

Data Protection and It's Role in Modern Security and Cyber Response Strategies

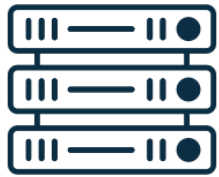
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Business Data Is Everywhere

Organizations are rapidly modernizing but still have workloads from prior generations across mixed environments that increase the attack surface. This makes managing, protecting, and using data increasingly difficult.



ON-PREMISE



PUBLIC/PRIVATE CLOUD



SAAS APPLICATIONS



END-USER DEVICES



The Balancing Act

89%

Organizations report having a **multi-cloud** strategy.

\$1.4M

is the average cost for rectifying a ransomware attack.

35%

Annual **volume of data** growth reported by organizations. Up from 27%

60%

Of all **IT spending** on application software will be **Cloud** related.

1 in 3

Organizations report having successfully been **hit more than once** by a ransomware attack.

54%

Decision makers rate **IT Cost Optimization** as their biggest challenge.

Innovation

Readiness

Efficiency

Attacks are faster and broader than ever.

What once took months, now takes minutes...and backup and recovery environments are under attack.

Access

Breach and gain foothold

Damage

Execute attacks below the radar, exfiltrating and encrypting data

Disable

Break operational continuity to prevent recovery

ACROSS HYBRID MULTI-CLOUD ENVIRONMENTS



Average breakout times have accelerated to

84 MINUTES

Percentage of attacks targeting backup repositories

93%



The Data Protection Disconnect

Conventional Approaches Are No Longer Enough

Ward Off
Threats



Security Tooling

Fortify and defend perimeter
and environments

Perimeter
Defenses

Post Event
Recovery



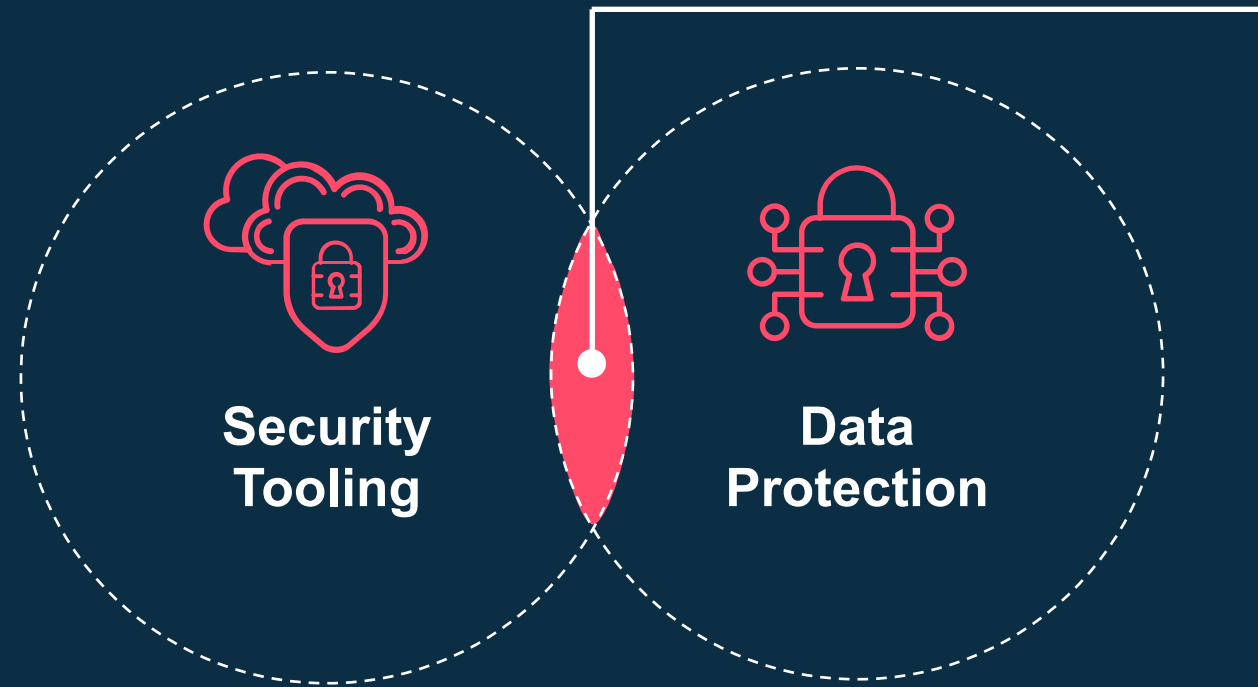
Data Protection

Routine backup and
post-event recoverability

Last Line
of Defense

The Data Protection Disconnect

Conventional Approaches Are No Longer Enough



- See more
- Reduce risk
- Improve response

Cyber threats demand a proactive response plan = Readiness

NIST Cyber Defense Framework:



Security Team

- Access controls (MFA)
- Monitoring (SEIM)
- Patching currency
- Network segmentation
- Prioritized response
- Exercised playbooks

Incident Response Team

Data Recovery Team

- Recovery automation and metering
- Rogue prevention
- Early warning anomaly detection
- Control zones / air-gap segmentation
- Data store hardening (Immutable Copies)

Cyber Insurance Partner

Transforming with Intelligent Data Services



1998 - 2010

Backup & Recovery

Patented no-limits architecture for data protection

2010 - 2019

Data Management Platform

AI/ML intelligence and scale to enable use case and workload expansion

Now & Forward

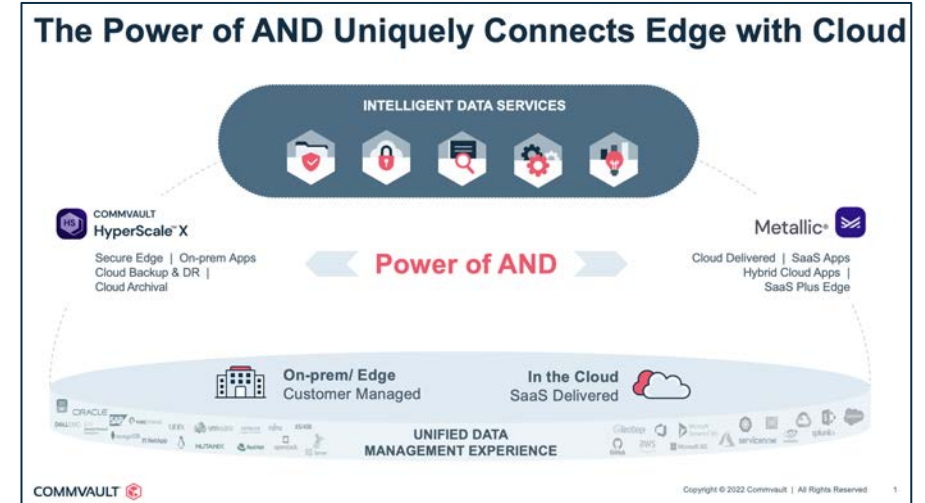
Unified Data Management Services

Intelligent Data Services (Data Protection, Security, Transformation, GRC)

Multi-Cloud, On-Prem and Edge

SaaS, cloud and legacy application workloads

Delivered as Software and SaaS



27 years

as a pioneer in data management

12

consecutive years

as Gartner Magic Quadrant leader

>1,000

issued patents

98%

customer support satisfaction

100,000+

organizations rely on Commvault

>3.5+

exabytes

moved to the cloud

>11+

exabyte

data under management

Next-Generation Data Protection From Commvault

Layered protection that actively defends data and its recoverability across production and backup environments

Stay resilient.



Secure

Hardened, zero-trust architecture, with best-in-class protocols.

- Secure data
- Prevent unwanted access
- Maintain integrity

Anticipate threats.



Defend

Early warning, in-depth monitoring, and advanced forensics.

- Limit exposure windows
- Flag attacks
- Increase visibility

Respond with confidence.

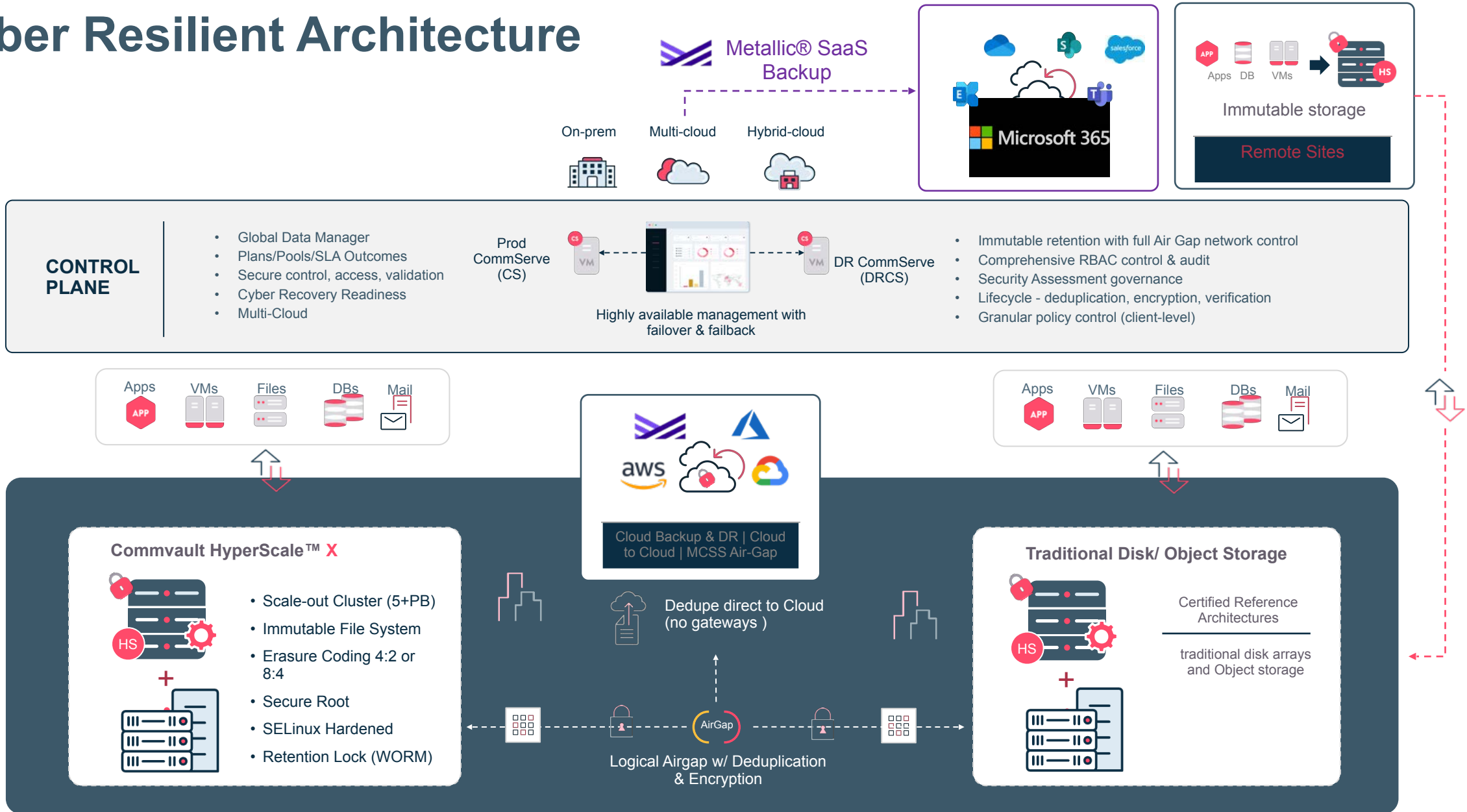


Recover

Rapid recoverability and trusted compliance across data estates.

- Reduce downtime
- Thwart data loss
- Exceed SLAs

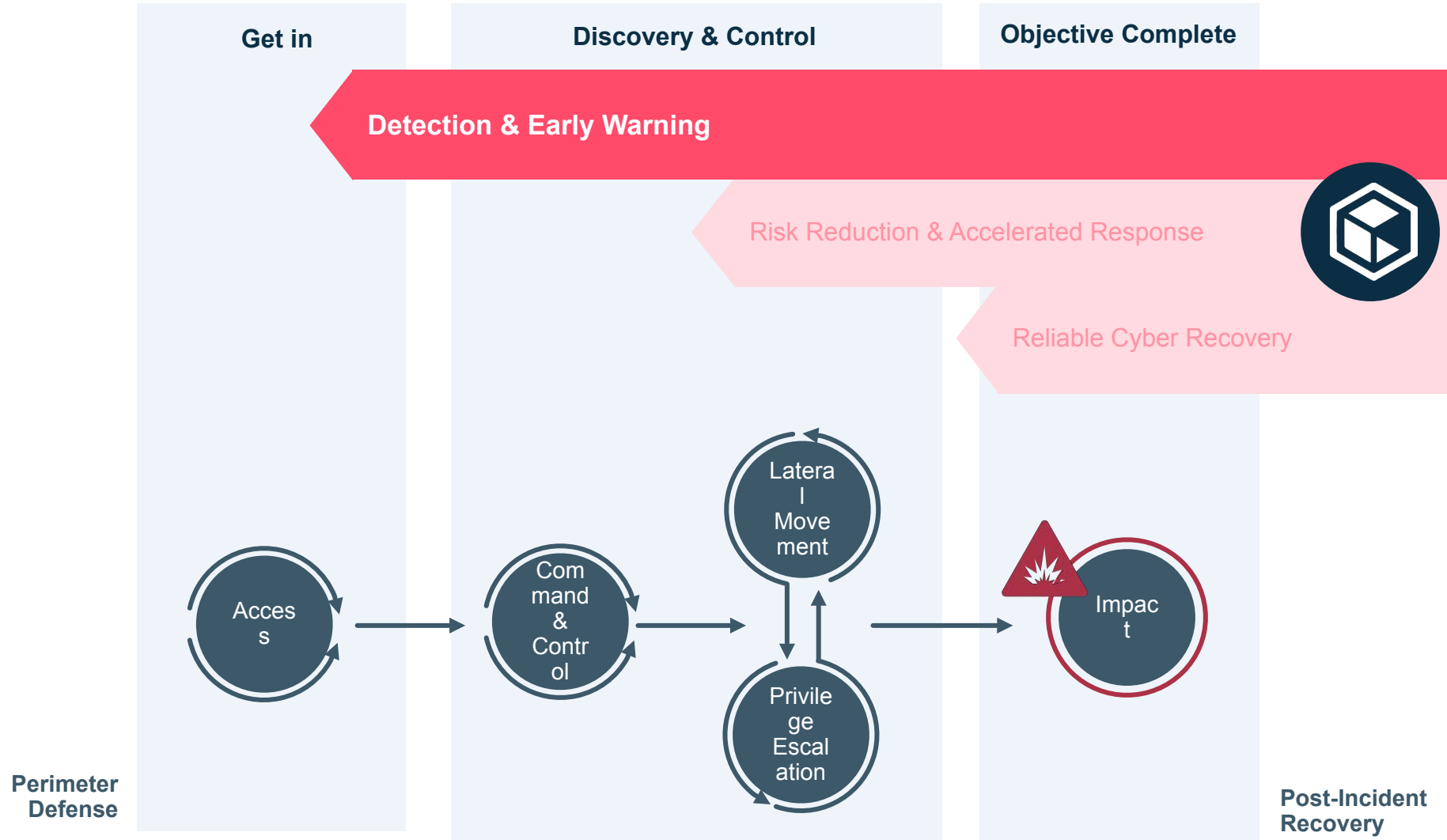
Cyber Resilient Architecture





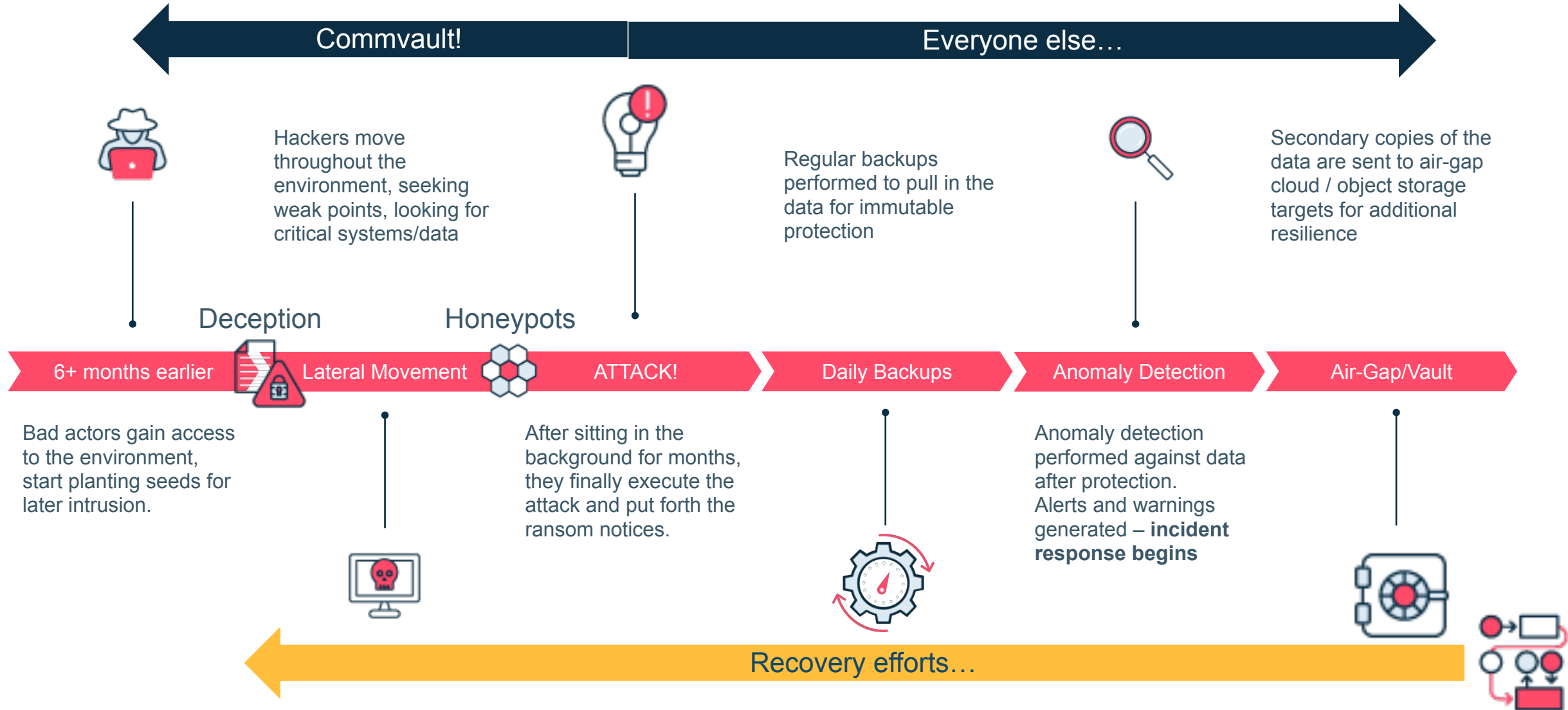
**Active Defense:
Defending Data from Sophisticated
Threats**

Shifting Data Protection Left



Only **12% of businesses** have ransomware detection tools that are adequate and equally secure on-prem and cloud environments¹

What is “shifting left”?



Defending Data Sooner



Alerting threats in production



Uncovering stealth and zero-day attacks



Providing clear and precise signals



Masking backup infrastructure



Metallic ThreatWise

Early Warning Cyber Deception

see NIST SP 800-53, Revision 5

Lures

artifacts that redirect attack toward sensors

- Files, Cached credentials, Bookmarks, etc.
- Unlimited use – no agents

Sensors

microservices of native interactions

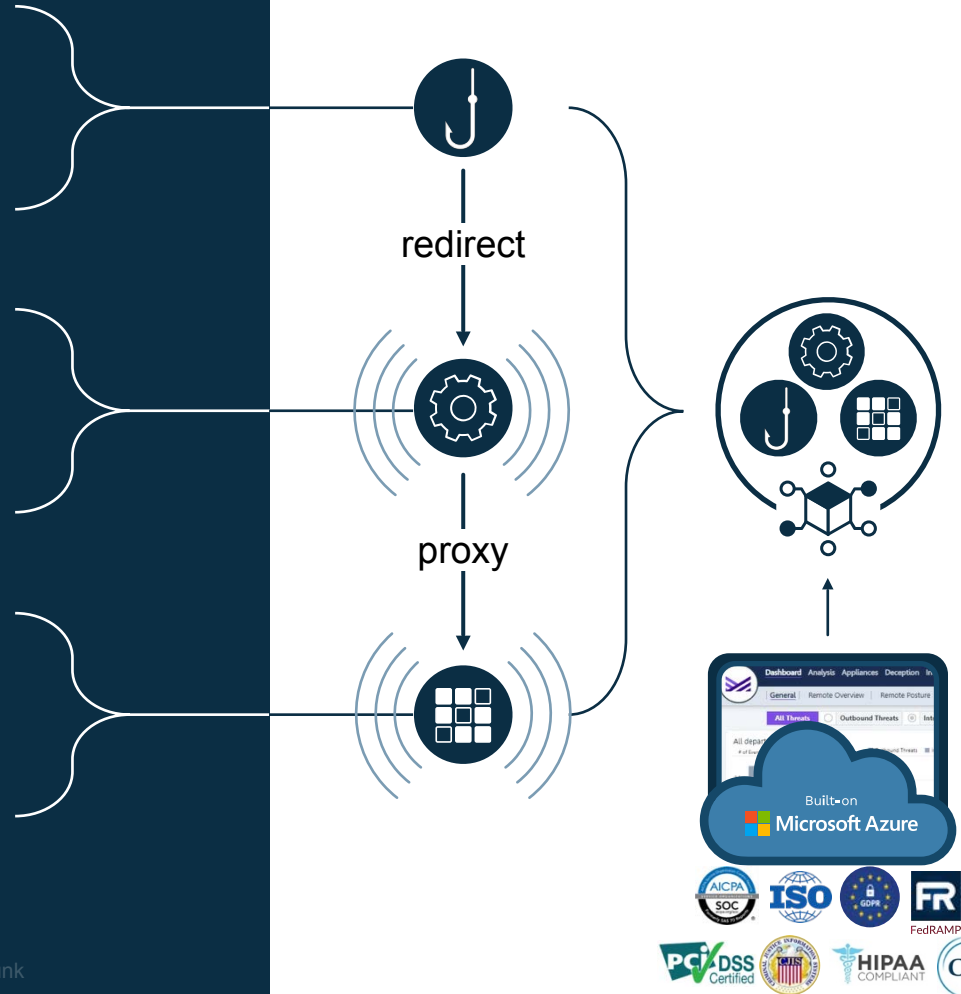
- Clone production assets
- Highest scalability and agility

Full System

full interaction decoy

- Unlimited interaction
- Fit for specific use cases

Surface zero-day, unknown, and internal threats in production – before they reach your data.



Virtual Appliance / Container

- On-premise, Cloud, IoT and OT
- 100's of Deceptive Assets configured and deployed

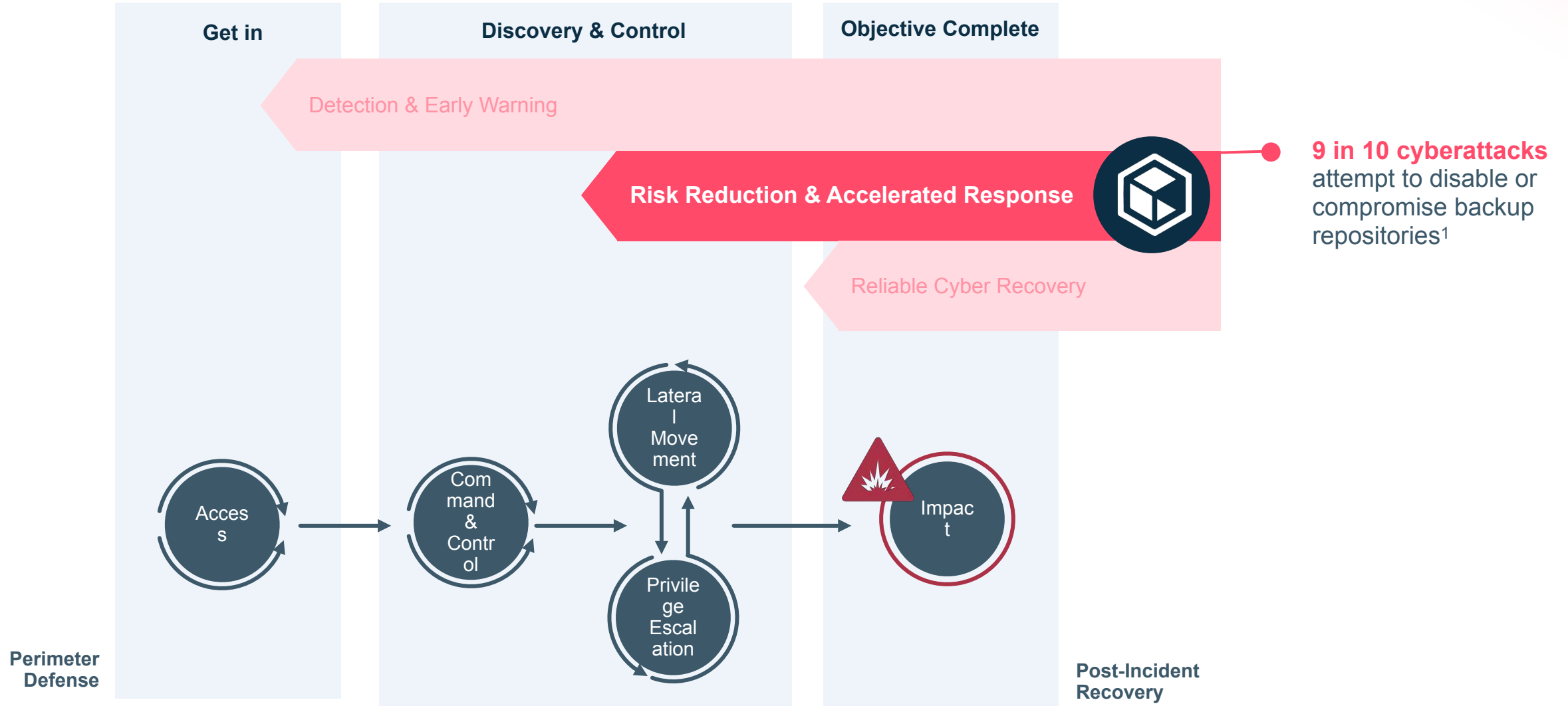
TSOC

ThreatWise Security Operations Console

- Managed and monitored from a secure SaaS environment
- Alerts integrated with SIEM, SMS or Email

Securing Data: Bridging the Gap Between IT & Security Teams

Shifting Data Protection Left



Proactive, Multi-layered Security

Actively defend data and its recoverability



COMMVault 

**Secure-by-Design
Architecture**

Immutable – Air-Gapped – Zero-Trust



Security IQ

Monitor threats & improve security postures



Risk Analysis

Identify anomalies, secure sensitive files, & assign stringent security



Security Integrations

Increase visibility, coordination, & countermeasures



Ecosystem Integrations

Uniquely connecting Data Protection and Security

Improved Security

Hardened security through enhanced platform resiliency

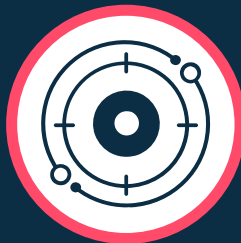
Better Collaboration

Increased visibility through correlated and shared insights

Faster Incident Response

Improved event handling through automated countermeasures

Threat Intelligence



Orchestrated Response



Identity & Privilege Access Management



3rd Party Immutability



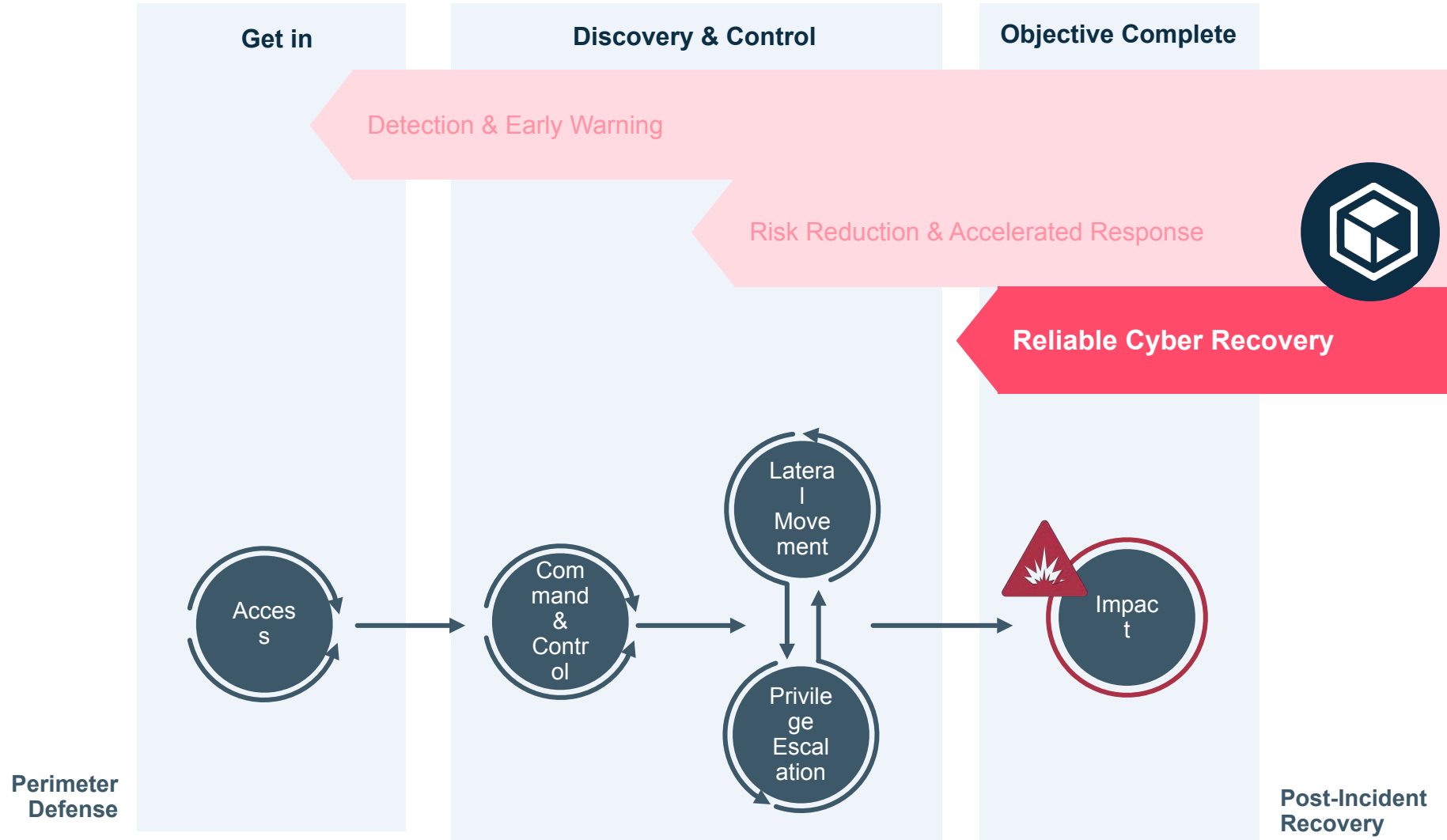
COMMVAULT® 



**Cyber Recovery:
Eliminating Downtime while
Keeping Data Clean**



Shifting Data Protection Left



As cybercrime rises, **less than 23% of businesses** are confident in their ability to recover data¹

Threat Behavior Overview

Business Issue: As threats remain dormant for days at a time, backups are continuous. Files may contain infection prior to backup, causing a false sense of safety and impact to recoveries.



Cyber threats challenge data integrity, compliance, and cost.



Is my data clean?



Can I recover fast?

Preventing Reinfection



Driving Business Continuity



Commvault Threat Scan

Commvault Threat Scan optimizes and simplifies ransomware recovery objectives, by helping organizations recover uninfected versions of backup data, and eliminating the risk of reinfecting recovery targets with malware

1



Identify

Identify threats within backups so only clean data is recovered

2



Deliver Insights

Provides insights that can help drive informative actions

3



Clean Recovery

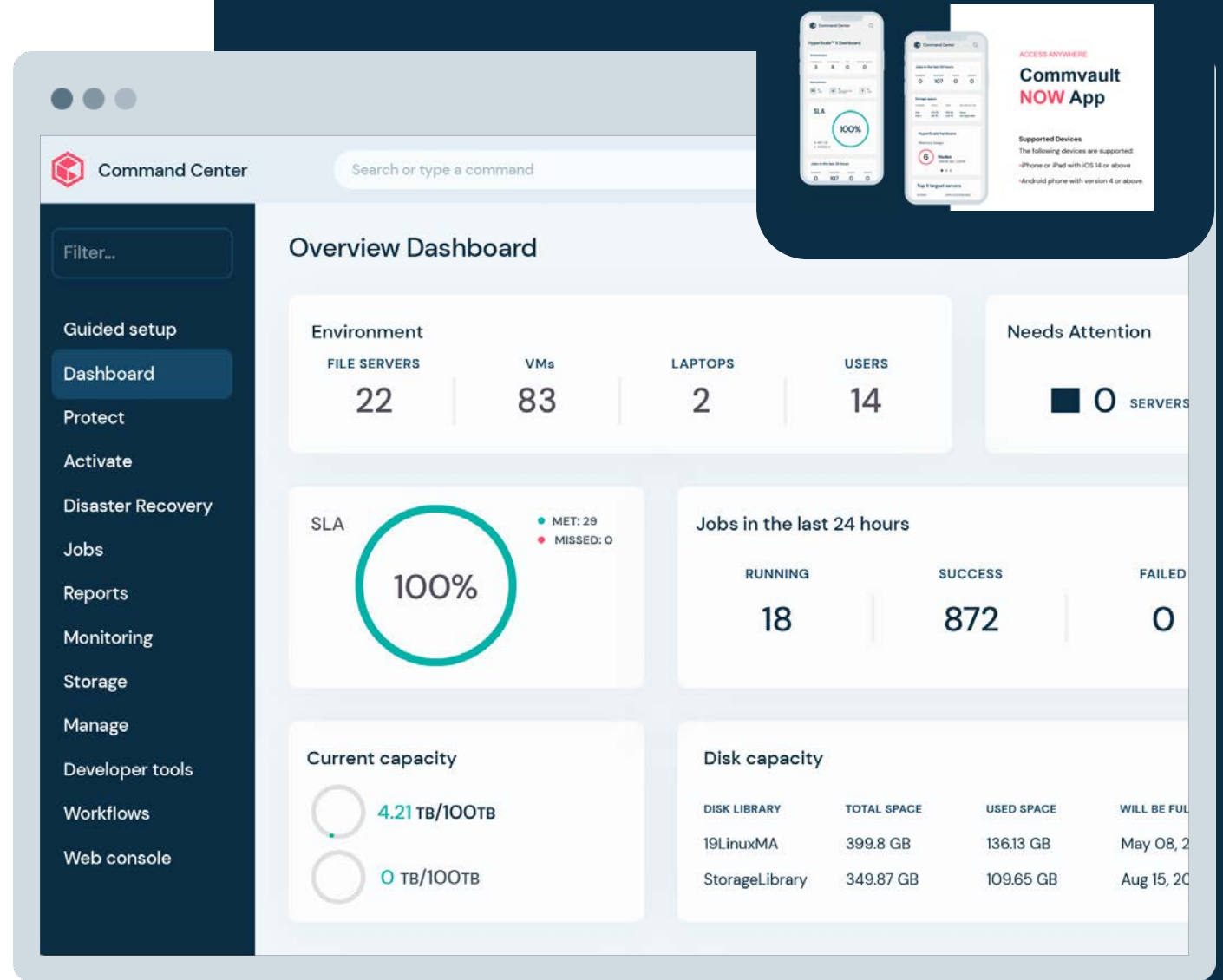
Improves recovery scenarios by reducing post recovery processes and guess work

- Monitoring risk
- Keeping data clean
- Validating recovery
- Restoring data fast



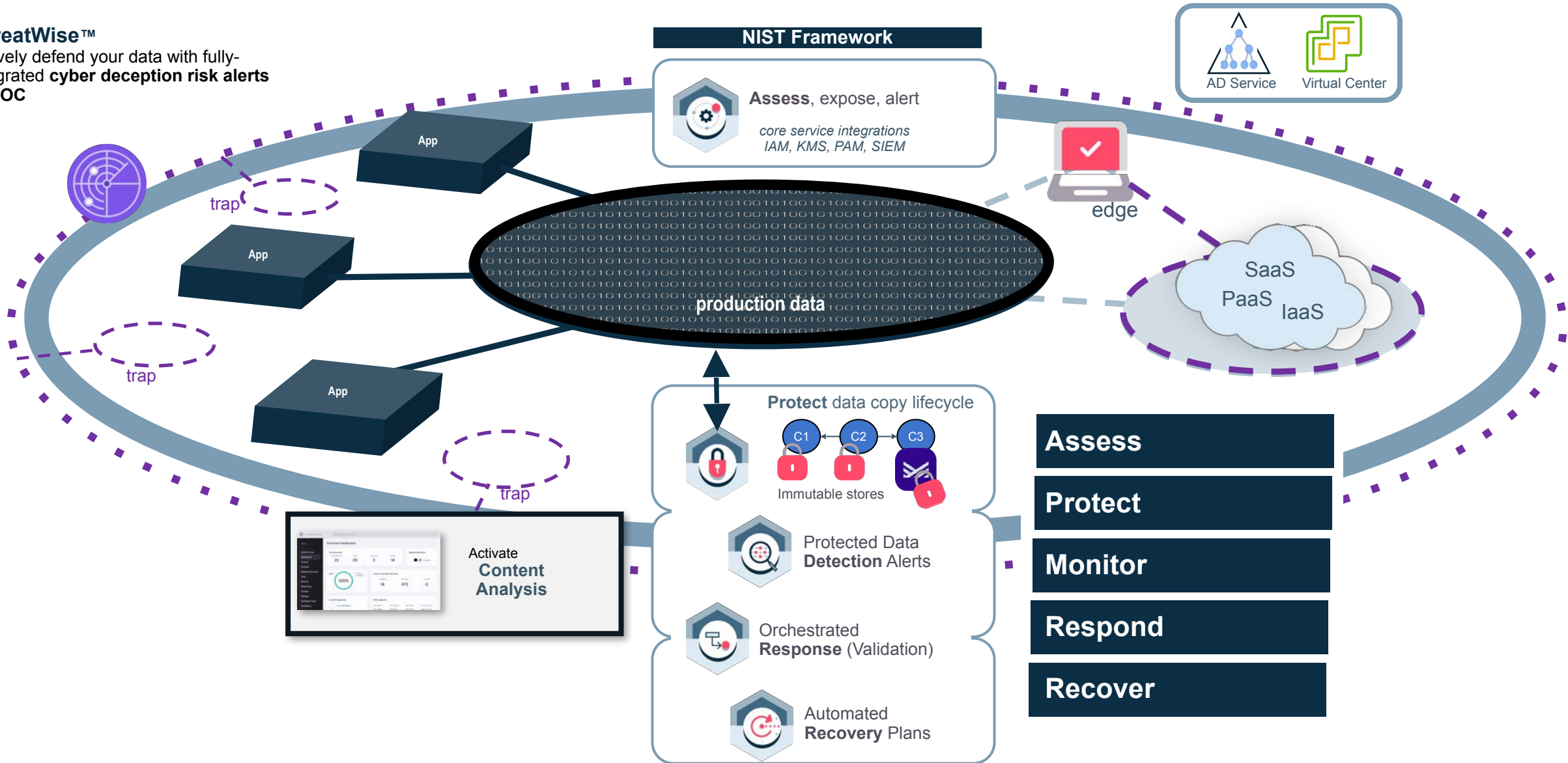
One Experience for Your Entire Data Security Strategy

- **Comprehensive Data Insights:** Commvault reporting provides detailed and comprehensive insights into the organization's data environment, including backup and recovery status, storage utilization, data growth trends, and resource consumption.
- **Customizable Dashboards:** Commvault offers customizable dashboards that allow users to tailor the reporting interface to their specific requirements, providing a clear and concise overview of critical data protection metrics.
- **SLA Compliance Tracking:** Commvault reporting enables users to monitor Service Level Agreement (SLA) compliance, ensuring that backup and recovery operations meet the defined performance and availability targets for critical data.



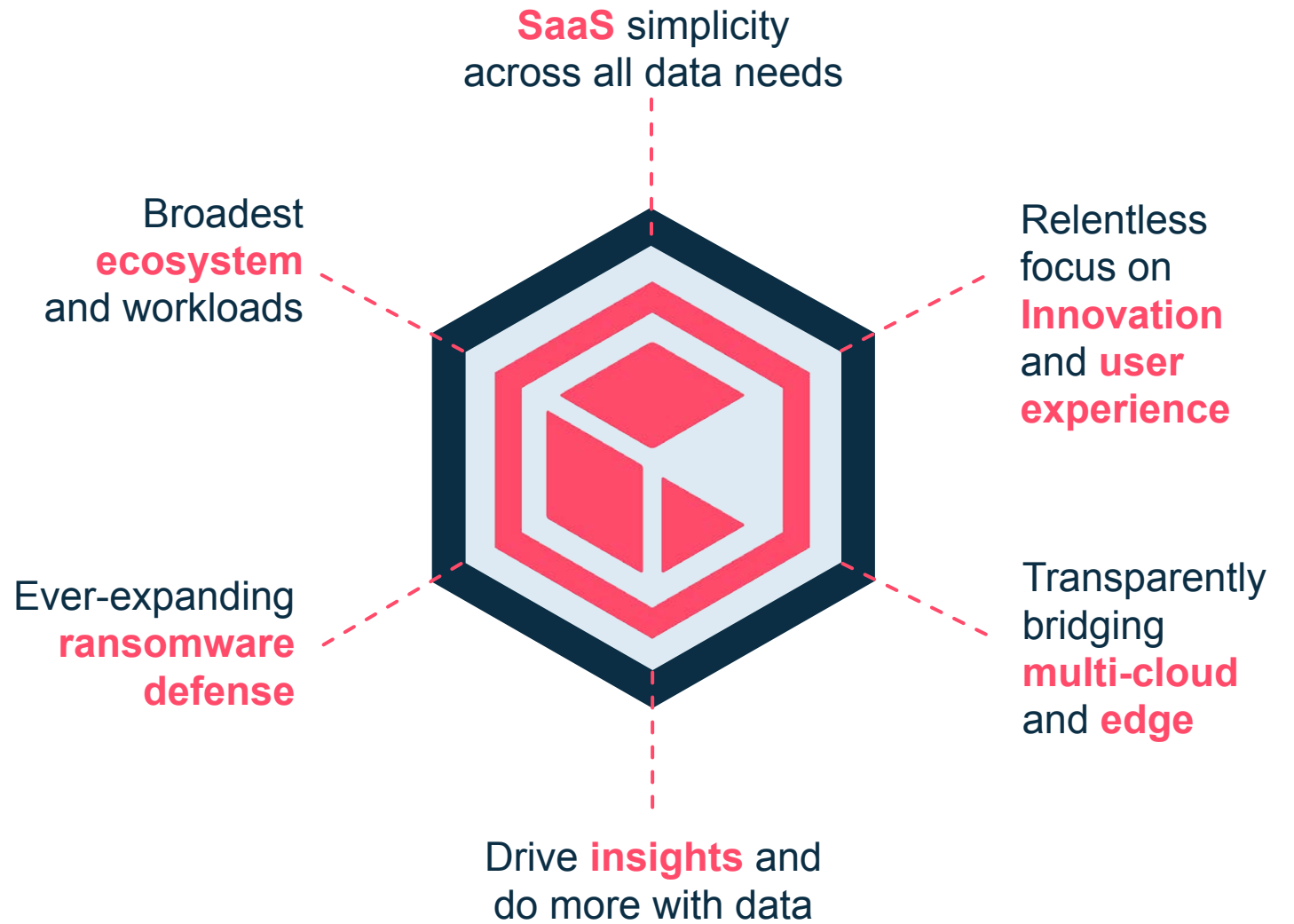
Commvault Cyber Resiliency Framework

ThreatWise™
Actively defend your data with fully-integrated **cyber deception risk alerts** to SOC



Continuous Innovation Roadmap Strategy

SIMPLE AND ELEGANT SOLUTIONS FOR YOUR EXPANDING DATA MANAGEMENT CHALLENGES



Video Demos on YouTube!



1. Commvault: [Threat Scan](#)

- A demonstration of Commvault® Threat Scan, technology that scans backups for malware and other nefarious changes. The session simulates a ransomware attack, shows how to analyze the backup content, and demonstrates a clean recovery of data.

2. Commvault: [Risk Analysis](#)

- This session covers Commvault® Risk Analysis and how it helps in minimizing risk in the environment. The session focuses on locating sensitive data, identifying overexposed data, and controlling data sprawl.

3. Commvault: [ThreatWise](#)

- Ransomware is evolving, targeting critical business data in new ways. As adversaries go beyond encryption, aiming to leak, exfiltrate, and steal your data, early threat detection has never been more important for today's organizations. In this demo, we'll show you how Metallic ThreatWise, integrated cyber deception from Commvault, surfaces potential ransomware threats before they reach your data.





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Thank You