DELL Technologies

Solution Brief

Dell PowerProtect Cyber Recovery

Modern and Resilient Protection for Critical Data from Ransomware and Destructive Cyberattacks.

WHY CYBER RECOVERY?

Cyberattacks are designed to compromise your valuable data – including your backups. Protecting your critical data and recovering it with assured integrity is key to resuming normal business operations post-attack.

Here are components of a cyber resilient solution:

Data Immutability
Create unchangeable data copies to preserve data integrity and confidentiality with layers of security and controls.

Air Gap Data Isolation
Automatically secure unchangeable backup data by isolating it to a protected vault with elevated restricted access.

Intelligent Analytics
Automated integrity checks using AI-based Machine learning and full-content indexing with powerful analytics within the safety of the vault to determine whether data has been impacted by malware.

Recovery and Remediation
Workflows and tools to perform recovery after an incident using dynamic restore processes and your existing DR procedures.

Solution Planning and Design
Expert guidance to select critical data sets, applications and other vital assets to determine RTOs and RPOs and streamline recovery.

The Challenge: Cyberattacks are the enemy of data-driven businesses.

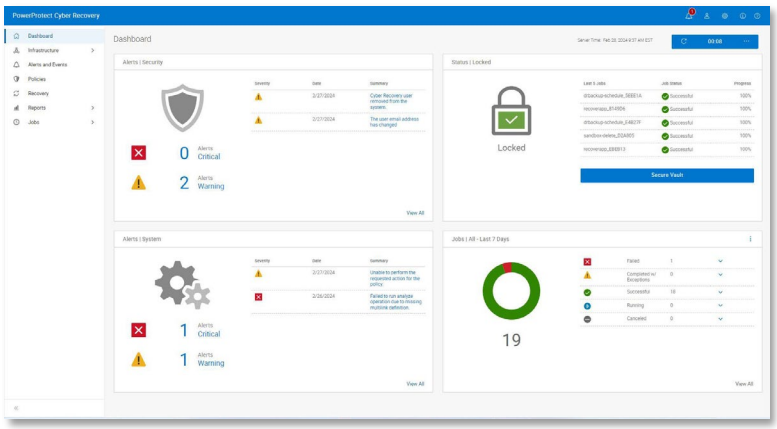
In today's digital economy, data isn't just an asset—it's the lifeblood of innovation and growth. But with great value comes great risk. As the global marketplace thrives on the seamless flow of information across interconnected networks, the stakes have never been higher. The rise of digital transformation and generative AI has unlocked incredible opportunities, but it has also amplified the exposure of sensitive data to unprecedented threats.

Cybercriminals are more motivated than ever, viewing your organization's data as a high-value prize. No industry or organization—big or small—is immune. The consequences of a cyberattack are devastating: compromised data, crippling downtime, shattered reputations, and the heavy burden of regulatory fines. Protecting your data isn't just a priority—it's a necessity for survival in the modern digital landscape.

Cyber resilience challenges are intensifying as cyberattacks and data protection gaps drive increased risks of disruption. Based on our recent Cyber Resilience Insights report, organizations with mature resilience strategies are nearly **3x** more likely to recover successfully[1]. By modernizing resilience strategies, enhancing detection capabilities, and prioritizing continuous optimization, IT leaders can minimize risks and strengthen confidence in their ability to adapt to evolving threats.

The Solution: Dell PowerProtect Cyber Recovery

To reduce business risk from cyberattacks and build greater cyber resilience, you can modernize and automate your recovery and business continuity strategies. Leveraging the latest intelligent tools will also help to detect and defend against cyber threats, creating a stronger foundation for your organization to move forward.



PowerProtect Cyber Recovery provides proven, modern, resilient and intelligent protection to isolate critical data, identify suspicious activity and accelerate data recovery allowing you to facilitate a smarter recovery of your critical data to quickly resume normal business operations.

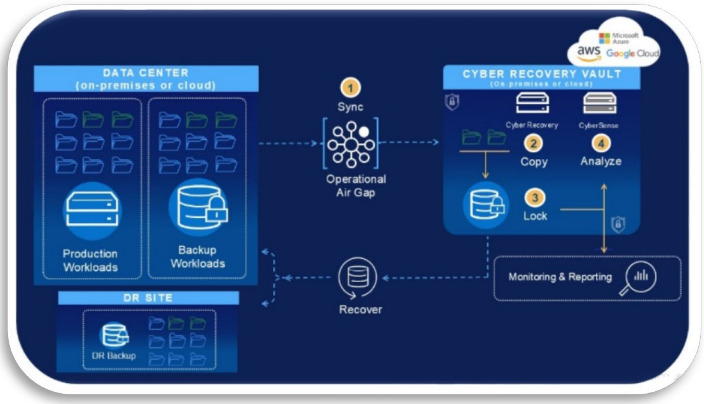
PowerProtect Cyber Recovery – Immutability, Isolation, and Intelligence

Immutability - PowerProtect Data Domain

PowerProtect Data Domain is the foundation of Dell PowerProtect Cyber Recovery. With multiple layers of Zero Trust security, it provides immutable backup copies to ensure data integrity and confidentiality. Features such as hardware root of trust, secure boot, encryption, retention lock, role-based access, and multi-factor authentication help ensure the recoverability of your data.

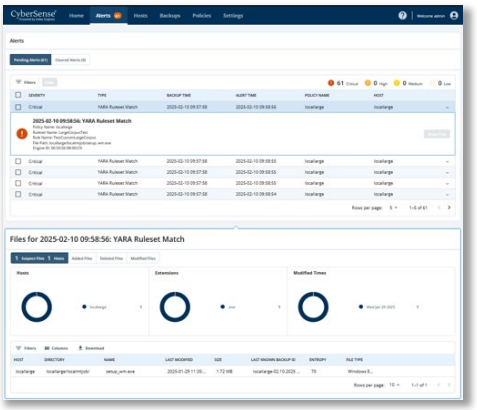
Air Gap Isolation - Cyber Recovery vault

The PowerProtect Cyber Recovery vault is an isolated environment delivering multiple layers of protection to provide resilience against cyberattacks - even from an insider. Its operational air gap automatically moves secure copies (Sync) of critical backup data (including open systems and mainframe) to an isolated vault, away from the attack surface of production, never exposing the management path to a threat actor. Next, an immutable copy is automatically created to keep the data from being modified. With dedicated management, network, and services independent of the production environment, separate security credentials and multi-factor authentication are required for access the data for recovery and testing operations.



Intelligence - CyberSense®

PowerProtect Cyber Recovery is the first solution to fully integrate CyberSense® for smarter recoveries against cyber threats - all within the security of the cyber recovery vault. CyberSense goes beyond metadata-only solutions, with full-content analytics, it detects data corruption after an attack with **99.99%** accuracy[2] and facilitates intelligent and rapid restoration. CyberSense leverages immutable data backups to observe how data changes over time and utilizes AI-based machine learning to detect signs of corruption indicative of a ransomware attack. CyberSense detects mass deletions, full and partial encryption, and other suspicious changes in core infrastructure (including Active Directory, DNS, etc.), user files, and databases resulting from sophisticated attacks. Custom threshold alerts can be created and if signs of corruption are detected, the alerts dashboard and post-attack forensic reports facilitate swift diagnosis of the scale and impact of the attack including the identification of a clean copy of data to recover your critical systems. Custom YARA rules and malware signature search help customize and empower organizations to proactively defend against cyber threats.



PowerProtect Cyber Recovery – Deployment Options

Cyber Recovery in Hybrid and Multi-cloud environments

Critical data can exist in many different locations across a business, whether on-premises, collocated at different datacenters or globally in multiple clouds and regions. Regardless of the location, the data needs to be secure and not comprised when recovery from cyberattacks is needed.

PowerProtect Cyber Recovery is available and transactable through public cloud marketplaces for ***AWS***, ***Microsoft Azure***, and ***Google Cloud*** to provide fast access to protect data in a cyber recovery vault in the cloud. PowerProtect Cyber Recovery automates the synchronization of critical data between production systems and the cyber recovery vault in the public cloud. Unlike standard cloud-based backup solutions, access to management interfaces is locked down by networking controls and require separate security credentials and multi-factor authentication for access. Scattering and duplicating data across multiple clouds can lead to security and compliance risks, potential synchronization issues, and increased resource costs. This approach can also reduce visibility across your various environments, leading to insufficient protection from constantly evolving cyber threats.

Dell PowerProtect Data Domain All-Flash Appliance

While critical data continues to grow, the ability to recover from a cyber event swiftly and efficiently is paramount for ensuring business continuity and cyber resilience. Organizations that are expanding the management of critical data must excel in retrieving their data from isolated recovery environments, such as the Cyber Recovery vault. Dell PowerProtect Data Domain All-Flash Appliance offers a streamlined, energy- efficient, and cost-effective cyber recovery solution that features enhanced CyberSense analytics and rapid restoration capabilities to meet organization SLAs. By utilizing **40%** less rack space[3], up to **2.8x** faster analytics[4] with CyberSense and up to **4x** faster restores[5], organizations can enhance data access speeds ultimately leading to reduced downtime and overall maintenance cost.

PowerProtect Cyber Recovery – Getting Back to Business

Recovery and Remediation

PowerProtect Cyber Recovery provides automated restore and recovery procedures to bring business critical systems back online quickly and with confidence. Recovery is integrated with your incident response process. After an event occurs, the incident response team analyzes the production environment to determine the root cause of the event. CyberSense provides post-attack forensic reports to understand the depth and breadth of the attack and provides a listing of the last good backup sets before corruption. Then, when the production is ready for recovery Cyber Recovery provides management tools and the technology that performs the actual data recovery.

Solution Planning and Design

Dell Professional Services for Cyber Recovery help you determine which business critical systems to protect and can create dependency maps for associated applications and services, as well as the infrastructure needed to recover them. The service also generates recovery requirements and design alternatives, and it identifies the technologies to analyze, host and protect your data, along with a business case and implementation timeline.

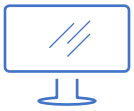
Conclusion

Industry initiatives such as Sheltered Harbor, have been utilizing PowerProtect Cyber Recovery to protect customers, financial institutions, and public confidence in the U.S. financial system in the event of a cyberattack that causes critical systems to fail – including backups. With thousands of customers, Cyber Recovery with CyberSense gives confidence to business leaders and has proved to accelerate the recovery of data in the event of a cyber threat.

PowerProtect Cyber Recovery can give you confidence that you can quickly identify and restore known good data and resume normal business operations after a cyberattack.

It's time to get back to business.

[1] Based on research by Vanson Bourne commissioned by Dell Technologies, "Cyber Resilience Insights Research". 2025.
[2] Based on an ESG report commissioned by Index Engines, "Index Engines' CyberSense Validated 99.99% Effective in Detecting Ransomware Corruption". June 2024
[3] Based on Dell internal testing comparing a PowerProtect Data Domain DD9910 appliance vs a PowerProtect Data Domain All-Flash DD9910F appliance, both configured at similar capacity. April 2025
[4] Based on Dell Technologies internal testing of CyberSense analytics performance to validate data integrity in a PowerProtect Cyber Recovery vault comparing PowerProtect DD9910 appliance vs PowerProtect DD9910F appliance at similar capacity. Actual results may vary, April 2025.
[5] Based on Dell internal testing comparing a PowerProtect Data Domain DD9910 appliance vs a PowerProtect Data Domain All-Flash DD9910F appliance, both configured at similar capacity. April 2025. Actual results may vary.



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