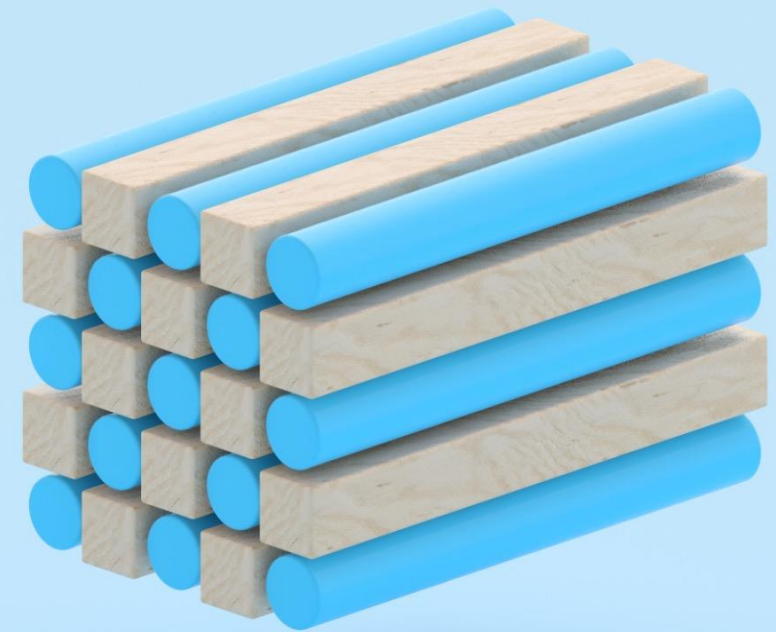


Protect your data from ransomware with NetApp

Explore a data-centric approach to ransomware protection

Priya Munshi
Tech Partner Manager
16 Nov 2022



Ransomware is a
universal threat

Headlines that organizations can't ignore

FOX BUSINESS + Follow

\$5.9M ransomware attack on major agriculture group poses risk to US grain, pork, chicken supply

Lucas Manfredi · 1 hr ago

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ZDNet VIDEOS WINDOWS 10 5G PRIME DAY CLOUD SMALL BUSINESS TV SECURITY MORE NEWS

MUST READ: iPhone 12: All the models, launch dates, pricing and specs

UHS hospital network hit by ransomware attack

UHS operates more than 400 hospitals across the US and UK. Some US hospitals have been down since Sunday.

By Catalin Cimpanu for Zero Day | September 28, 2020 -- 15:19 GMT (08:19 PDT) | Topic: Security

CNN BUSINESS WAVE

June 10, 2021

JBS says it paid \$11 million ransom after cyberattack

NEWS

IBM: Ransomware attacks surged in Q2, ransom demands rising

IBM Security examined several concerning ransomware for this year, as well as an exponential increase in ransom demands and massive spike in attacks during the spring.

By Arielle Waldman, News Writer

Published 28 Sep 2020

Get more horsepower out of your **SecureX**

CNN BUSINESS

May 19, 2021

Colonial Pipeline CEO admits to authorizing \$4.4 million ransomware payment

Computing / Cybersecurity

A patient has died after ransomware hackers hit a German hospital

This is the first ever case of a fatality being linked to a cyberattack.

by Patrick Howell O'Neill

September 18, 2020

Disaster Recovery and Business Continuity During COVID-19

Among the vast array of challenges posed by the global COVID-19 pandemic, cybersecurity issues have bubbled to the surface, including an increase in remote workers and cybercriminals taking advantage of the situation. How can organizations focus on disaster recovery and business continuity in light of the shifting threat landscape? Explore the series of blogs for advice from cybersecurity professionals about disaster recovery and evolving threat intelligence in the wake of COVID-19.

See the articles >

SecurityIntelligence

Today's threat environment

Source: Verizon 2021 Data Breach Investigations Report

Incidents 29,207

Breaches 5,258

Top industries breached

1. Public
2. Professional
3. Healthcare

24% of breaches involved internal actors

85% of breaches involved a human element

Top breach methods

1. Social engineering
2. Basic web application attacks
3. System Intrusion

70% of breaches were financially motivated

Top compromised data

1. Credentials
2. Personal
3. Medical

30% of breaches took months or longer to discover
13% of non-DoS incidents were ransomware

10% of breaches involved ransomware


How much does ransomware cost?



\$5B

Insurance premiums

20%-30% annual
growth**



\$1,850,000

Average cost*

to remediate a
ransomware attack in
2021 (\$768,106 in 2020)



10X

Downtime and recovery time

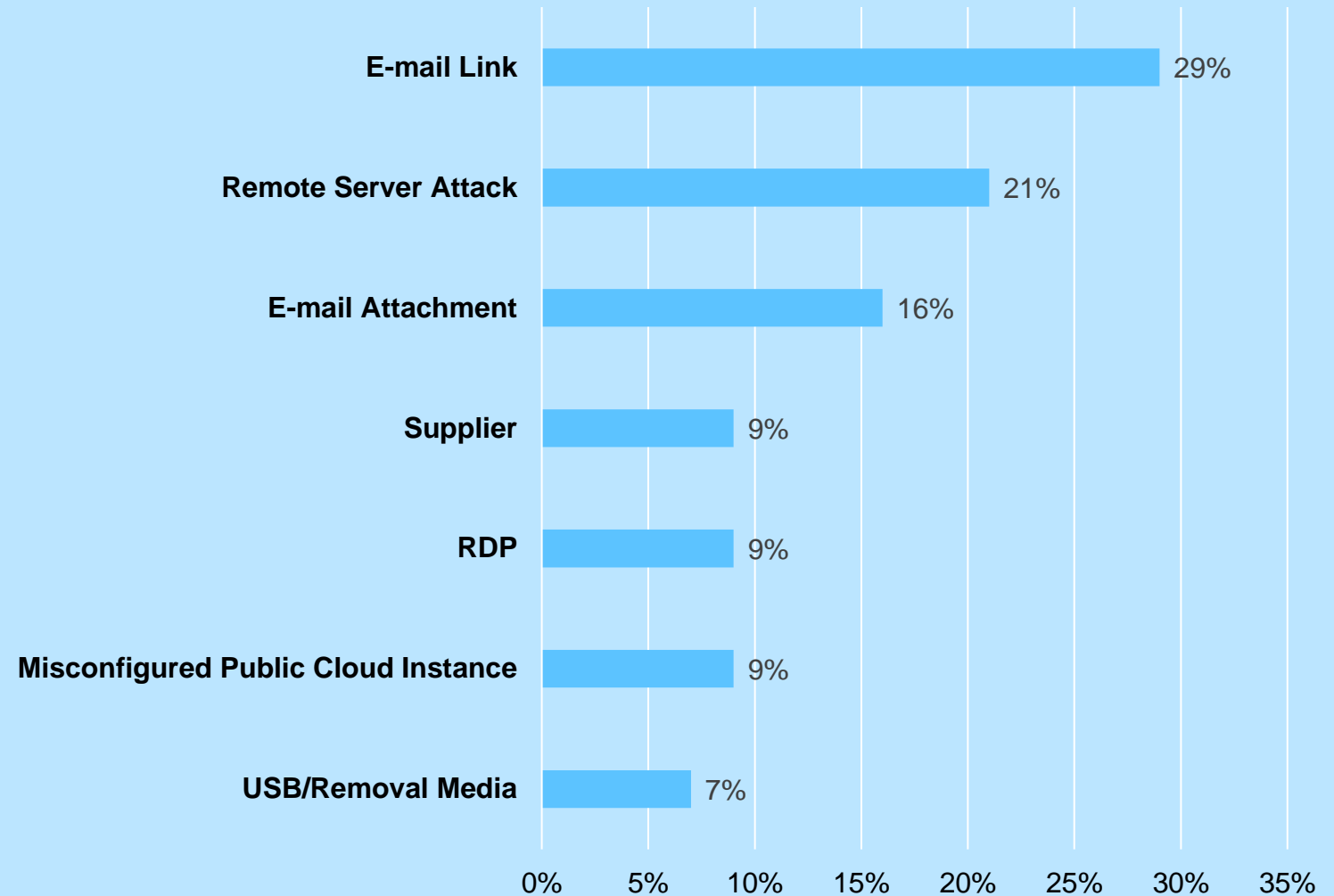
Cost to remediate is 10
times the average
ransomware payment

*Sophos report survey data of 5,400 IT manager on "The State Of Ransomware 2021" Average cost was for U.S. companies.

** Standard and Poor's report.

Ransomware attack techniques*

Ransomware attack techniques



*Sophos report survey data of 5,000 IT manager on "The State Of Ransomware 2020"

NetApp can help

Criminals want your data!

NetApp knows how to protect it.

Identify

- Assess your data protection and security posture
- Classify type of data, location, and permissions

Protect

- Block malicious data from being written to disk
- Create granular, **immutable** copies to thwart infection
- Prevent data deletion with **indelible** data copies

Detect

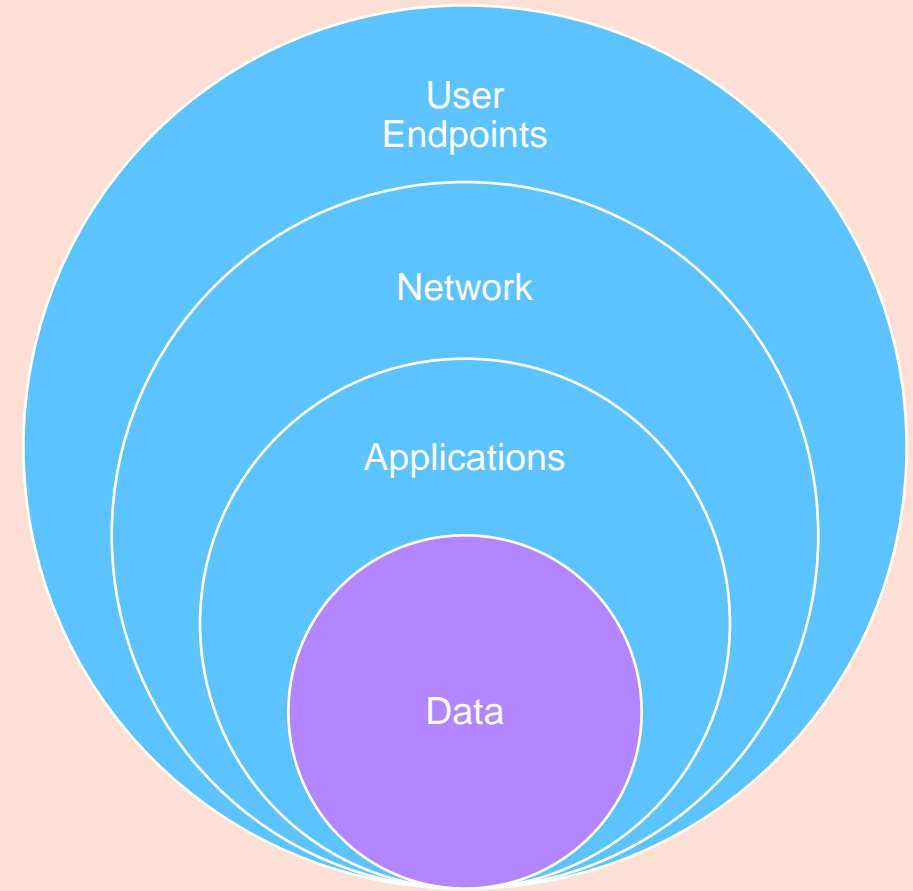
- Monitor user behavior for suspicious activity
- Detect storage behavior anomalies

Respond

- Initiate NetApp® Snapshot™ copies if an attack is identified
- Block malicious user accounts

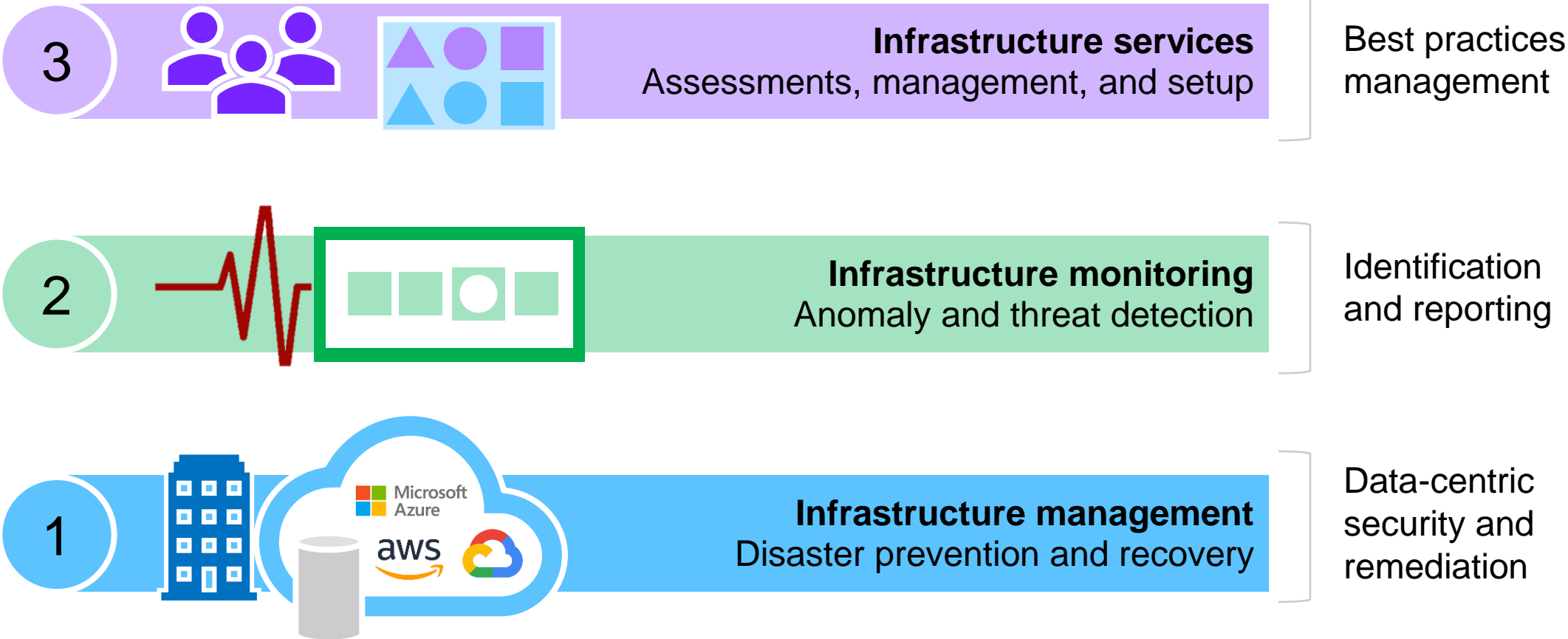
Recover

- Restore data in minutes and bring applications back online
- Apply intelligent forensics to identify the source of the threat



NetApp delivers data-centric ransomware protection

NetApp helps users protect their data effectively through active management, monitoring, and remediation.



NetApp ONTAP powers your Zero Trust architecture

Native ransomware detection, protection, and recovery across your hybrid cloud



Protect

- Block malicious files before they are written to disk.
- Create read-only NetApp® Snapshot™ copies to thwart file infection.
- Establish a “logical air gap” to prevent unwanted backup deletion with NetApp SnapLock® write once, read many (WORM) volumes.



Detect

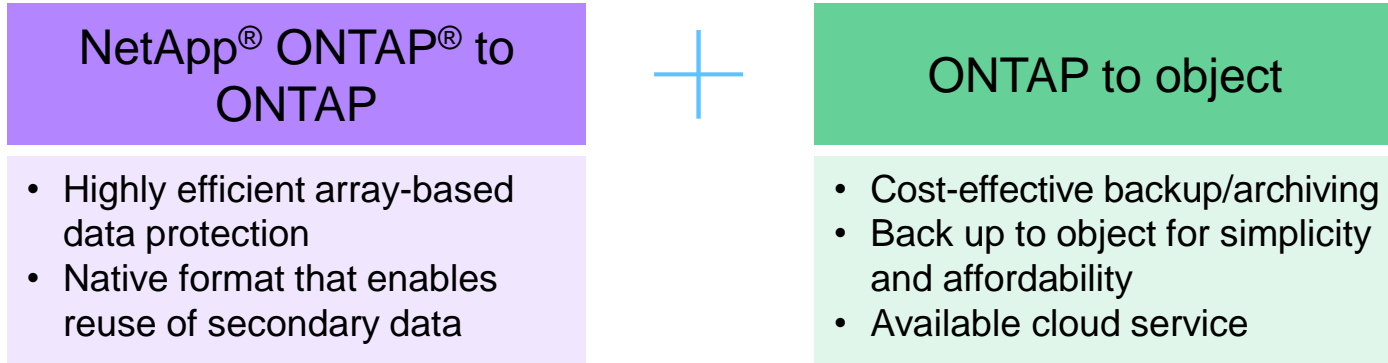
- Identify anomalous storage behavior that can indicate malware attacks.
- Detect suspicious file access patterns with on-box anti-ransomware analytics.
- Integrate with NetApp Cloud Insights or third-party user behavior analytics solutions.



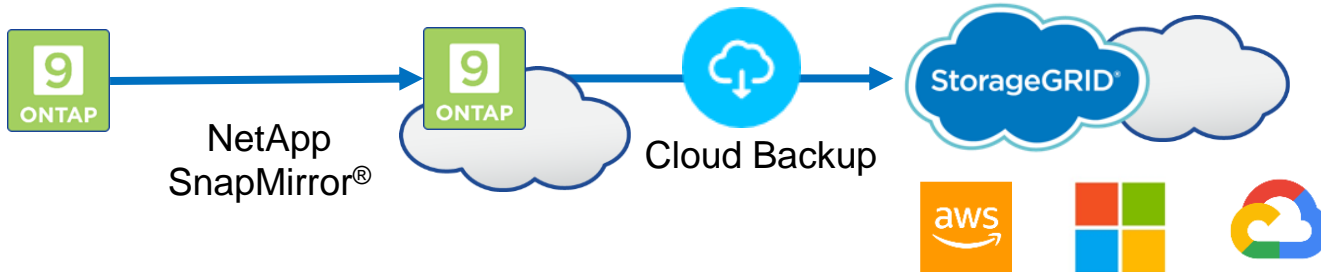
Recover

- Recover data in seconds with in-place Snapshot copies.
- Restore data quickly from efficient remote copies, or fail over to remote storage.
- Analyze logs and apply file level forensics to isolate the threat.

NetApp integrated data protection for rapid recovery



NetApp Cloud Manager



Supported by leading backup software vendors

Benefits
Fully redundant hybrid cloud
File and block protection
Common API/UI
End-to-end data efficiencies
Backup and tiering to object
Unified backup and DR
Data reuse

Active IQ Digital Advisor

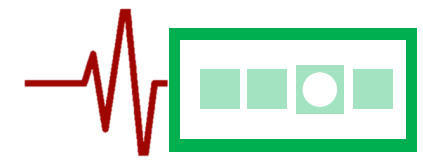


The screenshot displays the NetApp Active IQ Digital Advisor dashboard. On the left is a blue navigation sidebar with sections for 'DIGITAL ADVISOR' (Dashboard, AutoSupport, Performance, Capacity and Efficiency, FabricPool Advisor, Health Check, Cloud Ready Workloads) and 'SALES TOOLS' (Discovery Dashboard, Asset Insights, Account Intelligence, Fusion). The main content area is titled 'NTAP IT' and features a search bar and user information (Welcome, WJOCELYN, Sign Out). Below the search bar are tabs for 'Wellness', 'Actions', and 'Risks'. The 'Wellness' section contains five cards: 'Performance & Efficiency' (2 Actions), 'Availability & Protection' (5 Actions), 'Capacity' (2 Actions), 'Configuration' (4 Actions), and 'Security' (3 Actions). A 'Ransomware Defense' card is highlighted with a dashed black border, showing 1 Action. Below this are sections for 'Inventory' (with a donut chart and 590 Systems, 72 Clusters, 24 Sites), 'Planning' (8 Capacity Additions, 188 Renewals, 7 Cloud Ready Workloads, 4417.5 TiB Inactive Data), and 'Upgrades' (4 Actions, 171 Issues to be fixed).

Active IQ® Ransomware Defense

A set of prescriptive wellness checks to help protect customers against ransomware and to recover quickly if they are impacted.

Checks cover Snapshot™ count, retention, and auto delete settings, FPolicy, and encryption.

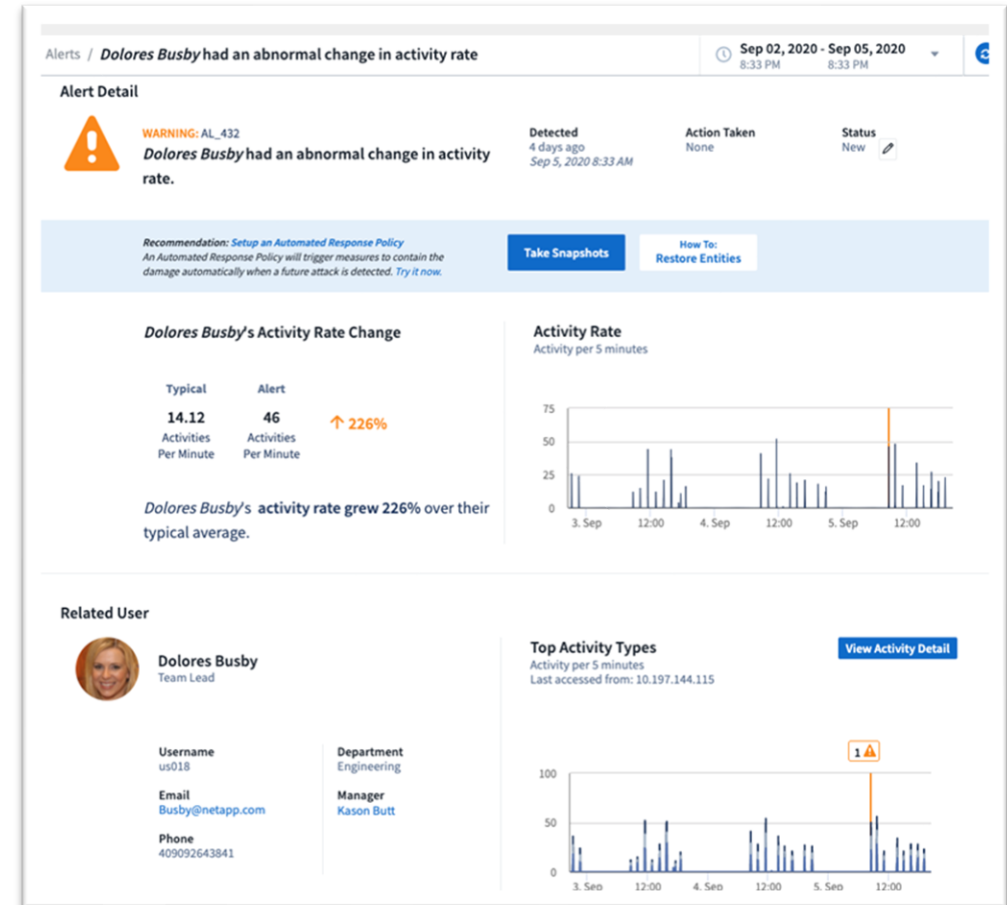


Secure your data – Cloud Insights and Cloud Secure

User anomaly and threat detection

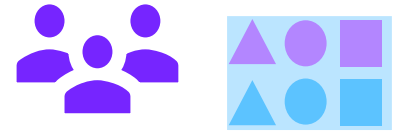
- Detect ransomware attacks before it's too late.
- Minimize the impact of an attack with automatic Snapshot data recovery point.
- Gain visibility into malicious user activity and identify potential policy risks.
- Easily satisfy audit reporting requirements, saving time and money.
- Simple SaaS solution, rapid time to value, no upgrades, scalable from single departments to global enterprises.

“We recently experienced a ransomware event, and when we saw what Cloud Insights’ Ransomware Detection provides, we were sold.”

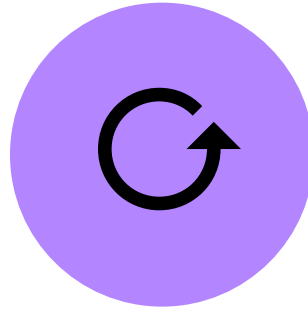


NetApp Data Protection and Security Assessment

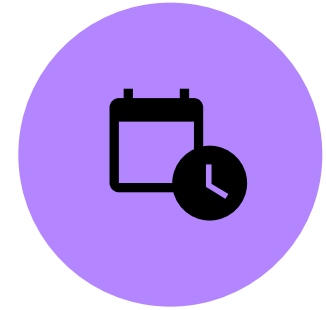
Assess your NetApp® ONTAP® environment and prepare for security threats, on premises and in the cloud.



Determine data protection and security readiness before a threat occurs.



Recover faster when an attack happens, to reduce data loss and disruption.

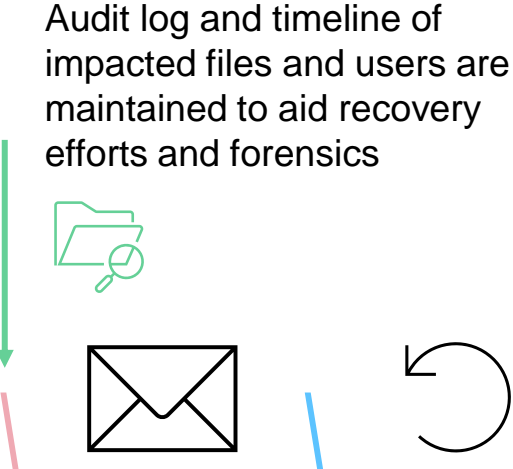
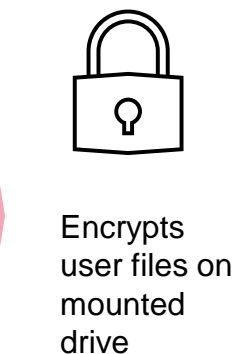
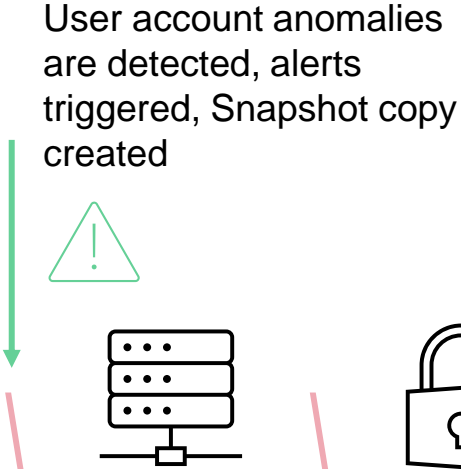
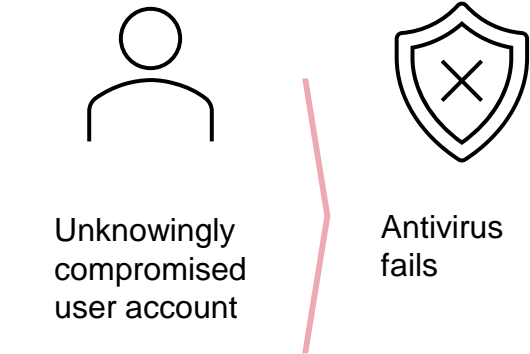


Stay up to date with security changes to avoid future risks

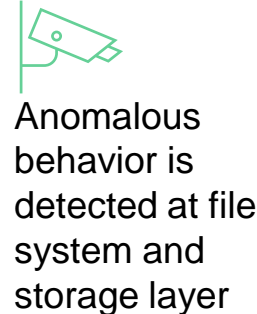
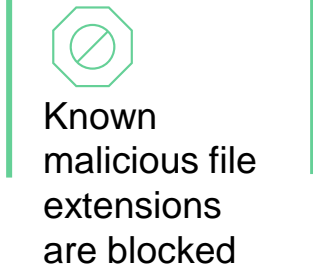
NetApp Professional Services

Anatomy and prevention of a ransomware attack

Cloud Insights user monitoring



ONTAP® data management



Leading technology partners integrate with NetApp

Enhance your NetApp Zero Trust architecture with powerful partners



Data protection

Integration with NetApp® ONTAP® Snapshot™ and efficient replication with SnapMirror®



User behavior

Integration with FPolicy APIs to deliver intelligent view of file and user behavior



Auditing and logging

Integration with forensic analytic syslog or SIEM tools



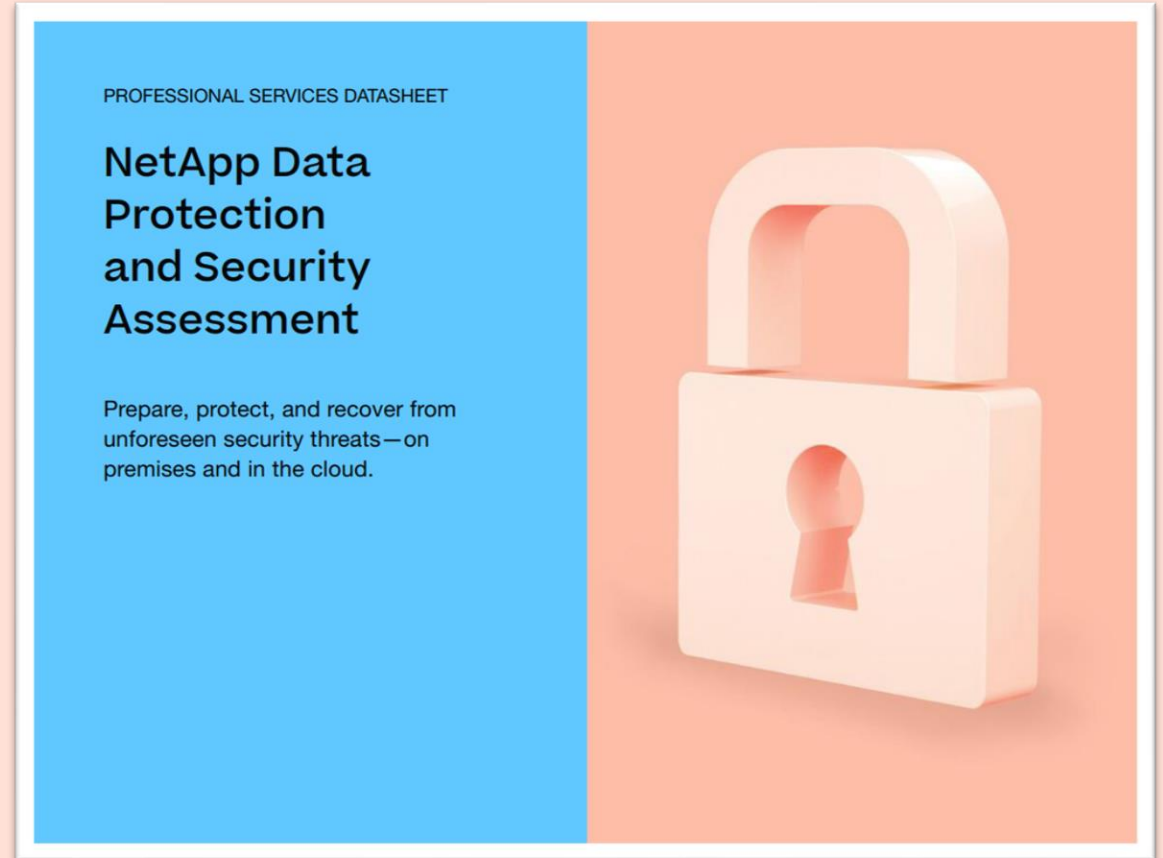
Now is the time to talk to NetApp

ONTAP® customers, schedule your Data Protection and Security Assessment today.



New to NetApp? Take a test drive with a NetApp® Lab on Demand focused on Zero Trust architectures.

<https://www.netapp.com/test-drives/#zerotrustontap>

A graphic representing a datasheet cover. It features a blue vertical bar on the left and an orange background on the right. The text is white and black. A large, 3D-style orange padlock is centered on the right side.

PROFESSIONAL SERVICES DATASHEET

NetApp Data Protection and Security Assessment

Prepare, protect, and recover from unforeseen security threats—on premises and in the cloud.

[Data Protection and Security Assessment](#)

**NetApp unlocks the best of
cloud**

