

INFINIDAT

Ensure Rapid Recovery from Cyber Attacks with Infinidat & Veeam

Joe Roa, Infinidat
Steve Firmes, Veeam

December 14, 2022

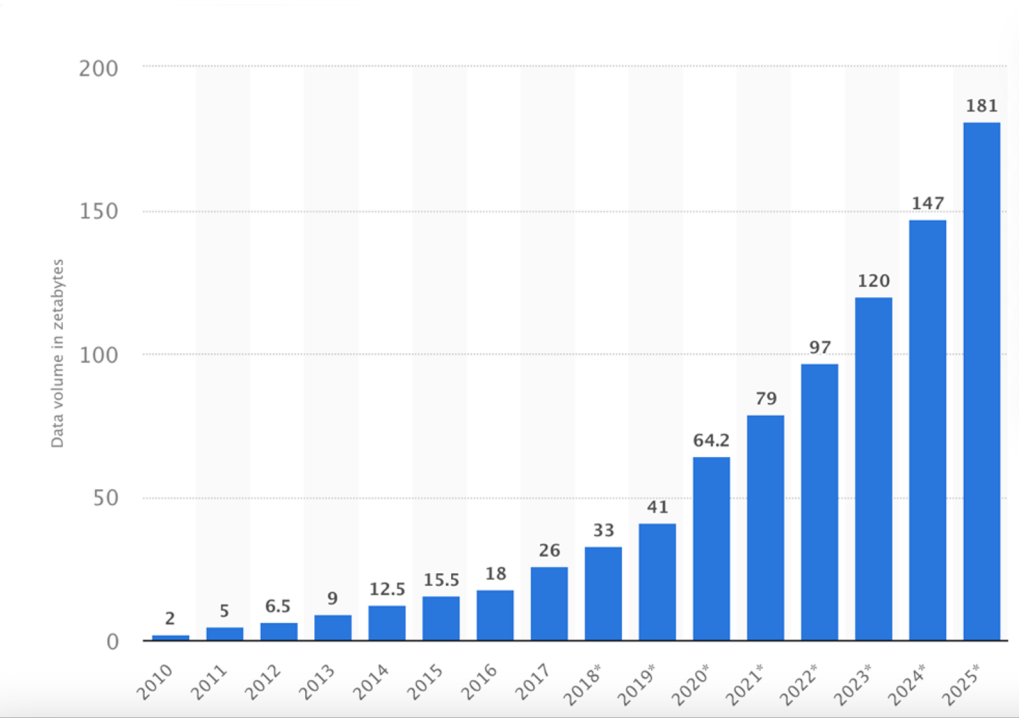
The Standard in Enterprise Storage



Data Growth - Statista

In 2020, Statista reported that the volume of data/information consumed worldwide by 2020 grew to 64+ ZetaBytes, with forecasts from 2021 to 2025 up to 181 ZetaBytes

Clearly the data we need to protect keeps growing.

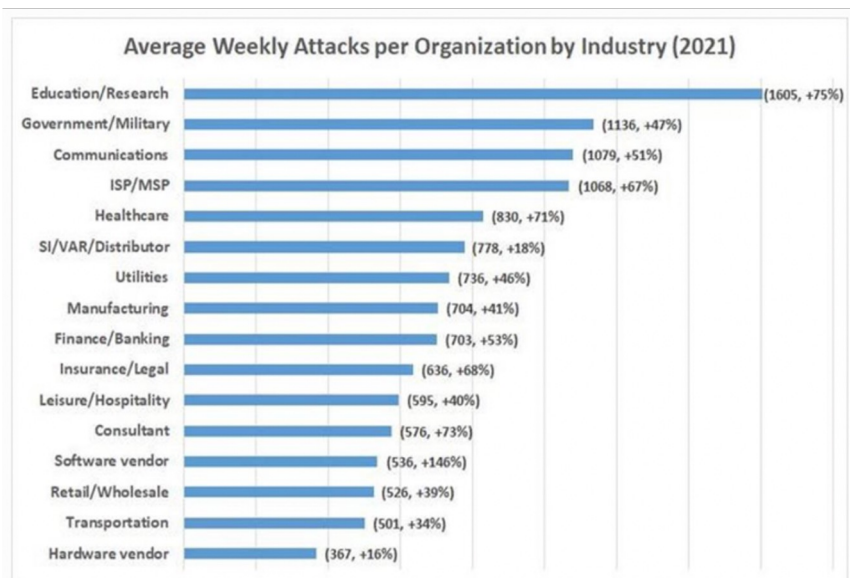


Cybercrime Growth – Forbes & Check Point research

In 2021, the average number of cyberattacks and data breaches increased by 15.1% from the previous year.

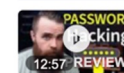
Check Point Research also reported that it found 50% more attack attempts per week on corporate networks globally in calendar year 2021 compared with 2020.

**Corporate Cyber
Attacks up 50%
per week in
2021**



Cyber-attacks per organization by Industry in 2021 CHECK POINT SOFTWARE

YouTube Search Simplicity For the Bad Actors to Exploit



how to HACK a password // password cracking with Kali Linux ...

YouTube · NetworkChuck
Aug 20, 2020



How to Hack Password?

YouTube · Apna College
Feb 19, 2022



how to HACK a password?!

YouTube · Loi Liang Yang
3 days ago

Data Growth Protection Challenge

Data
Growth

Staff
Complexity
Cost & Time

The Response



We need simple and effective solutions that work without breaking the bank.

Veeam Backup & Replication (VBR) - Provides industry-leading Data Protection strategies with fast, simple, advanced data protection tools that address the challenges of the modern, data-centric world.



Infinidat Storage delivers data protection at a massive scale, performance and reliability, with lower cost and complexity.

Maintain Security of the Backup Environment

Backup environments are a major investment for all businesses to ensure data and applications are protected and can be quickly recovered to continue their business and competitive viability.

* All CIO's interviewed agree that Data Protection is a fast-growing cost concern!

These costs include (not limited to):

Data Protection Software
Data Protection Personnel Resources
Data Protection Compute Resources
Data Protection Storage Resources
Data Protection Infrastructure Resources

Resources required to
effectively protect data will
surpass the cost to create it.



Working together to provide the most effective answer to these concerns

The Veeam logo is displayed in white text within a bright green rounded rectangular box. A large, stylized arrow graphic, composed of green and white segments, points from the top-left towards the bottom-right, framing the central text.

veeam

The most trusted
provider of **backup,**
recovery and data
management solutions that
deliver **Modern Data Protection**

Veeam Named a Leader for the 6th time!

Figure 1: Magic Quadrant for Enterprise Backup and Recovery Software Solutions



Source: Gartner (July 2022)

Gartner named Veeam as a Magic Quadrant **Leader for the sixth time** for its highest Ability to Execute and Completeness of Vision

Veeam is a Leader in Enterprise Backup & Recovery Solutions!

#1

Market Share
Worldwide

450K+

customers
worldwide and
counting

200+

top industry awards

DISCLAIMER

Gartner Magic Quadrant for Enterprise Backup and Recovery Software Solutions, Michael Hoeck, Nik Simpson, Jerry Rozeman, Jason Donham, 28th July 2022. Gartner and Magic Quadrant are registered trademarks of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved. This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Veeam. <https://www.veeam.com/2022-gartner-magic-quadrant.html> Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

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Ransomware and Data Security Challenges

Challenges

- ① Effectively restore malware-free data after a ransomware incident
- ② Be able to protect data from malicious attacks, which could impact your company brand
- ③ Slow recovery makes paying a ransom the faster alternative
- ④ Supporting frequently changing regulations and ensuring compliance requirements are met

Solution


Reduce the time and effort it takes to recover ALL data from successful ransomware attacks

Veeam Ransomware and Data Security

Data security

Secure Backup/Secure Restore 

Data locality 

Immutable storage 

Data tagging 

Integration API 

SLA validation 




 Business view

 Monitoring and alerting

 DataLabs™

 Item-level recovery

 Instant recovery

 Orchestration



True immutability allows you to fully protect data from attacks and safely restore malware-free



Secure backup to protect workloads and data and ensure there's no errors through automated testing and verification



Instant recovery, which makes data restoration less expensive than paying a ransom



Orchestration to fully automate and document complex workflows, including non-disruptive, large-scale recovery testing

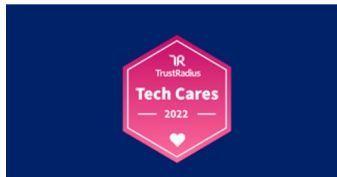
Infinidat Industry Acclaim: 2022



Leader in the 2022 Gartner Magic Quadrant for Primary Storage (2022, 2021, 2020, 2019, 2018)



InfiniBox™ SSA all-flash array Silver Award winner for SearchStorage 2021 Products of the Year Awards for Disk and Disk Subsystems



Winner for exceptional corporate social responsibility



InfiniSafe® solution - WINNER
CRN 2022 Tech Innovator Award - Data Protection Software

InfiniBox™ SSA II - FINALIST
CRN 2022 Tech Innovator Award - Storage Enterprise



TechTarget

InfiniBox™ SSA Named One of the Best Enterprise Storage Arrays of the Year



2022
GigaOm Sonar for Ransomware protection - "Leader" and "Fast Mover"

GigaOm Radar for enterprise Kubernetes storage - Infinidat "Challenger" and "Fast Mover"



Eric Herzog Named One of the Top 10 CMOs of the Year, 2022



5-Star Rating in 2022 Partner Program Guide
One of the 50 Coolest Software Defined Storage Vendors - The 2022 Storage 100
One of the 12 Cool Flash Storage Products 2022
Eric Herzog, CMO, 2022 CRN Channel Chief



2022-2023
One of the Top 5 Storage as a Service Vendor by DCIG



Flash Memory Summit
Most Innovative Hyperscaler Implementation



2022
Phil Bullinger named 1 of top 10 Most Innovative CEOs Revamping the Future
Eric Herzog named 1 of top 10 Most Innovative CMOs



Best Storage Products of 2022
'Best in SANs for enterprises' for Subsystems



2022
Hybrid Storage Vendor of the Year
Runner-up for Immutable Storage Company of the Year



2022
1 of the top 10 Flash Storage Solutions Providers in APAC



Chief Data Officer Magazine named Ken Steinhardt, Field CTO, one of the Top 125 "Leading Data Consultants in North America, 2022

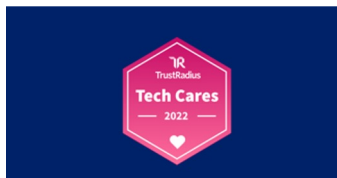
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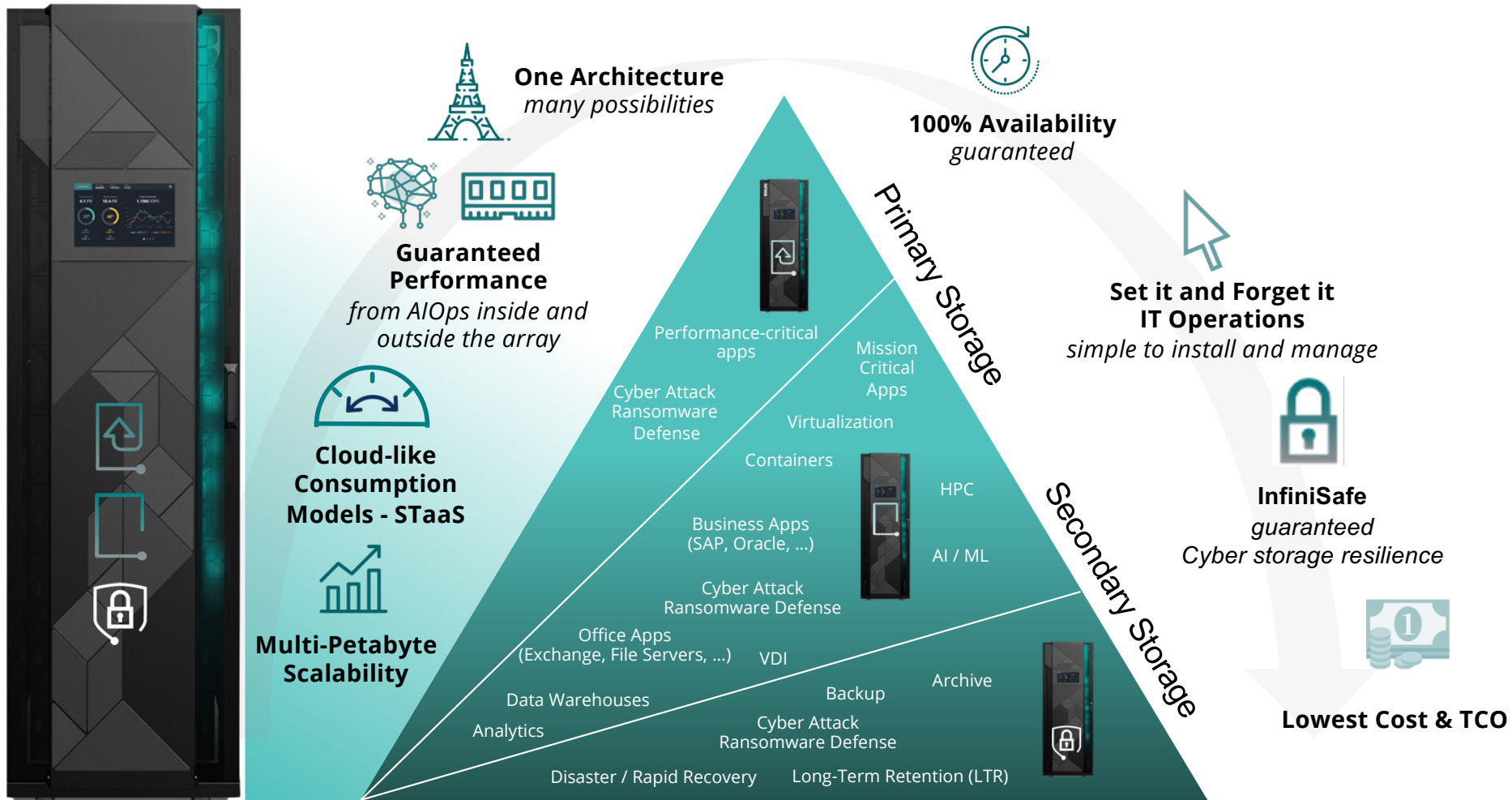


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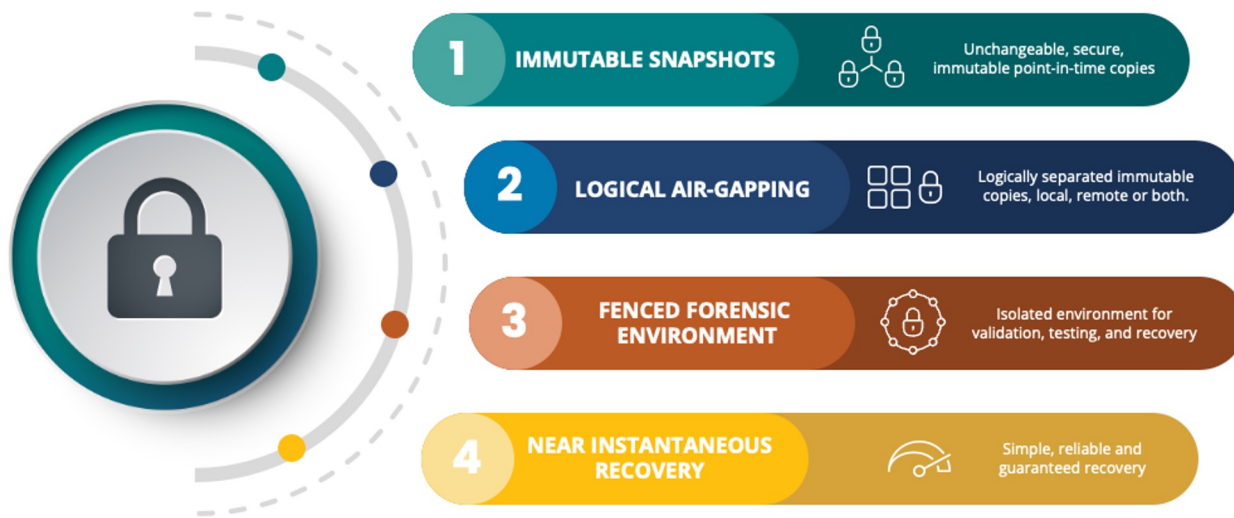


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Broad Enterprise Use Cases and Guaranteed SLAs



InfiniSafe - Cyber Storage Resilience



InfiniSafe on InfiniBox

- InfiniSafe Cyber Storage Guaranteed SLAs
 - Guaranteed Immutability of Snapshots
 - Recovery of those Immutable Snapshots in 1 Minute or less

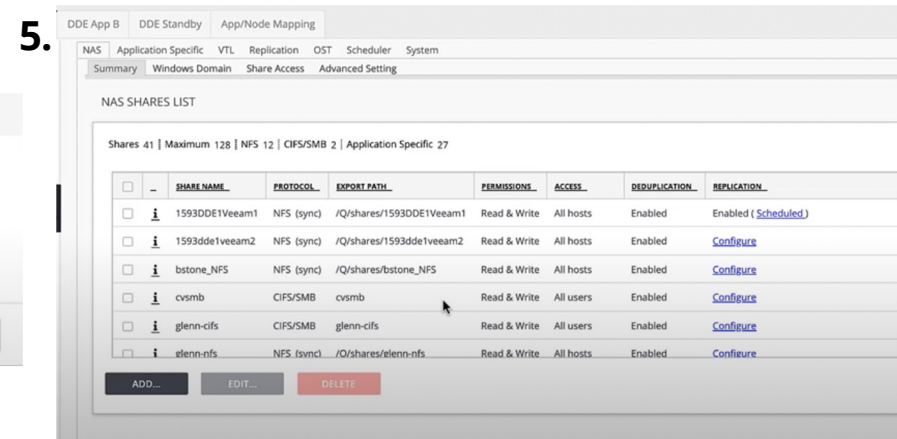
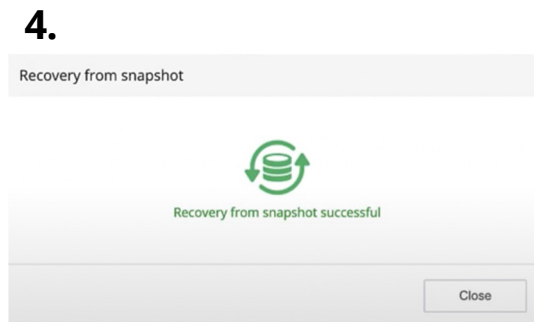
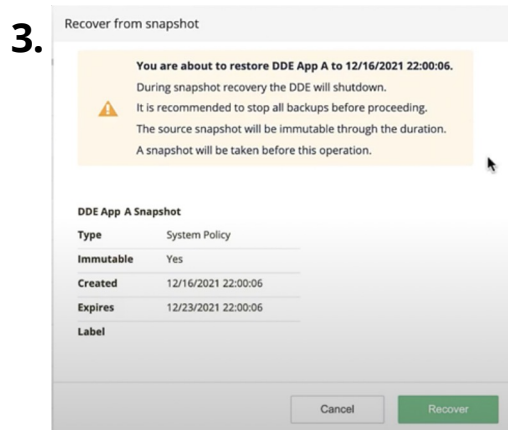
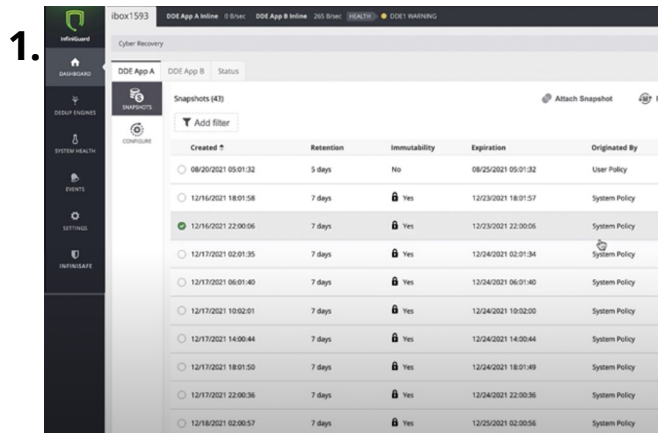
InfiniSafe on InfiniGuard

- InfiniSafe Cyber Storage Guaranteed SLAs
 - Guaranteed Immutability of Snapshots
 - Recovery of those Immutable Snapshots in 20 Minutes or less
- Dedicated InfiniGuard capacity
 - Extended immutable snapshot retention time doubled (60 days)

InfiniSafe – Near Instantaneous Recovery

Easy and Fast

- ONLY 1 InfiniBox needed - No data movement required
- Reduced CAPEX and OPEX
- Simplifies entire forensic and recovery process
- Simple mount to the standby DDE taking only minutes
- Rapid accessibility to entire backup dataset – up to PBs
- No capacity size penalties
- DDE operating environment is protected and available

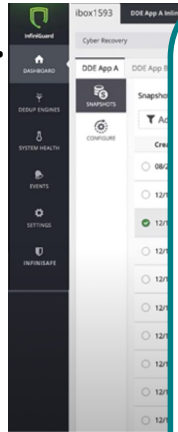


InfiniSafe – Near Instantaneous Recovery

Easy and Fast

ONLY 12 minutes and 55 seconds required

1.



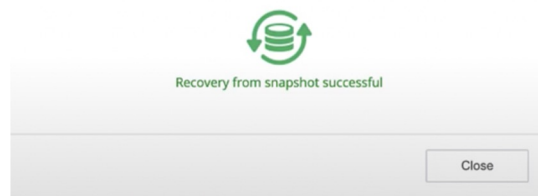
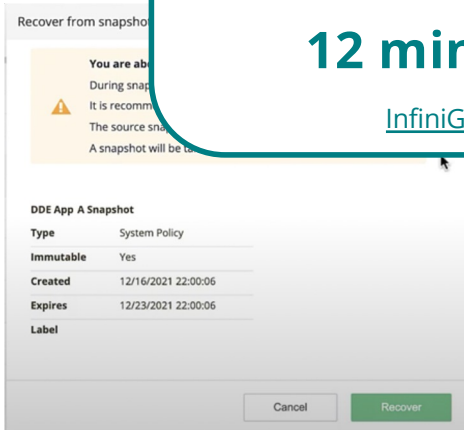
Recovery Time Objective (RTO) is the *most critical metric* for cyber recovery and business continuance



13PB Veeam backup dataset recovered in ONLY 12 minutes and 55 seconds!

[InfiniGuard live demonstration, October 2022](#)

3.



	SHARE NAME	PROTOCOL	EXPORT PATH	PERMISSIONS	ACCESS	DEDUPLICATION	REPLICATION
<input type="checkbox"/>	1593DDE1Veeam1	NFS (sync)	/Q/shares/1593DDE1Veeam1	Read & Write	All hosts	Enabled	Enabled (Scheduled)
<input type="checkbox"/>	1593dde1veeam2	NFS (sync)	/Q/shares/1593dde1veeam2	Read & Write	All hosts	Enabled	Configure
<input type="checkbox"/>	bstone_NFS	NFS (sync)	/Q/shares/bstone_NFS	Read & Write	All hosts	Enabled	Configure
<input type="checkbox"/>	cvsm	CIFS/SMB	cvsm	Read & Write	All users	Enabled	Configure
<input type="checkbox"/>	glenn-cifs	CIFS/SMB	glenn-cifs	Read & Write	All users	Enabled	Configure
<input type="checkbox"/>	elenn-nfs	NFS (sync)	/Q/shares/elenn-nfs	Read & Write	All hosts	Enabled	Configure

InfiniBox + InfiniGuard + Veeam

Benefits

1,000's of Application Servers

- Servers run Faster
- Servers run more Reliably
- Servers provision and grow with simplicity



10GbE / 25GbE Ethernet

FC Fabrics

- Block & File Simplicity
- Penalty-free Snapshots
- Efficient Compression & Replication



InfiniBox Storage

Best Primary Data Replication in the industry (+ Immutability)

InfiniSafe Protected

Veeam Backup & Replication Server

- Runs Faster
- Runs more reliably on InfiniBox



Veeam Snapshots w/ InfiniBox Plugin
instant, penalty-free snapshots drive backups
• Supported Path to Cloud with VBR 11 (or later)

Policy Burden
Reduction
Dedup on Target

Path to Cloud (w/ Veeam)

Turnkey Storage Solutions
All Inclusive Pricing
Groundbreaking Performance
100% Availability Guaranteed
Visionary simplicity for enhanced data protection

Veeam Proxy Servers

- Runs Faster
- Runs more reliably on InfiniBox



10GbE / 25GbE

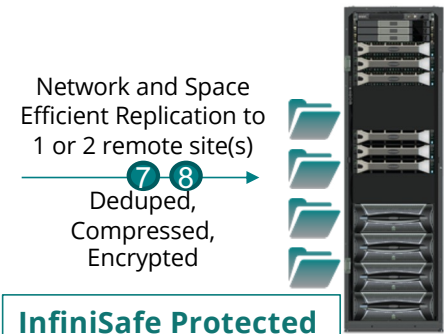
Mounted NetBoost device integration to Veeam From InfiniGuard (NetBoostFS)

Primary Data Site
InfiniGuard

Secondary Site
InfiniGuard

- Faster Primary Data & Backup
- Faster Restores (many ways to recover)
- Shrinking Backup Windows
- Extreme Reliability (Best in Industry)
- Deployment Simplicity
- Capacity Efficiency
- Massive Scale (non-disruptive growth)
- Flexible Cost Saving Models
- Strength in Partnership
- Unrivalled Support Reputation
- Protecting 10's of thousands of servers

Space Reduction Managed at Target Device
Better (variable block) Reduction Rates



Cyber Recovery
Immutable Snapshots
& Trusted Copy to Vault

Maintain the Security of Data in the Backup Environment



Best Software
Best Storage
+ Best Practices
= Best Strategy

Best in Class Software to protect enterprise workloads

Best in Class Storage to secure the state and efficiency of the protected data

Providing methods for exercising data protected without impact to production services.

Immutable protection that ensures unmodifiable protected data with minimal impact to performance, capacity, complexity and cost.

Best in Class Strategy for data recovery that meets RPO /RTO objectives at massive scale.

Enable Rapid Analysis and Recovery Following a Cyber Event

Our goal is Data Protection and Storage with rapid capture, replication, and recovery.

Infinidat Storage with Veeam VBR provides an ability to instantaneously recover data “penalty-free” from immutable snapshot technology and effectively stream recovery operations with advanced software validation.

Leveraging **Veeam VBR + Infinidat Storage** technologies.



Open the Q&A

Q&A

Info@infinidat.com for more information!

THANK YOU!



INFINIDAT

SCALE TO WIN