



Securing the Modern Enterprise

Slide Deck

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Securing the Modern Datacenter

Recovery Denial, Not Just Data Theft



The Anatomy of an Attack



Finance & Banking Top 20 Global Bank

2024 · Global Banking Operations Disrupted

Who Was Affected

- Top 20 Global Bank — Operating across 9 core markets in Europe and the Americas through five global businesses
- Annual revenue (2025): \$85 billion
- Asset holdings around \$2.11 trillion as of Dec. 2025



Attack Vector

Third-party contractor laptop compromised — attacker compromised the edge device and gained access the network as the device was connected to the bank over a VPN connection. This connection allowed them to gain an initial foothold and establish persistence.



What Was Targeted

- Active Directory compromised and Domain Admin level control established
- ~1,400 VM and database workloads representing ~1.5PB of data were encrypted in 37 minutes
- Backup infrastructure was compromised and catalogue destroyed



Operational Impact

- Lack of planning and preparation resulted in two days lost while deciding what to recover first
- Complete rebuild of infrastructure required
- 21 days to get minimally viable business (MVB) services back online



Recovery & Cost

- Incident was not disclosed publicly
- Total business and financial impact not reported

01

The Evolving Threat Landscape

How the attack playbook has changed — from ransomware to recovery denial, and how AI is compressing the timelines for everyone.

From "Encrypt & Extort" to Recovery Denial

Mandiant M-Trends 2026: attackers now deliberately destroy your ability to recover, not just encrypt your data.



Backup Infrastructure

- Primary target — not afterthought
- Corrupted or destroyed pre-encryption
- 2-in-3 incidents: backups compromised



Identity Services

- Domain admin access obtained first
- Removes recovery options
- Enables persistence across wipes



Virtualization Planes

- ESXi & AHV targeted directly
- Entire virtual clusters encrypted
- Not just guest OSes — the hypervisor



Edge Device Entry

- VPNs & firewalls: #1 vector (6th year)
- Email phishing dropped to ~6%
- Unpatched edge = open front door



Speed of Escalation

- Hours from entry to backup targeting
- Dwell time compressing — less time to detect
- Recovery infrastructure hit before defenders respond

Claude Mythos: A New Category of Threat

The AI Inflection Point · April 2026

73%

success rate on expert-level cybersecurity tasks — tasks no AI could complete before 2025

1ST

First AI to complete a 32-step full corporate network takeover — autonomously



Superhuman Autonomous Hacking

Finds weaknesses, chains them, and helps generate working exploits with minimal expert guidance — agent-like workflows, not simple Q&A.



Thousands of Zero-Days Discovered

Found thousands of previously unknown high-severity vulnerabilities in major operating systems and browsers — including bugs over two decades old that survived prior automated scanning.



Gated Behind Project Glasswing

Not released publicly. Gated behind Project Glasswing — shared with 40+ vetted critical-infrastructure and security partners to fix vulnerabilities before attackers exploit the same capabilities.



AI-Orchestrated Attacks Are Now Expected

Analysts and governments now expect AI systems to plan and coordinate intrusions — not just assist human operators. Espionage and sabotage campaigns targeting identity and control planes are the anticipated next step.

02

Lessons Learned

What the evidence tells us about where conventional defenses fall short — and why isolation is no longer optional.

Key Lessons Learned from Cyber Attacks

Why Recovery Takes Longer Than It Should



Lack of IR Plan

No playbook forces panicked decisions when stakes are highest.



Recovery Untested

Assumed-clean backups fail on their first real test mid-crisis.



Containment Failures

Unclear perimeter makes it hard to know where to cut access.



Missing Runbooks

Teams rebuild from memory; missing dependencies surface mid-restoration.



Comms Breakdown

No resilient comms plan; poor communication slows response.



Paths Abandoned

Ransom paid while a viable recovery path sits unvalidated.



No IR Partners

No retainers or SLAs; partners are scrambled mid-crisis.



Lack of Clean Infrastructure

Building a recovery target mid-crisis adds days to recovery.



Lapsed Support Agreements

Lapsed contracts mean no vendor priority when it counts.



EOL Infrastructure

Legacy systems need specialists; no vendor recovery path exists.



Planning gaps hit first and hardest

No IR plan and untested recovery dominate time-to-containment.



Operational gaps compound the timeline

Abandoned paths and siloed comms add weeks even with good backups.



Infrastructure gaps can't be solved mid-incident

Clean environments, contracts and partners must exist before the attack.

The Five Ingredients for Recovery

Recovery has no EASY BUTTON. Every organization that has survived a major cyber attack has navigated these five steps — in sequence, under pressure. There are no shortcuts.

01



Prioritize Critical Services

Minimum
Viable Company

Map your most critical business services to their applications, infrastructure dependencies, and client access paths. You cannot recover everything at once.

02



Viable Recovery Source

Confirm a
Clean Copy Exists

Identify at least one recovery source confirmed to be free from compromise. More sources give options — but each must be validated before use.

03



Viable Recovery Target

Build a Safe
Target Environment

Provision clean infrastructure to restore into. This step demands multiple teams working in parallel — network, identity, compute, and storage.

04



Verify Clean Recovery

Confirm No Residual
Threat

Validate recovered items are free from compromise, attack replay, or mechanisms of persistence.

05



Return To Service

Reconnect Users to
Services

Business recovery is not achieved until services are live and connected to their users. Functional testing and staged re-entry complete the cycle.

These five steps cannot be skipped or reordered. Every day of delay in completing them is another day your business is not operating at full capacity.

03

Building Resilience

Practical steps, a layered technical framework, and a maturity journey — grounded in how leading organizations are responding.

Dell Technologies Cyber Resilience

Through the lens of the threat funnel



Secure

Reduce the Attack Surface:

Minimize the vulnerabilities and entry points that can be exploited to compromise the environment.



Detect

Detect and Respond to Threats:

Actively identify and address potential security incidents and malicious activities.



Recover

Recover from Cyberattacks:

Restore the organization as quickly as possible while minimizing disruption.

Secure

Reduce the Attack Surface

Minimize the vulnerabilities and entry points that can be exploited to compromise the environment



SECURE SUPPLY CHAIN



ZERO TRUST MATURITY



IMMUTABILITY



OBSERVABILITY



“The right technology is critical because our reputation is on the line. Customer data is our key asset. The Dell PowerProtect portfolio ensures it’s protected.”

— RHB Banking Group



Detect

Detect and Respond to Threats

Actively identify and address potential security incidents and malicious activities

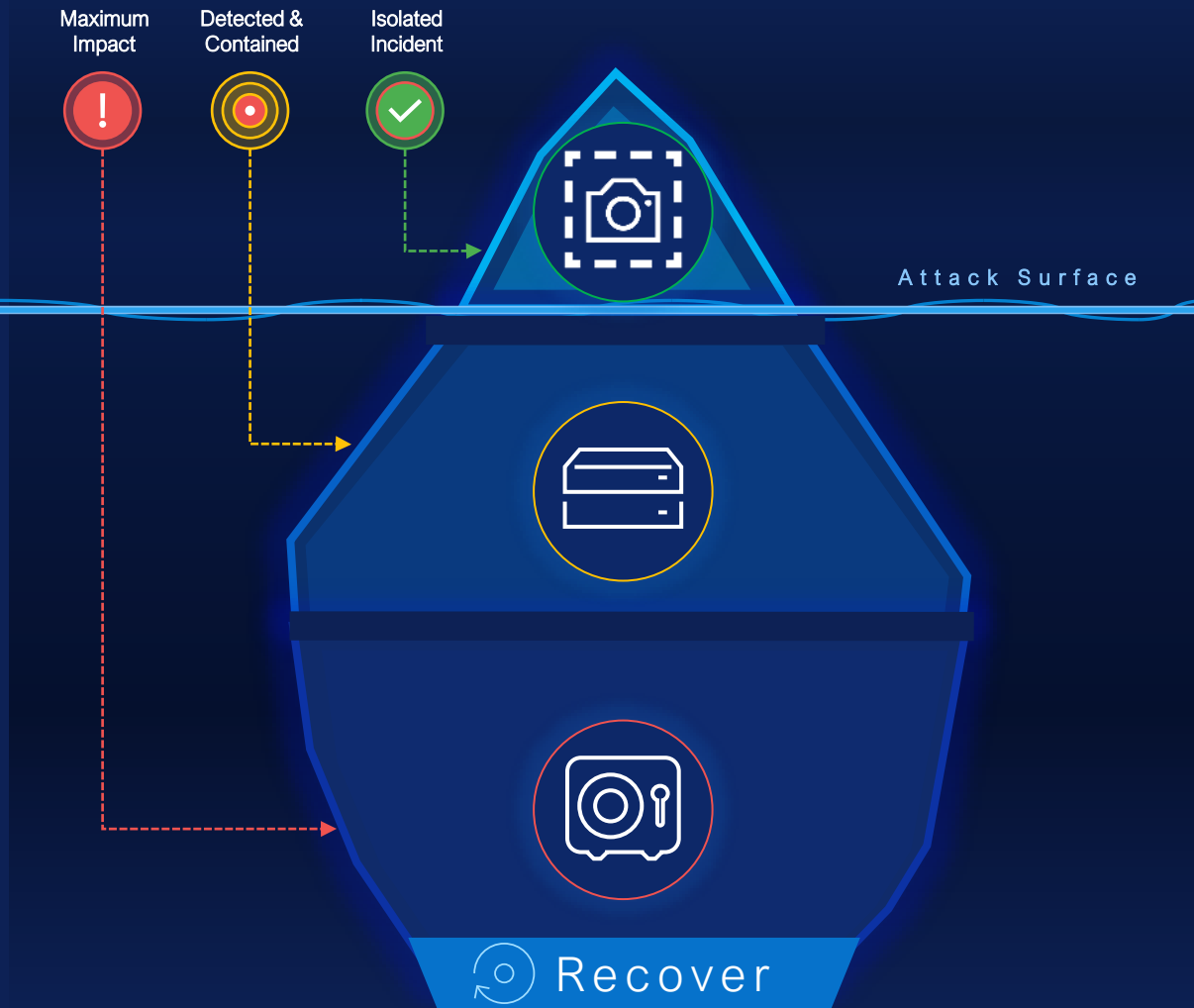


We knew we needed to improve our security posture. Dell Managed Detection and Response gets the job done without additional headcount.

— Director of Information Systems, Large Southwestern U.S. County

Recover – A Layered Approach to Cyber Resilience

A layered recovery strategy gives you flexible options to balance recovery speed and assurance, so you can reliably restore from cyber attacks of any scale.



Layer 1 – Primary Storage Layer Secure Snapshots

Restore
Speed
Fast

Recovery
Confidence
Lower

- On-array, immutable snapshots
- Fastest path back to production
- Validate snapshot integrity before restore



Layer 2 – Backup Resilience Layer Protected Backups

Restore
Speed
Moderate

Recovery
Confidence
Medium

- Immutable, encrypted backups off primary array
- Hardened platform: access controls, MFA, threat monitoring
- Post-containment restores with higher confidence



Layer 3 – Cyber Vault Layer Isolated Recovery Area

Restore
Speed
Deliberate

Recovery
Confidence
Highest

- Isolated network, identity and operations
- Cyber analytics pre-validated recovery points
- Fast, highest-assurance recovery for worst-case attacks

Why Dell Technologies for Your Cyber Resilience Journey



Comprehensive Cyber Resilience

Beyond point backup — complete coverage across supply chain, endpoints, core, edge, cloud, mainframe, and OT/ICS.



Proven Experience & Outcomes

Thousands of cyber recovery engagements. Dedicated teams. NIST, ISO, and sector-aligned reference architectures.



A Trusted Resilience Partner

We deliver outcomes, not just products. Strategy workshops, runbook design, recovery testing, managed services and ongoing governance.



Flexible Consumption

Own it, subscribe, or let us run it. Dell Managed Services operates your entire resilience program as a service.



Supply Chain Confidence

When recovery speed matters, Dell delivers. Hardware in days, not months — when the industry faces backlogs, we ship.

Dell PowerProtect Updates

Introducing...

PowerProtect One

Delivers both open ecosystem support and integrated management

**Protect every workload, across vendors,
under one resilience framework**



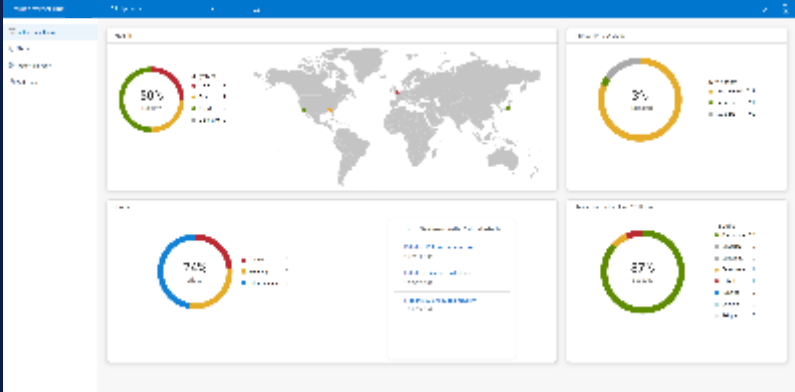
PowerProtect One

Complete cyber resilience

**Orchestrate protection and
recovery** across your
environment



**Secure, efficient, high-performance
storage** that stands between your data
and cyber threats



PowerProtect One

Open and Integrated architecture

Unified experience

Single management console and orchestrated operations for the entire protection stack

Modern protection

Intelligent protection for modern workloads on optimized hardware

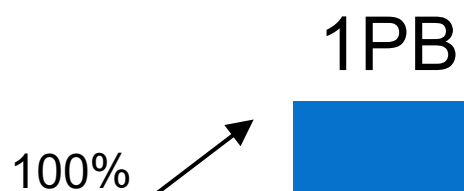
Resilient storage

Highly efficient, secure storage, scalable up to 256TB today, support for all DD models this year

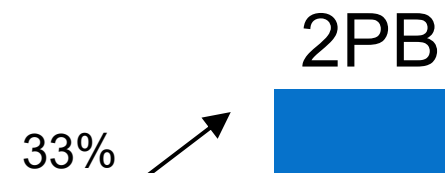
One solution to
deploy, operate,
upgrade and
support

COMMAVULT  VEEAM  HYCU 

PowerProtect DD: Improved Enterprise Scalability



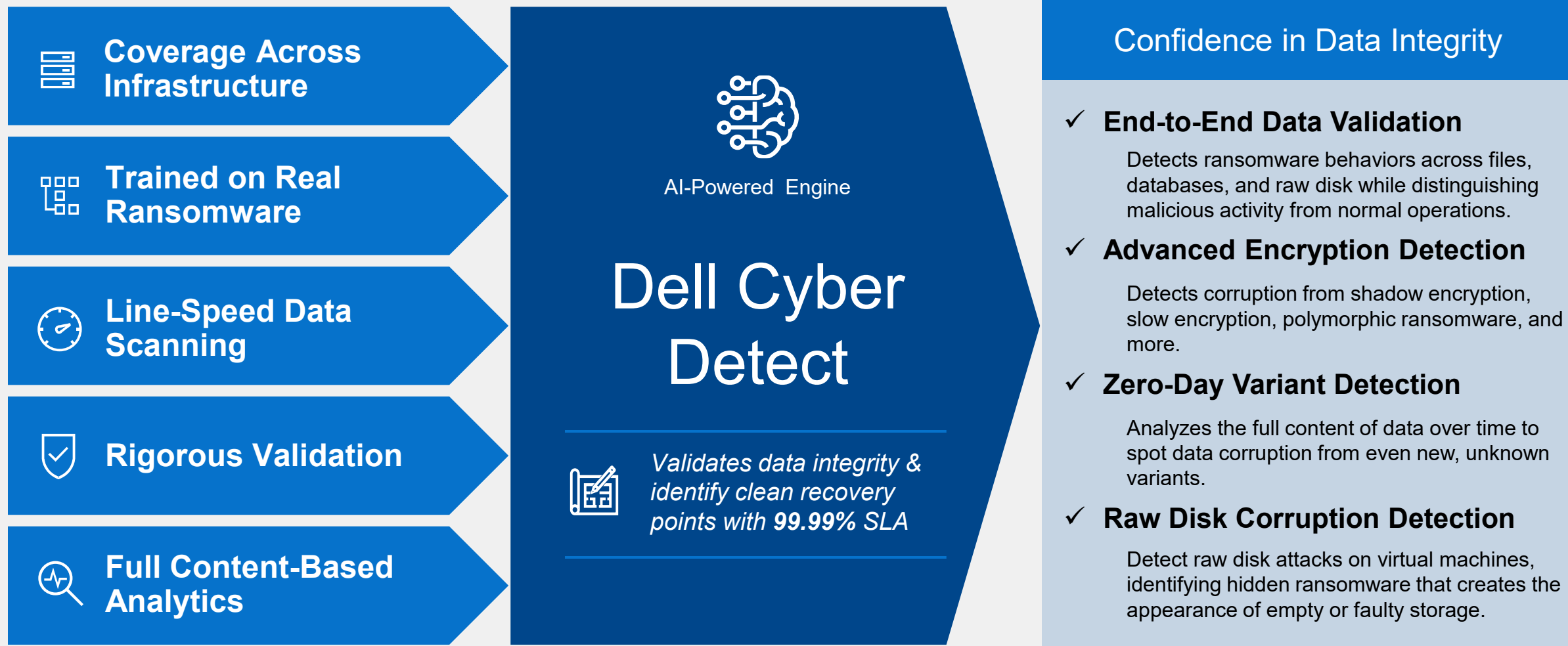
DD9910F
(All-Flash)



DD9910

AI-Powered Threat Detection

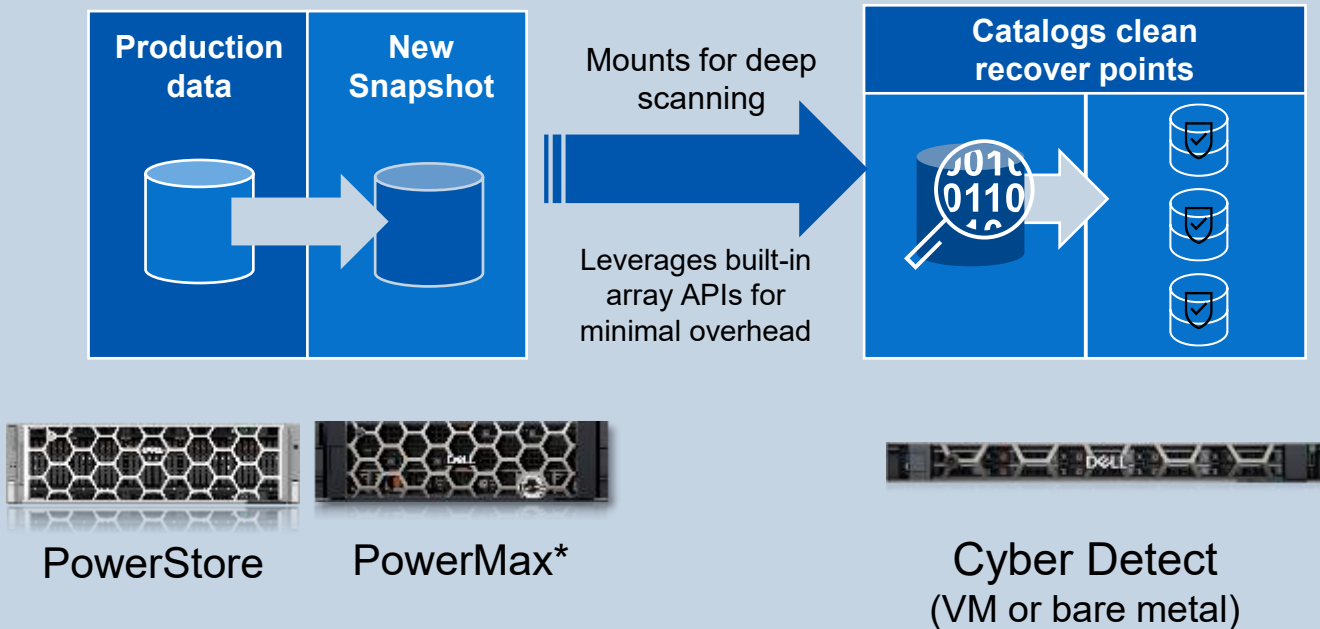
Continuously trained AI engine identifies corruption patterns with unmatched accuracy



Dell Cyber Detect for Storage

Recover mission-critical data faster from clean snapshots directly on Dell Storage appliances

Create and identify clean snapshots
directly on the array



Create a schedule for regular restore checkpoints

Supports a broad range of mission-critical applications

- Oracle, SAP, SQL, and more...

Make informed recovery decisions to eliminate reinfection and minimize downtime and data loss

Deep forensics provides type of attack, blast radius, affected files, and more

Ready to integrate with SIEM/SOAR systems



DELLTechnologies

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