

# AI-POWERED RANSOMWARE DETECTION FOR BLOCK STORAGE



## THE PROBLEM

Ransomware is a digital plague, and it's getting nastier. The [Sophos State of Ransomware 2024](#) report pegs 66% of organizations as victims last year, with block environments increasingly targeted.

### Did you know:

- By 2031, a ransomware attack will occur every 2 seconds.
- In 2025, 44% of breaches have been caused by ransomware.
- The frequency of ransomware attacks is up by 149% in 2025 over 2024.
- 86% of ransomware attacks caused total business disruption with operational downtime.

## THE SOLUTION

NetApp® Autonomous Ransomware Protection powered by AI (ARP/AI), built into ONTAP® block storage, is redefining how to protect your data at the storage layer, going beyond the traditional “backups are enough” mindset. This isn't some clunky third-party patch slapped onto backups—it's a proprietary, AI-driven fortress embedded in primary storage, catching threats before they sink their claws too deep.

NetApp's ARP/AI for block doesn't wait. It's a protector at the storage layer, sniffing out trouble in real time for primary storage across your block workloads.

## Top three reasons



# 1

Automated ransomware protection that's built in—not bolted on.



# 2

Advanced data security that's designed specifically for block workloads.



# 3

The most secure storage on the planet, no matter where your data is stored.

***NetApp's built-in resilience means that your data isn't just protected—it's untouchable. Don't wait for the flames to spread; fortify your storage layer and fight back where it matters most.***



## Built-in security capabilities

NetApp's AI-powered ransomware protection isn't an afterthought; it's the backbone of ONTAP, delivering a suite of advantages that third-party backup scanners can't touch.

- Integrated remote backup/disaster recovery
- Tamper-proof NetApp Snapshot™ copies
- Multi-admin verification
- Multi-factor admin access
- Regulatory-compliant data retention

- In-flight and at-rest encryption
- Inline data compression, deduplication, and compaction
- Symmetric active-active multipathing
- FC, iSCSI, NVMe/FC, NVMe/TCP

## Additional resources

[NetApp Autonomous Ransomware Protection \(ARP/AI\) ›](#)



[Contact Us](#)

### About NetApp

NetApp is the intelligent data infrastructure company, combining unified data storage, integrated data services, and CloudOps solutions to turn a world of disruption into opportunity for every customer. NetApp creates silo-free infrastructure, harnessing observability and AI to enable the industry's best data management. As the only enterprise-grade storage service natively embedded in the world's biggest clouds, our data storage delivers seamless flexibility. In addition, our data services create a data advantage through superior cyber resilience, governance, and application agility. Our CloudOps solutions provide continuous optimization of performance and efficiency through observability and AI. No matter the data type, workload, or environment, with NetApp you can transform your data infrastructure to realize your business possibilities. [www.netapp.com](http://www.netapp.com)