

DELL EMC CYBER RECOVERY

DATA PROTECTION AND RECOVERY
WHEN YOU NEED IT MOST.

GET STARTED



DELL EMC CYBER RECOVERY

DATA PROTECTION AND RECOVERY
WHEN YOU NEED IT MOST.

BACK



INDUSTRY SNAPSHOT



COMMON VULNERABILITIES



THE SOLUTION



ADDITIONAL RESOURCES

CLICK A BOX TO NAVIGATE

DELLEMC



INDUSTRY SNAPSHOT

39%

of detected
malware is
ransomware*

92%

of organizations
can't detect
cyberattacks quickly†

67%

of organizations
had incidents with a
negative impact in
past 12 months‡

Sources

*2018 Verizon Data Breach

†Gartner Research, Shift in Cybersecurity
Investment to Detection, January 2016

‡RSA Cybersecurity Poverty Index





INDUSTRY SNAPSHOT

TRUE COST OF RANSOMWARE

Ransom: \$30,000

Lost Revenue: \$2,500,000
Incident Response: \$75,000
Legal Advice: \$70,000
Lost Productivity: \$250,000
Forensics: \$75,000
Recovery & Re-Imaging: \$60,000
Data Validation: \$25,000
Brand Damage: \$500,000
Litigation: \$200,000

Total Cost of Attack:

\$3,785,000

PREV ☐ ☒ ☐ NEXT



INDUSTRY SNAPSHOT

RELIABLE DATA PROTECTION, DELIVERED WHERE YOU NEED IT MOST.

Protecting your organization from the inevitability of cyberattacks – especially ransomware – requires a multi-layered approach. You’ve got to prevent attacks (of course), but you’ve also got to be prepared for the worst.

Dell EMC Cyber Recovery protects your organization’s most critical data within an isolated secure vault. Through an innovative REST API-based automation approach, your data is removed from the attack surface. Additionally, Cyber Recovery brings flexibility in automating robust analytics by integrating custom or well-known industry tools into your workflow. This facilitates a robust and proactive workflow to help increase cyber resilience throughout your organization.

PREV ○ ○ ●



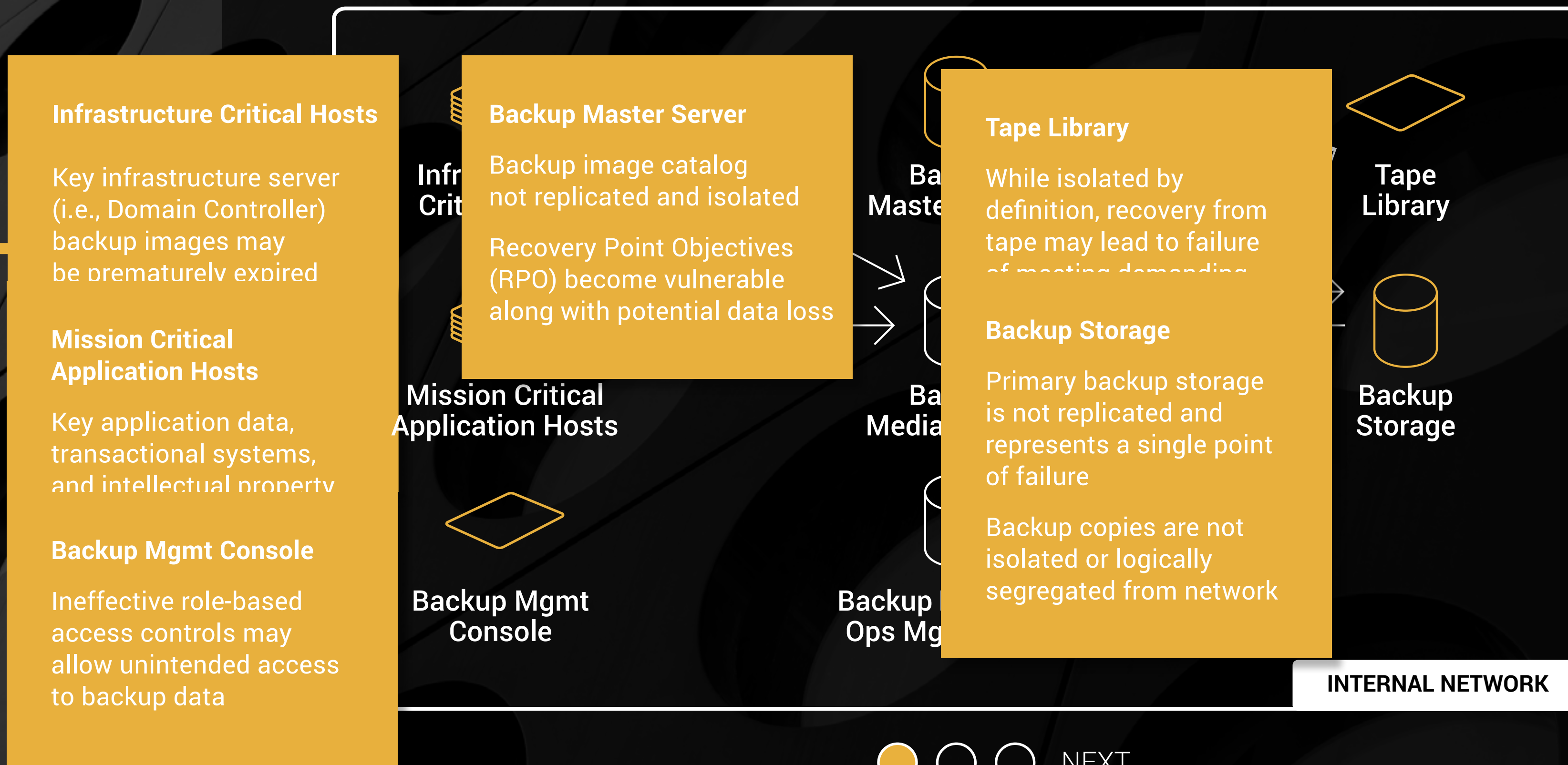
 COMMON VULNERABILITIES →



COMMON VULNERABILITIES

ROLL OVER ICONS FOR DETAILS

TECHNICAL



● ○ ○ NEXT



COMMON VULNERABILITIES

ROLL OVER ICONS FOR DETAILS

PEOPLE & PROCESS

Infrastructure Critical Hosts

Bad actors (external or internal) deploy malicious code or circumvent access restrictions to corrupt and destroy configuration and application data

Backup Mgmt Console

Admin's laptop is compromised and exploited to host malicious code, destroying normal backup operations and configuration information

Backup Master Server

Bad Actor prematurely expires backup images from backup infrastructure catalog, or destroys primary

Backup Media Servers

Bad Actor gains access to backup catalog and destroys TBs of critical data backup images

Tape Library

Backup tapes are stolen, lost or maliciously destroyed

Backup Storage

Elevated access credentials are stolen and exploited to destroy backup data

Ops Mgmt Server

Bad actor destroys compliance reporting data and disables event alerting

Backup Mgmt Console

Backup Reporting/
Ops Mgmt Server

Tape Library

Backup Storage

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COMMON VULNERABILITIES

RISK PROFILE SUMMARY

TECHNICAL

- All data is currently susceptible to a cyberattack
- Primary storage replication can replicate corruption
- Backup catalog not replicated
- Recovery of backup catalog from tape is slow and failure-prone
- Backup copies not isolated from network

PEOPLE & PROCESS

- IT Engineering and Ops have access to most if not all Backup Assets
- Security teams not assigned to assets. Bad actors inside the firewall can create havoc.
- Franchise critical and non-critical data are not segregated
- Backup images can be expired without authorization

These risks are consistent with traditional disaster recovery models. This is a different challenge and requires a different architecture.

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THE SOLUTION

DISASTER RECOVERY VS. CYBER RECOVERY

Traditional disaster recovery solutions are ill-equipped to recover from a cyberattack.

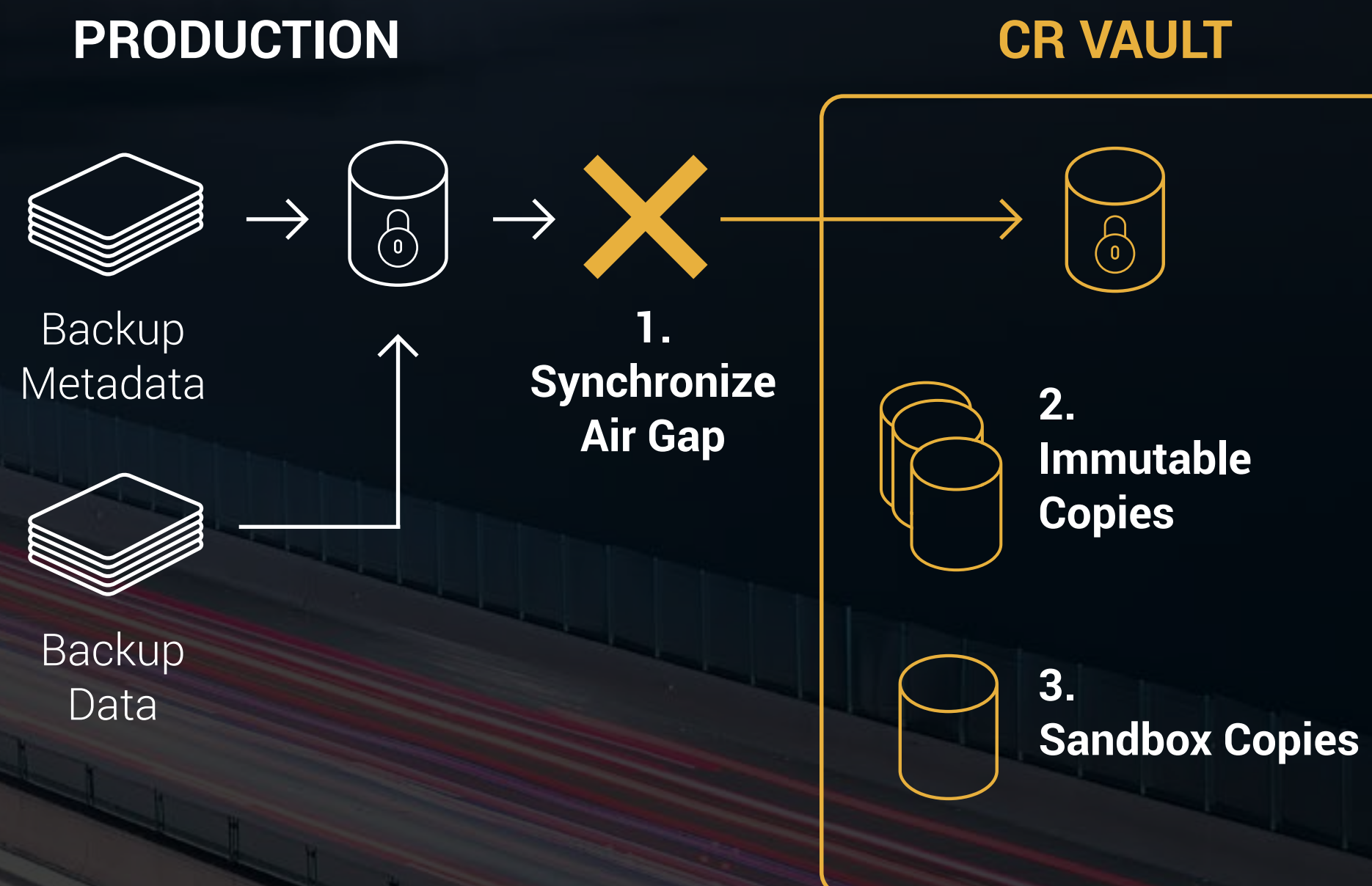
	DR	CR
Recovery Time	Close to Instant	Reliable & Fast
Recovery Point	Ideally Continuous	1 Day Average
Nature of Disaster	Flood, Power Outage, Weather	Cyberattack, Targeted
Impact of Disaster	Regional; typically contained	Global; spreads quickly
Topology	Connected, multiple targets	Isolated, in addition to DR
Data Volume	Comprehensive, All Data	Selective, Includes Foundation SVCs
Recovery	Standard DR (e.g., failback)	Iterative, selective recovery; part of IR



THE SOLUTION

- End-to-end workflow automation
- Runs only in CR Vault
- Creates isolated gold copies
- Robust REST API framework enables analytics with AI/ML for malware (incl. ransomware)
- Modern UI / UX experience
- Easy to deploy and maintain

CYBER RECOVERY SOFTWARE



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THE SOLUTION

PROACTIVE ANALYTICS IN THE CR VAULT

Why Analytics in the Vault?

- Increase effectiveness of Prevent/Detect cybersecurity when performed in protected environment.
- Diagnosis of attack vectors can take place within an isolated workbench.
- App restart activities can detect attacks that only occur when application is initially brought up.

Categories of Data

- Transactional Data – dynamic/large (log variances, sentinel records, etc.)
- Intellectual Property – static/large (checksums, file entropy)
- Executables / Config. Files – static/small (checksums, malware scans)

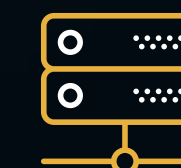
CYBER RECOVERY VAULT



**Cyber
Recovery
Storage
System**



Restore Hosts



Validation Hosts



Management Host

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THE SOLUTION

ADDITIONAL CYBER RECOVERY SERVICES



DEPLOYMENT

New deployment services from Dell EMC Services accelerate the value of Data Domain based Cyber Recovery Solution. These implementation services are available in two sizes to fit your needs based on number of MTrees and data subsets.



WORKSHOP

Dell EMC Consulting leads a facilitated Business Resiliency workshop with key stakeholders to share Dell EMC best practices for resiliency, including IT Continuity and data protection, with an emphasis on cyber recovery.



ADVISORY SERVICES

Dell EMC Consulting Advisory services include the workshop and provide you with a deeper understanding of the solution, specific data to contain in the vault, and advises on roadmap and custom solution design. These offers scale based on your specific needs.

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ADDITIONAL RESOURCES



Case Study:
Founder's Federal
Credit Union

 WATCH VIDEO



Business Cyber
Risk Bulletin

 DOWNLOAD PDF



Learn more
about our Cyber
Recovery Solution

 WATCH VIDEO



Cyber Recovery
Solution Overview

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  NEXT



ADDITIONAL RESOURCES



Analyst Report:
Cyber Recovery

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ESG Video:
Cyber Recovery

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