IBM Storage Scale Resiliency Services

Ted Hoover Product Manager, Storage for Data and Al

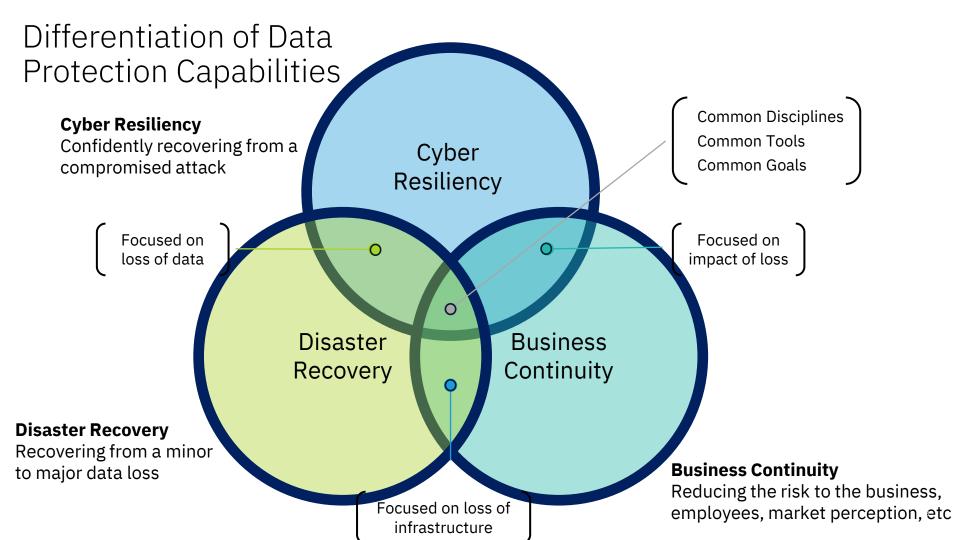


Disclaimer



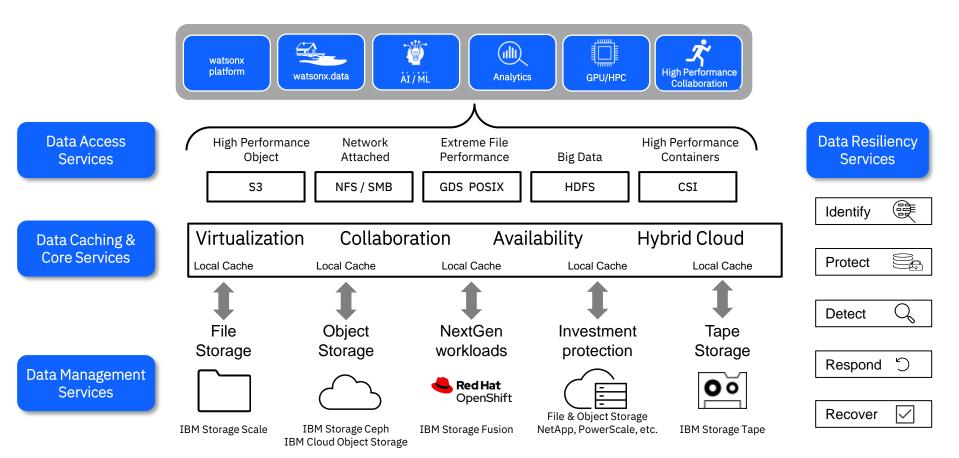
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A Global Data Platform for Unstructured Data

Unifying File and Object Storage to Provide Common Data Services



Data Resiliency Services - Active Protection for Cyber Resiliency



 Cyber Resiliency Assessment Tool, Probes 100s of different controls and best practices

 Cyber Incident Response Storage Assessment (CIRSA)

RECOVER

- Instant access with Storage Scale AFM
- Storage Scale and Spectrum Storage recover multi-petabyte filesystems in hours
- CyberVault
- QRadar Incident Forensics







- Scan snapshots for signs of ransomware (CyberVault)
- Log all Admin & user actions



DETECT



- QRadar and Splunk SIEM integration
- File Audit Logging, Watch Folders
- Analyze backup data for signs of ransomware (Storage Protect)
- Reporting: QRadar User behavior analytics

RESPOND



- Automated action upon threat detection (QRadar)
 - Snapshot, Block Session, Etc..
- Alerts automatically prioritized based severity of the threat and criticality of the assets involved

Identify: Take an assessment

Storage Cyber Resiliency Assessment Tool

No-charge assessment

Helps assess your current state

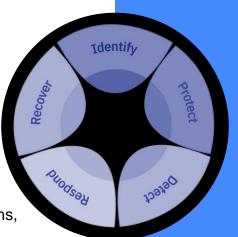
Identifies gaps, strengths, and weaknesses against best practices

Outcomes

- Identify blind spots and recommended areas for improvement
- Discover use of existing solutions, integrations, and overlaps that can be fine-tuned
- Create customized cyber resilience strategy

To request an assessment, contact your IBM Sales Rep or Business Partner, or send an email to the following Request an assessment

Cyber Incident Response Storage Assessment



Identifies strategic cyber resiliency goals

Overview of storage and current cyber resiliency capabilities

Identifies gaps and exposures

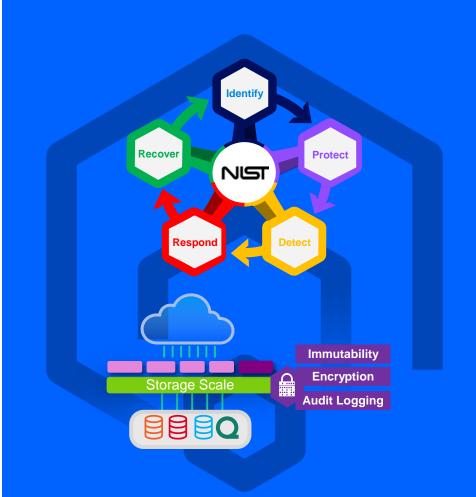
Provides recommendations and highlights best practices

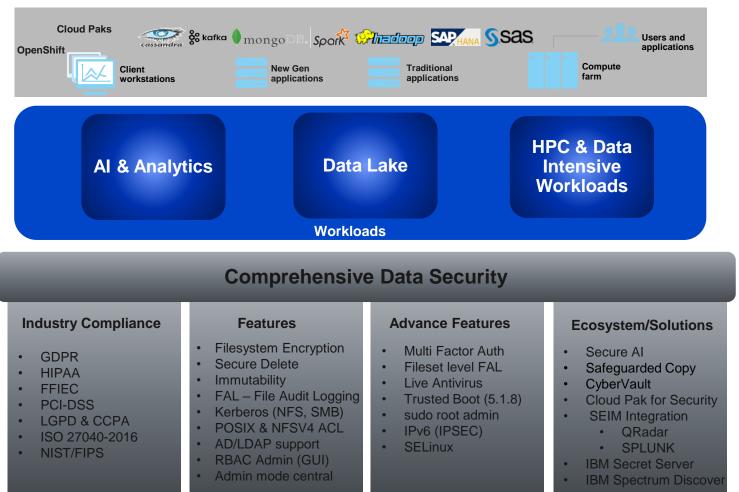
Outcomes

- Develops a cyber resiliency plan that aligns storage infrastructure capabilities and business requirements
- Provides a prioritized recommendations roadmap

Storage Scale Security and Cyber Resiliency

- Centralized authentication and access control
- Data encryption and cryptographically secure erase
- Immutability
- Audit logging
- Data protection through snapshots, replication, backup, and/or disaster recovery
- Data dispersal and erasure code for faster rebuild times
- End-to-end checksum to catch errors
- Integration with Spectrum Storage family
- NIST/FIPS certification





IBM Storage Scale Safeguarded Copy



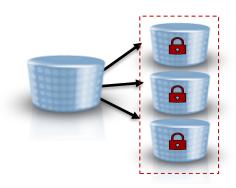
Protect against and recover from a cyber attack

- Immutability: Safeguarded Copy for immutable point-in-time copies of production data with policy-based control
- Isolation: Air Gap "offline by design" and separation from other files
- Access Restrictions: Separation of duties between different administration staff to create a checks and balances approach

Up to 256 immutable point-in-time metadata enhanced copies of data per fileset

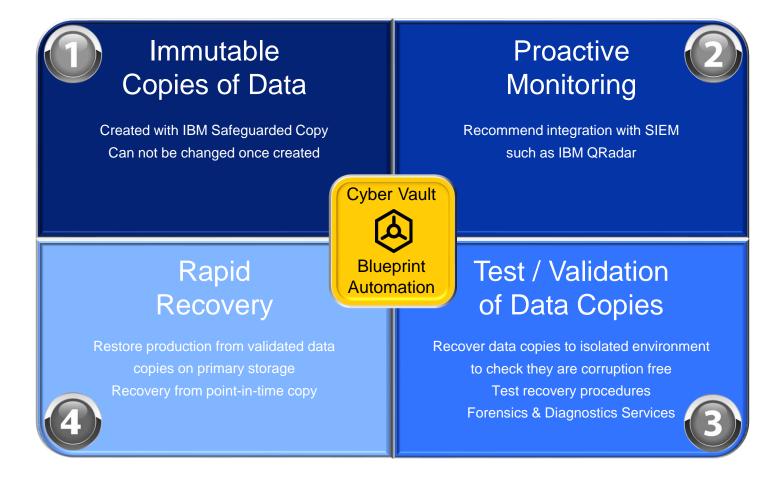
Fast restore from Primary Storage

Prevents modification or deletion of sensitive pointin-time copies due to user error, malicious destruction, or ransomware attack

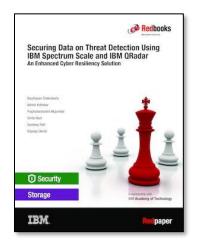


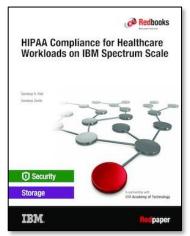
IBM Storage Scale Safeguarded Copy **Corruption found** 15:00 18:00 6:00 9:00 12:00 Recover Production Recovery System Area **Backup Capacity** Production Recovery Share SGC Share SafeGuarded Backup 1 SafeGuarded Backup 2 Restore SafeGuarded Backup 3 SafeGuarded Backup 4 SafeGuarded Backup 5

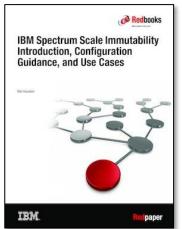
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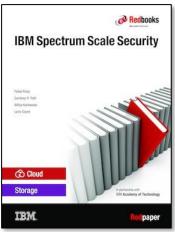


IBM Storage Scale & Storage Scale System Security Related Papers

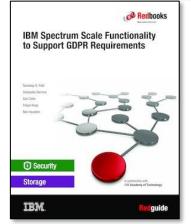


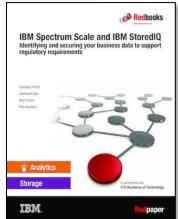


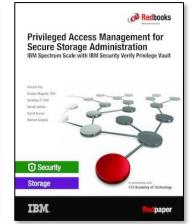


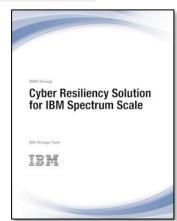












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