

(Cyber)szkolenia dla podmiotów krajowego systemu cyberbezpieczeństwa

Jak zapewnić odtworzenie danych? Bezpieczny backup w praktyce









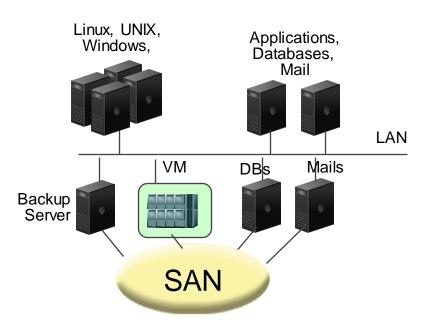


Agenda

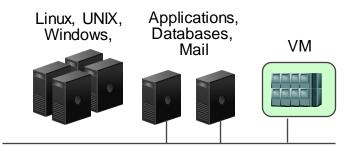
- Cyber attack
- Strategies
- Cyber Bunker
- How to achieve it?

Backup environment

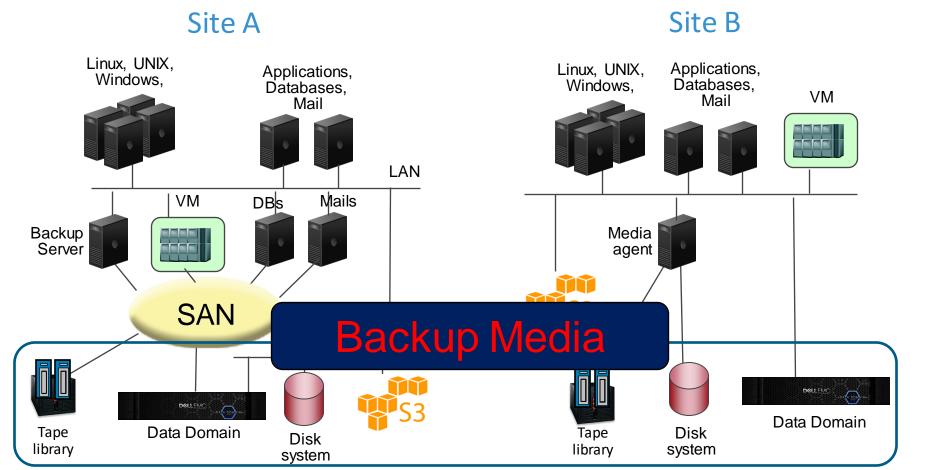
Site A



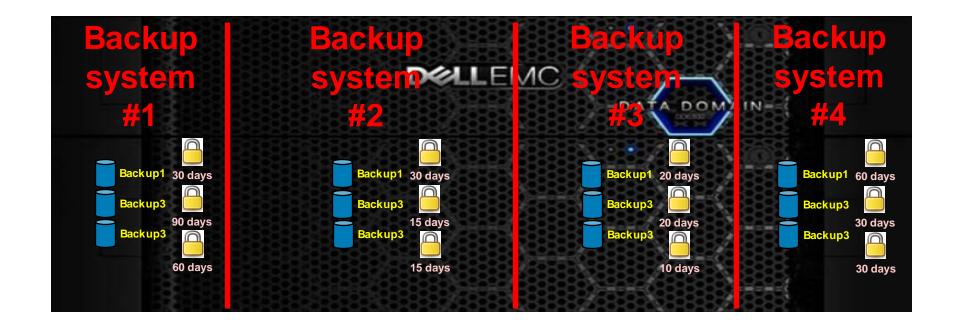
Site B



Backup environment



Data Domain can lock (compliance) data. No one can modify / delete file





Compliance Assessments - Summary and Conclusions

EMC Data Domain Retention Lock Compliance Edition

Prepared by: Cohasset Associates, Inc.

Cohasset Associates was engaged to independently and objectively assess the Retention Lock Compliance Edition capabilities against the storage-related electronic records management requirements of the following U.S. and International regulations and standards:

- Securities & Exchange Commission Regulation 17 CFR 240.17a-4(f)
- Commodity Futures Trading Commission Rule 1.31(b)
- Food and Drug Administration 21 CFR Part 11, Electronic Records; Electronic Signatures
- Sarbanes-Oxley Act
- IRS Revenue Procedures 98-25 and 97-22
- ISO Standard 15489-1 and ISO/TR 15489-2
- MoReq2010®: Modular Requirements for Records Systems Volume 1: Core Services & Plug-in Modules1, Version 1.1 ("MoReq2010®")

For each of these regulations and international standards, Cohasset's assessed the capabilities of the Retention Lock Compliance in the following areas:

- Protection against erasure, overwrite or modification for the required retention period
- · Retention, legal hold and disposition
- · Accuracy and quality of the recording and retrieval process
- Backup and recovery from a duplicate or replica copy

Conclusions: It is Cohasset Associates' conclusion that the Retention Lock Compliance Edition, when properly configured and utilized, meets all of the requirements that are attributable to storage management systems for storing and retaining electronic records in compliance with the aforementioned regulations and standards.

About Cohasset: Cohasset Associates, Inc. is one of the nation's foremost consulting firms specializing in records and information management. Cohasset provides thought-leadership and award-winning professional services in three areas: management consulting, education, and legal research. Cohasset's goal is to help its clients reduce regulatory and legal risks and improve business processes associated with the management of records and information.

Cohasset Associates

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Cyber threats 2021: the facts



Every 11 seconds

a cyber or ransomware attacks occur.*

71%

\$13M

\$1T

43%

86%

of breaches are financially motivated.

verizon/

\$24.7M

Avg. cost of cybercrime for an organization.

accenture

\$6T

Total global impact of cyber crime in 2021.

Cyber security Ventures

48%

of breaches involved small business.

verizon/

Banking	\$18.4M
Utilities	\$17.8M
Software	\$16.0M
Automotive	\$15.8M
Insurance	\$15.8M
High Tech	\$14.7M
Capital Markets	\$13.9M
Energy	\$13.8M
US Federal	\$13.7M
Consumer Goods	\$11.9M
Health	\$11.9M
Retail	\$11.4M
Life Sciences	\$10.9M
Media	\$9.2M
Travel	\$8.2M
Public Sector	\$7.9M
<u> </u>	

67%

Organizations had incident within last year within real issues

92%

Organizations cannot detect cyber attack

Average time to detect is 100 days



Castle strategy





Castle strategy

Real time protection



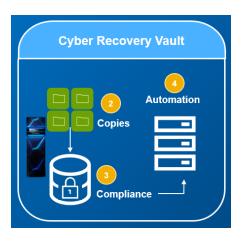


Ambulance strategy





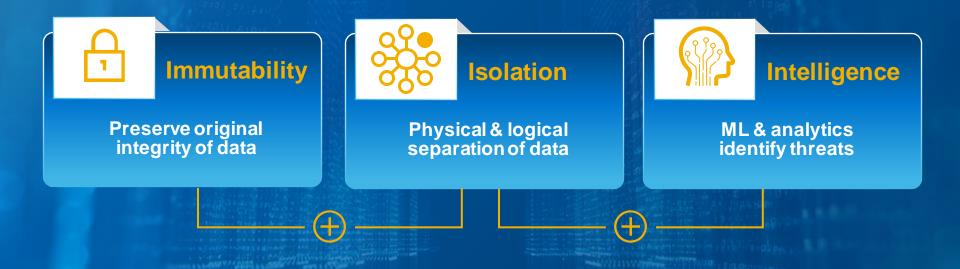
Ambulance strategy

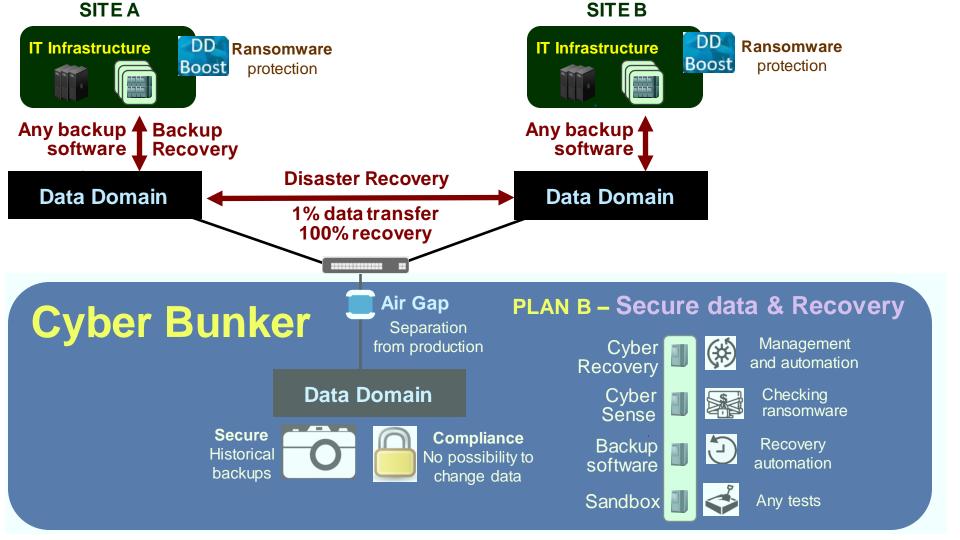


Cyber Bunker

Cyber Recovery Requirements

Modern threats require modern solutions





Cyber Bunker gives us answers for the questions

- What if I am encrypted?
- Am I being encrypted?
- Who encrypts me?
- How to stop being encrypted?
- Which copy to use to recover?
- How to recover?



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SITEA Recovery / Test Center **IT Infrastructure** Backup Recovery **Data Domain** Access Air Gap Backup Нур Station software Cyber DNS SQL **Data Domain** Recovery Cyber AD Oracle **Cyber Bunker** Sense Storage

CyberSense Analytics Compute Servers

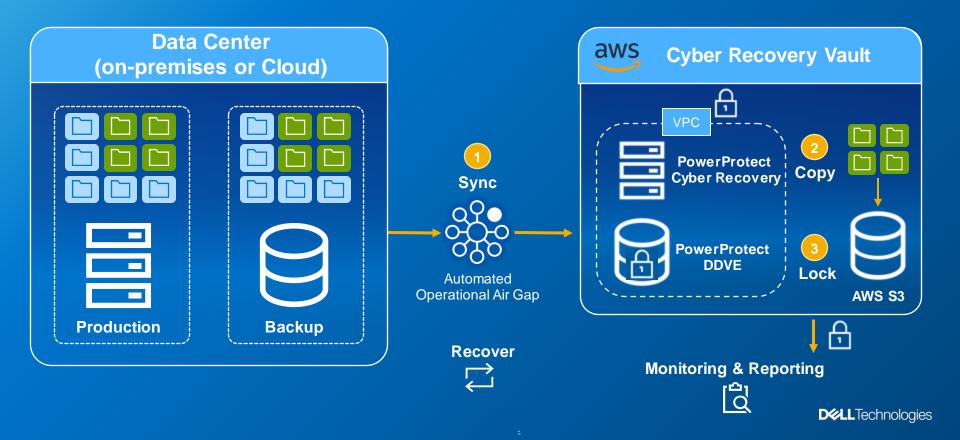
Analytics, Machine Learning and Forensic Tools to Quickly Detect & Recover from Cyber Attacks



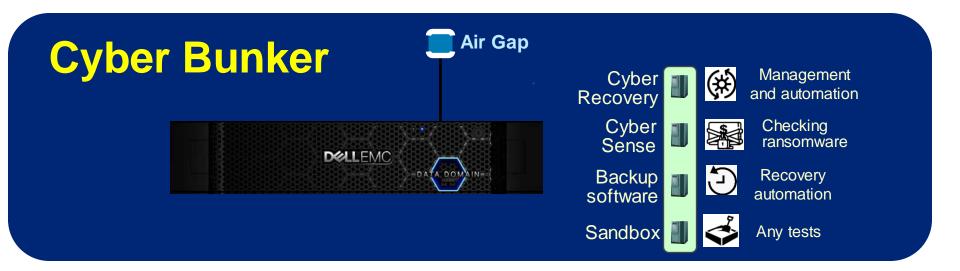
- Machine learning and unique full content level analysis.
- Over 100 heuristics to identify suspicious activity.
- Deep integration with Cyber Recovery for workflow automation and alerting.
- Post attack forensics... quickly determine attack vector and impacted data list.
- Provide last known good dataset for recovery.
- Unparalleled resiliency to recover and restore data quickly from an attack.

PowerProtect Cyber Recovery for AWS

Data Vaulting and Recovery Processes



What is the cost?



Check it – worth!

- Discussion
- Qualification Infrastructure / Security departments
- Solution

Cyber Bunker

- Continue business regardless of criminals
- Detect attack
- Help to remove effect of attack



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