

INFINIDAT

The Standard in Enterprise Storage

Recovery After a Cyberattack in Seconds – Guaranteed!

IDC Middle East CIO Summit 2024

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22 February 2024



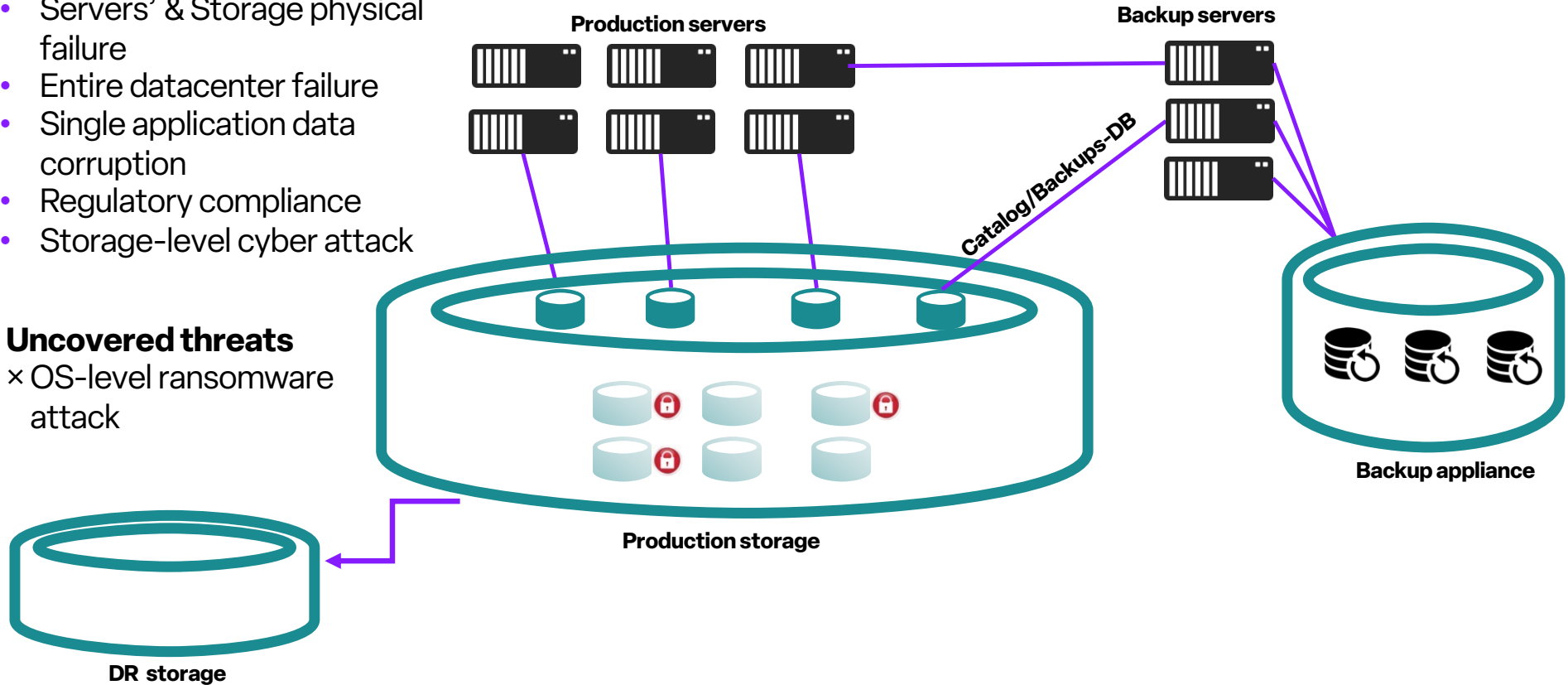
The Data Center

Covered threats:

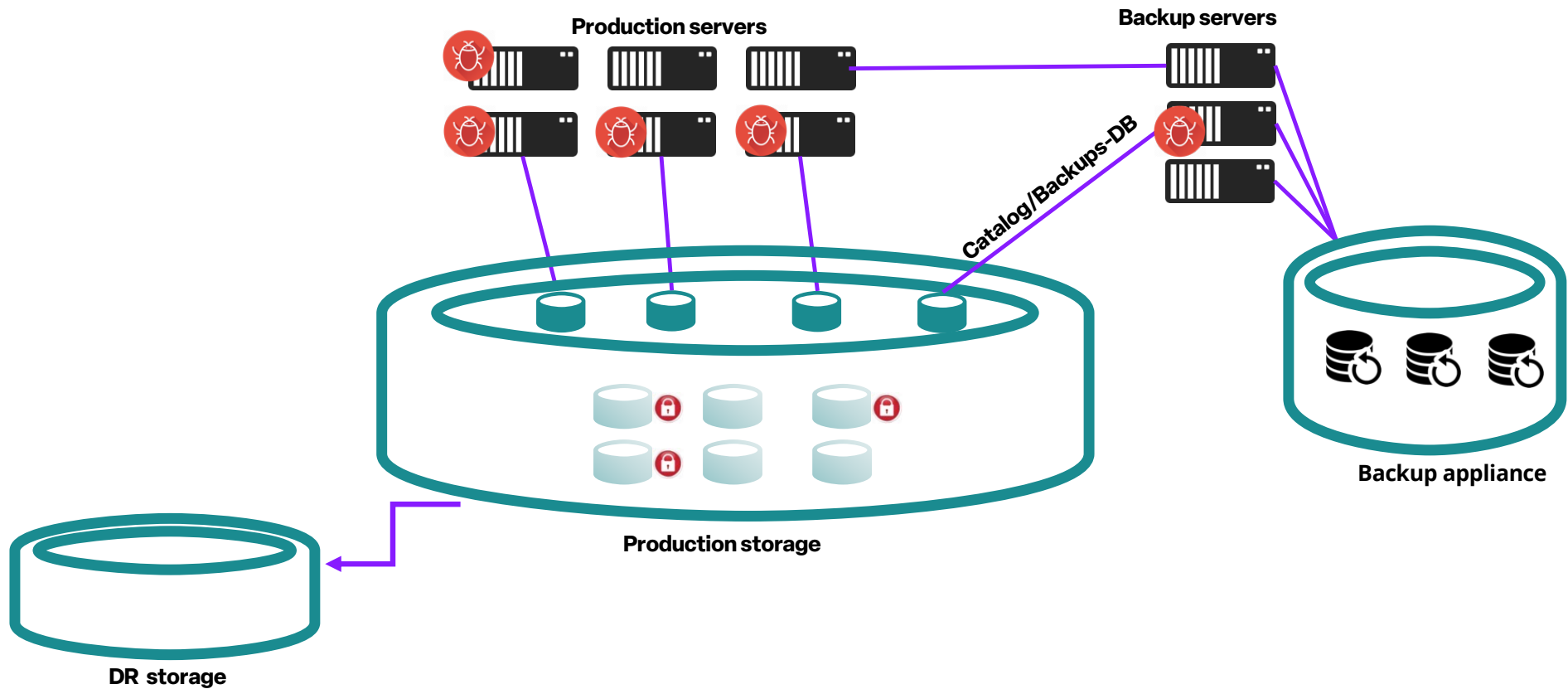
- Servers' & Storage physical failure
- Entire datacenter failure
- Single application data corruption
- Regulatory compliance
- Storage-level cyber attack

Uncovered threats

× OS-level ransomware attack



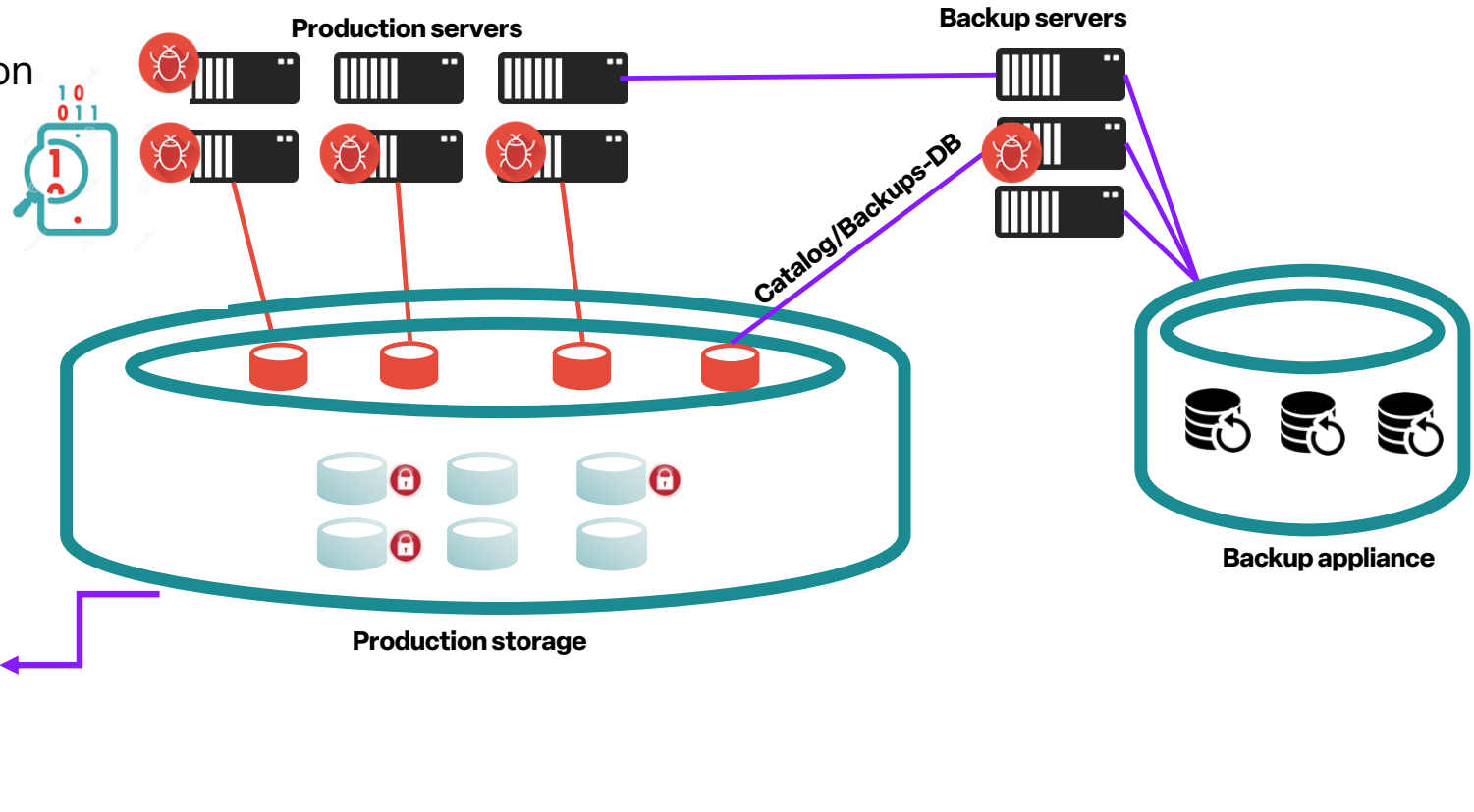
Cyber attack flow – land and expand



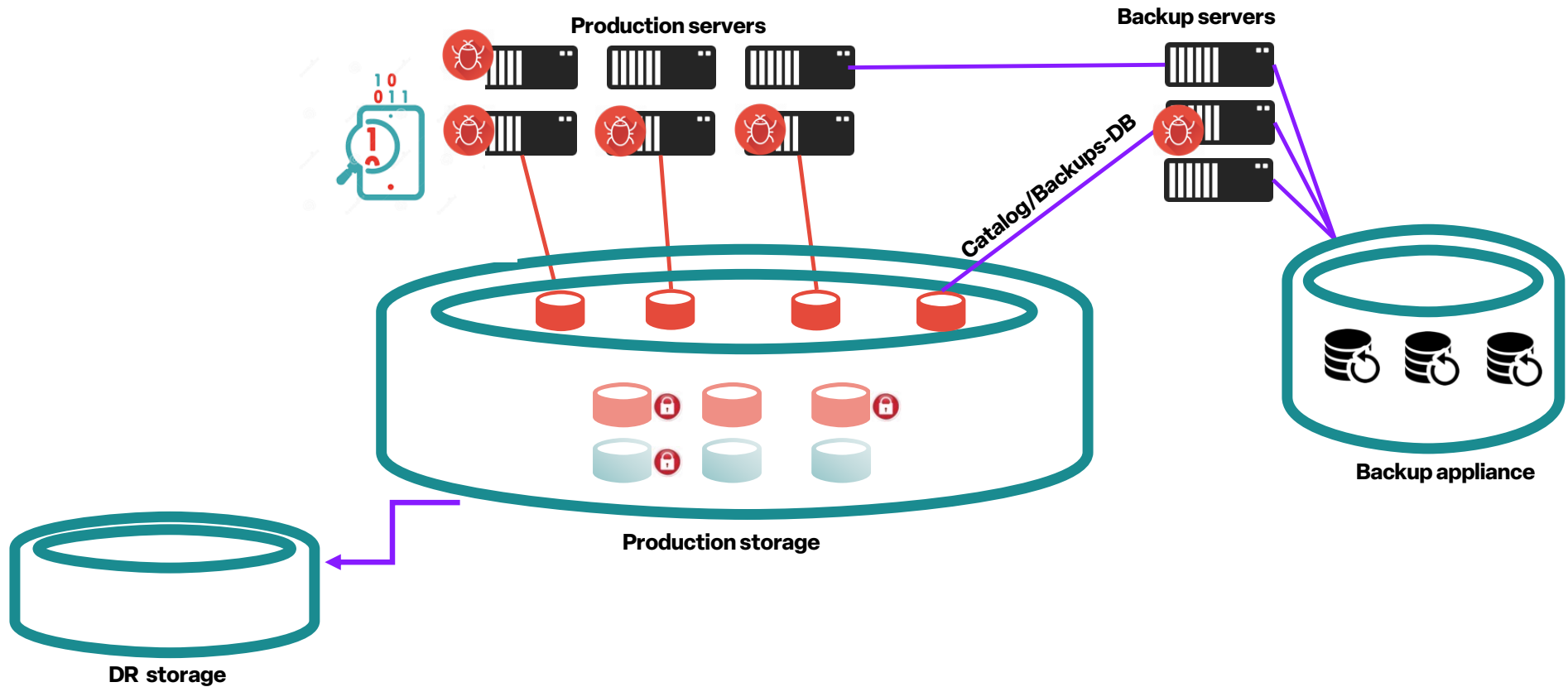
Cyber attack flow – encryption on the servers' level

Data on storage is already pre-encrypted

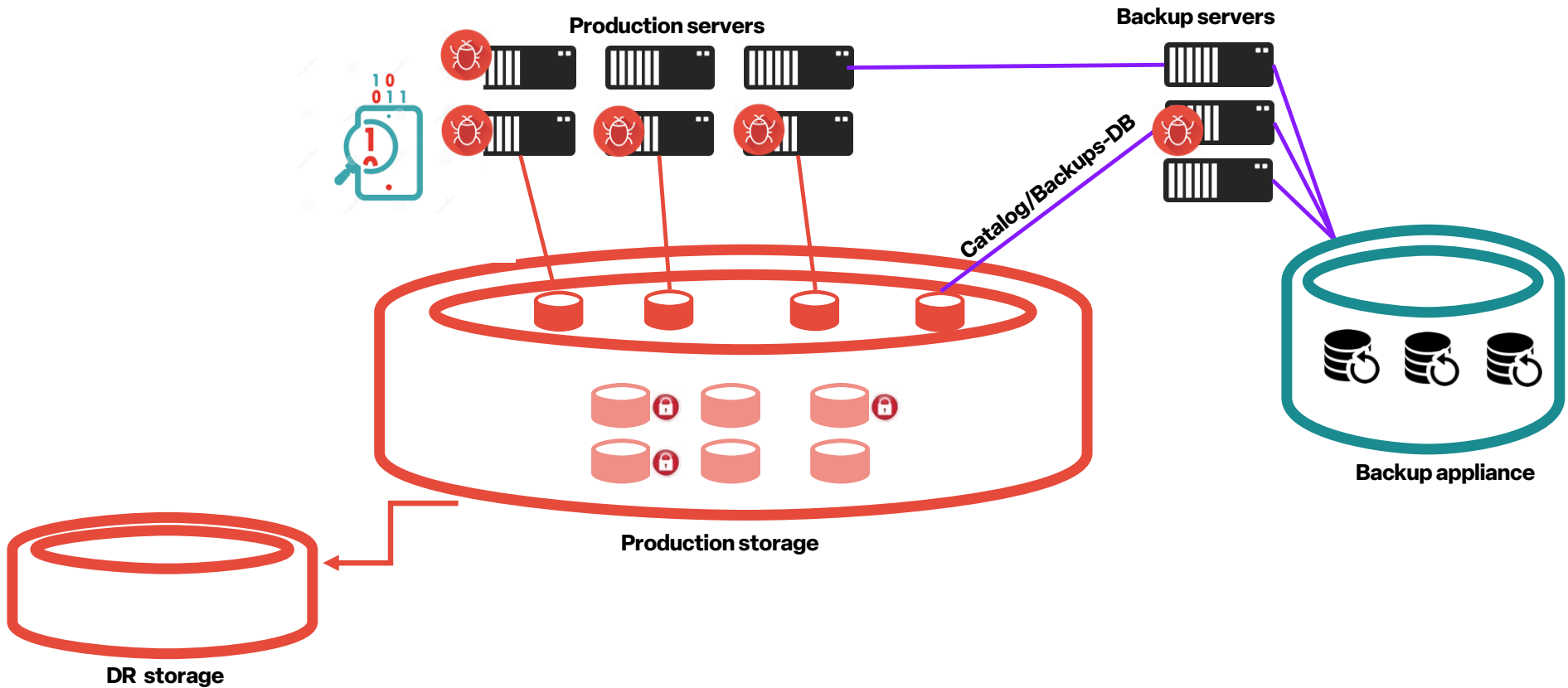
- Data is encrypted on the servers' level
- Virus encrypts
- Data-writes
- Staying hidden by decrypting read requests data



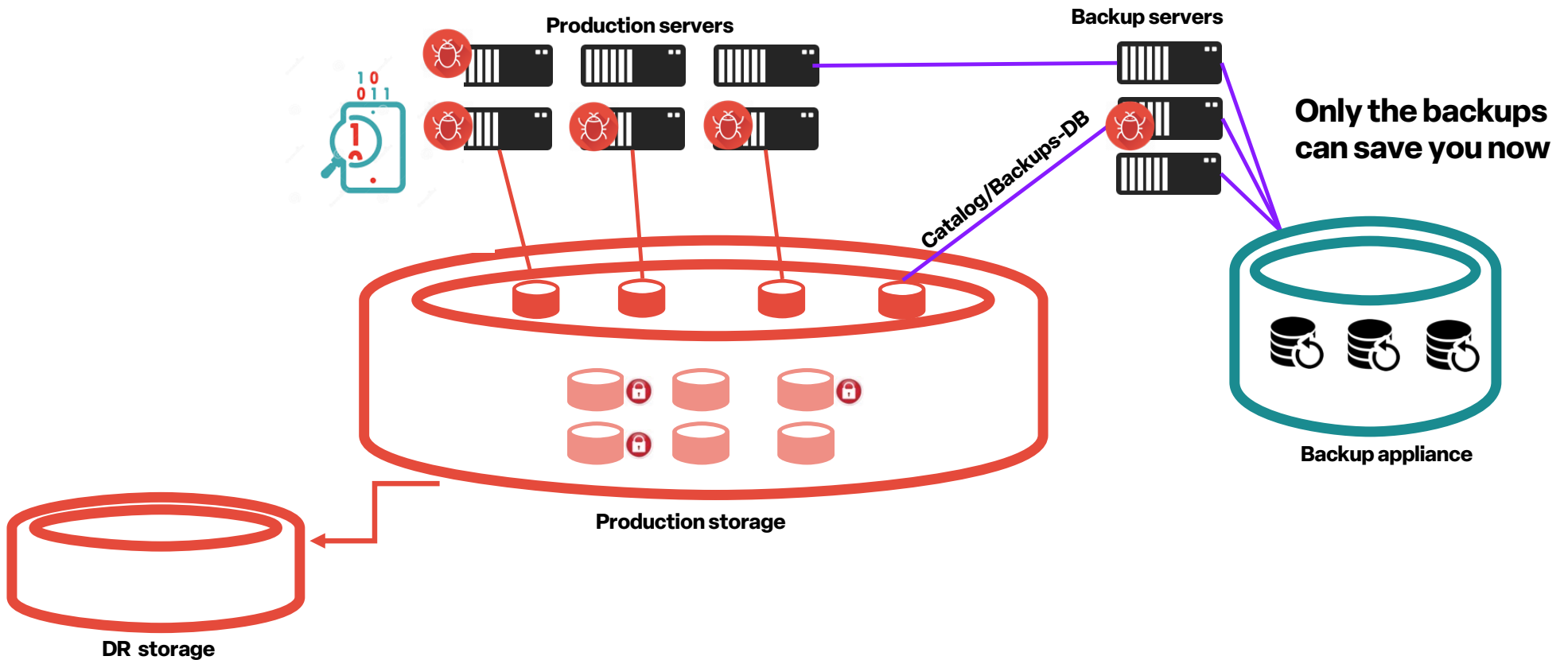
Cyber attack flow – new snapshots hold encrypted data



Cyber attack flow – replicated data is also compromised

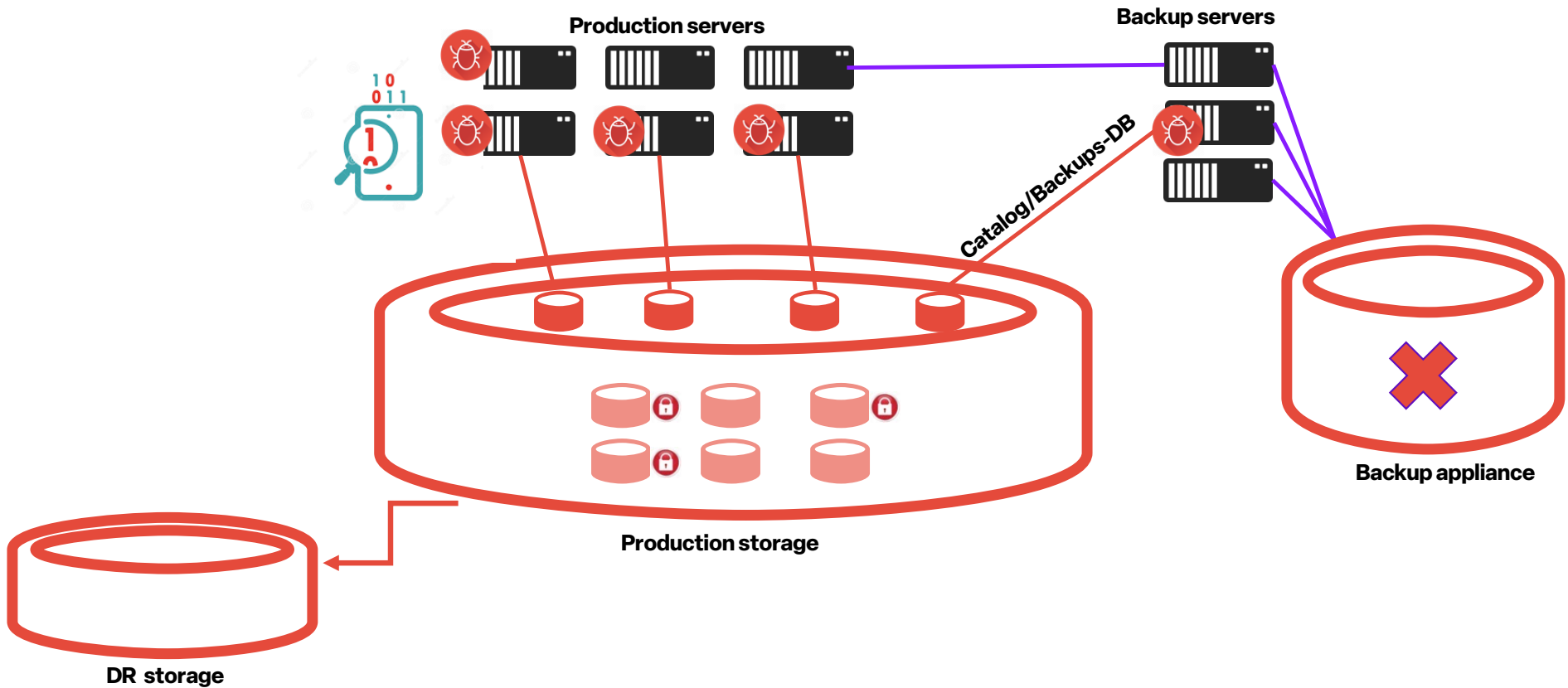


Cyber attack flow – The backups are still valid!



Cyber attack flow – The checkmate

Invalidate backups and ask for ransomware money





Home > Block > Infinidat gets kudos for block array ransomware protection



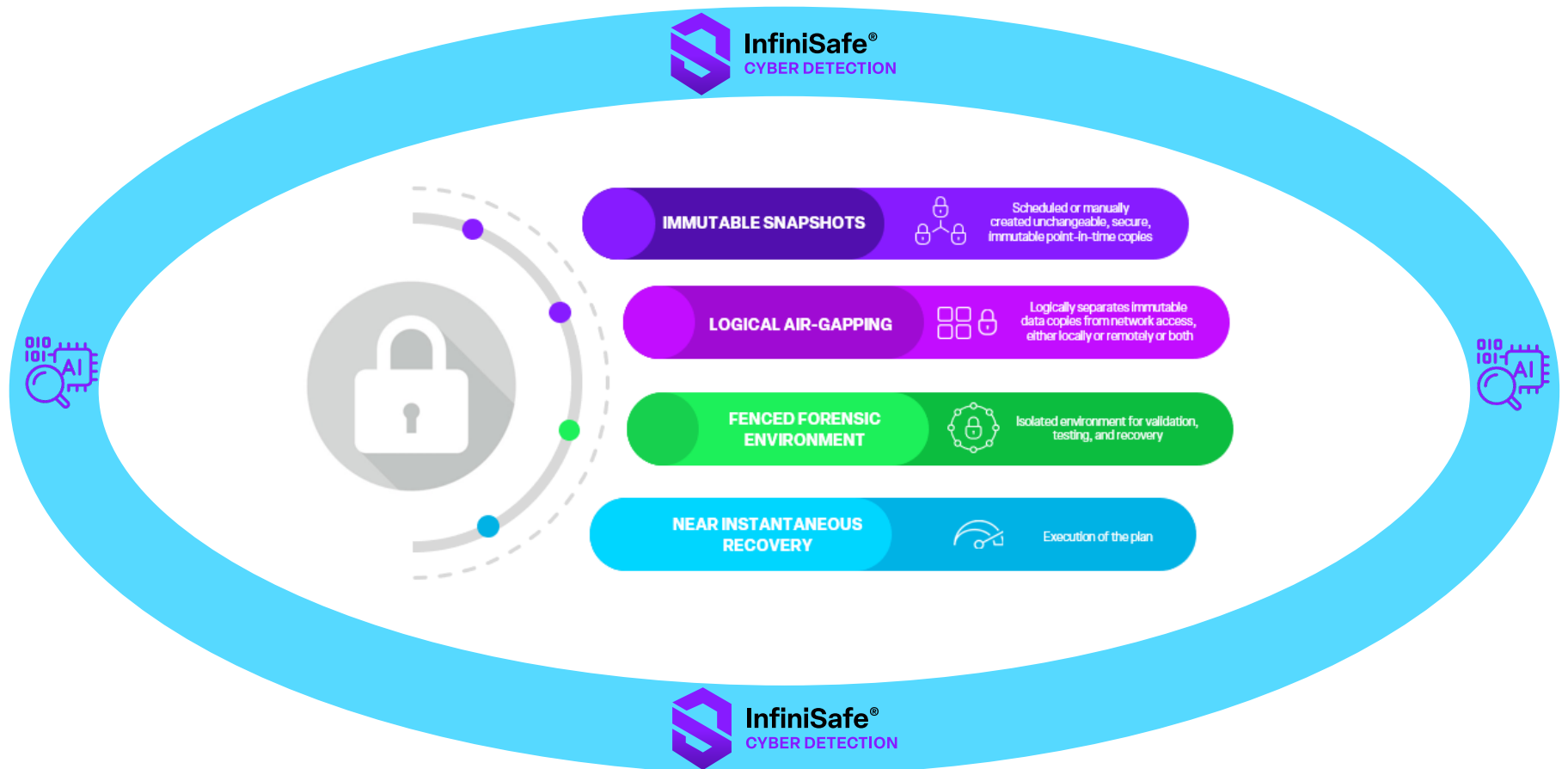
Block Data Protection Disk Flash

Infinidat gets kudos for block array ransomware protection

By **Chris Mellor** - September 15, 2022

- **Infinidat**. High-end storage producer
- From **2011**
- ML-trained cache software, the **Neural Cache** (advanced “ChatGPT” inside)
- **60-70%** sales in USA
- **100+** patents for the storage technology

Silver bullets: InfiniSafe Cyber Storage Resilience + Cyber Detection!



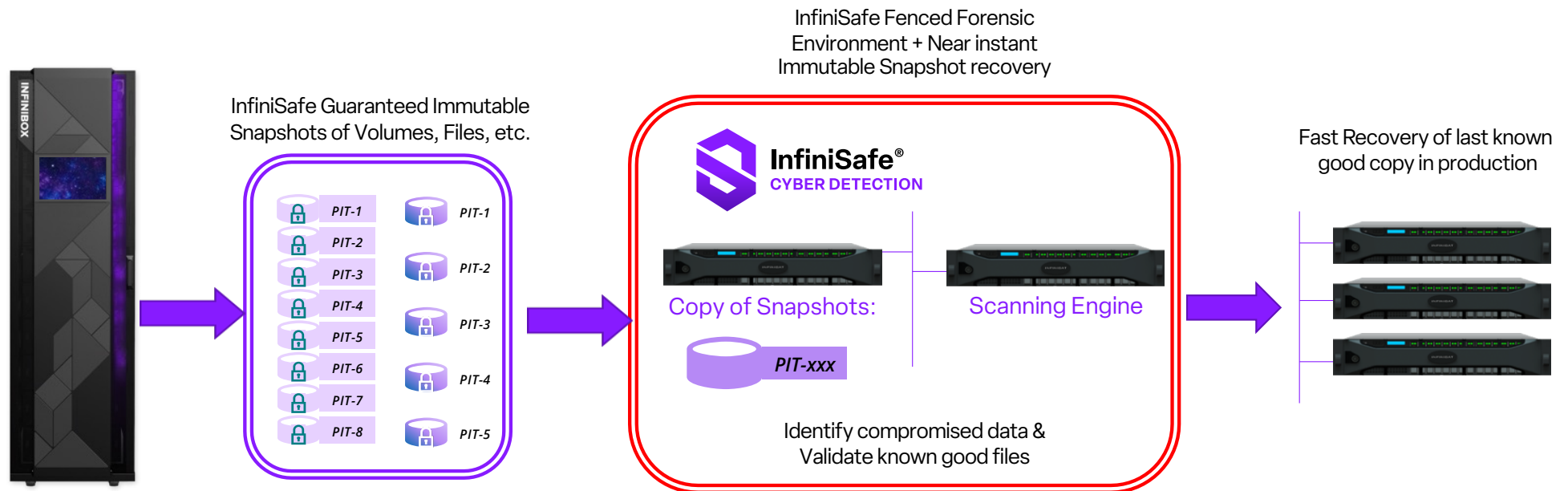
Infinidat Guarantees it for the storage!



- **InfiniSafe Cyber Storage Guarantee**
 - First primary storage platform cyber storage guarantee
 - Guaranteeing the immutability of our immutable snapshots
 - Guaranteeing the near instantaneous recovery of an immutable snapshot at:
 - 1 minute or less with InfiniBox

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



Cyber Storage Resilience

INFINIDAT Products Solutions Resources Partner Company Support [Request a Demo](#) [Contact Us](#)

Cyber Resilience: Infinidat Has Your Back

The question is not if you will suffer a cyberattack, but when. Ensure the continuity of your business with comprehensive, enterprise-class, cyber-resilient storage and modern data protection.

[Learn More](#)

[Overview](#) [Cyber Storage](#) [Cyber Detection](#) [Cyber Storage Guarantees](#) [More Protection](#) [Resources](#)

Cyber Storage Resilience Powered by InfuzeOS™

Cyber resilience is a fundamental characteristic of InfuzeOS, our unique software-defined storage architecture with built-in technologies that protect and add cyber resiliency for your data. InfuzeOS powers all Infinidat platforms, providing robust capabilities that help protect, defend, and quickly recover your data.

Primary Storage

Whatever the threat—ransomware, natural disaster, systems failure, human error—Infinidat has your primary storage covered with cyber resilient solutions that provide a first line of defense and facilitate fast recovery.

Secondary Storage

Infinidat goes beyond traditional backup, restore, and disaster recovery to help enterprises avoid ransomware and other cyberattacks with our powerful, enterprise modern data protection with built-in cyber resilience solutions.

<https://www.infinidat.com/en/cyber-resilience>

Cyber Storage Resilience

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SOLUTION BRIEF

InfiSafe® Cyber Detection

The impact of cybercrime is expected to cost businesses 8 trillion USD\$ per year.¹ Every 39 seconds, there is a new attack somewhere on the web.² The costs to a business include damage and destruction of data, lost productivity, theft of intellectual property, theft of personal and financial data, embezzlement, etc. Along with the post-attack disruption to the business, you have forensic investigation, detection and restoration of hacked data and systems, and loss of trust and reputation. Most security and IT teams feel that it's a matter of time before they have a cyberattack. Are you prepared?

InfiSafe technology provides a multi-layered cyber stack for the creation of cyber storage resilient environments with the InfiBox® and InfiBox™ SSA platforms.

The introduction of InfiSafe Cyber Detection, enhances Infinidat's cyber storage resilience and response capabilities by enabling the security and IT teams to detect ransomware and malware attacks with up to 99.5% accuracy, and enable near instantaneous recovery of data from clean "known good" copies on the InfiBox and the InfiBox SSA platforms.

systems failure, human error—Infinidat has your primary storage covered with cyber resilient solutions that provide a first line of defense and facilitate fast recovery.

disaster recovery to help enterprises avoid ransomware and other cyberattacks with our powerful, enterprise modern data protection with built-in cyber resilience solutions.

INFINIDAT

Overview Resources

<https://www.infinidat.com/en/cyber-resilience>

Online payment system, USA

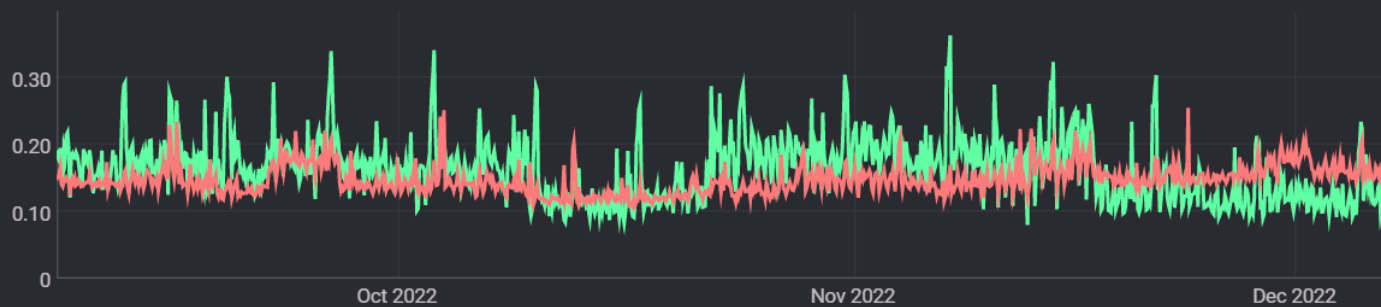
- **200+** mln users globally
- **2018** first project with Infinidat
- **16** systems
- **+3** systems at 2022-23
- **>20PB**, 50% systems bigger than 1 PB
 - 4 arrays are used for mission-critical SAP HANA
 - 3 arrays are used for Oracle running on Oracle Enterprise Linux

“Professional Services team has just completed migration from XtremIO. In about a month they managed to cutover 70TB of VMware (more than 30 clusters, one of which is a 14 node cluster) spanning two XtremIO arrays to Infinidat, plus lots of additional VMotion capacity. At this point we have replaced HDS, XIO, Pure and NetApp at <Customer>”.

Electric cars producer, USA

first deal - 2017
1PB InfiniBox

INTERNAL VS. TOTAL LATENCY



2022-12-07 22:00:00

- Read - total
- Read - internal **0.16**
- Write - total
- Write - internal **0.16**

READ CACHE PERFORMANCE



2022-12-07 22:00:00

- SSD hit ratio **6.4%**
- RAM hit ratio **93%**

Infinidat is the Foundation for



- **100%** of BT Internal Cloud storage runs on Infinidat
- **122** Infinidat systems deployed, running BT GS (Cloud), BT-TV, EE (Mobile), OpenReach & PlusNet (Broadband), BT.com, Radianz (Financial), Network Cloud (OpenStack)
- Simplified architecture
- Infinidat **Neural Cache** architecture favored
- Moving to 100% Infinidat for core backend infrastructure



Infinidat Drives Dramatic CAPEX and OPEX Savings

\$167K
Yearly
Benefit/PB

48%
Reduced
OPEX

11 Month
Payback on
Investment

51%
More efficient
storage
management

\$41.6K
OPEX Reduction/PB



[Video Webinar](#)



[On-demand](#)

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

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Ask live demo:



InfiniSafe[®]
CYBER DETECTION

