

DATA INFRASTRUCTURE INSIGHTS ENHANCING DATA SECURITY WITH STORAGE WORKLOAD SECURITY



THE PROBLEM

A business's success increasingly depends on how well it manages its data. From guiding decisions to streamlining operations, data has become a vital resource for driving progress and innovation.

As data grows and shifts to hybrid, multi-cloud environments, the threats against it are evolving just as quickly. Protecting your sensitive information has never been more critical.

Additionally, compliance requires organizations to maintain an exhaustive audit trail of user activities. Traditional security measures and manual auditing often fail to detect complex threats or ensure compliance in hybrid environments. The lack of visibility into who is accessing critical data, and how, puts your business at risk.

When your systems are compromised, you need immediate answers and decisive action. Delays in detection or resolution can lead to costly downtime, compliance violations, and potentially irreparable damage to your organization's reputation.

THE SOLUTION

NetApp® Data Infrastructure Insights is part of the comprehensive portfolio of NetApp solutions that deliver cyber resilience by detecting and alerting on anomalies. Data Infrastructure Insights delivers real-time visibility into user activity across your organization to enhance protection and IT governance with the Storage Workload Security feature. Storage Workload Security is designed to address modern data security challenges by combining sophisticated auditing, ML-driven anomaly detection, and policy-based automated responses to keep your sensitive data secure while ensuring effortless compliance with regulatory standards. To achieve this, data from your infrastructure is captured using a lightweight collector deployed on a virtual machine in your environment. The collected data includes user information from Active Directory, LDAP servers, and file activity from NetApp ONTAP and Cloud Volumes ONTAP.

Data Infrastructure Insights analyzes data access patterns in real-time to detect risks and alert on unusual activity from both internal and external threats. Advanced reporting and auditing help pinpoint potential issues and ensure compliance with security regulations.

5 key benefits of Storage Workload Security



Real-time user activity monitoring

Track user access to both on-premises and cloud-stored data with a unified, real-time interface. Replace outdated tools and processes that fail to deliver immediate insight and actionable data. Storage Workload Security enables you to monitor every file and every user for complete transparency of who accessed your data, when, and how.



Anomaly detection

Advanced machine learning algorithms evaluate user behavior patterns and identify abnormal behavior before it can cause widespread damage. A zero-trust approach reduces false positives while enabling proactive threat mitigation.



Data access auditing for security and compliance

Streamline data access auditing with intelligent grouping capabilities to gain a clear view of user activity that categorizes actions by time, activity type, and other key parameters. Identify which file locations are most frequently accessed, who is interacting with specific files, and where access-denied events are occurring in your environment. These insights not only help spot patterns and anomalies faster but also simplify reporting requirements for standards like HIPAA and GDPR.



Proactive alerting

Continuous monitoring of user activities and analysis of data access patterns with Storage Workload Security means that Data Infrastructure insights can provide immediate notifications of unusual behavior or potential risks. With actionable insights delivered right to your team, you can swiftly address concerns and operational issues to minimize downtime and ensure your sensitive data remains protected.



Integrated response actions

Respond to potential threats faster with custom policy actions. When Storage Workload Security detects unusual behavior, it enforces restrictions and NetApp ONTAP takes a backup snapshot to ensure rapid data recovery options. Teams can use Storage Workload Security to automate critical steps like isolating users and protecting data to mitigate threats in real-time.

Where NetApp adds value

NetApp delivers the most secure storage on the planet, giving you advanced insights into user behavior and file access, while actively supporting IT governance across your entire hybrid cloud infrastructure. By leveraging the combined strengths of NetApp ONTAP and Data Infrastructure Insights, you gain centralized visibility and actionable intelligence that enhance security, streamline compliance, and reinforce governance frameworks for more confident decision-making.

- Data Infrastructure Insights Storage Workload Security provides centralized visibility and actionable intelligence on corporate data access across hybrid infrastructures to equip teams with the intelligence needed to maintain audit readiness and support IT governance practices.
- ONTAP fortifies your organization's governance efforts with reliable data protection and management. Its industry-leading Snapshot technology enables instant, space-efficient backups for fast recovery—minimizing disruption and data loss. When paired with the behavioral analytics from Data Infrastructure Insights, ONTAP makes it easier to trace user actions, document file history, and provide the detailed records necessary for IT governance, compliance verification, and policy enforcement.

Only NetApp offers



A complete portfolio

NetApp is redefining IT infrastructure and operations for today's hybrid, multi-cloud world with unified, intelligent data infrastructure, which bridges private data centers and public clouds and gives you the flexibility to operate anywhere. With Data Infrastructure Insights, you can monitor and analyze across your full heterogeneous infrastructure—all while scaling effortlessly. Data Infrastructure Insights delivers a smarter, more efficient way to optimize and manage your data infrastructure.

Comprehensive visibility

Data Infrastructure Insights simplifies the complexity of managing your environment by analyzing and correlating data across all systems and providing a centralized view of your entire infrastructure. It forecasts storage trends, identifies resource bottlenecks such as overused or degraded assets, and provides insights into how changes impact performance. All of this streamlines and enhances IT operations for faster, more accurate monitoring and troubleshooting to improve mean time to resolution and reduce downtime.



Intuitive and actionable

Data Infrastructure Insights is designed for ease of use, offering straightforward query and dashboarding capabilities. Guided workflows enable quick issue resolution, while standardized views ensure consistent operations across different storage vendors. You get actionable insights right out of the box, helping you optimize your IT environment and accelerate decision making with confidence.



“NetApp Storage Workload Security is like a digital bodyguard for your data. It uses advanced encryption and access controls to keep your information safe. It’s like having a high-tech vault for your data, ensuring that only the right people can get in. With NetApp, you can rest easy knowing your data is protected by the best in the business.”

***Rod Segraves, Director, IT Systems and Architecture,
Willis Towers Watson Public Company Limited***



Additional resources

Data Infrastructure Insights Home >

Solution brief >



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.



© 2025 NetApp, Inc. All Rights Reserved. NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners. NA-1161-1025