



CYBERSTORAGE

**We stop ransomware attacks on unstructured data
in less time than it takes to read this sentence**

About the Speaker



Jonathan Halstuch
RackTop Systems | CTO
20+ years DoD IC

Cyber Offense
Data Systems
Mission Infrastructure

Storage systems are a hacker's paradise.

Security products protect the network. But the bad guys steal data, not the network.

What's protecting the data?



According to Gartner, “Network-attached storage (NAS) and scale-out file system storage provides inadequate protection from malicious deletion or encryption of data. Cyberstorage provides active defense against cyber attacks on unstructured data.”

View complimentary Gartner research and learn more about RackTop Systems’ unique features, among other provider offerings, at <https://resources.racktopsystems.com/gartner-research>.

Gartner disclaimer

Gartner, Hype Cycle for Storage and Data Protection Technologies, 2021, Julia Palmer, 22 July 2021

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Hype Cycle for Storage and Data Protection Technologies, 2021

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By Julia Palmer

This Hype Cycle evaluates storage and data protection technologies in terms of business impact, adoption rate and maturity level to help infrastructure and operations leaders build adaptable, scalable and efficient storage and data protection platforms for changing business needs.

Strategic Planning Assumptions

By 2025, 40% of infrastructure and operations (I&O) leaders will implement at least one of the hybrid cloud architectures, which is an increase from 15% in 2021.

By 2025, 70% of IT storage engineers will shift and expand their skills and job responsibilities from solely managing storage arrays.

By 2025, more than 40% of enterprise storage will be deployed at the edge, which is an increase from 15% in 2021.

By 2025, at least 75% of enterprises will face one or more ransomware attacks, representing at least a sevenfold level of incidence, compared with 2021.

Analysis

What You Need to Know

The storage and data protection market is evolving to address new challenges in enterprise IT infrastructures. Exponential data growth, changing demands for skills, rapid digitalization and globalization of business, requirements to connect and collect everything, and the expansion of data privacy and sovereignty laws are demanding changes in storage platforms and operational models. Requirements for adaptable, robust, scalable, simple and performant storage are on the rise. Data centers are no longer the epicenters of data. Hence, IT leaders expect storage to evolve from delivery by rigid appliances in core data centers to flexible storage platforms capable of enabling hybrid cloud data flow at the edge and in the public cloud.

Here, Gartner has assessed 22 of the most relevant storage and data protection technologies that IT leaders must evaluate to address the rapidly evolving needs of the enterprise.

For more information about how peer infrastructure and operations (I&O) leaders view the technologies aligned with this Hype Cycle, see [2021-2023 Emerging Technology Roadmap for Large Enterprises](#).

The Hype Cycle

IT leaders responsible for storage and data protection must cope with the changing requirements of digital business, exponential data growth, introduction of new workloads, and the desire to leverage public and hybrid cloud that include core-to-edge capabilities. This research informs I&O leaders and infrastructure technology vendors about innovative storage technologies that are entering the market, and illustrates how Gartner evaluates highly hyped technologies or concepts and how quickly enterprises are adopting them.

IS THIS CONTENT HELPFUL TO YOU?

☐ YES ☐ NO

Learn how Gartner can help you succeed

[Become a Client](#)



BrickStor SP is a Cyberstorage solution for unstructured data.

The last line of defense for unstructured data

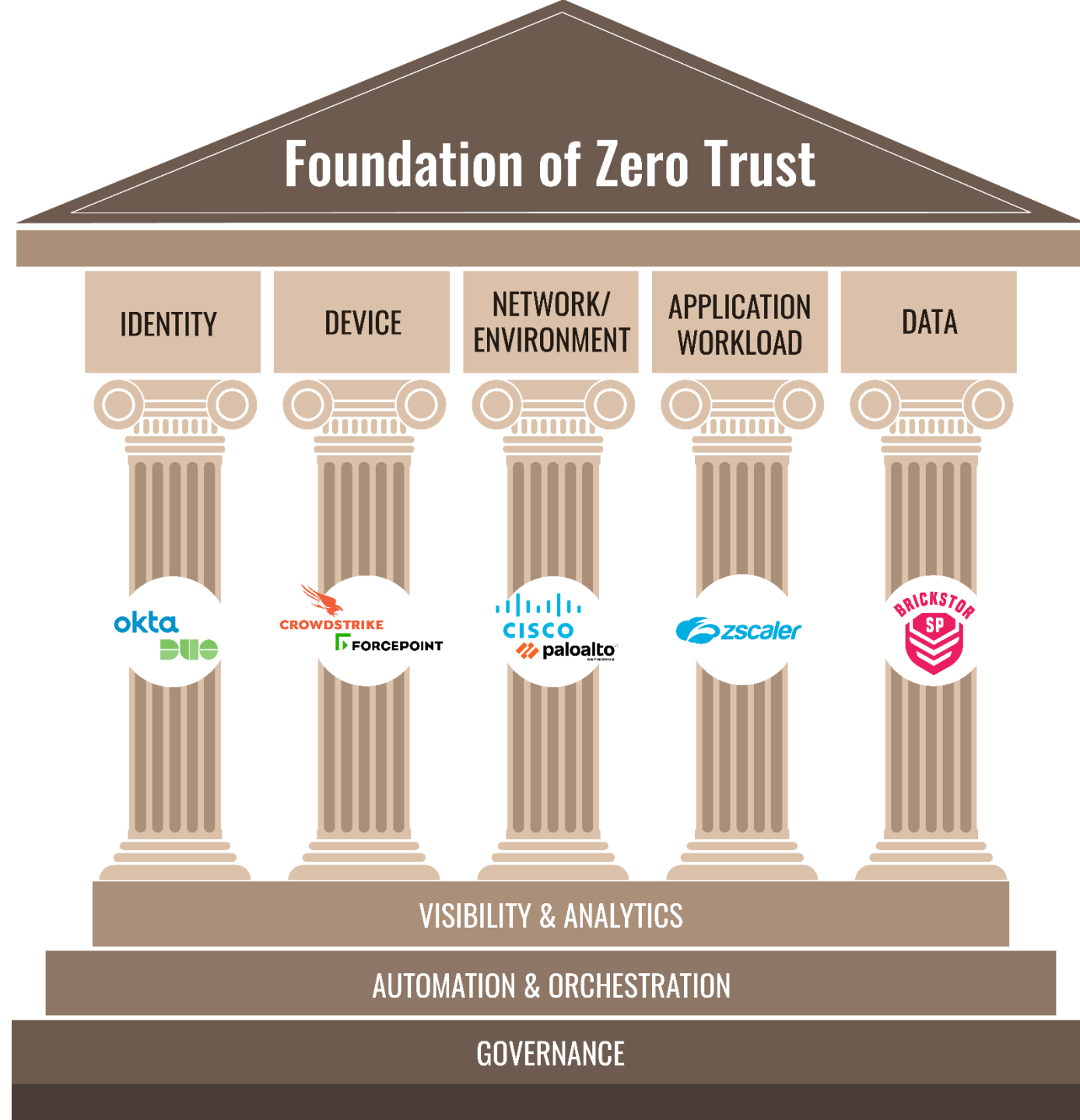
The only end-to-end Cyberstorage Solution

- Active security detects & stops live ransomware attacks
- Stop insider threats, data theft & spillage
- Agentless real time user and entity behavior visibility and analytics
- Instantly recover files affected by attacks
- Audit-ready compliance reporting
- SW-defined NAS, flexible deployment options

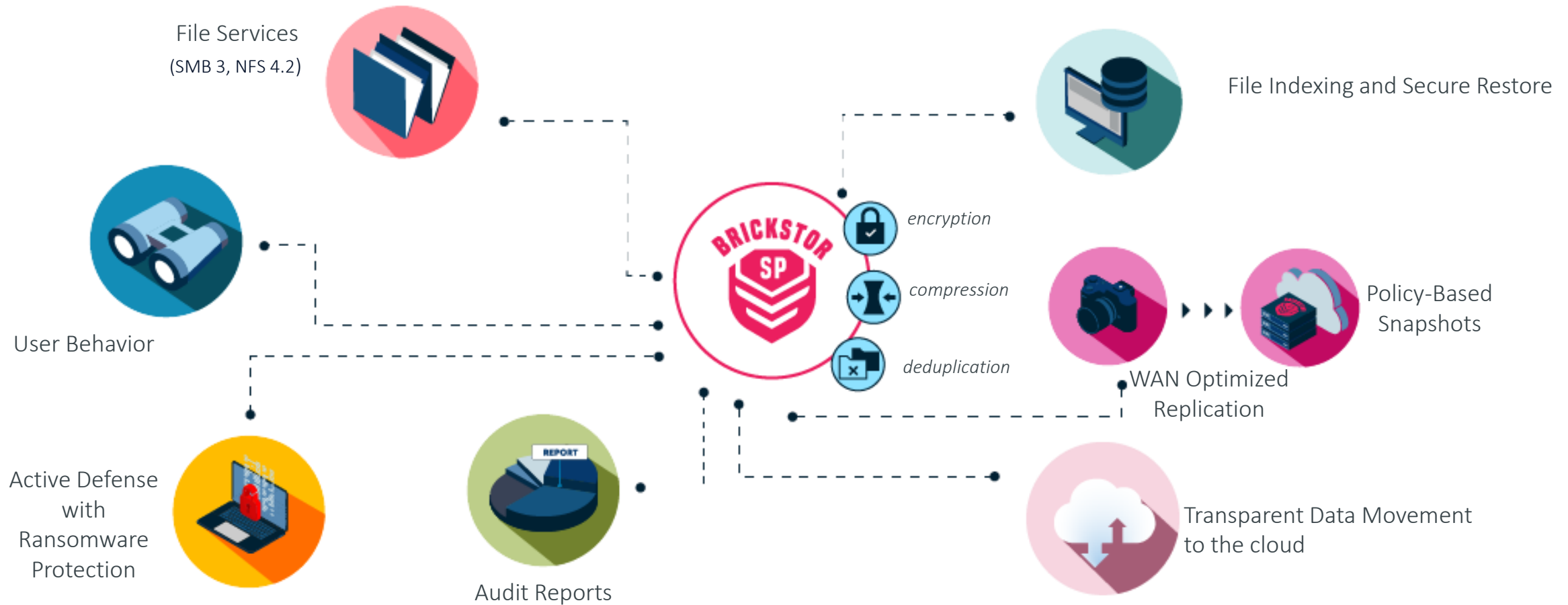
CISA Zero Trust Maturity Model

Data is the 5th Pillar

- Enable zero trust principles around file access
- Evaluate each request to read, modify or write a file
- Stop suspicious or malicious behavior and enforce policy in real time



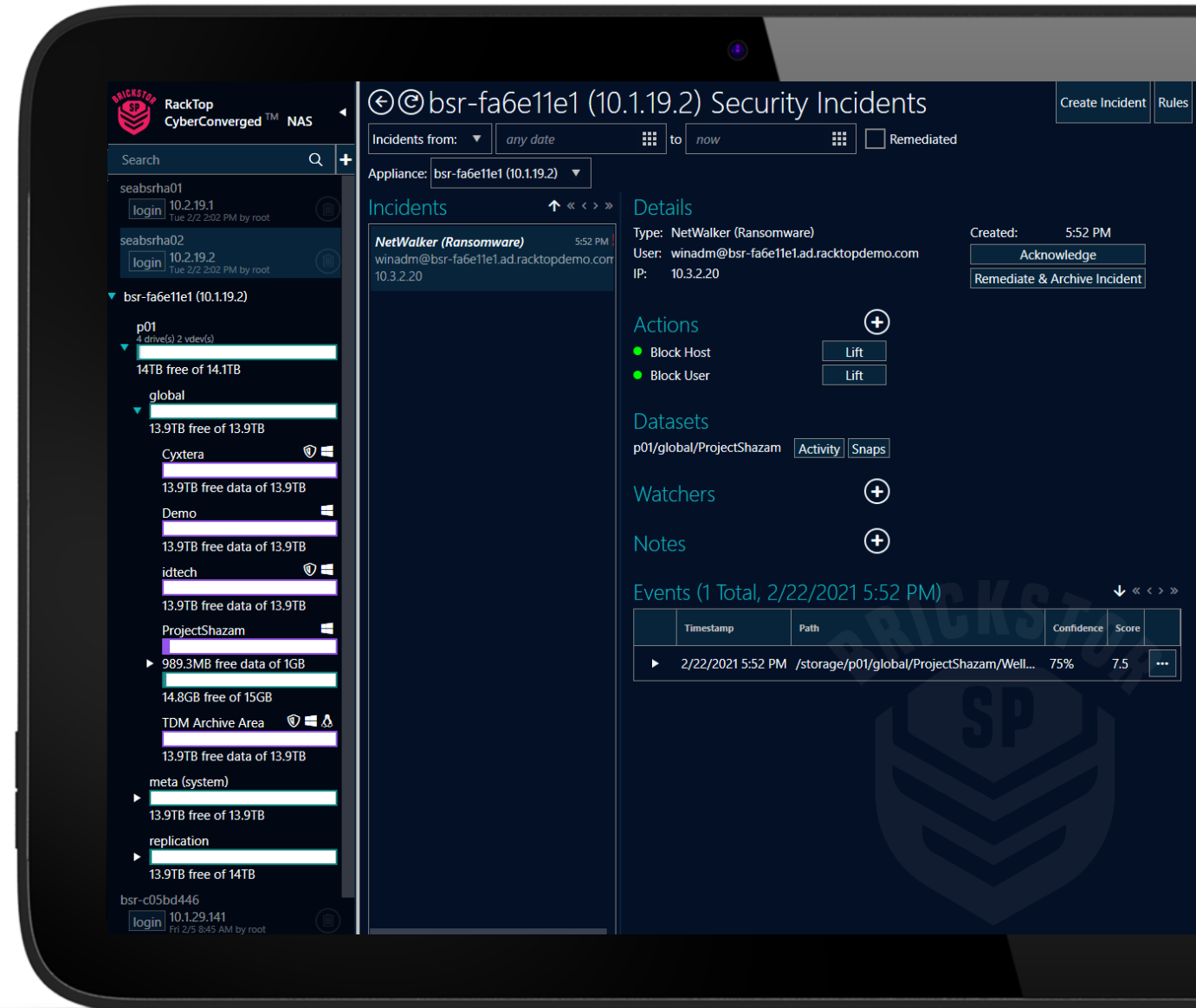
Key Features of BrickStor SP



Active Defense

Real time response and incident management

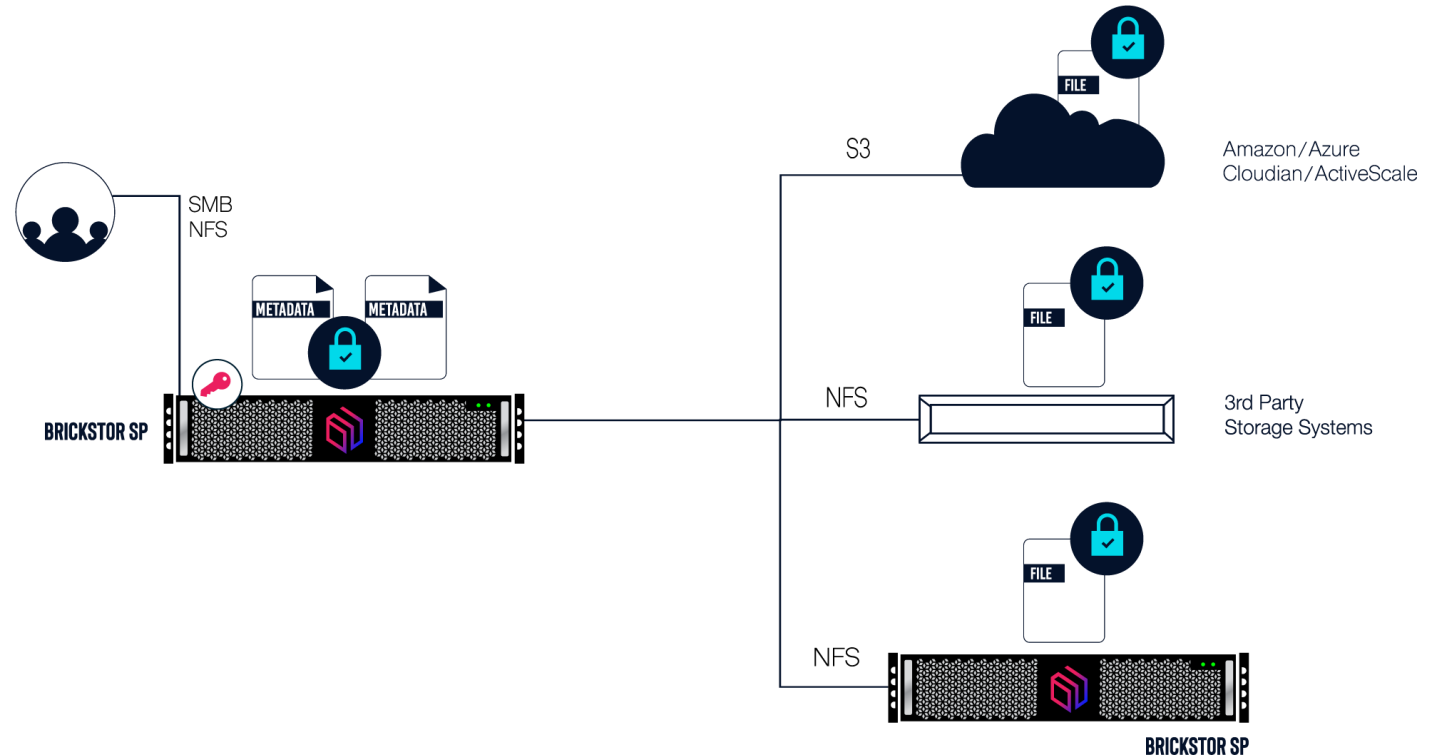
- Detect and stop data exfiltration and ransomware
- Block accounts and hosts from accessing data
- Remediate and track through incident
- Alert and report to other systems
- Create cyber resiliency; contain the attack



Transparent Data Movement (TDM)

Secure and Efficient

- Compress and encrypts before it leaves BrickStor SP
- Maintain control of keys
- Support multiple targets
- Workflow stays the same
- Reduce storage costs



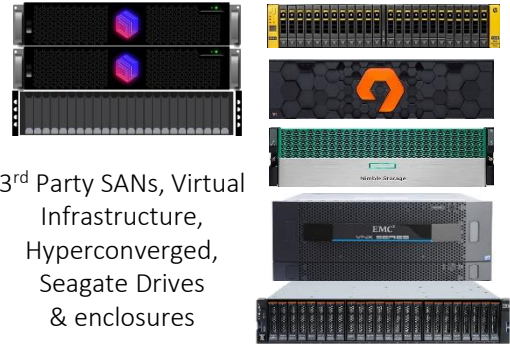
Scale-Right Deployment Model

Store and Protect Enterprise Data **ANYWHERE** – at the Edge, Core, or Cloud

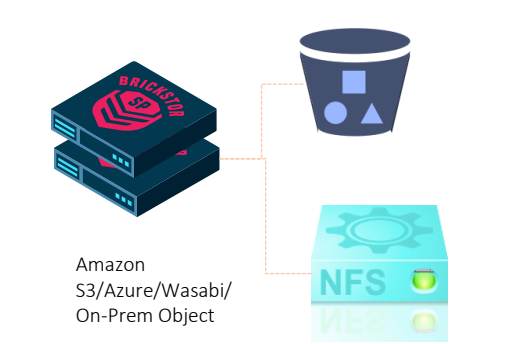
Cloud/Hyperscalers



Datacenter/Edge



Hybrid (S3 Object)



Security Integrations



Multi-System Management through single interface

Use Cases



User File Shares & Home Directories



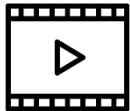
Enterprise Applications & IoT



Electronic Health Records VNA / PACS



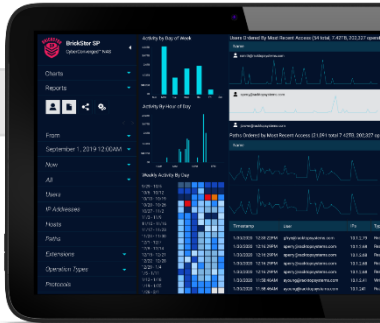
HPC (NFS)



Streaming Video & Surveillance



Secure Backup & Archive Repository



Florida Peninsula Insurance



Case Study

Seeking a solution with:

- Ransomware Protection
- Virtual Air Gap Solution
- Ability to securely tier data to S3 for archive purposes
- Data at rest encryption

Journey:

- Leveraged RackTop Jumpstart program to deploy 2 BrickStor SP Virtual Machines for 90-days.
- RackTop performed remote installation and training
- Tiered data to S3 Object storage in AWS via TDM with data locking
- Initially purchased two virtual machines + TDM
- Within 8 months added two all flash appliances leveraging Seagate FIPS SED SSDs and more TDM licensing

Florida Peninsula Insurance



Return on Investment

- Active defense to prevent ransomware and insider threats in real-time
- Regained 70% of the capacity on their primary storage with the use of VM's and TDM
- Secure archive in AWS with object lock and object replication between regions
- Enhanced unstructured data security
- User behavior auditing and analysis
- Immutable snapshots and file indexing create virtual airgap
- Single GUI to manage multiple instances
- 100% compatibility with existing hardware and systems
- 100% FIPS encryption end-to-end

BrickStor SP Virtual Appliance Jumpstart Program

Promotional Offer

Try it FREE for 90 days!

No paperwork, no strings attached

<https://www.racktopsystems.com/jumpstart>



- 90 day no commitment software subscription
- Includes two BrickStor SP virtual appliances
- Includes free install and 24/7/365 full support
- Minimum of 4vCPU & 16GB of RAM required

Stop a Ransomware Attack

Healthcare



<https://www.racktopsystems.com/videos/active-defense-for-healthcare/>



About RackTop

We believe everyone should be able to protect their data as if it were a national secret.

- Founded in 2010 by U.S. Intelligence Veterans
- Headquartered in Washington, DC Metro Area
- 100% U.S. Based Customer Support



Focus On The Data

- Data is the organization's most valuable asset
- Just because you don't know about or see the threat doesn't mean it isn't there
- Organizations need solutions with embedded security and active defense
- Backups don't protect you against data theft or ransomware
- Traditional solutions aren't effective in managing and protecting data
- A unified storage, security and compliance solution is the future

BrickStor SP is 100% compatible with existing infrastructure
and can start protecting your data in as little as 15 minutes

Thank You.

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