One SDS Architecture, All Platforms

- Lower TCO and Rapid ROI
- Guaranteed Performance
- Autonomous Automation
- Multi-petabyte Scalability
- InfiniBox®
- InfiniBox™ SSA
- InfiniGuard®
- 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

- Archive · Backup · Disaster Recovery · Rapid Recovery · Long-Term Retention
- Set-it-and-forget-it IT Operations

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One SDS Architecture, All Platforms

Storage at its best.

InfiniBox™ SSA

InfiniGuard®

Multi-petabyte Scalability

100% Availability Guaranteed

Cyber Resilience Guarantees

Broad-based Consolidation

Backup · Disaster Recovery · Long-Term

Mission-and Performance-critical Apps · VDI · Virtualization

Containers · Cyber Defense · Data Warehouses · HPC

AI/ML · Analytics · Big Data · Business & Office Apps

Lower TCO and Rapid ROI

Guaranteed Performance

Guaranteed 100% Availability

100% Availability Guaranteed

Cyber Resilience Guarantees
Industry Acclaim: 2023

- InfiniBox™ SSA II “Gold Winner” for “Best Enterprise Storage Arrays”
- InfinGuard® “Gold Winner” for “Top Backup and Disaster Recovery Services”
- Named a Leader and an Outperformer in Primary Storage for large enterprises
- Infinidat’s InfiniBox Family - One of Top 5 High-end Storage Arrays in the World
- Mitch Diodato Named as a 2023 CRN Channel Chiefs
- Infinidat Earns 5-Star Rating in CRN® Partner Program Guide for the Second Consecutive Year
- One of CRN’s 50 Coolest SDS Vendors for Second Consecutive Year: 2023 Storage 100
- One of the Power 500 Software Companies of 2023
- Eric Herzog Named One of the Top 10 CMOs of the Year, 2023

Gartner Peer Insights Customers’ Choice for Primary Storage based on reviews & ratings of end-users

Gartner Peer Insights Customers’ Choice 2023

Storage Product of the Year: InfiniBox™ SSA II “Gold Winner” for “Best Enterprise Storage Arrays”

Storage Product of the Year: InfiniGuard® “Gold Winner” for “Top Backup and Disaster Recovery Services”

2023-24

DCIG

TOP 5

STORAGE ARRAYS

Eric Herzog Named One of the Top 10 CMOs of the Year, 2023

Infinidat’s InfiniBox Family - One of Top 5 High-end Storage Arrays in the World

Mitch Diodato Named as a 2023 CRN Channel Chiefs

Infinidat Earns 5-Star Rating in CRN® Partner Program Guide for the Second Consecutive Year

One of CRN’s 50 Coolest SDS Vendors for Second Consecutive Year: 2023 Storage 100

One of the Power 500 Software Companies of 2023
Exploding Cyber Risks

- Cybercrime to cost the world $8T in 2023
  - $15.2M per minute
  - Average WW Cost per event $4.5M
  - 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
InfiniSafe Cyber Storage Resilience

- **Immutable Snapshots**: Scheduled or manually created and replicable, secure, immutable point-in-time copies.
- **Logical Air-Gapping**: Logically separates immutable data copies from network access, either locally or remotely or both.
- **Fenced Forensic Environment**: Isolated environment for validation, testing, and recovery.
- **Near Instantaneous Recovery**: Execution of the plan.
InfiniSafe Cyber Resilience Innovation

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

InfiniGuard
- Guaranteed Immutability
- Guaranteed cyber recovery time

Extended InfiniSafe capacity for InfiniGuard and InfiniBox

Timeline:
- February 2022: InfiniGuard
- April 2022: InfiniBox and InfiniBox SSA
  - InfiniSafe Cyber Resilience
  - InfiniSafe Reference Architecture
- August 2022: InfiniBox and InfiniBox SSA
  - Guaranteed Immutability
  - Guaranteed cyber recovery time
- October 2022: Extended InfiniSafe capacity for InfiniGuard and InfiniBox
- May 2023
Cyber Resilient Storage enabled by InfiniSafe

InfiniSafe Cyber Storage Resilience Guarantees
- Guaranteed immutability of InfiniSafe immutable snapshots
- Recovery time guarantee of those immutable snapshots
  - Less than 20 minutes for InfiniGuard
  - Less than 1 minute for InfiniBox SSA II and InfiniBox
  - Regardless of immutable snapshot size

InfiniSafe Cyber Storage Resilience
- Immutable Snapshots
- Logical air-gapped protection
- Fenced forensic environment
- Near-instantaneous recovery of any size backup repository
Powerful Backup Repository – *Integrated with Applications*

“With their new performance and cyber storage recovery guarantees, Infinidat is breaking new ground in these areas in ways that drive meaningful value for their enterprise customers.” – Vice President IDC

“Teradata Oracle backup has been taking over 2 days to run, and now they run in under 8 hours to InfiniBox” – Large Food Distributor
InfiniGuard’s InfiniSafe Immutability

- Protection of entire backup storage via Infinidat immutable snaps
- Granular recovery and separately managed policy for each DDE
- Enable CyberRecovery or discovery tests in a standby environment
- Synchronized protection of the Backup Servers’ Catalog(s) and Information
InfiniSafe on InfiniGuard – Logical Remote Air-Gap

- Backup & Replicate using dedupe aware native replication
- Allows longer data retention in remote site
- Cyber resilience tests and validations can occur in both sites
- Create immutable snapshots in either or both locations
- Validate, test and recover from the Isolated Environment using the standby DDE
InfiniSafe – Fenced Isolated Forensic Network

- Separate/private from General Networks
- Preconfigured Network for Stand-By Node
- Mount Snapshot, Pause Replications, Modify Share Access, Mount Share to Servers (Import / Scan / Data & Test)
- Download logs for review and analysis
Guaranteed Cyber Storage Resilience !!!!

- **InfiniSafe Cyber Storage Guarantee**
  - First primary storage platform cyber storage guarantee
  - Guaranteeing immutability of our InfiniSafe immutable snapshots
  - Guaranteeing near instantaneous recovery of an InfiniSafe immutable snapshot:
    - 1 minute or less with InfiniBox/InfiniBox SSA II
    - 20 minutes or less with InfiniGuard

- **100% Availability Guarantee**
  - InfiniBox/InfiniBox SSA II

- **Performance Guarantee**
  - InfiniBox/InfiniBox SSA II - Based upon your actual real-world applications
InfiniSafe Ransomware and Malware Resistance
Cyber Detection Flexibility

InfiniSafe®
CYBER DETECTION

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
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
  - Uses 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 Machine Learning Model

- Over 200 analytics that represent changes in value of the file content and metadata from one observation to the next

- Analytics are fed to machine learning algorithms in order to make probabilistic decision of data integrity
Cyber Detection Machine Learning Model Training

• Data sets representing many different pre and post attack environments, with all known ransomware variants, are used to train the machine learning model

• Machine-learning model quality is tuned and measured to meet a 99.5% recall rate
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
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 Guaranteed Immutable Snapshots of Volumes, Files, etc.

InfiniSafe Fenced Forensic Environment + Near instant Immutable Snapshot recovery

Copy of Snapshots: PIT-xxx

Scanning Engine

Identify compromised data & Validate known good files

Fast Recovery of last known good copy in production
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
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
The End Users Have Spoken

InfiniBox Reviews
by Infinidat in Primary Storage
4.9 🌟🌟🌟🌟🌟 441 Ratings

InfiniBox SSA Reviews
by Infinidat in Primary Storage
5.0 🌟🌟🌟🌟🌟 10 Ratings

InfiniGuard Reviews
by Infinidat in Data Center - Others
4.9 🌟🌟🌟🌟🌟 17 Ratings

As of May 2, 2023
The End Users Have Spoken

InfiniBox Reviews

by Infinidat in Primary Storage

4.9 ★★★★★ 441 Ratings

"Infinidat is the Golden Standard for Enterprise Storage."
Storage Operations Supervisor, Banking | InfiniBox

InfiniGuard Reviews

by Infinidat in Data Center - Others

4.9 ★★★★★ 17 Ratings

As of May 2, 2023
Infinidat Drives Dramatic Storage Infrastructure Savings

162%
5-year ROI

48%
Reduced OPEX

51%
More efficient storage management

11 Month
Payback in 11 months

Key Assets:

Video Webinar

On-demand
InfiniSafe Materials

- InfiniSafe Solutions Brief
- Shielding Backup Data with InfiniSafe®
- Guaranteed Service-Level Agreements
- InfiniSafe Cyber Storage Resilience Webinar
- GigaOm - Infinidat Named The Leader in Ransomware Protection for Block Storage
- InfiniSafe Cyber Detection Press Release
- InfiniSafe Cyber Detection Blog

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Thank You

InfiniSafe®
CYBER DETECTION