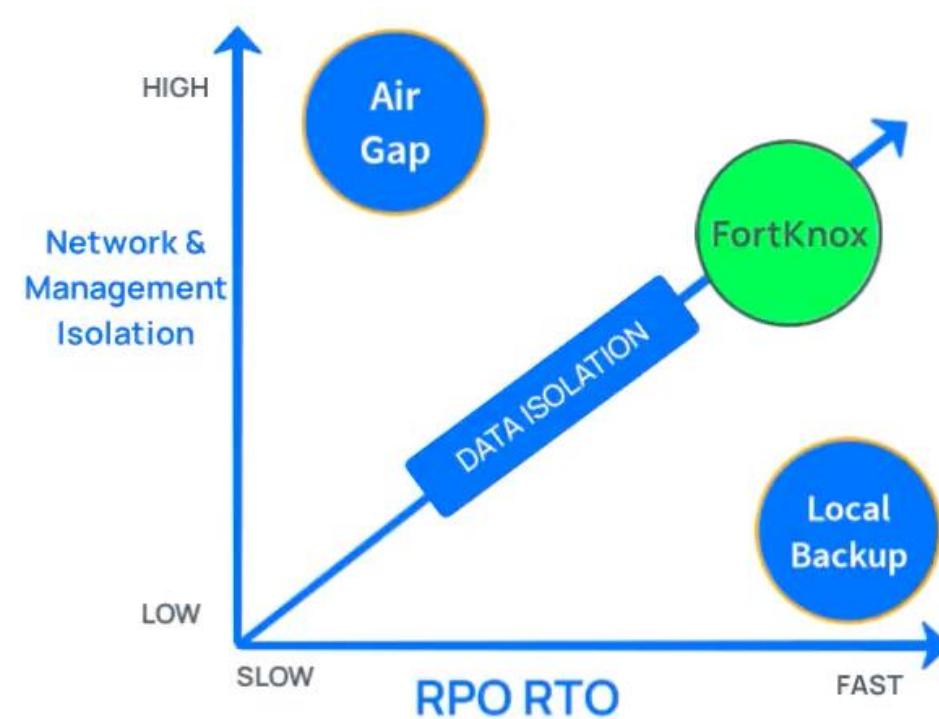
Low Sensitivity Patterns (25)

- Face ID (3%)
- Home Address (3%)
- Religion (2%)
- Voter ID (2%)
- License Number (2%)
- Bank Account (2%)
- Date of Birth (2%)
- Date of Death (2%)
- Passport Number (1%)
- Discharge Date (1%)



Data Isolation: Cohesity FortKnox

FortKnox = Fast & Secure Data Isolation
FortKnox requires Quorum



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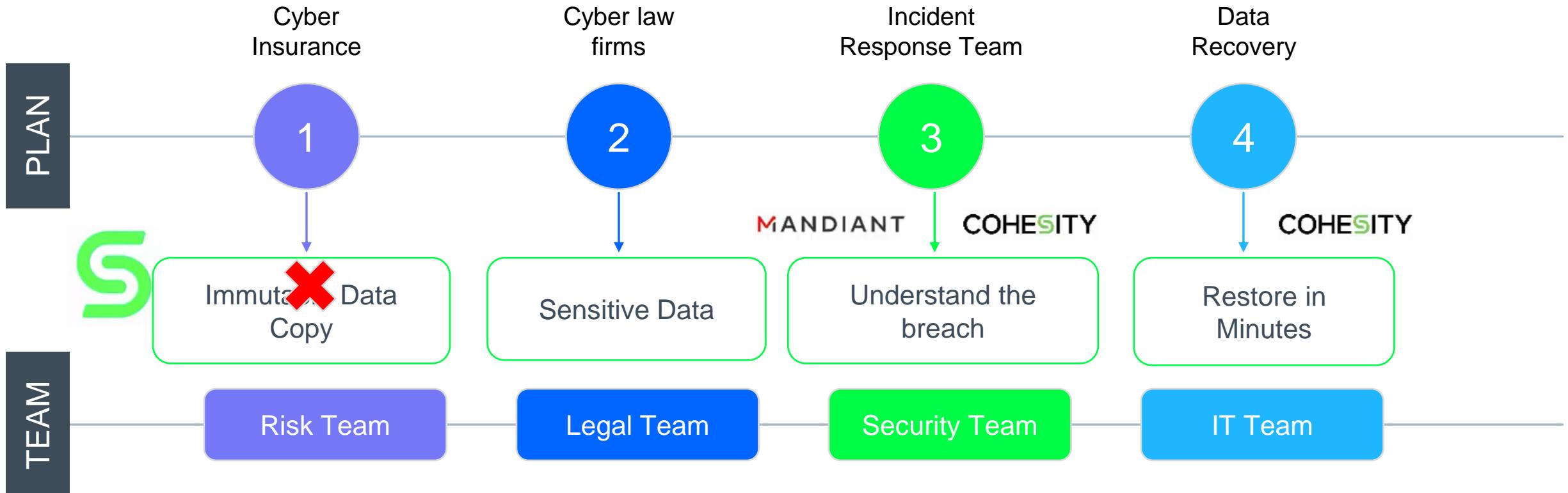
Cyber Resiliency / Navigating Cyber Events

Cyber Event Response Team



Customers should open a support case with Cohesity CERT as soon as an attack is confirmed

Effective Cyber Event Response & Risk Mitigation



PREPARE

-  Cohesity capability
-  Customer process or technology



3-2-1+ Rule & harden the platform



Prepare the digital jump bag



Plan for network isolation



Test the Plan

INITIATE



Destructive Cyber Attack Occurs



Cohesity Anomaly Detection detects the attack



Attack is detected by a user or other security tool



IT Operations use Out-of-Band authentication to Initiate MVRC Recovery through Helios



Known-good install media, configurations, contact lists & workflows presented via SmartFiles



Customer IT orchestration tools or scripting tools rebuild response environment

INVESTIGATE



Use DataProtect Global Search to quickly scan across diverse workloads



Active Directory Comparison allows Security Analysts to discover persistence mechanisms



Hunt for other IoCs using a curated feed or bring your own threat feed



Hunt for other occurrences of found forensic artefacts on other hosts to bring them into scope



Filesystem forensics over incident timeline using DataProtect snapshots



MITIGATE



Rebuild systems using trusted install media and configurations. Recover data.



IT Operations undertake the required mitigation tasks identified by Security Operations to clean the systems



Security Operations bolster any missing or evaded controls



Mitigated systems are tested for functionality



System is recovered back into the production environment



A final baseline snapshot of the mitigated system is taken

Baseline images for mitigation pre-loaded into Staging Room for a production service

Call to Action / Házi feladat!

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Cyber Insurance form

BACKUP AND RECOVERY POLICIES

Do you use a data backup solution?

Yes No

If "Yes":

a. Which best describes your data backup solution?

- Backups are kept locally but separate from your network (offline/air-gapped backup solution).
- Backups are kept in a dedicated cloud backup service.

You use a cloud-syncing service (e.g. Dropbox, OneDrive, SharePoint, Google Drive).

Other (describe your data backup solution): _____

b. Check all that apply:

Your backups are encrypted.

You have immutable backups.

Your backups are secured with different access credentials from other administrator credentials.

You utilize MFA for both internal and external access to your backups.

You have tested the successful restoration and recovery of key server configurations and data from backups in the last 6 months.

You are able to test the integrity of backups prior to restoration to ensure that they are free of malware.

c. How frequently are backups run? Daily Weekly Monthly

d. Estimated amount of time it will take to restore essential functions using backups in the event of a widespread malware or ransomware attack within your network?

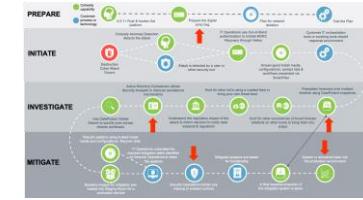
0-24 hours 1-3 days 4-6 days 1 week or longer

Házi feladat: A mentésekkel kapcsolatban:

1. Használnak **MFA-t** ? (Ha van, de nem, akkor lsz kapcsoljátok be!)
2. Használnak **multi-person autorizációt** / quorum-ot a kritikus műveletekhez ?
Képes lenne erre a mentő software-ük?
3. Van **WORM** másolatuk az adatokról ? (Ha van lehetőség, akkor lsz kapcsoljátok be, felhőbe is!)
4. Képes a mostani tárolójuk **Immutable** adattárolásra ? **SmartFiles!**
5. Van **külső helyszínen** másolatuk az adatokról (air-gap) ?

Házi feladat: A mentésekkel kapcsolatban:

1. Van-e leírt / átbeszélt Ransomware helyreállítási terv?



2. Van-e összekészítve egy “digital jumpbag” ? [Cohesity SmartFiles!](#)

- Az alap SW csomagok, amivel fel lehet majd építeni egy tiszta szobát a sérülés megértésére.
- Amiben benne vannak a minimálisan szükséges rendszerek a válaszadásra
- Kommunikációs csomagok

3. Kapnak segítséget Ransomware helyzetben a gyártótól? [\(Cohesity CERT team\)](#)

4. Helyreállítási folyamathoz van-e elképzelés? [\(Cohesity Celan Room solution\)](#)

Érdekes olvasnivaló

Use Cohesity for Your Veeam Backup Repository

<https://docs.cohesity.com/HomePage/PDFs/Cohesity-Solution-Guide-Veeam-Backup-Repository.pdf>

(Ratmir Timashev – Object First)

Use Cohesity for Your Commvault Storage Libraries

<https://docs.cohesity.com/HomePage/PDFs/Cohesity-Solution-Guide-CommVault.pdf>

Use Cohesity as HPE NonStop Systems Backup Repository

<https://docs.cohesity.com/HomePage/Content/ExternalFiles/TechGuides/Cohesity-Solution-Guide-HPE-NonStop-Systems-Backup-Repository.pdf>

Use Cohesity for Your IBM Spectrum Protect Storage Pools

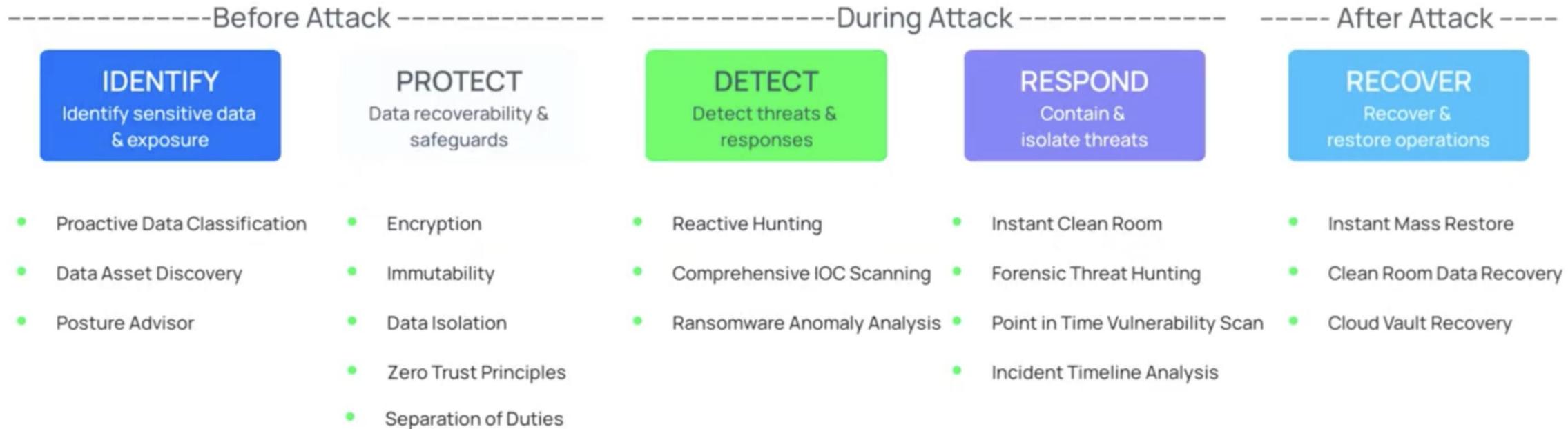
<https://docs.cohesity.com/HomePage/PDFs/Cohesity-Solution-Guide-IBM-Spectrum-Protect.pdf>

COHESITY

Summary



Cohesity's Team Sport Approach to Modern Data Security



Cohesity Data Cloud Delivers Superior Outcomes



Speed

Decreased backup times by **45%**

10x faster data recovery times compared to legacy infrastructure

97% faster file restores

Security

\$0 ransomware paid in multiple cases

\$2M saved in cyber insurance costs

17% more threats detected

Scale

Support **40K+** M365 users

Billions of objects

Multi-PB cloud cyber vaulting

Protection for VMware, Oracle, Physical & SAP HANA at **PB scale**

Simplicity

Retire **18** systems in favor of **1** modern platform

Each FTE manages **63%** more VMs

36% more efficient security and backup teams

Smarts

48% less time to remediate threats

45% less staff time to detect threats

26% more productive compliance teams

Thank You

COHESITY