Recovering Your Organization After a Ransomware Attack
Cyber Threats are Becoming Increasingly Frequent and Sophisticated

EVERY 11 SECONDS
A CYBER OR RANSOMWARE ATTACK OCCURS\(^1\)

ORGANIZATIONS ARE CONCERNED THAT THEIR EXISTING DATA PROTECTION SOLUTIONS AREN’T SUFFICIENT

“67% of Global IT decision makers are not very confident that all business critical data can be recovered in the event of a destructive cyber attack.”\(^3\)


\(^3\)Based on research by Vanson Bourne commissioned by Dell Technologies. “Global Data Protection Index 2021 Snapshot,” carried out February – March, 2021. Results were derived from a total of 1,000 IT decision makers worldwide from both private and public organizations with 250+ employees.
Cyber Resiliency is a strategy.

Cyber Recovery is a solution.
Cyber Recovery is a Key Enabler of Cyber Resiliency

Focus on increasing confidence in the ability to recover from a cyber attack through key technologies and processes.

- **Air Gapping, Immutability, and Automation**
- **AI / ML Based Security Analytics Tools**
- **Runbooks and Recovery Process**
- **Business Recovery at Speed and Scale**
- **Cross Functional Enablement**
PowerProtect Cyber Recovery Advantages

**Isolation**
Physical and Logical Separation of Data
The PowerProtect Cyber Recovery Vault is protected with operational air gap either on-premises or in cloud and multi-cloud offers.

**Immutability**
Preserve Original Integrity of Data
Multiple layers of security and controls protect against destruction, deletion and alteration of vaulted data.

**Intelligence**
ML and Analytics Identify Threats
CyberSense enables confident recovery of good data and offers insight into attack vectors from within the Cyber Recovery vault.
PowerProtect Cyber Recovery

Data Vaulting Processes

1. Sync
2. Copy
3. Lock
4. Analyze

Cyber Recovery Vault

1. Sync
2. Copy
3. Lock
4. Analyze

Monitoring & Reporting

Data Center

Production

Backup

Automated Operational Air Gap

Recover
CyberSense Machine Learning Enables Early Detection and Rapid Recovery

- **SECURITY ANALYTICS**: 200+ statistics indicative of cyber attack
- **CORRUPTION DETECTED**: Alert when suspicious activity is detected
- **COMPREHENSIVE INDEX**: Changes in content over time
- **MACHINE LEARNING**: Trained on all common trojans and attack vectors
- **POST ATTACK REPORTS**: Detailed reports, including last good backups for rapid recovery
Flexible Recovery Options

ROLL OVER NUMBER IN CIRCLE FOR DETAILS

Data Center
- Production
- Backup

Cyber Recovery Vault
- Automated Recover
- Reverse Replicate
- Instant Access
- Backup Servers

Clean Room
- Clean Room Recovery
Founders Federal Credit Union

Data Integrity Drives Business Transformation

**CHALLENGES**
- Expand business in highly competitive regional banking market
- Offering customers fast, reliable and innovative services on any device
- Making data protection and data integrity a cornerstone of Founder’s customer promise

**POWERPROTECT CYBER RECOVERY**
- Protects critical data that is fueling both technological and business transformation
- Provides confidence to IT leaders that critical data is protected from ransomware and cyber attacks
- Reassures Business leaders and customers that Personally Identifiable Information (PII) and other data is protected from cyber attack

**RESULTS**
- “Impeccable data quality” has increased competitive advantage
- IT staff roles transformed from administrators to data technologists
- CIO measures value of IT by its contribution to transformation efforts
Moreno Valley Unified School District

School District Gears Up Against Cyber Threats

<table>
<thead>
<tr>
<th>CHALLENGES</th>
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<tbody>
<tr>
<td>Neighboring school districts were hit with cyber attacks</td>
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<tr>
<td>Student, employee and financial data needed to be kept safe and secure</td>
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<td>Virtual classes introduced multiple connectivity and device challenges</td>
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<th>POWERPROTECT CYBER RECOVERY</th>
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<tr>
<td>Reassures Administration and staff that PII and other data is protected from cyber attack</td>
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<tr>
<td>CyberSense for active cyber threat analysis / alerts</td>
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<td>Isolated vaulting capability, provides an extra layer of security and isolation</td>
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<td>Air-gapped vault with CyberSense analytics means peace of mind that PII data is recoverable in event of a cyber attack</td>
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<tr>
<td>Increased efficiency and reduced costs with 100x average daily compression rate</td>
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<td>Proactive, automated monitoring and reporting</td>
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State of Oklahoma

Transforming State Government IT

CHALLENGES
- State services can’t afford to be down, so they needed a reliable solution that ensured data availability
- Safeguard critical data against threats such as ransomware or cyberattacks
- Previous solution for restoring data was very manually intensive and didn’t provide the confidence they needed

POWERPROTECT CYBER RECOVERY
- Peace of mind that they’re able to recover from attacks
- Withstand global cyber attacks such as DDoS and defacement
- Isolated Cyber Recovery Vault provides an extra layer of security for critical governmental data

RESULTS
- Withstood 3.8 trillion cyber attacks with Dell data protection
- Ability to recognize a disaster and within hours be up and functional and running
- Modernized disaster recovery by moving 2.6PB of data and 10,000+ databases to a remote data center
PowerProtect Cyber Recovery — Flexible Deployment Options

On-premises

Colocation

Public Cloud

- Learn More
- Learn More
- Learn More
Get Started Today

Assess
Assess your current cyber resiliency to determine your readiness and program maturity

Explore
Explore the breadth of advanced solutions, services and intrinsic security innovations from Dell Technologies

Plan
Work with Dell trusted security experts to build your strategy for enhancing cyber resiliency

Accelerate
Modernize your security posture to help build your breakthrough with confidence

- Take Cyber Resiliency Assessment
- Explore Security Solutions
- Learn About Consulting Services
- Discover Dell Technologies Services
Cyber Recovery Services Capabilities

Services Across the Customer Journey Map Increase Program Maturity

- **Advisory & Design**: Create consensus and speed design
- **Deploy & Implement**: Basic deployment through highly custom
- **Test & Recover**: Runbook development, testing & validation
- **Operate & Manage**: Operate and manage the solution
Why PowerProtect Cyber Recovery

1. Physical and logical Isolation plus an operational air gap protect data vault from unauthorized access

2. Immutability and multi-layered security design protects against a full spectrum of threats, including insiders

3. Modern ransomware and cyber protection for Cloud, Multi-Cloud and on-premises data

4. Intelligent analytics and ML help to enable confident recovery with data integrity

5. First Sheltered Harbor endorsed turnkey data vaulting solution

6. Proven cyber recovery solution with 6 years in the market, hundreds of customers

Learn more at DellTechnologies.com/CyberRecovery