

SOLUTION BRIEF

Owl Data Diodes for Dell PowerProtect Cyber Recovery

Hardware-enforced, one-way transfer for Cyber Recovery vault visibility

THE SOLUTION

Protecting your vital data from cyber attacks requires proven and modern solutions. PowerProtect Cyber Recovery and Owl Data Diodes can give you confidence that you can quickly identify and restore known-good data and resume normal business operations after a cyber attack.

CYBER RECOVERY KEY FEATURES:

- Automated operational air gap for network isolation
- Synchronization of data between production systems and the vault to create immutable copies with locked retention policies
- Full-content indexing and machine learning to detect signs of corruption
- Automated integrity checks
- Automated restore and recovery procedures

OWL DATA DIODE KEY FEATURES:

- Physical separation
- Secure, one-way transfers
- Dual administration
- Multi-protocol support
- Role-based access control
- Separate administrative and data interfaces
- Hardened Linux operating systems

The Challenge: Visibility into An Air-Gapped Vault

A key challenge of operating an air-gapped data vault is the lack of operational visibility to the systems inside the vault. The lack of connectivity means that data from conventional system monitoring and threat detection cannot be integrated into routine data center operations. The solution is a secure, one-way transfer of critical vault data to any destination, without introducing new threat vectors. The combination of Dell EMC PowerProtect Cyber Recovery and Owl Data Diodes achieve both vault protection and visibility, without direct access to the vault.

The Solution: Dell EMC PowerProtect Cyber Recovery Paired with Owl Data Diodes

Together Dell EMC PowerProtect Cyber Recovery and Owl Data Diodes provide air-gapped protection for vaults, while delivering malware detection reports and system health information to the people who need it. By creating an air gap and gaining visibility to critical data from the vault, conventional system monitoring and threat detection data can both be transferred for routine data center operations.

Dell EMC PowerProtect Cyber Recovery

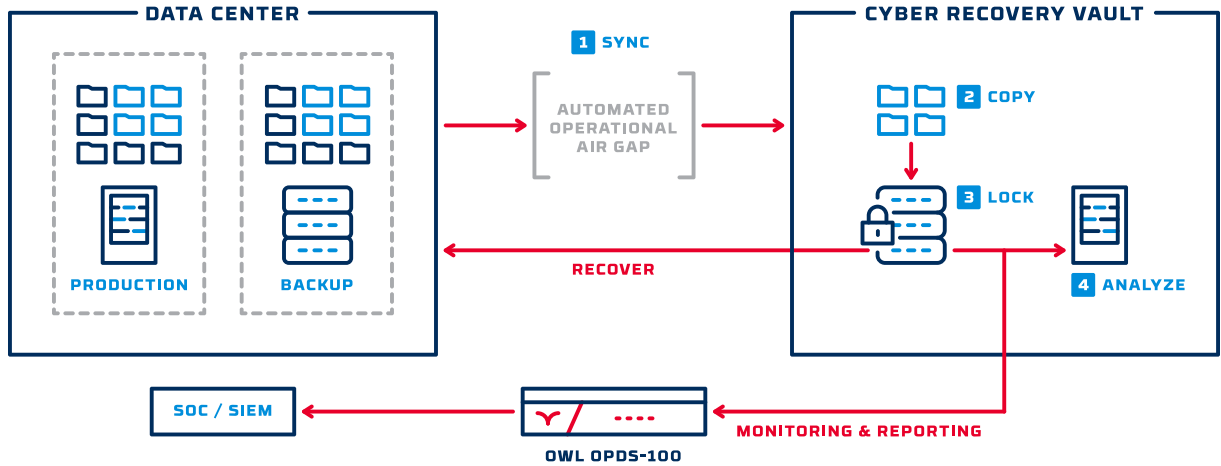
Dell EMC PowerProtect Cyber Recovery provides proven, modern and intelligent protection to isolate critical data, identify suspicious activity and accelerate data recovery, allowing you to quickly resume normal business operations. The Cyber Recovery vault offers multiple layers of protection to provide resilience against cyber attacks, including insider threats. Protecting critical data and recovering it with assured integrity is key to resuming normal business operations post-attack. Five key components of a proven and modern cyber recovery solution, such as Dell EMC's PowerProtect Cyber Recovery, are data isolation and governance, automated data copy and an air gap, intelligent analytics and tools, recovery and remediation, and planning and design. While Cyber Recovery establishes an air gap for the vault, Owl Data Diodes provide visibility to critical data from the vault.

Owl Data Diodes

Owl's one-way transfer data diodes combined with Cyber Recovery provides a secure and reliable solution for isolating critical data from ransomware and destructive attacks. Owl data diodes provide hardware-enforced, one-way transfers of malware detection reports and system health information. Owl maintains the air gap that is established by the Cyber Recovery vault to prevent any possibility of unauthorized access to the vault – even insiders cannot access the vault from the production environment. Data integrity reports can flow out of the Cyber Recovery vault network in real time to allow timely action in the production environment, so the right people know immediately if threats are detected. System health information can also be sent in real time and allow log files and SNMP data to reach SIEM systems without delay. Owl Data Diodes are the perfect pair to Cyber Recovery to protect air-gapped vaults.

The Combined Solution

Protecting your vital data from cyber attacks requires proven and modern solutions. Cyber Recovery can give you confidence that you can quickly identify and restore known good data and resume normal business operations after a cyber attack. The addition of Owl Data Diodes provide confidence that data from the Cyber Recovery vault can be securely transferred one-way to data centers for business operations, without a way for threats to get back into the vault.



Simple Deployment

Owl's Data Diode solution for vault visibility is a 1U rack-mount appliance (OPDS-100) that is configured for the desired protocols. Once both sides of the device are configured and placed in operational mode, data is permitted to flow from whitelisted sources and protocols inside the vault to the specified destinations in the production environment or NOC/SOC – without the risk of commands, files or data streams ever entering the vault.

Summary

Dell EMC PowerProtect Cyber Recovery combined with Owl Data Diodes allows safe, real-time transmission of malware analysis reports and system health information from the isolated vault, so you can proactively respond to potential attacks and recover quickly to avoid business interruption and the significant expense it can cause.

OWL Cyber Defense

Owl Cyber Defense Solutions, LLC leads the world in data diode and cross domain network cybersecurity. With a constant focus on customers in the military, government, critical infrastructure, and commercial communities, Owl develops market-first, one-way data transfer products to meet a variety of operational needs, from entry level to enterprise.

For more information on Owl, or to schedule a demo, visit www.owlcyberdefense.com



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