

INFINIDAT

The Standard in Enterprise Storage

InfiniSafe Cyber Storage Resilience

Eric Herzog
CMO

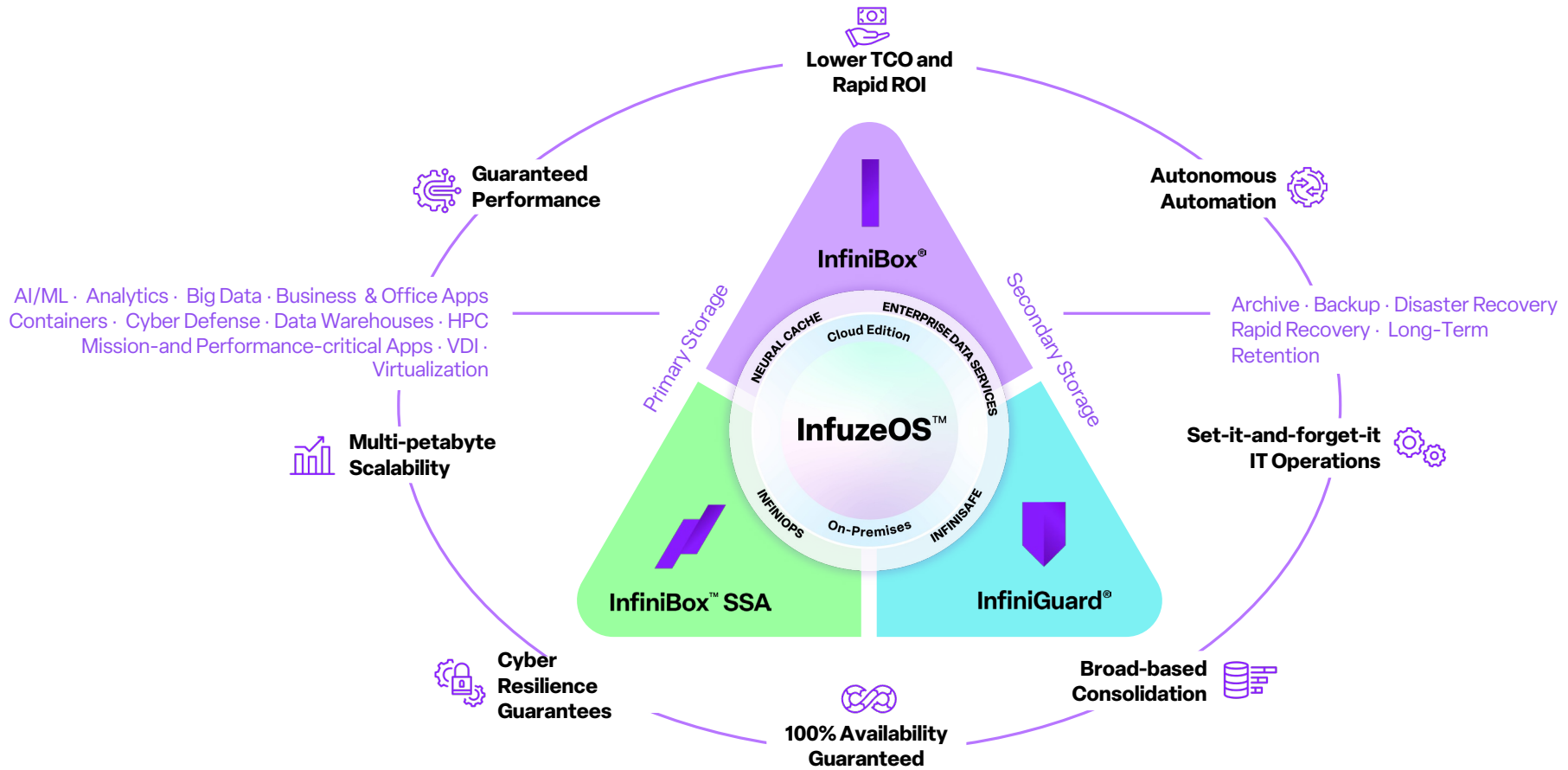
June 15, 2023

 ehertzog@infinidat.com

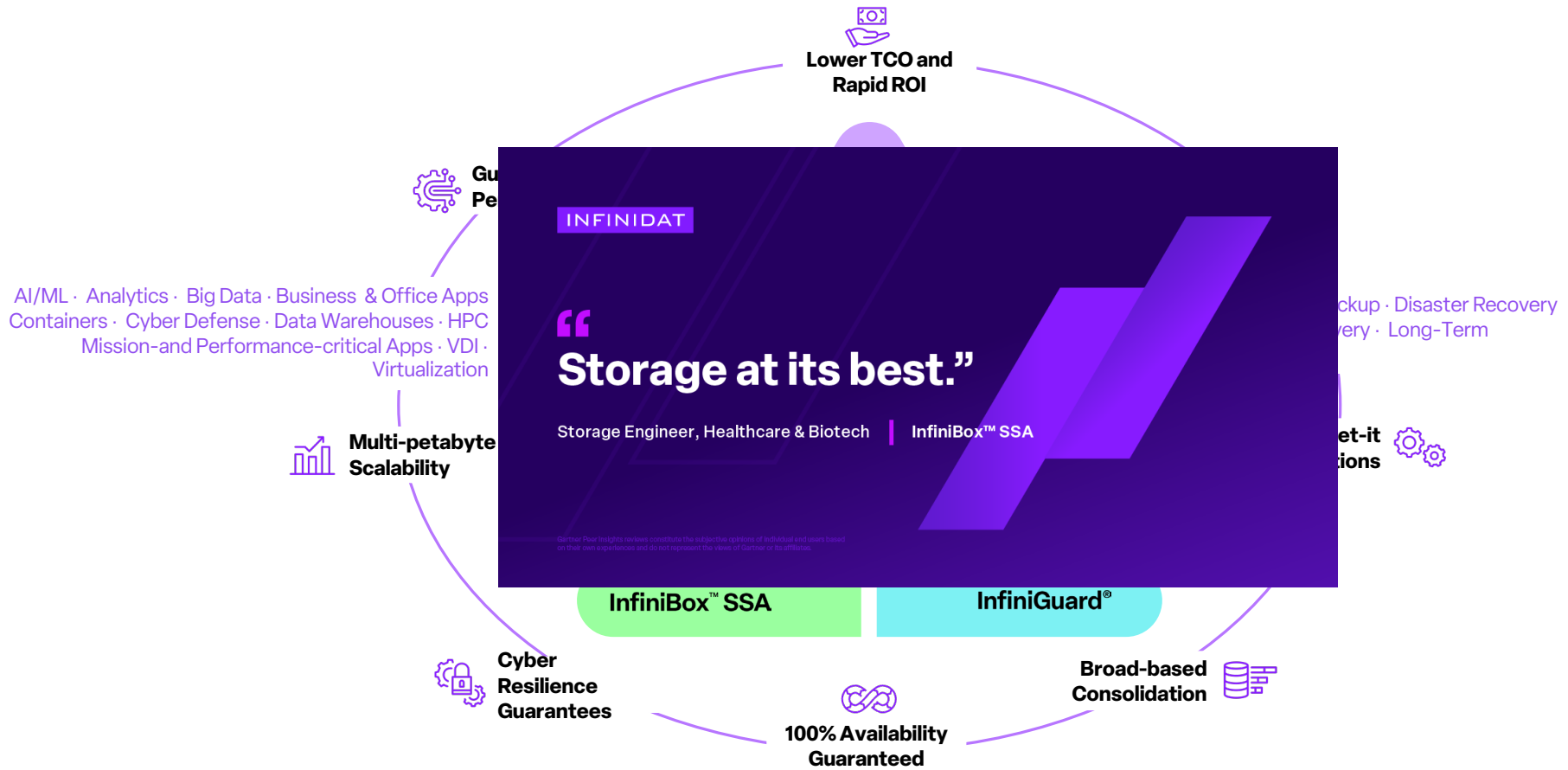
 [@zoginstor](https://twitter.com/zoginstor)



One SDS Architecture, All Platforms



One SDS Architecture, All Platforms



Industry Acclaim: 2023



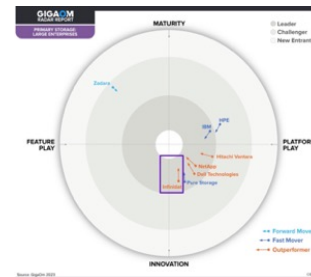
Gartner Peer Insights Customers' Choice for Primary Storage based on reviews & ratings of end-users



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”



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



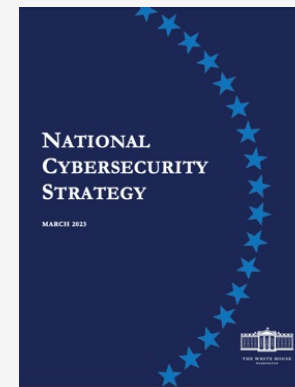
Eric Herzog Named One of the Top 10 CMOs of the Year, 2023

Exploding Cyber Risks

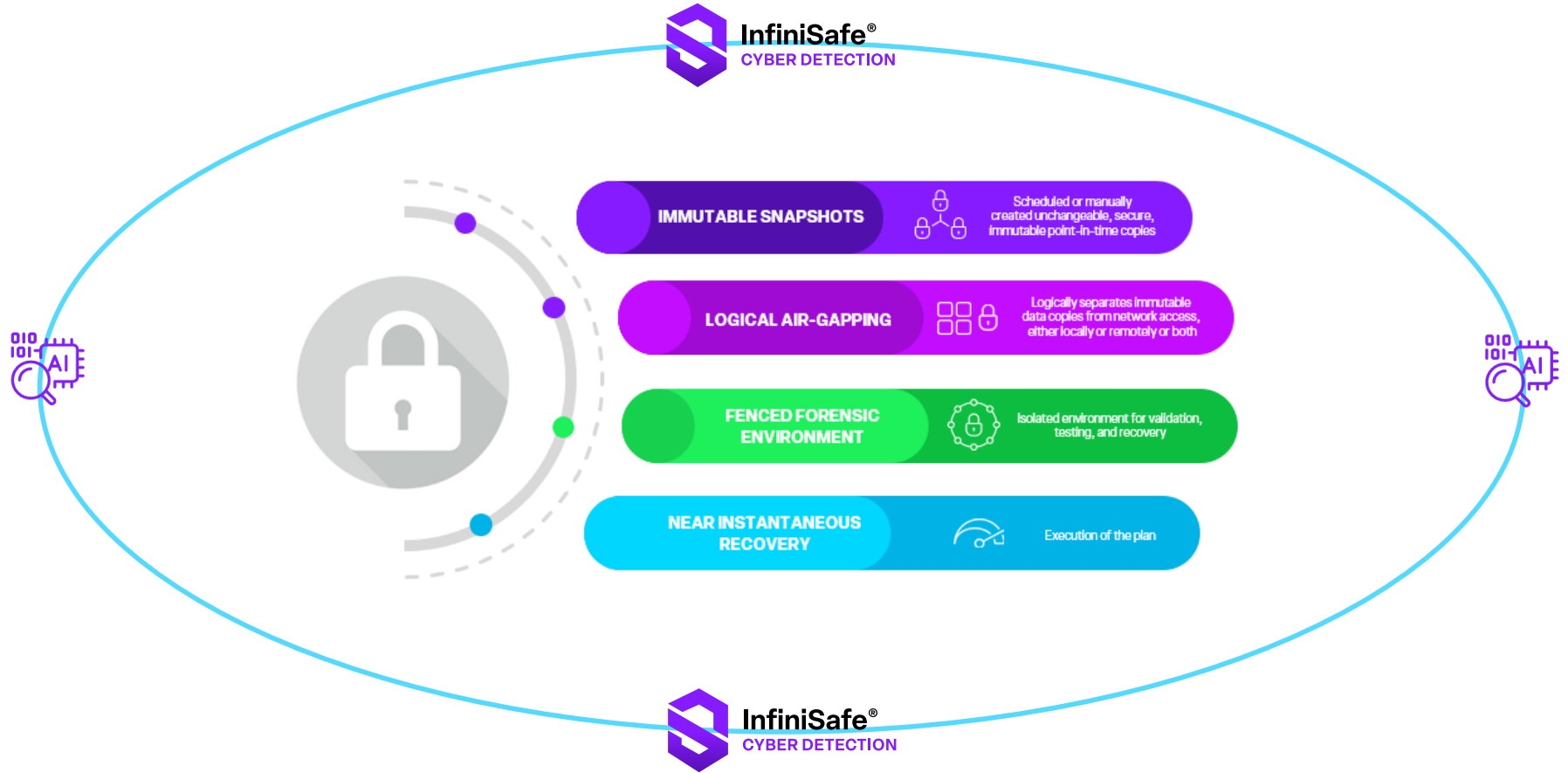
Headline News

World @ Business @ Finance @ Travel @ Sport @ Weather

- 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



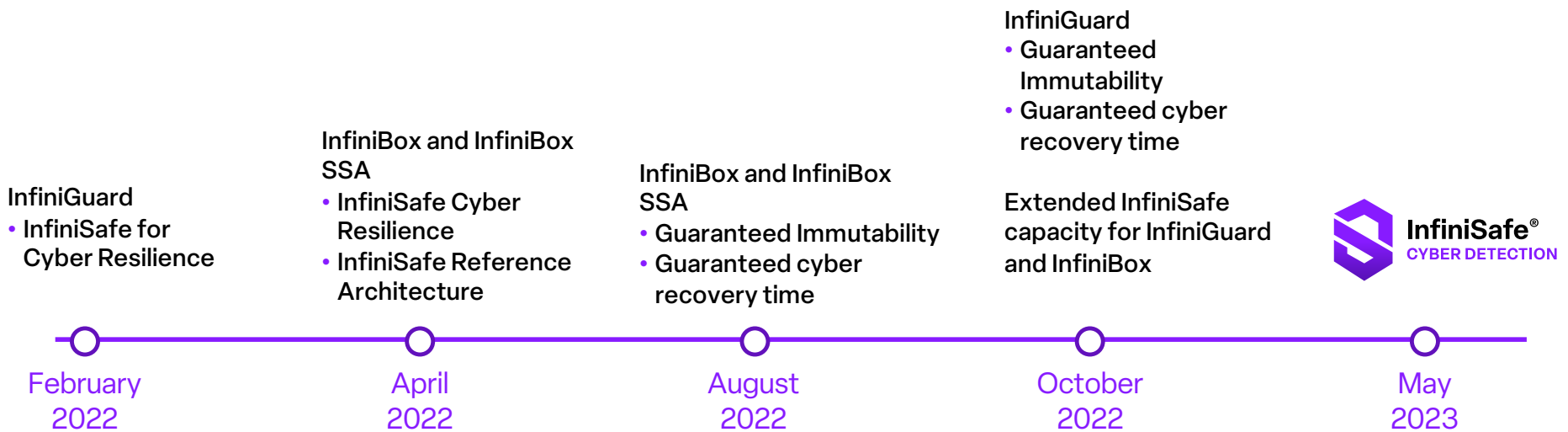
InfiniSafe Cyber Storage Resilience



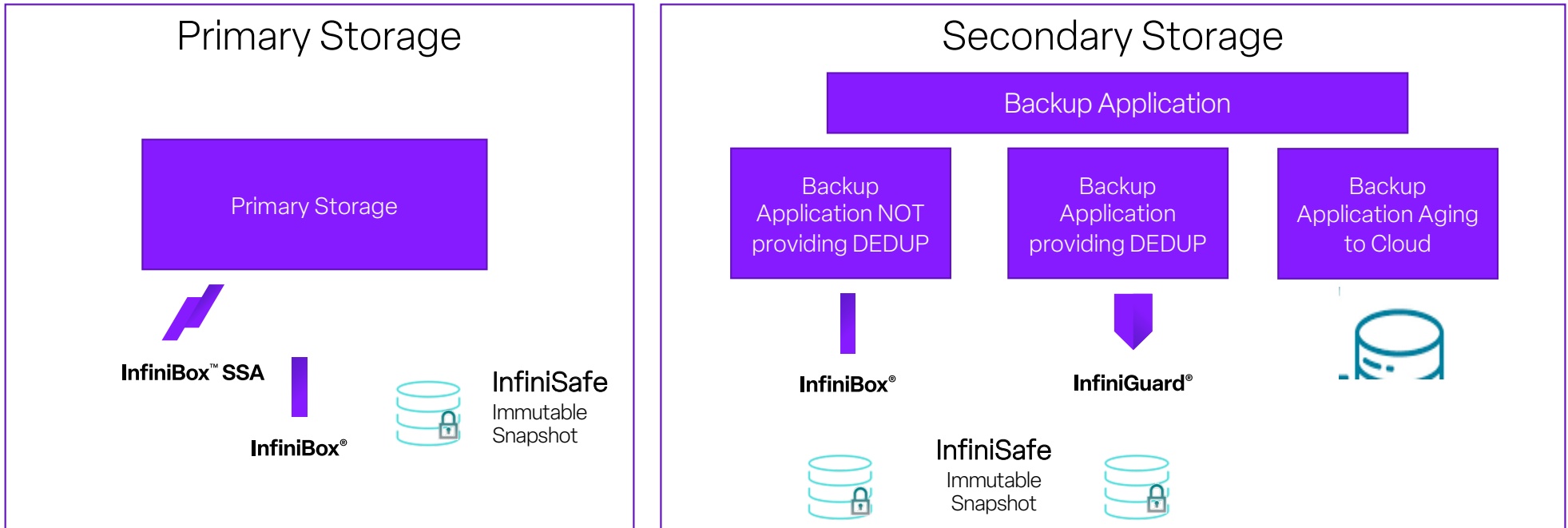
InfiniSafe Cyber Resilience Innovation

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



Cyber Resilient Storage enabled by **InfiniSafe**



InfiniSafe Cyber Storage Resilience Guarantees

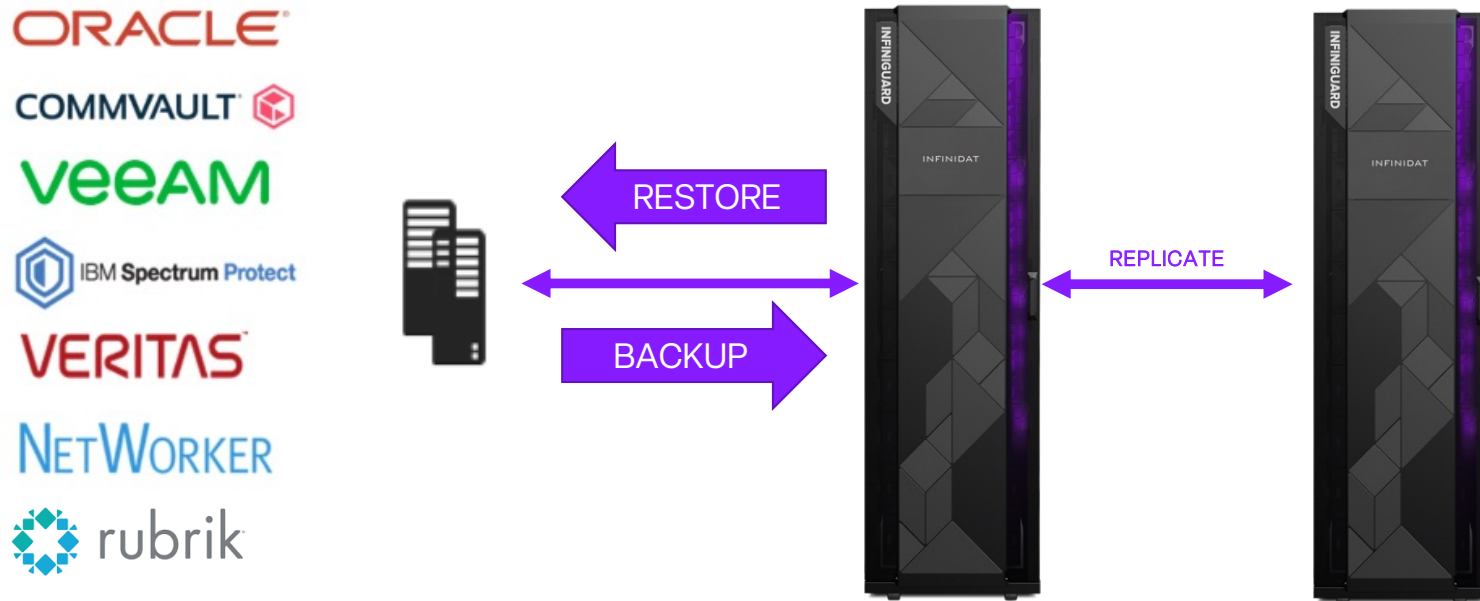
- Guaranteed immutability of InfiniSafe immutable snapshots
- Recovery time guarantee of those immutable snapshots
 - Less than 20 minutes for InfiniGuard
 - Less than 1 minute for InfiniBox SSA II and InfiniBox
 - Regardless of immutable snapshot size

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*

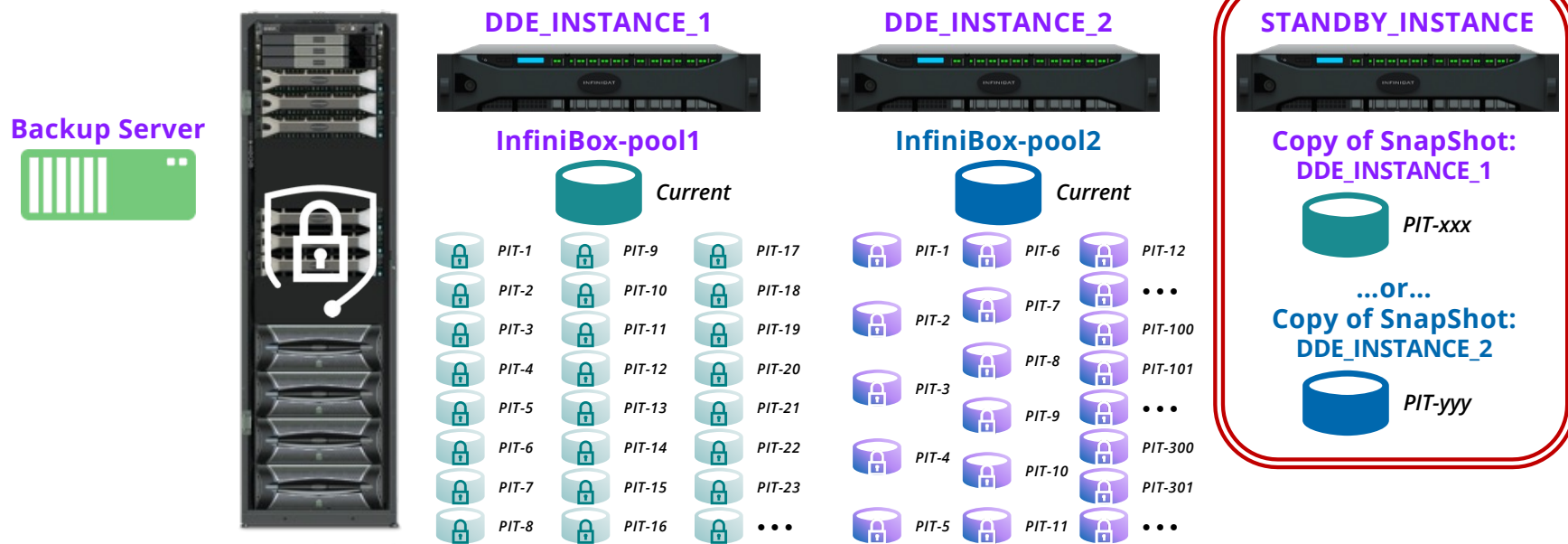
“With their new performance and cyber storage recovery guarantees, Infinidat is breaking new ground in these areas in ways that drive meaningful value for their enterprise customers.” – Vice President IDC



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

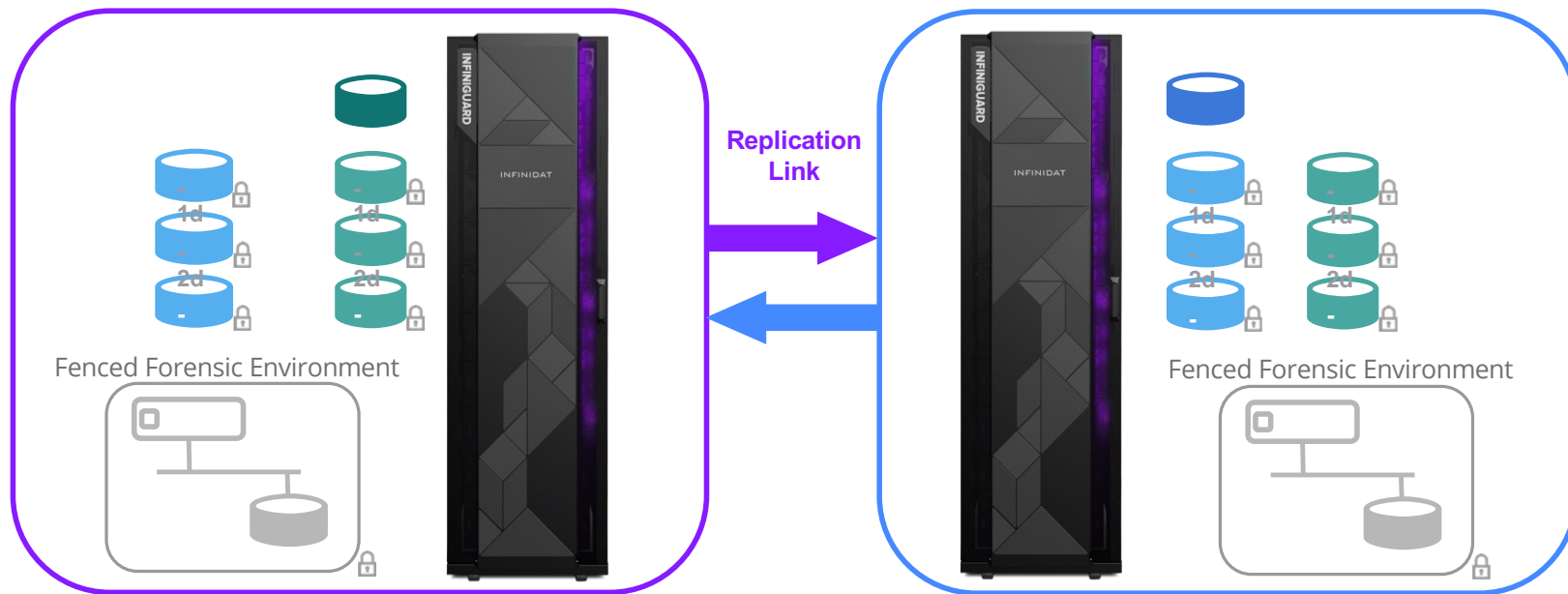
InfiniGuard's InfiniSafe Immutability

- 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

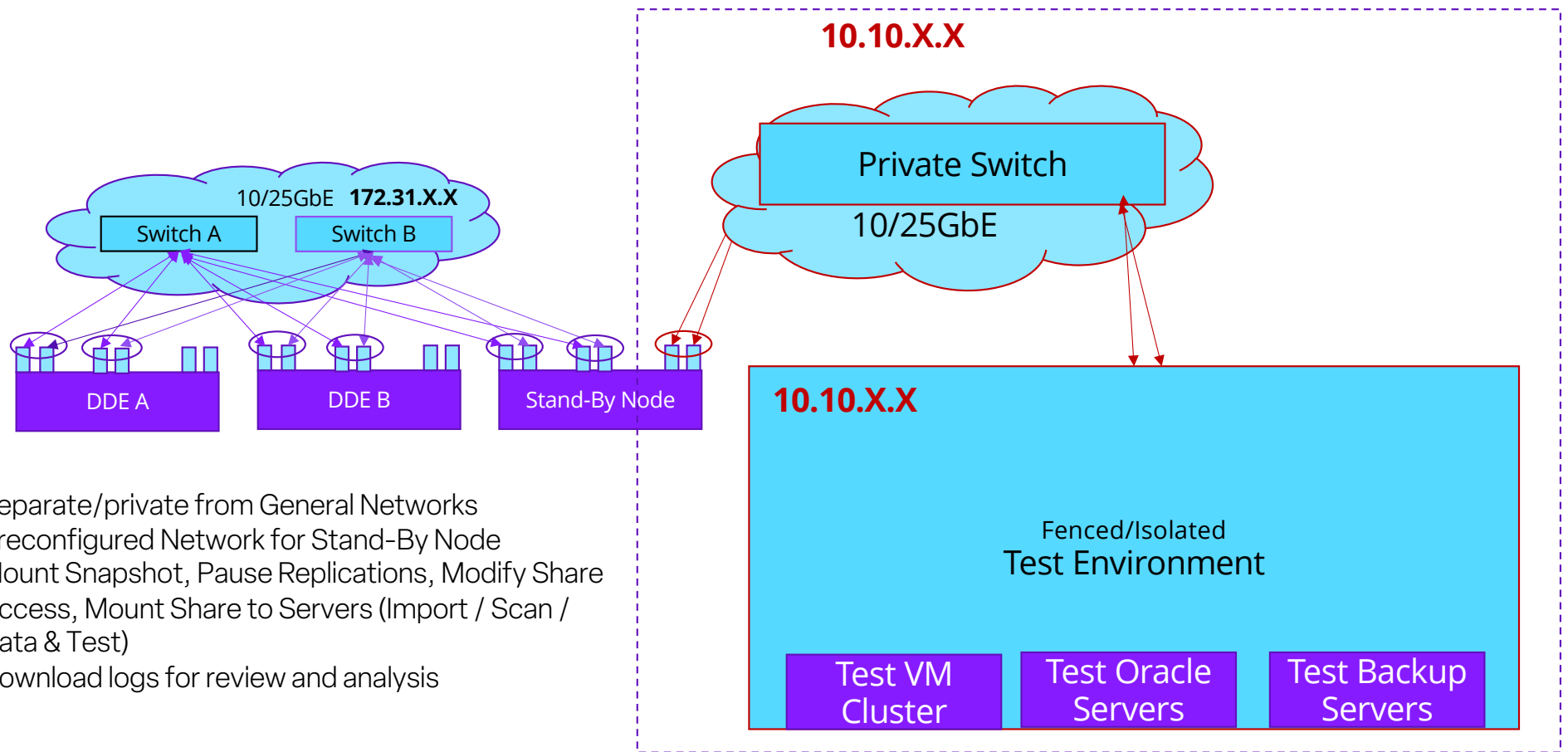


InfiniSafe on InfiniGuard – Logical Remote Air-Gap

- 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.



INFINIDAT

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

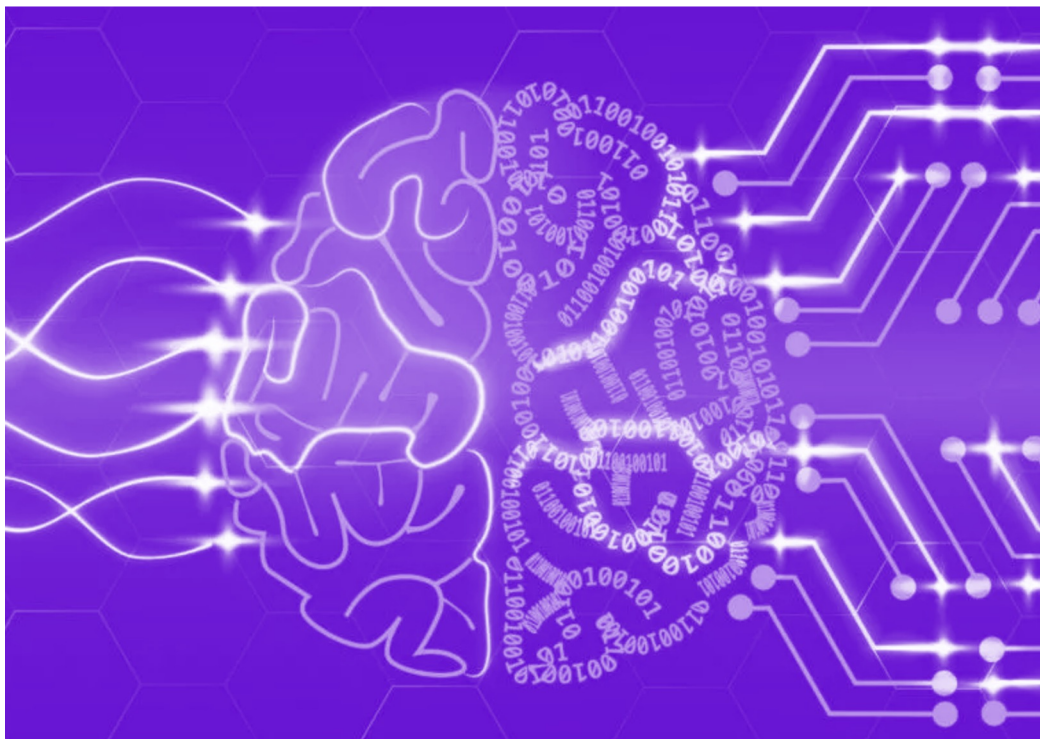
*<https://www.gartner.com/doc/4003861>

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



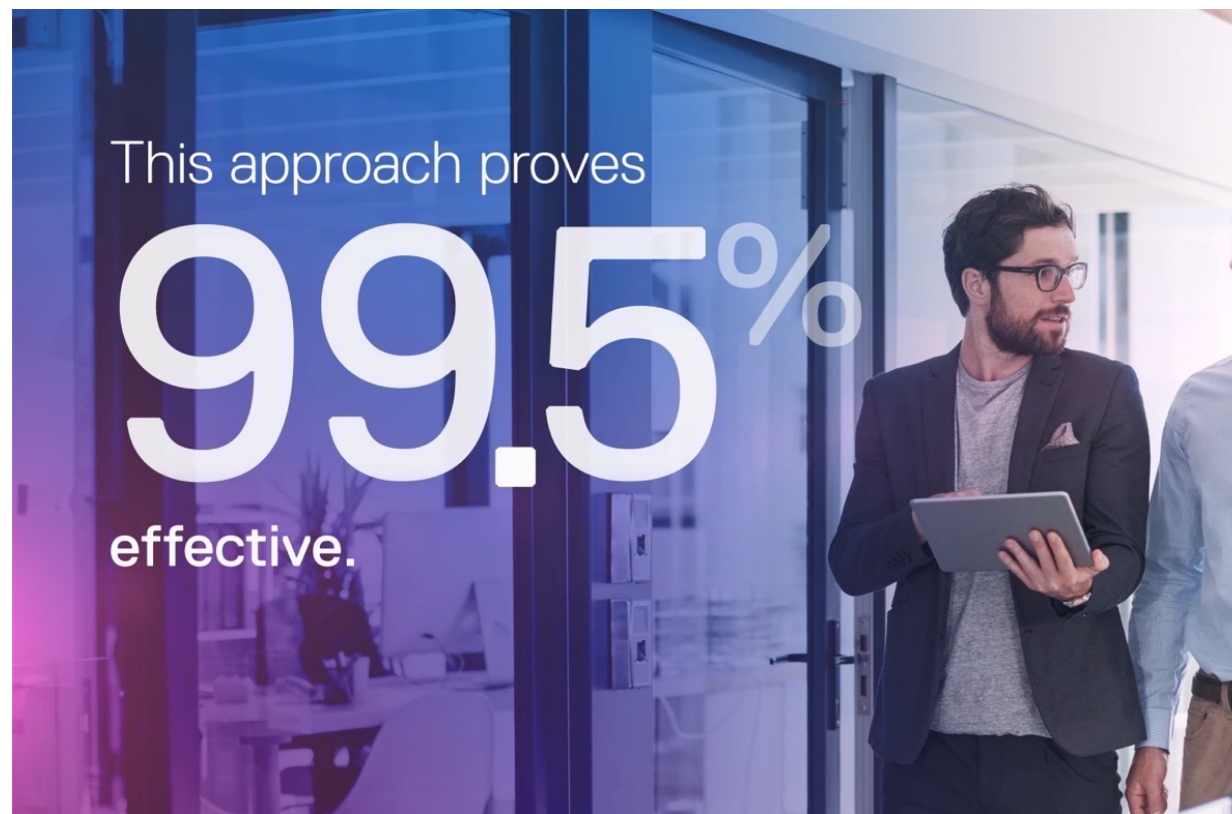
Cyber Detection Machine Learning Model



- 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

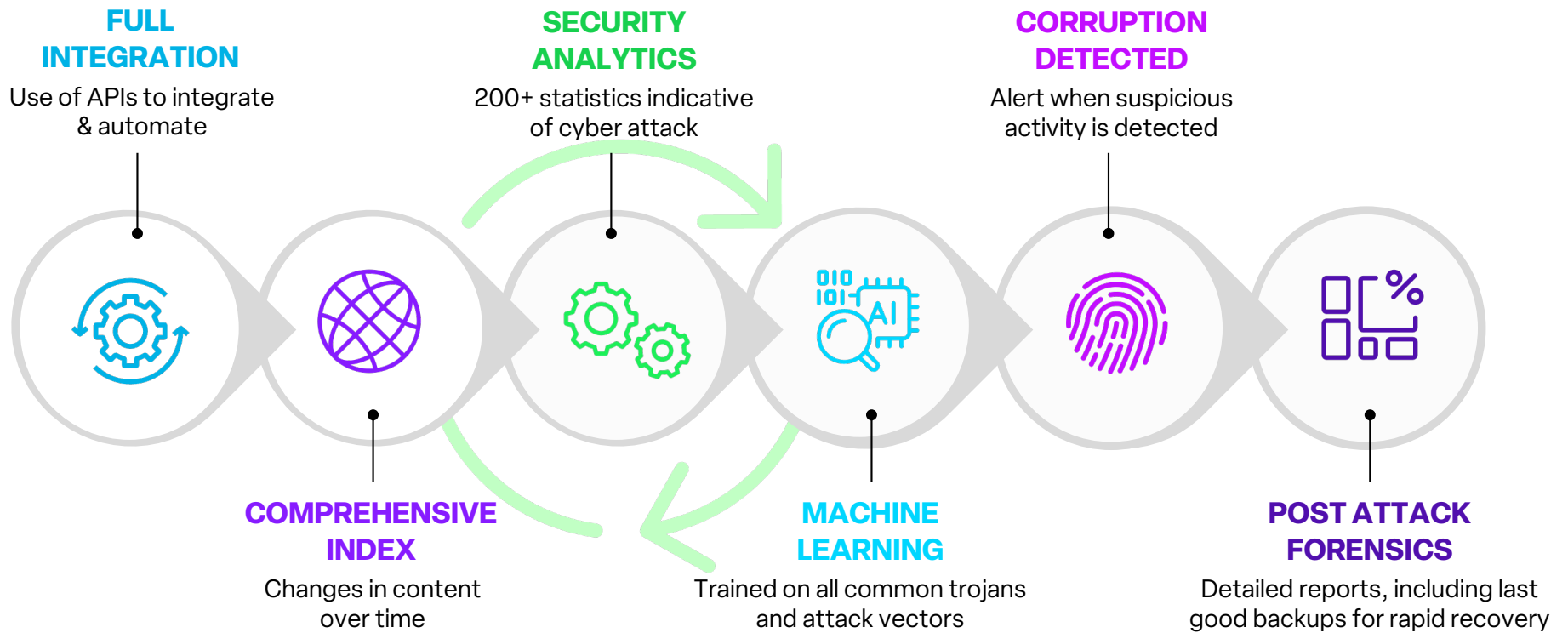
Cyber Detection Machine Learning Model Training

- 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



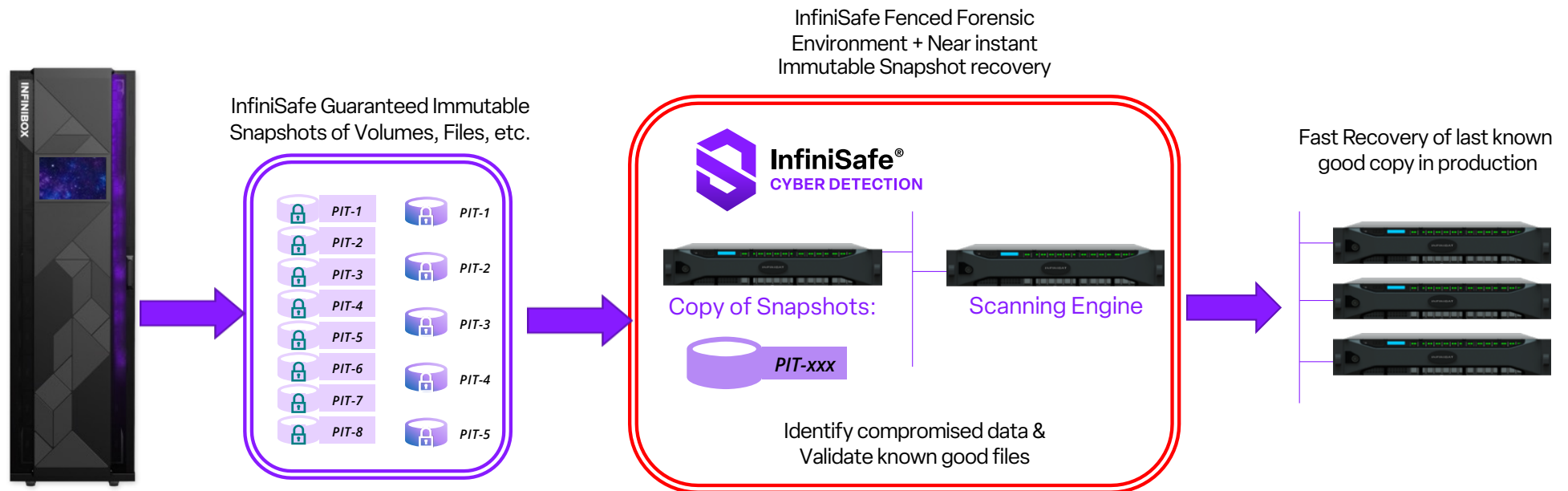
Cyber Detection Workflow

Analytics, Machine Learning and Forensic Tools to Detect and Recover from Cyberattacks



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



Cyber Detect Post Attack Dashboard

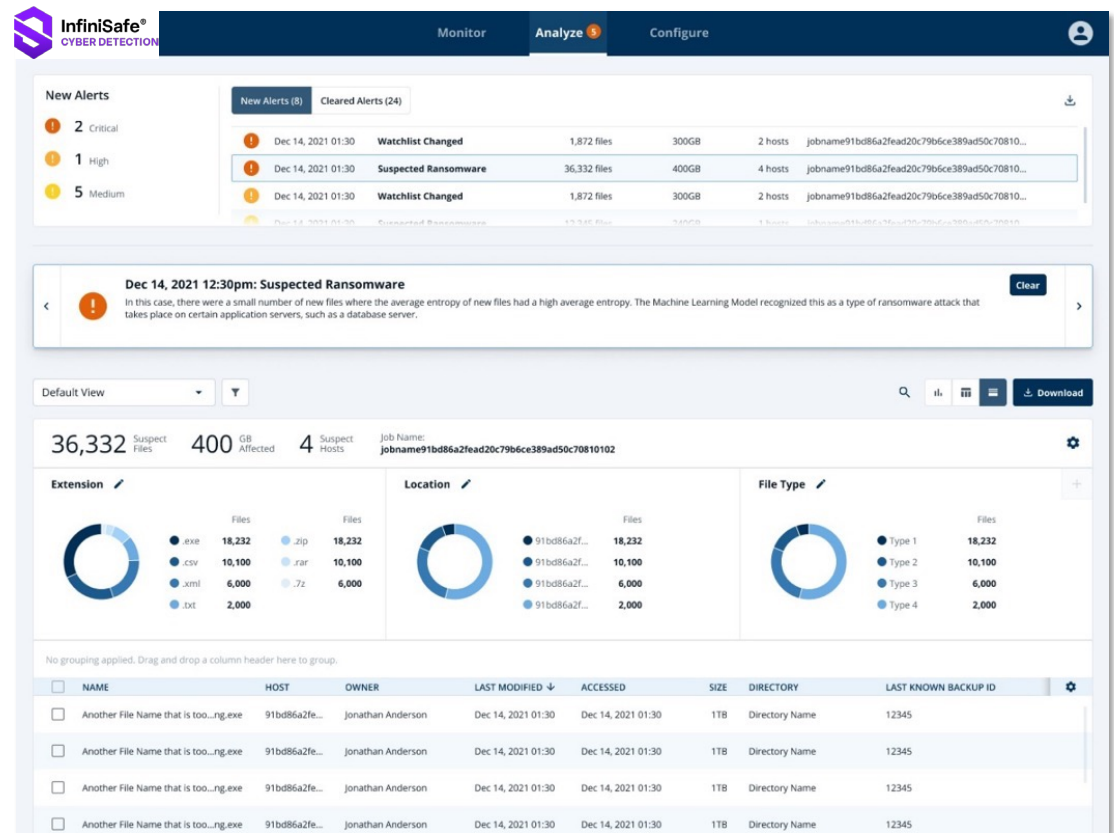
Improved user experience - More insight into data - Intuitive post attack workflow

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*

Gartner Peer Insights reviews constitute the subjective opinions of individual end users based on their own experiences and do not represent the views of Gartner or its affiliates.



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



[Video Webinar](#)



[On-demand](#)

Key Assets:

<https://www.infinidat.com/en/financial-benefits>

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](#)

Contact Us



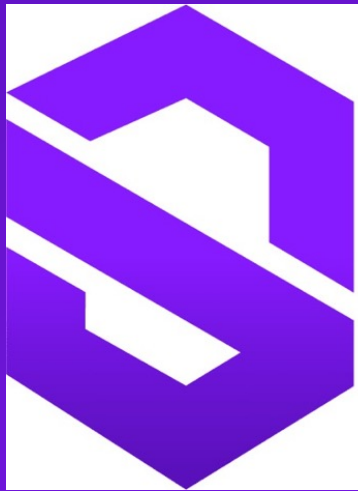
Eric Herzog
Chief Marketing Officer
E-mail: ehertzog@infinidat.com



Lee Bushnell
Channel Manager, UK
E-mail: lbushnell@infinidat.com



Thank You



InfiniSafe[®]
CYBER DETECTION

INFINIDAT