

AI-POWERED AUTONOMOUS RANSOMWARE PROTECTION FOR FILE STORAGE



Use AI to detect and to combat even the most sophisticated ransomware threats.

The challenge

AI-enhanced cyberthreats should not be underestimated. According to a [recent report from the U.K. National Cyber Security Centre \(NCSC\)](#), AI is expected to increase the volume and impact of ransomware attacks over the next 2 years—and it's only going to get worse. AI is lowering the barrier of entry for would-be cybercriminals, making it easier than ever to carry out sophisticated attacks against organizations across all sectors. With access to advanced AI tools becoming more pervasive, the level of skills and experience required to carry out a ransomware attack is decreasing. Cybercriminals now focus on improving efficiency with AI to maximize their profits and to accelerate their cyberattacks.

To stay a step ahead of ransomware threats, you need to fight AI with AI. Ransomware protection is essential, but managing it effectively can be time-intensive and complex.

Achieving autonomous cyber resilience is crucial to thwart ransomware threats at scale without increasing costs or expanding IT sprawl. You need new detection systems on your file storage infrastructure that accurately discover threats in real time.

The solution

When it comes to protecting your file data from advanced ransomware threats, storage is your last line of defense. NetApp® Autonomous Ransomware Protection powered by AI (ARP/AI), protects your data at the storage layer to safeguard your critical assets.¹

NetApp intelligent data infrastructure solutions to combat ransomware are secure by design, giving you real-time detection and response capabilities that help you recover faster if you experience a ransomware attack.

Comprehensive ransomware detection capabilities are built into NetApp file storage, enabling you to detect ransomware attacks in just seconds. Compared with competitive solutions that have an “outside-in” approach to ransomware protection, NetApp gives you exponentially more security when every second counts in safeguarding your data.

Real-time, accurate detection and response

NetApp intelligent data infrastructure solutions are built with security in mind from the ground up. By using the latest AI and machine learning capabilities, NetApp ransomware protection features can help you discover malicious file encryption in real time with greater than 99% detection accuracy for file anomalies—and zero false positives based upon independent validation testing. This impressive, validated accuracy delivers on NetApp’s promise to customers that we provide the most secure storage on the planet.

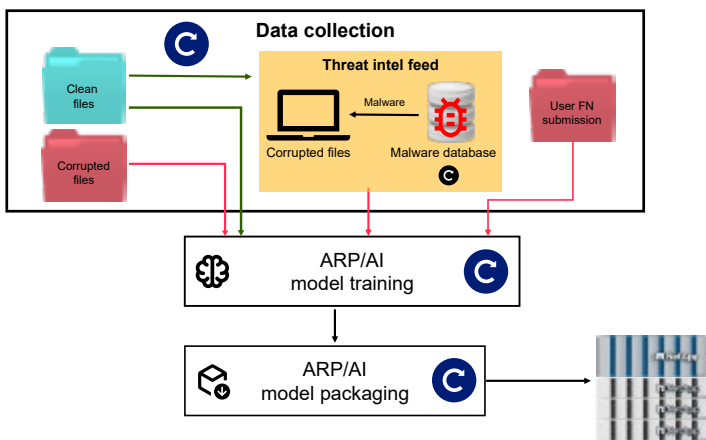


Figure 1: ARP/AI model training and deployment.

KEY BENEFITS

- The world’s first on-device, file-based, real-time threat detection solution
- File forensics: entropy, file activity, file headers
- Next-generation AI that provides precise detection from day one
- Automatically snapshots data at the time of attack
- Effortless upgrades for existing NetApp ONTAP ARP users

By training AI models on vast amounts of data, both benign and malicious samples (including user-submitted false negative samples) in the model training process, NetApp delivers detection capabilities that can accurately identify the subtle patterns and anomalies that are associated with ransomware attacks.

Only NetApp solutions enable you to respond to ransomware threats in real time while creating immutable NetApp Snapshot™ copies so that you can recover data quickly and with confidence. The world’s first on-device, real-time, file-based threat detection helps you stop even the most sophisticated attackers in their tracks. Ransomware protection that’s built into NetApp ONTAP® software gives you confidence with simplified, comprehensive protection right out of the box.

Learn more about [NetApp AI-powered ransomware protection](#).

1. NetApp ARP/AI is generally available on all devices with ONTAP 9.16.1 as part of the ONTAP One license.



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

