INTRODUCES

InfuzeOS Cloud Edition & InfiniSafe Cyber Detection

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June 14, 2023
One SDS Architecture, All Platforms

- Lower TCO and Rapid ROI
- Guaranteed Performance
- Autonomous Automation
- Archive · Backup · Disaster Recovery
- Rapid Recovery · Long-Term Retention
- Set-it-and-forget-it IT Operations
- Multi-petabyte Scalability
- Cyber Resilience Guarantees
- 100% Availability Guaranteed
- Broad-based Consolidation

AI/ML · Analytics · Big Data · Business & Office Apps
Containers · Cyber Defense · Data Warehouses · HPC
Mission-and Performance-critical Apps · VDI · Virtualization

InfiniBox®

InfuzeOS™

InfiniBox™ SSA

InfiniGuard®
InfuzeOS and InfiniSafe

InfuzeOS Powers Our On-Prem Solutions

- Proven Enterprise Ready
  - Common across our Portfolio
  - Performance as low as 35 microsecond
  - Scale up to 17+PB primary effective capacity
  - Scale up to 85+PB backup storage
  - Unified Block and File
  - Enterprise Data Service
  - 100% Availability – Guaranteed
  - Performance SLA – Guaranteed
  - Cyber Resilience Recovery – Guaranteed

InfiniSafe Provides Cyber Resilience

- Core functionality Built in to InfuzeOS
- Immutable Snapshots
- Logical Airgap – Local and/or Remote
- Fenced Forensic Environment
- Near instantaneous recovery
Infinidat Expanding to the Public Cloud
InfuzeOS and InfuzeOS Cloud Edition
InfuzeOS Cloud Edition Use Cases

- Cloud-based DR/BC for InfiniBox and InfiniBox SSA II
- Cloud-based backup target for on-prem InfiniBox and InfiniBox SSA II
- General purpose cloud-based storage
- Storage Standardization - Cloud-based storage similar to on-prem storage
- Functional Test/Dev/POC environment
The Impact of a Cyber Attack

• Cybercrime to cost the world $8T in 2023
  o $15.2M per minute
  o Average WW Cost per event $4.5M
  o Average USA Cost per event $9.1M
• By 2025, cybercrime will cost the world $10.5T
• US announces National Cybersecurity Strategy (Mar 2023)/EU Announces Cyber Solidarity Act
• Cyber security is the #2 concern of CEOs globally (IDC, Feb 2023)
• Average enterprise suffers 1,168 cyberattacks weekly
• 48% of CEOs are increasing investment in cyber security 2023
• Globally, 30,000 websites are hacked daily
Infinidat Enhances InfiniSafe
InfiniSafe Cyber Resilience Innovation Timeline

Commitment to delivery of cyber resilience innovation

- First cyber resilience solution for primary storage
- First guaranteed cyber resilience recovery
- First guaranteed cyber resilience recovery time
InfiniSafe Cyber Detection
InfiniSafe®
CYBER DETECTION

Ransomware & Malware Attacks
Cyber Detection Flexibility

Primary Storage
Volumes, App Workloads, Snapshots

Databases
Oracle, DB2, SQL, SAP Hana, Cache, etc.

User Files
Contracts, Financial Docs, Intellectual Property, etc.
Threat Prevention helps but doesn’t catch it all

Prevention Tools
Threat Detection, Endpoint Tools, Signature Scanners, Patch Management, etc.

Analyze and Report
Enterprise Storage
Forensic reports to determine last good version of data for recovery

Rapid Recovery With Minimal Data Loss

Attempting to prevent an attack before it happens
- Attack plane is wide and variable
- System/file activity looks to be normal
- Data corruption happens silently

The smarter approach is to make sure all the data is monitored and validated

“Slash defensive cybersecurity spending immediately and redirect it to resilience initiatives.”
Gartner Maverick* Research: You Will Be Hacked, So Embrace the Breach

*https://www.gartner.com/doc/4003861
Immutability + Intelligence
Enhancing Immutability with Intelligent Insights

When a cyber recovery is required:

- Do you want to ensure you have clean data?
- Recovery is not the time to validate the data integrity.
Powerful Indexing = Powerful Insights

- **Enterprise Class**
  - Supports petabyte class environments with efficient processing engine(s)

- **Powerful & Granular Indexing**
  - Supports full content to metadata indexing

- **Deep Insights**
  - Provides up to 99.5% accuracy using **over 200 points** of determination using content-based analytics

- **Data Sets**
  - Supports scanning of primary storage block, file and database environments. Identify highly granular attacks, such as partial encryption
Cyber Detection Workflow
Analytics, Machine Learning and Forensic Tools to Detect and Recover from Cyberattacks

**Full Integration**
Use of APIs to integrate & automate

**Comprehensive Index**
Changes in content over time

**Security Analytics**
200+ statistics indicative of cyber attack

**MACHINE LEARNING**
Trained on all common trojans and attack vectors

**Corruption Detected**
Alert when suspicious activity is detected

**Post Attack Forensics**
Detailed reports, including last good backups for rapid recovery
Cyber Detect Post Attack Dashboard

Improved user experience - More insight into data - Intuitive post attack workflow

- Alerts organized by severity
- New details on suspect corruption
- Customizable, dynamic charts to drill down into details of the attack
- List of corrupted files that can be downloaded
InfiniSafe Cyber Detection Solution

• Applications can validate immutable snapshots in Fenced Forensic environment
• Cyber Detection will tag any corrupted files, create forensic report
• Provides the intelligence needed to facilitate recovery
InfiniSafe Cyber Offload Solution

- Multiple InfiniBoxes or InfiniBox SSAs replicate to one
- Cyber Detection offload “array” will scan all data files and tag any corrupted files, create forensic report
- Provides the intelligence needed to detect an attack

Multiple InfiniBoxes replicate to offload

InfiniSafe Fenced Forensic Environment + Near instant Immutable Snapshot recovery

Copy of Snapshots: PIT-xxx

Validate known good files
Summary

InfuzeOS Cloud Edition
- Same code base as On-Prem – Functionally equivalent
- Provides the power and user experience in the public cloud
- Initial Use cases – DR/BC, Test/Dev/POC, Backup and General Storage

InfiniSafe Cyber Detection
- Adds Highly Intelligent deep scanning to primary storage needed to identify potential issues
- Highly Accurate results – 99.5% accuracy, minimize time needed on false positives
- Primary support for Block and File 2H 2023
Thank you!