Securing Your Storage

Exploring OPSWAT MetaDefender Solutions

Prepared for: CIO COUNCIL CYBERSECURITY FORUM

Prepared by: Alexandru Ghioca, Solution Engineer OPSWAT

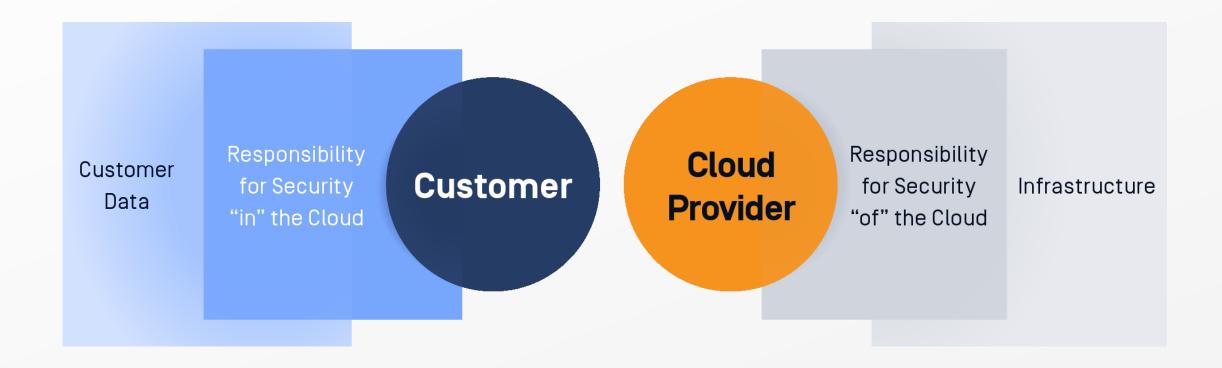
Monday, May 27, 2024



COMPLIANCE

Shared Responsibilities

AWS: "Compliance is a Shared Responsibility"



Source: https://aws.amazon.com/compliance

CHALLENGES

Compliance & Data Privacy

- 53% of companies found over 1,000 sensitive files exposed to all staff
- 4.45M average cost of a data breach (2023)
- \$4.44B GDPR fines reported (2023)
- 74% of all breaches include the human element through Error, Privilege Misuse, Use of stolen credentials or Social Engineering.
- 82% breaches that involved data stored in the cloud—public, private or multiple environments
- 277 days to identify and contain a data breach
- 32% of all Log4j vulnerability scanning occurred in the first 30 days after release

Recent Storage-Borne Attacks

Western Digital hacked: \$18b storage firm's services taken offline

The hackers who breached data storage giant Western Digital claim to have 10 terabytes of data from the company, including reams of customer information. The extortionists are pushing the company to negotiate a ransom — of a "minimum 8 figures" — in exchange for not publishing the stolen data.

"[...]

Source: https://therecord.media/ransomware-attack-on-americold-

kira ransomware attacks against and backup devices

Attacks deployed by Akira have been targeted at Cisco Adaptive Security Appliance and Cisco Firepower Threat Defense appliances impacted by the zero-day flaw, tracked as CVE-2023-20269, which could be leveraged to facilitate brute-force intrusions.

Source: https://www.scmagazine.com/brief/escalating-akiraransomware-attacks-target-finland

OPSWAT.

Major ransomware attacks have impacted Danish cloud hosting companies CloudNordic and AzeroCloud

"[...] Attackers have infiltrated certain network-linked CloudNordic and AzeroCloud servers during a migration to another data center, enabling the compromise of critical administrative systems and entire data storage silos and backup systems, which was then followed by total server disk encryption. [...]"

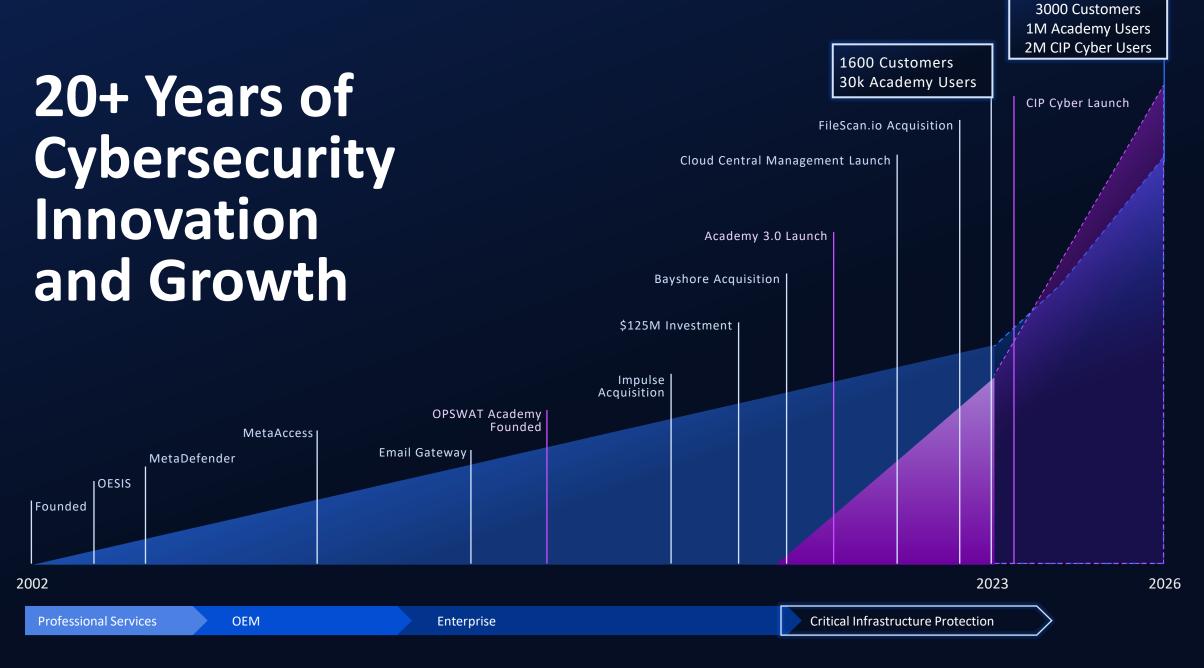
Source: https://www.scmagazine.com/brief/cloudnordic-azerocloudhit-by-severe-ransomware-attacks



METADEFENDER STORAGE SECURITY

How We Can Help







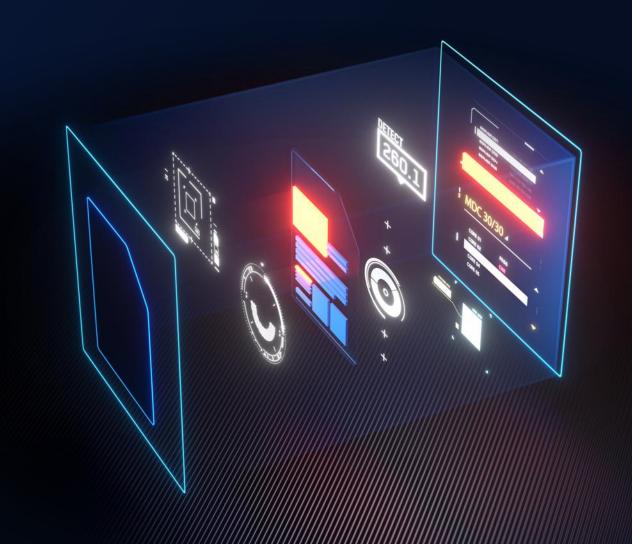
#1 Market Leader Multiscanning

#1 Market Leader

Content Disarm and Reconstruct (CDR)

Adaptive Sandbox

Adaptive threat analysis technology enables zero-day malware detection and extracts more indicators of comprise.



What is MetaDefender Storage Security?



Secure your Enterprise Data Storage



All-in-One Platform

- Integrates effortlessly into existing workflows, providing real-time or on-demand scanning across various storage repositories.
- Guards against zero-day threats and advanced targeted attacks using leading technologies.
- Delivers real-time threat detection and prevention to ensure robust storage security.



Plug-and-Play Integrations

- Enhance cost-effectiveness with a simple plug-andplay integration.
- Configure and start scanning easily without needing storage admins.
- Seamlessly integrates with Microsoft OneDrive, SharePoint Online, Azure, Amazon S3, Box, Cloudian S3, Dell Isilon, and any SMB or S3 compatible storage.
- Begin evaluating your storage within minutes.

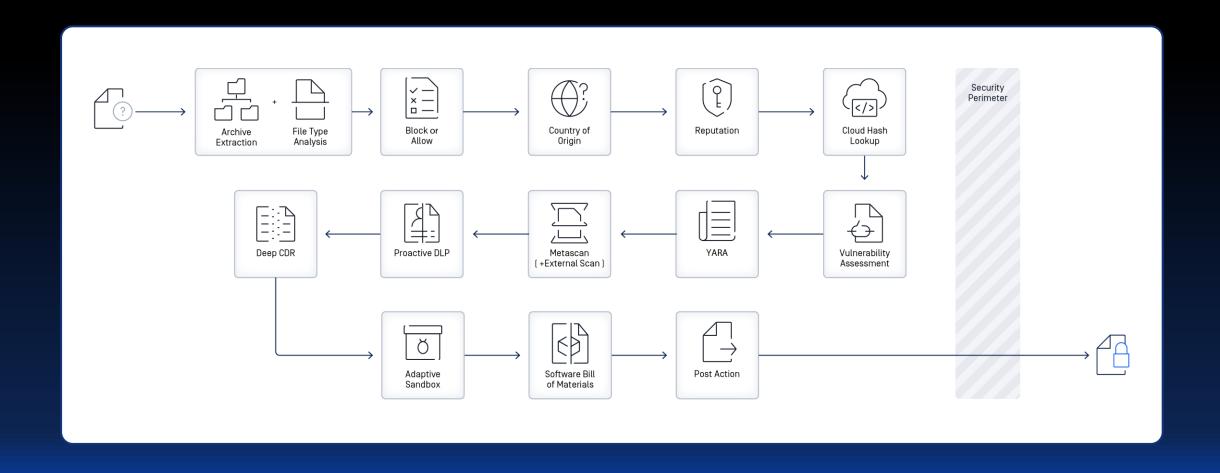


Enhanced File Privacy

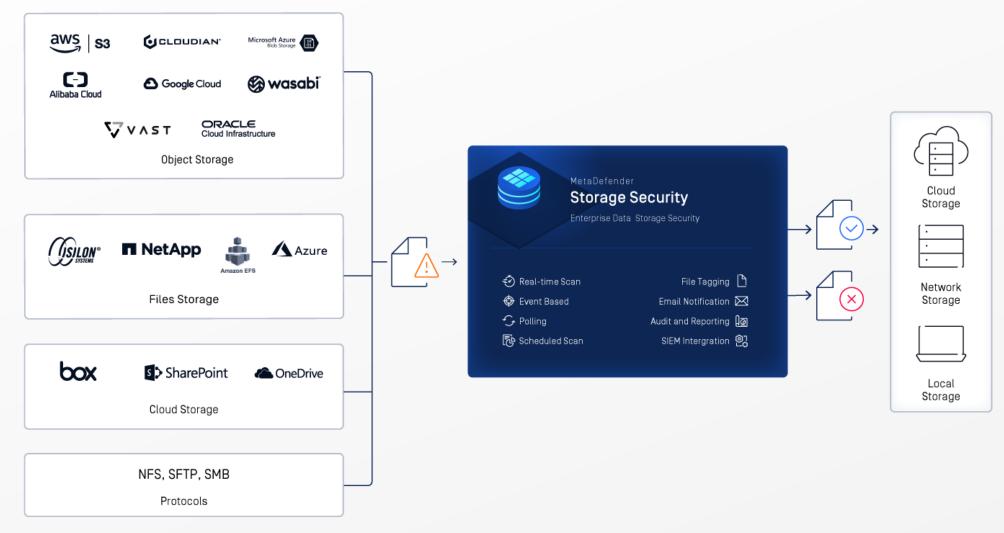
- Tailor policies, workflows, and remediation actions to fit your security needs.
- Meet requirements like PCI, HIPAA, Gramm-Leach-Bliley, and FINRA.
- Prevent sensitive data breaches by controlling data entry and exit within the organization.

File Processing Workflow

Analyze 10 files/second per deployment for enterprise-ready performance



Available Integration Options



METADEFENDER STORAGE SECURITY

Features Overview

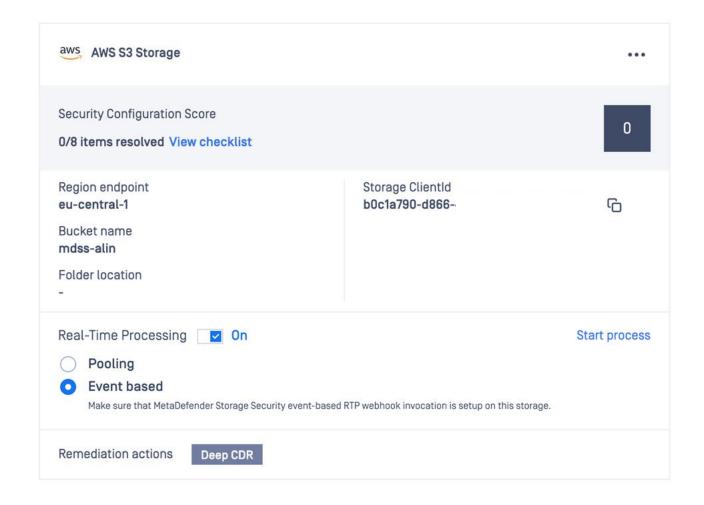
Advanced File Processing

Real-Time Scanning: Files are processed immediately upon upload, ensuring instant threat detection.

Polling Handling: Regular checks for new files to scan.

Event-Based Handling: Trigger scans based on specific events.

Scheduled Scanning: Automate scans at predetermined times to regularly check storage for threats or vulnerabilities.



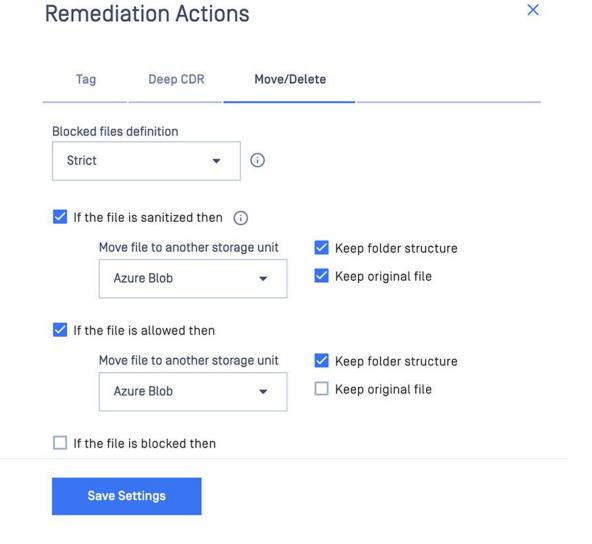
File Tagging and Management

Quickly classify file contents and identify malicious files for detailed analysis.

Choose steps based on tags like "Allowed," "Sanitized," or "Blocked."

Apply OPSWAT's Deep Content Disarm and Reconstruction (CDR) technology to sanitize files.

Copy, move, or delete files based on the set conditions after scanning.



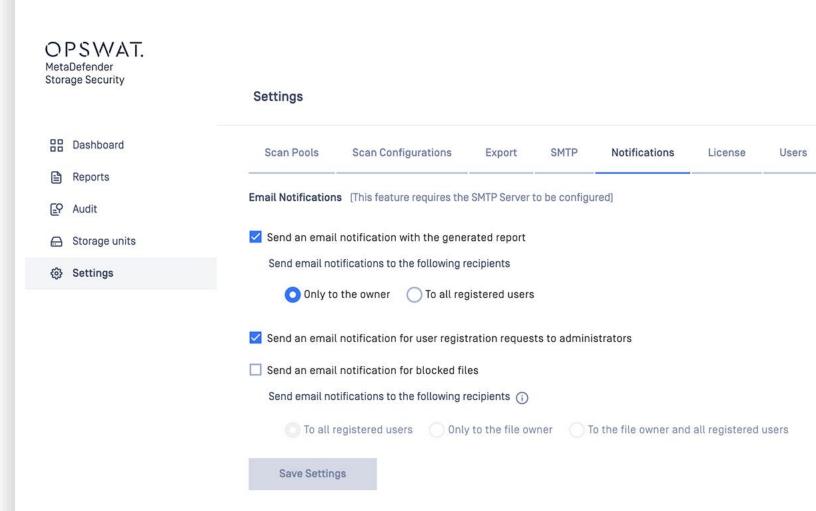
Proactive Event Notifications

Notify specific individuals when critical events occur.

Key Events include report generation, user registrations, and file blocking.

Immediate Response by ensuring timely action and improved system management.

Customizable notifications to relevant stakeholders enable swift responses and maintain operational efficiency.

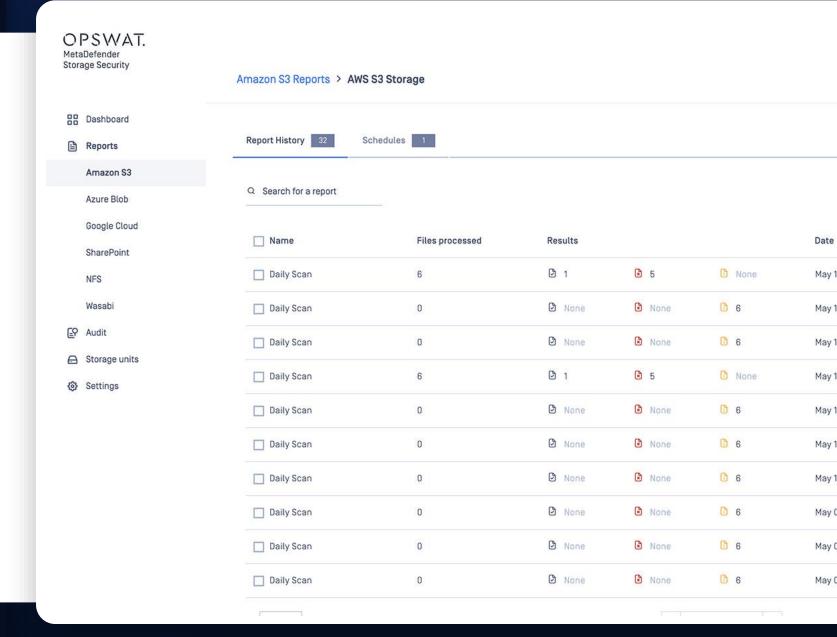


Streamlined Report Management

View all saved and scheduled reports in one centralized location.

Easily track health trends or meet audit requirements by periodically saving reports.

Compare key indicators from previous scans to gauge trends, ensuring informed decision-making and proactive security management.



SIEM Integration

OPSWAT MetaDefender Storage Security integrates seamlessly with SIEM systems through an intuitive GUI and RESTful API, ensuring quick incorporation into existing workflows.

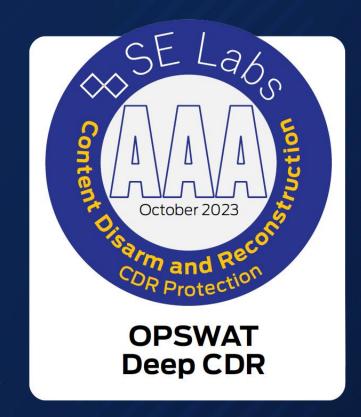
This design allows for efficient deployment and management, enhancing real-time threat detection and response without disrupting current processes.



Pain Points and Solutions

Threats & Customers' Pain Points	MetaDefender Storage Security
Difficulty detecting sophisticated malware with single AV solutions.	Utilizes multiple antivirus engines for higher detection rates, identifying and neutralizing sophisticated threats.
Challenges in preventing zero-day attacks.	Removes malicious code from files, preventing zero-day attacks while preserving file usability through Content Disarm and Reconstruction
Risk of exploitation due to unpatched vulnerabilities.	Identifies vulnerabilities in stored files and applications, enabling proactive mitigation.
Risk of intellectual property theft and non-compliance.	Detects and prevents sensitive data leakage, ensuring intellectual property compliance and protection through Proactive Data Loss Prevention
Need for seamless security integration with existing infrastructure.	Integrates with NAS, cloud, and on-premises storage, enhancing security
Necessity to meet various regulatory requirements for Regulatory Compliance.	Ensures malware-free and protected sensitive data, aiding in GDPR, HIPAA, and PCI-DSS compliance.
Complex and inefficient security management across platforms.	Central interface for monitoring and managing storage security with comprehensive reporting.
Requirement for scalable security solutions for growing storage environments.	Scales to provide consistent protection for small and extensive storage networks.

Certifications



100% Protection Score



OPSWAT has achieved ISO/IEC 27001:2013 certification.



OPSWAT MetaDefender Core achieved EAL2+ (ALC_FLR. 1), meeting all Common Criteria Evaluation Assurance Level.



OPSWAT was awarded SOC2 certification for MetaDefender Cloud by Schellman & Company, LLC.

Awards





Winner Gold Badge

lamed "Best Solution Web Applicati Security"

By Cyber Defense Magazine



OPSWAT's Deep CDR technology was recognized as a gold winner for the 2022 Cybersecurity Excellence Award.



Gold Winner in 3, 2023 Cybersecurity Excellence Awards categories — ICS/SCADA Security, Web Application Security, and CS Solution for the Energy Industry.



OPSWAT Academy was recognized with the "Professional Certification Program of the Year" award in the 6th annual CyberSecurity Breakthrough Awards Program.



MetaDefender® Core Platform was determined to be compliant with Web Content Accessibility Guidelines (WCAG) 2.1 levels A and AA.

)2024 OPSWAT, Inc. Proprietary and Confidenti

Regulation Compliance

The risks of non-compliance:

- Fines ranging up to \$millions
- Penalties higher transaction fees, termination of contracts and relationships
- Reputation loss and lawsuits
- Criminal charges or even jail
- Limits access to government-based contracts



HIPAA

GDPR

HIPAA (The Health Insurance Portability and Accountability Act of 1996) - Healthcare providers, insurance providers and their business associates with access to patient health information (PHI) are required to comply with HIPAA.

Email

Date of Birth

Phone number

Medical record

GDPR (Generate Data Protection Regulation)

– The European Union guidelines mandate
how organizations process and store
customer data

Email

Date of Birth

Phone number

Passport number

Social Security Number



PCI DSS

PCI DSS (Payment Card Industry Data Security Standard) - Any entity that processes, stores or transmits cardholder data, such as merchants or payment card processors, is required to comply with PCI-DSS.

Credit card number

Security code

Address



CCPA

CCPA (California Consumer Privacy Act) - Grants California consumers the right to request their personal data is not sold to third parties.

Date of Birth

Address

Phone number



Thank You

Alexandru Ghioca
Solution Engineer @ OPSWAT

LinkedIn



Book a session



