



Los ciber ataques son los nuevos desastres.







Panorama de riesgos cibernéticos.

Intentos

cada 39 sec

Source: Security Magazine

verizon√

71%

of breaches are financially motivated

accenture

\$13M

Avg cost of Cybercrime for an organization

verizon√

43%

of breaches involved small business

accenture

\$5.2T

of global risk over the next 5 years

Costo promedio por Cyberataques

por Industria

Industry	Avg Cost
Banking	\$18.4M
Utilities	\$17.8M
Software	\$16M
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

accenture

D¢LLTechnologies

THREAT LANDSCAPE EVOLVING - BIZ @ RISK

71%

of breaches are financially motivated



39%

of detected malware is Ransomware (#1 variety)



somware (#1 variety)

93%

CAGR in Ransomware variants from 2010 to 2016 >100

Average dwell time of a cyber-attack in days

24%

Organizations satisfied with their ability to detect and investigate



59%

Believe that isolating affected systems and recovering from backups should be the response to ransomware

92%

Organizations cannot detect cyber-attacks quickly

60%

CISOs actively involved in data recovery planning as part of incident response





Los riesgos cibernéticos actualmente

Cyber Threats Continue to Evolve Year after Year

- Amenazas tradicionales
 - Cyber Theft
 - Cyber Attack
 - Denial of Service
- Amenazas emergentes
 - Cyber Destruction
 - Primary and Secondary Storage
 - Cyber Extortion/Blackmail
 - Ransomware





Tus archivos personales se cifran por CTB-Locker.

Tus documentos, fotografías, bases de datos y otros archivos importantes han sido cifrados con el cifrado más fuerte posible y con una clave única, generada para este equipo.

La clave de descifrado privada se almacena en un servidor de Internet en secreto y nadie puede descifrar tus archivos hasta que pagues y obtengas la clave privada.

Tienes solo 96 horas para enviar el pago. Si tú no envías el dinero dentro del tiempo proporcionado, todos tus archivos se mantendrán permanentemente cifrados y nadie será capaz de recuperarlos.

Haz clic en 'Ver' para ver la lista de archivos que han sido cifrados.

Presiona 'Siguiente' para ir a la siguiente página.



IADVERTENCIA! NO TRATES DE DESHACERSE DEL PROGRAMA POR TI MISMO.
CUALQUIER ACCIÓN TOMADA CONLLEVA A QUE LA CLAVE DE DESCIFRADO SEA
DESTRUIDA. PERDERÁS TUS ARCHIVOS PARA SIEMPRE. LA ÚNICA MANERA DE
MANTENER TUS ARCHIVOS ES SEGUIR LAS INSTRUCCIONES.

Ver

95:52:59

Siguiente >>

BAD RABBIT

If you access this page your computer has been encrypted. Enter the appeared personal key in the field below. If succeed, you'll be provided with a bitcoin account to transfer payment. The current price is on the right.

Once we receive your payment you'll get a password to decrypt your data. To verify your payment and check the given passwords enter your assigned bitcoin address or your personal key.

Time left before the price goes up



Price for decryption:



Ocops, your important files are encrypted.

If you see this text, then your files are no longer accessible, because they have been encrypted. Perhaps you are busy looking for a way to recover your files, but don't waste your time. Nobody can recover your files without our decryption service.

We guarantee that you can recover all your files safely and easily. All you need to do is submit the payment and purchase the decryption key.

Please follow the instructions:

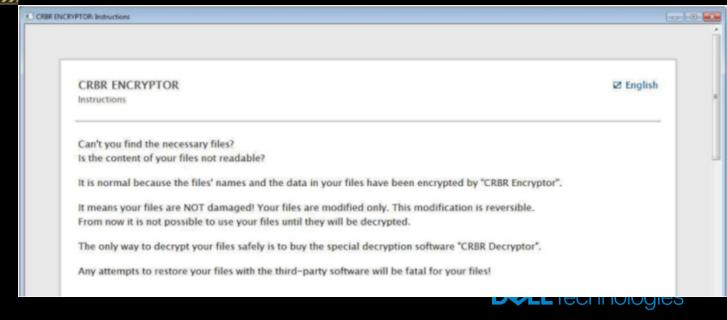
1. Send \$300 worth of Bitcoin to following address:

1Mz7153HMuxXTuR2R1t78mGSdzaAtNbBWX

2. Send your Bitcoin wallet ID and personal installation key to e-mail wowsmith123456@posteo.net. Your personal installation key:

7F9MpL-qh4udF-zTt5R3-7q5Rm2-LhHCAT-82GPL9-JL4DsT-eSaXUF-NadDoS-uuiqq×

If you already purchased your key, please enter it below. Key: $_$



Honda – Manufacturing DOWN

https://techcrunch.com/2020/06/09/honda-ransomware-snake/

https://jalopnik.com/honda-seems-to-be-the-victim-of-a-ransomware-attack-1843953940

https://www-bloomberg-

com.cdn.ampproject.org/c/s/www.bloomberg.com/amp/news/articles/2 020-06-09/honda-suspends-vehicle-shipments-after-suspected-cyberattack

Honda Seems To Be The Victim Of A Ransomware Attack





We have received several reports from Honda employees that the entire Honda network is down, and seems to have been compromised by a ransomware attack. The attack happened yesterday, June 7, and is impacting Honda's overall business operations globally, in what seems to be both business and manufacturing arenas. Honda is currently dealing with this, and as of yet no timeline for resolution has been revealed, nor has the party responsible for the attack been identified.



Honda global operations halted by ransomware attack

Zack Whittaker @zackwhittaker / 9:07 am CDT • June 9, 2020





Honda has confirmed a cyberattack that brought parts of its global operations to a standstill.

In that text, HAM refers to Honda of America Manufacturing, and it appears that production has been halted at Honda's facilities as a result of the attack.

Other employees have shared messages that suggest that workers not connect to Honda networks, and other others have sent us screencaps of Honda messages like this one:

HONDA - impacted by Ransomware

[DOWN] - [Extreme] - [NA,GLOBAL] - [Customer Portal Security]

Created on 2020-06-08 at 9:34 AM EST

Monday June 8/20 @ 9:30am EST

Honda has notified us that their systems are down due to Ransomware.

All Honda US locations are impacted: MAP, HMA, HMIN as well as their portal.

Trucks and shipments will be impacted.

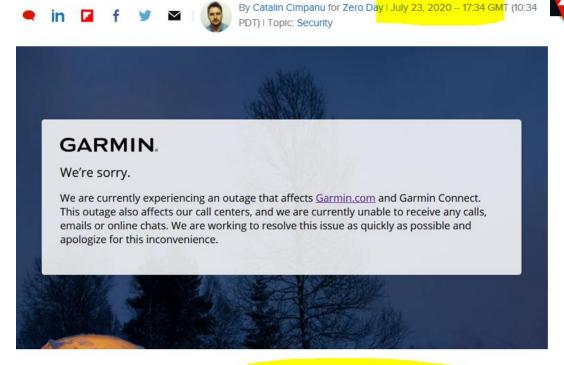
USE EXTREME CAUTION IF OPENING ANY EMAIL FROM HONDA

IT. Honda Motor Japan, NA Region at minimum has been attacked by ransomware causing extensive loss of connectivity and access to production critical data. I just got off call with NA IT and HAM site IT Leads and it Does not look possible to run production on majority of lines across region and HAM . I will send screenshot of Bob e message. Right now people are advised to not login to the Honda Network at work, do not log into the network if you are at work, you can access email and skype from home but do not use vpn or



Garmin hit by Ransomware

https://www.zdnet.com/article/garmin-services-and-production-go-down-after-ransomware-attack/



Smartwatch and wearables maker Garmin has shut down several of its services on July 23 to deal with a ransomware attack that has encrypted its internal network and some production systems, ZDNet has learned.

In today's cyber-security landscape, only ransomware attacks have the destructive power to cause companies to shut down production lines, online services, websites, email servers, and call centers in a matter of hours and enter into an impromptu maintenance mode.



Garmin services and production go down after ransomware attack

Smartwatch and wearable maker Garmin planning multi-day maintenance window to deal with ransomware incident.

Impacted Services – Financial Cost to the business?!?

- Internal network / prod systems
- Call Center phone/email/chat DOWN
- Official website DOWN
- Garmin Connect (global end-user service) DOWN
- Production lines (Asia) DOWN minimum 2 days
- Aviation Database Services DOWN
 - Impacts pilots and is an FAA requirement
 - flyGarmin (web service) DOWN
- Garmin Pilot App DOWN
 - Pilot scheduling & flight plans DOWN

Backup and Recovery Best Practices for Cyberattacks



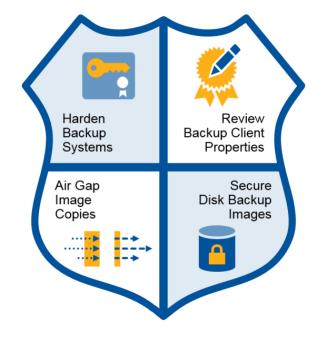
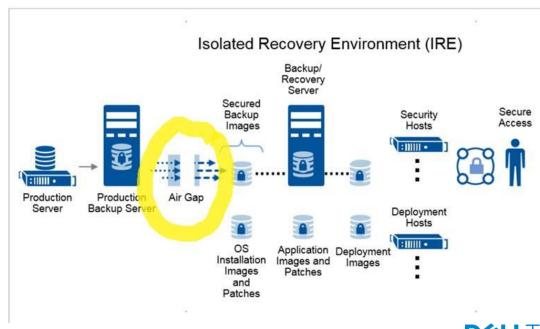
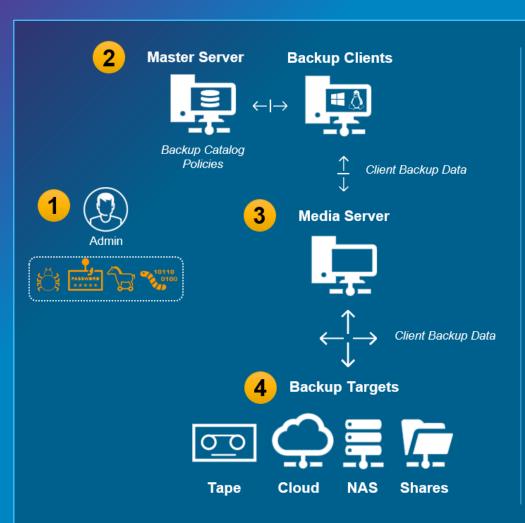


Figure 6. Secured Isolated Recovery Environment



Los ataques de Ransomware están apuntando a la infraestructura de Backups.



- IT and Backup admins are main targets for compromise
- Master Server (Backup Catalog): Backup master server is targeted and infected resulting in encrypted/wiped backup catalog, or pre-mature policy expiration
- Media Server: All mounted filesystems on the media server are targeted and encrypted/wiped
- **Backup Targets:**

Disk / NAS: Filesystems on the media server are targeted and encrypted/wiped. Backup repositories can become encrypted/wiped from ransomware crawling network file shares

Tape: Provides a better chance to recover from the destructive event if threat was removed from the environment prior to attack. However, if backup catalog is held hostage or destroyed, recovering from the tape will be increasingly difficult

Cloud: General-purpose or Public Cloud offer the advantage of remote protection but are inherently less secure due to reliance on internet (always on) or unsecure networks, leaving data, backups and catalogs exposed



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Power Protect Cyber Recovery Solution

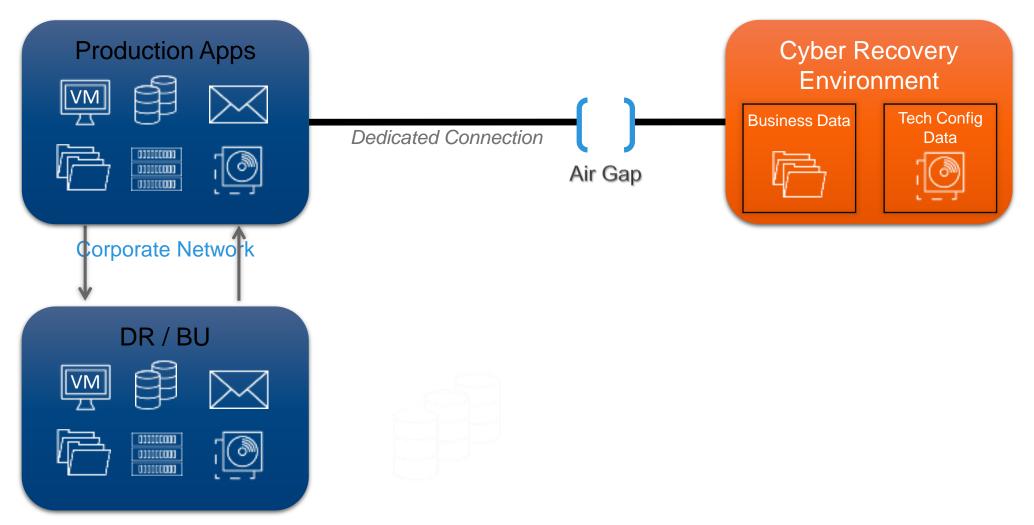


DISASTER RECOVERY [IS NOT] CYBER RECOVERY

This is a much different challenge which requires a different approach and architecture

	Disaster Recovery	Cyber Recovery
Recovery Time	Close to Instant	Reliable & Fast
Recovery Point	Ideally Continuous	1 Day Average
Nature of Disaster	Flood, Power Outage, Weather	Cyber Attack, Targeted
Impact of Disaster	Regional; Typically Contained	Global; Spreads Quickly
Topology	Connected, Multiple Targets	Isolated; Addition to DR
Data Volume	Comprehensive, All Data	Selective, Includes Foundation SVCs
Recovery	Standard DR (e.g. Failback)	Iterative, Selective Recovery; Part of IR

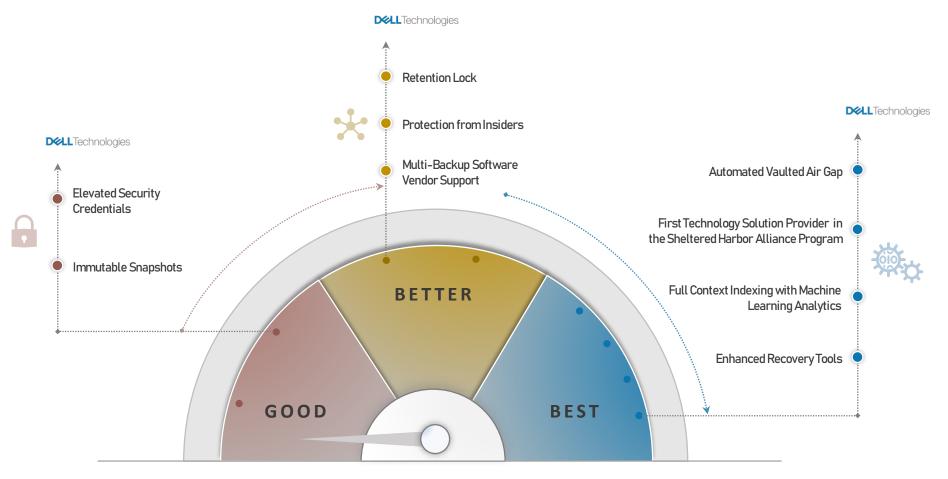
Cyber Recovery





Cyber Recovery: Moving the Needle

Cyber Vault Technical Capabilities and Competitive Market Differentiators





Dell Technologies Cyber Recovery is the only data protection solution providing <u>all</u> described technical capabilities.

» No other technology company provides a complete cyber resilience solution architecture anywhere.



PowerProtect DD

The next generation of Data Domain backup appliances delivering enterprise performance, efficiency, scale, and cloud support



Cloud Tier Long-term Retention Cloud DR Simple and Cost Effective PowerProtect DD Virtual Edition Software Defined **Up to 38%**

faster backups with up to 94 TB per hour³

Up to 45%

faster restores4

50%⁵

faster instant access/ restore with up to 60k IOPS and up to 64 VMs

Up to 1.5PB

in a single rack

Up to 228PB

logical capacity with Cloud Tier

Recover

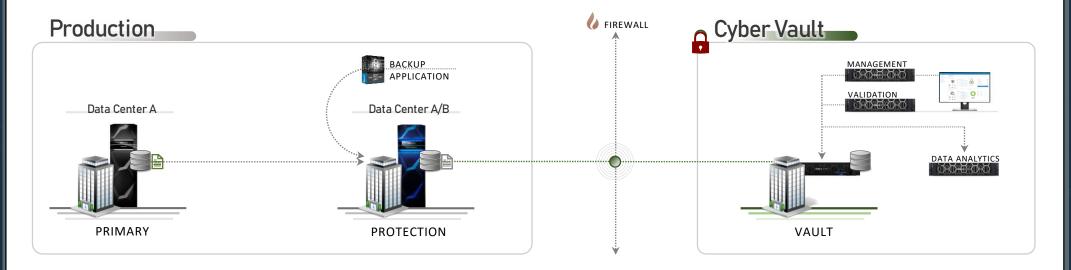
backups from Cyber Recovery Vault

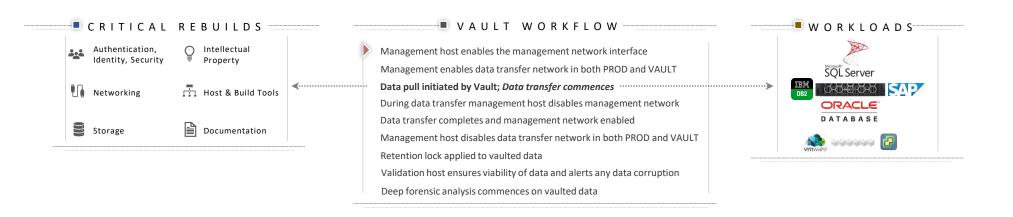




Cyber Recovery: Use Case

Understanding the Data Center and Cyber Vault Workflow



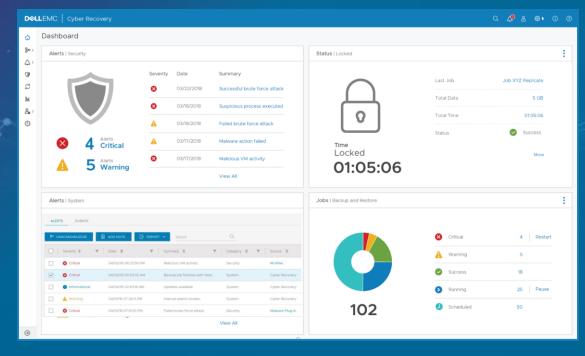


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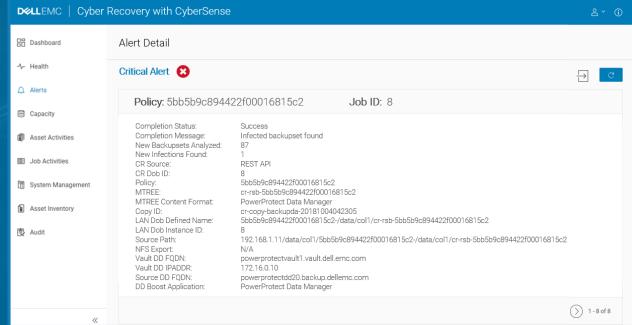
CyberSense Analytics:

Machine Learning Enables Early Detection & Rapid Recovery from a Cyber Attack

Dell EMC Cyber Recovery w/ CyberSense



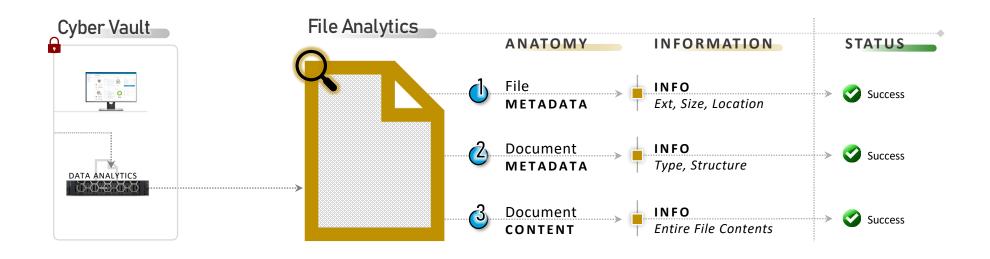
CyberSense Alert Example

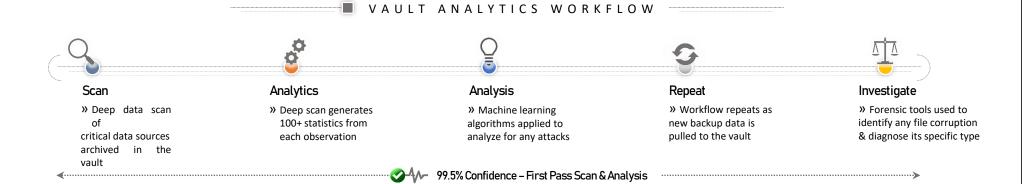




Cyber Recovery: Vault Forensics

Understanding File Anatomy and the Forensic Analytics Workflow







Cyber Recovery: Critical Rebuild

An Suggested List of Critical Rebuild Materials in the Cyber Vault



CRITICAL REBUILD MATERIALS



Authentication, Identity, Security

- » Certificates
- » Active Directory / LDAP
- » DNS Dumps
- » Event Logs (including SIEM data)



Networking

- » Switch & Router Configurations
- » Firewall & Load Balancer Settings
- » IP Services Design
- » Access Control Configuration
- » Firmware, Microcode, Patches



Storage

- » SAN / Array Configurations
- Storage Abstraction Settings
- » Backup Hardware Configuration
- » Firmware, Microcode, Patches



Intellectual Property



- » Source Code
- » Proprietary Algorithms
- » Developer Libraries



Host and Build Tools

- » Physical & Virtual Platform Builds
- » Dev/Ops Tools & Automation Scripts
- » Firmware, Microcode, Patches
- Vendor Software
 - » Binaries (Gold Images)
 - » Configurations and Settings



Documentation



- » CMDB & Asset Management Extracts
- » D/R / Cyber Recovery Runbooks and Checklists
- » HR Resources and Contact Lists
- » Incident Response Plan



Dell EMC's Resiliency Methodology



Cyber Threat Recovery



Protect & Recover Data



Ensure Business Availability

Advisory	Design & Implementation	Optimize
Analyze Program Maturity	Design Deployment Solution (App/Infra)	Develop/Update Program Definition
Define Business Requirements	Conduct Implementation Planning	Incremental Improvement
Evaluate Alternatives	Test & Implement Technologies/Solution	Metrics and Reporting
Service Catalog Definition	Develop Operations Documentation	
† 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Demonstrate Capability	

Program Management & Integration



