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Has the Changing Cybersecurity Landscape Killed Backups?

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Threats are Escalating

The New York Times

Hundreds of Businesses, From Sweden to U.S., Affected by Cyberattack

In Sweden, a grocery chain temporarily closed its doors after the attack. Some companies have been asked for \$5 million in ransom.



SMBs in the US are in the crosshairs



300x more likely to be targeted than other industries

25% of all cyber attacks on finance were on US companies

\$18.5m avg cost of a cyber incident to US financial services company

70% of financial firms have experienced a security incident in last 12 months

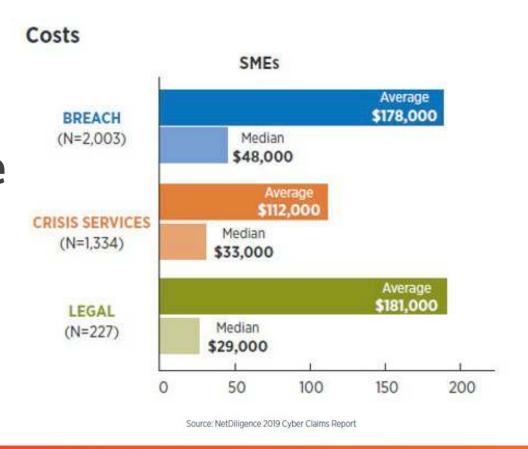


15% of people successfully phished will be phished again within 1 year

Sources: Webroot, 2021 Threat Report; CSO, Why are SMBs Under Attack by Ransomware, 2021; InfoSecurity, Most Ransomware Victims Are Hit Again After Paying, 2021



AIG is reducing cyber insurance limits as cost of coverage soars



Even the US Government Knows...

"OCIE has also observed an apparent increase in sophistication of ransomware attacks on SEC registrants. The perpetrators behind these attacks typically demand compensation (ransom) to maintain the integrity and/or confidentiality of customer data or for the return of control over registrant systems

In light of these threats, OCIE encourages registrants, as well as other financial services market participants, to monitor the cybersecurity alerts published by the Department of Homeland Security Cybersecurity and Infrastructure Security Agency (CISA.."



...And they want it to stop!

"OFAC may impose civil penalties for sanctions violations based on strict liability, meaning that a person subject to U.S. jurisdiction may be held civilly liable even if such person did not know or have reason to know that it was engaging in a transaction that was prohibited under sanctions laws and regulations administered by OFAC. . Enforcement responses range from non-public responses, including issuing a No Action Letter or a Cautionary Letter, to public responses, such as civil monetary penalties.



FORTUNE

The FBI broke up a Russian hacker plot to extort millions from Tesla



What are they after

- The most pressing attacks are often targeted at payment mechanisms (SWIFT or others) for the immediate pay-off
- Secondary attacks may result in data corruption, downtime, service disruption or general instability
- Data exfiltration is the long-tail and potentially the most dangerous

A closer look at cyberattacks

The actors behind these incidents include not only increasingly daring criminals but also states and state-sponsored groups, with diverse goals and motivations.

THREAT ACTOR	MOTIVATIONS	GOALS	EXAMPLES
Nation-states, state-sponsored groups	Geopolitical, ideological	Disruption, destruction, damage, theft, espionage, financial gain	Permanent data corruption, targeted physical damage, power grid disruption, payment system disruption, fraudulent transfers, espionage
Cybercriminals	Enrichment	Theft/financial gain	Cash theft, fraudulent transfers, credential theft
Terrorist groups, hacktivists, insider threats	ldeological, discontent	Disruption	Leaks, defamation, distributed denial-of-service attacks

Source: European Systemic Risk Board. 2020. "Systemic Cyber Risk." https://www.esrb.europa.eu/pub/pdf/reports/esrb.report200219_systemiccyberrisk ~101a09685e.en.pdf



It's not a single solution...



IDENTIFY	PROTECT	DETECT	RESPOND	RECOVER
Asset Management Governance Risk Assessment Risk Management Strategy	Access Control Awareness and Training Data Security Info Protection Process & Procedure Maintenance And Updates Protective Technology	Anomaly & Event Detection Continuous Security Monitoring Detection and Identification Process	Incident Response Planning Communication Incident Analysis Mitigation Improvements / Post Mortem	Recovery Planning Business Continuity Improvements Communication

FINRA

4370. Business Continuity Plans and Emergency Contact Information

PCIDSS

12.10.1 IR plan should address recovery and continuity

SOX

404 The responsibility of management for establishing and maintaining adequate controls...

Backup is Failing Against these Pressures



41% of organizations report inadequate backup and failure

to meet SLAs

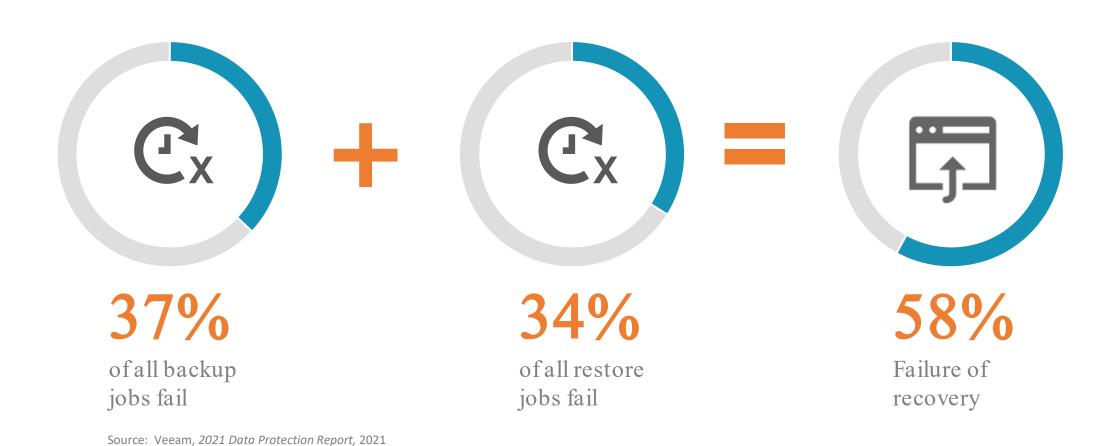


80%

of organizations say they are gapped between their ability to recover vs their need to recover

Source: Veeam, 2021 Data Protection Report, 2021

Really, Really Failing



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Endpoint Backup

Protect data for remote employees and satellite offices



No-Appliance BDR

Basic server backup to disk and cloud. Full business continuity



Turn-Key BDR

Backup to turn-key appliance and cloud. Full business continuity







Public Cloud Backup

Protect servers in Azure, AWS, Google with long-term retention





Are my backups safe?



AirGap in action – actual support ticket extract

- May 13th at 10:10am
- Partner: "Someone penetrated our system last night and managed to delete protected systems in multiple appliances."
- May 13th at 10:31am (20-minutes later)
- Axcient: "Backups and protected servers on first appliance successfully recovered, we have 6 more to go."
- May 13th at 1:58pm (4-hours later)
- Axcient: "All protected systems on all appliances were successfully recovered.
 Root and admin passwords changed."
- May 15th at 3:26pm (2-days later)
- Axcient: "Kindly let me know if we can close this ticket."
- May 15th at 3:32pm
- Partner: "Yes you can close it, thank you very much."

But are the backups usable?



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Questions?



Keep business running.