# Long Live Tape —

# **And Other Data Protection Trends** for a New Threatscape

Cybercriminals have refined their attack strategies and are now targeting data protection environments. To stay ahead of the bad actors, consider incorporating these 11 data protection trends we're seeing across modern data protection environments.

# The lifecycle of a cyberattack

Before you can effectively prevent a breach, it's important to understand the lifecycle of a cyberattack:



## Reconnaissance:

Bad actors identify potential targets, assess the target's defenses and choose their method of attack.



# Hackers bypass perimeter defenses and gain access to the network.

Initial compromise:



### Command & control: The attackers use the compromised device to gain further access to the environment and

set up long-term control.



# With access established, the cybercriminals attempt to compromise additional users and machines.

**Lateral compromise:** 

Target attainment:

Multiple access points and hundreds of compromised users provide the hackers with in-depth

systems, potentially costing the organization hundreds of thousands of dollars — or more.



### Exfiltration, corruption & disruption: The attackers now have full access to sensitive data, intellectual property or other mission-critical

information about the environment.

# From data isolation solutions that logically or physically isolate data storage to mitigate risk to the

11 trends in modern data protection

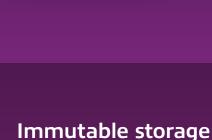
modern infrastructures and strategies redefining the state of data protection, these 11 trends make secure data management more attainable.



# Tape storage — a form of completely offline, air-gapped backups —

Magnetic tape

isn't going away anytime soon. New technology has increased magnetic tape storage capacity, making magnetic tape an extremely cost-effective method for storage and backup. Because air gapping is offline, this type of data protection is nearly 100% secure.

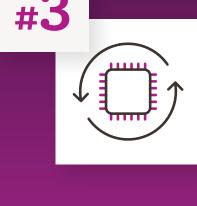


an appealing option for security teams. Immutable storage lets organizations take a snapshot of their data and set policies on its expiration, knowing that the data is unaffected and completely restorable until that time, regardless of any unintentional or intentional breach of the environment. The result? It's completely impervious to ransomware attacks.

Historically known as the "nuclear option," immutability has become



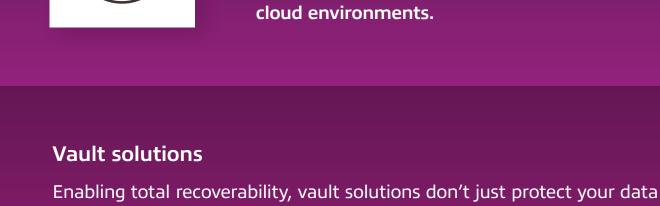




## All-flash storage is growing in popularity due to its ability to minimize recovery point and recovery time, provide fast or synchronous replication and automatic failover, and be easily integrated with cloud and hybrid

All-flash

cloud environments.



## — they account for business-critical services and infrastructure, too. Vaults can be leveraged on-premises, in a colocation or in the public

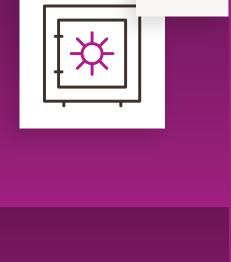
cloud, enabling your business to secure, isolate and recover with ultimate confidence. Cloud archive

access to data. Research shows that 57% of organizations that offer MFA

use either push notifications via phone/email or one-time passwords.

This helps guard against automated attacks, bulk phishing attacks

At-scale test restores





and targeted attacks.

## while adding the security layers needed for resilience and compliance. Cloud archive now supports object lock, which brings immutability to archive backups for added protection against ransomware.

Two- or multi-factor authentication Two- or multi-factor (MFA) authentication validates users prior to granting

For files you don't need to access frequently, cloud archive options

offer a form of backup that frees up storage resources for active data





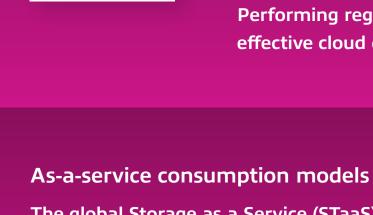
As storage moves out of the traditional data center to the edge and into the hybrid cloud, **teams are ensuring they only work with top** cloud providers and are actively searching for ways to properly secure data in the cloud.

restores the entire environment, as opposed to single files, apps or

machines, and is conducted under the premise that the primary data

center is encrypted to replicate a ransomware attack.



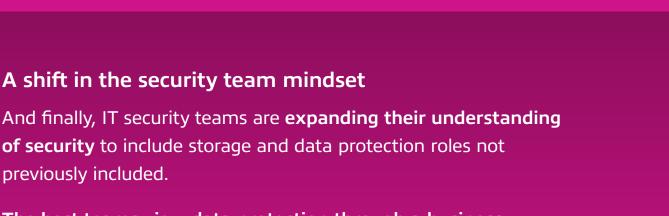


0010

effective cloud data protection and storage.

**Data discovery & classification** 

The global Storage as a Service (STaaS) market was valued at \$34 billion in 2022 and is expected to reach \$396.5 billion by 2032, indicating that enterprises are identifying the STaaS model as a cost-effective, scalable and secure option for data management.





## **of security** to include storage and data protection roles not previously included.

across the organization.

A shift in the security team mindset

The best teams view data protection through a business continuity lens, constantly testing and refining their strategies all while playing a key role in cybersecurity and awareness training



If you're ready to modernize your approach to data protection, Insight can help you determine the best options for your unique environment.

Learn more at insight.com.