

NetApp connect

TECHNOLOGIE FORUM

NetApp in Action: Wir
schützen auch Retrogames.



Simon Heger

Business Continuity Officer

Jan Burkl

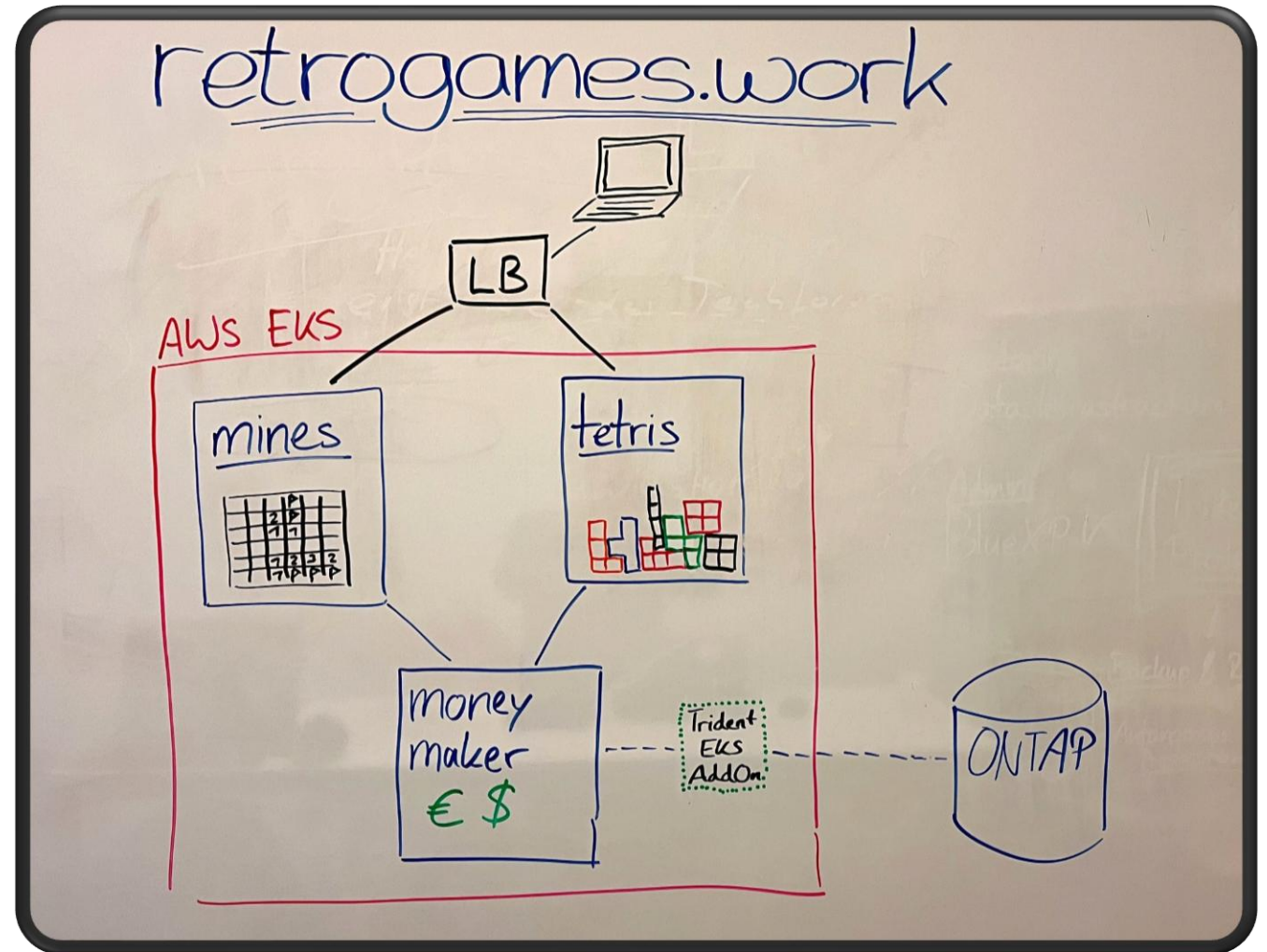
Senior Dev Wizard

KLASSISCHER DIENSTAG IM MÄRZ: NEUES GESCHÄFTSMODELL!



Retrogames - Architektur

- Cloud-start Strategie @ AWS
- Kubernetes based Microservices
 - Tetris
 - Minesweeper (Multiplayer!)
 - Ads / MoneyMaker (\$\$\$)
- ONTAP
 - Any-cloud
 - Trident





NetApp The most secure storage
on the planet

The only enterprise storage vendor validated to store top-secret data*



Commercial Solutions
for Classified (CSfC)
Component List



FIPS 140-3



Department of Defense
Approved Product List
(DoDIN APL)



Common Criteria

NetApp secures and protects against today's top concerns

Integrated security is incorporated throughout the NetApp portfolio



Compromised administrator credentials—**multifactor authentication (MFA)**



Stolen data—**layered encryption**



Assured data retention—**write once, read many (WORM) storage**



Hacked software images—**secure boot**



Rogue administrators—**multi-admin verification and audit logging**



Ransomware attacks—**NetApp® Snapshot™ copies and integrations**

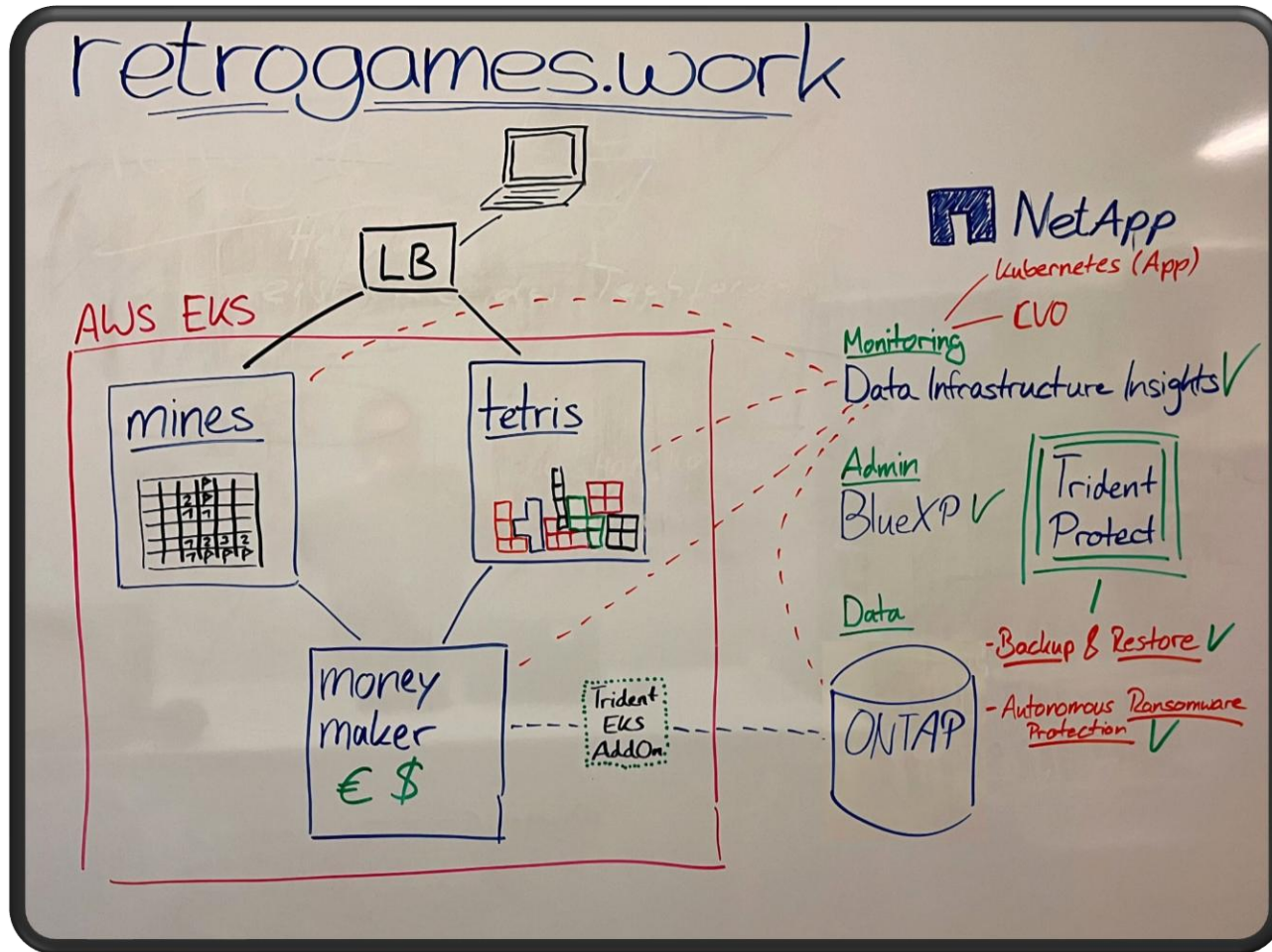


Lateral network attacks—**secure multitenancy (SMT)**



Disaster outages—**data replication**

Retrogames - Architektur 2.0

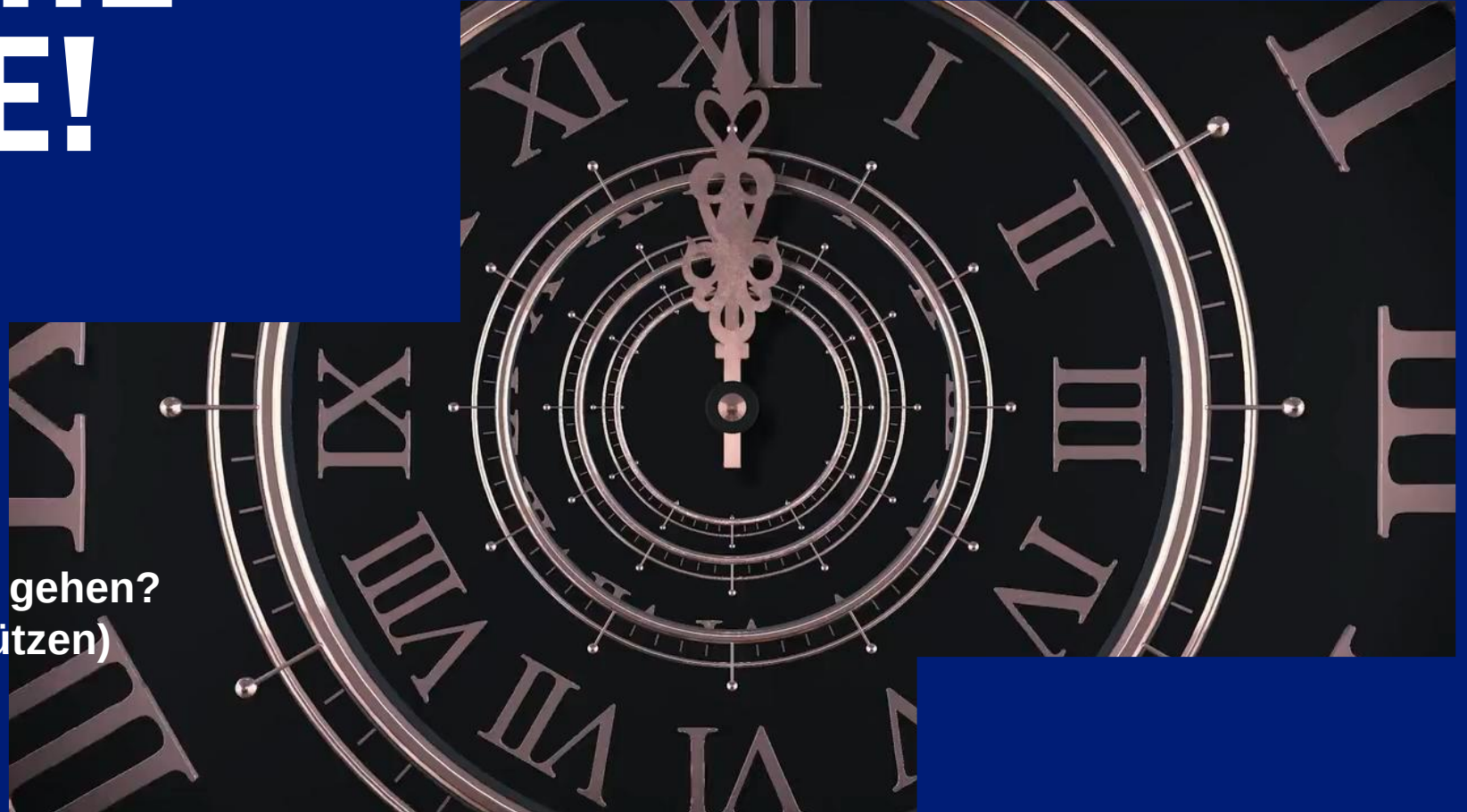


- **Management:** BlueXP
- **Data Protection:** Trident Protect, BlueXP Backup & Recovery
- **Observability:** Data Infrastructure Insights (DII)
- **Cybersecurity:** Autonomous Ransomware Protection (ARP / AI) & DII Workload Security



SPEED IS THE NEW SCALE!

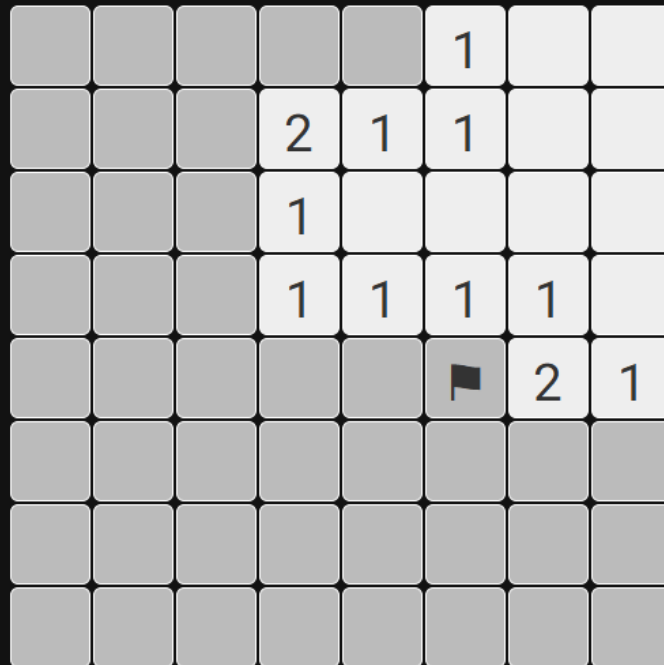
- Time To Market!
- Early Adopter needed!
- Was soll schon schon schief gehen?
(NetApp wird uns schon schützen)



Retrogames Multiplayer Minesweeper

Evil Impala

THE NEW A70! BUY NOW!



Multiplayer Name

Werbung! Werbung! Werbung!
Moneymaker

Reveal = Feld aufdecken
Flag = Mine markieren

Reveal

Flag

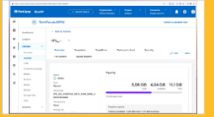
Exklusive Preview



<https://retrogames.work>

Recovery?

Gut, wenn man die Wahl hat



Applikations-Ebene

- Trident Protect
- Applikation & dazugehörige Daten
- Konsistent bis in die Applikation

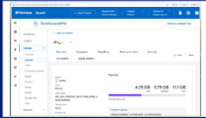
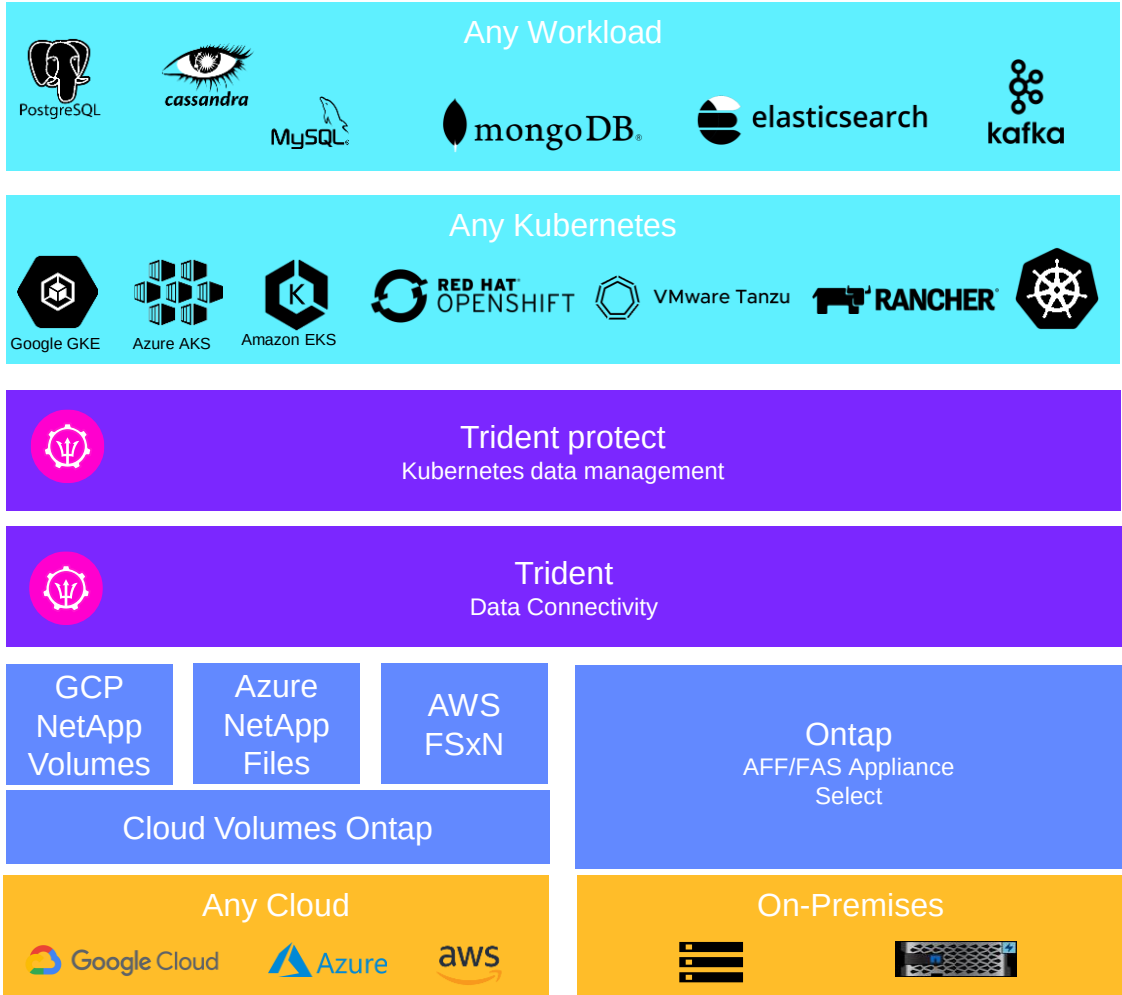


Infrastruktur/Storage Ebene

- BlueXP Ransomware Protection
- Ontap Snapshots
- Schnelle Wiederherstellung der Daten



Trident Protect



Free Trident add-on

Prevent data loss

- Data cannot be lost or corrupted!
- (Even in cloud-native world)

Reduce downtime

- Business needs to recover & continue
- (Under all conditions)

Simplify DevOps operations

- App Data is valuable
- (More than the k8s clusters which created it)

ARP / AI

File-based threat detection and response



World's first and only AI-driven on-box ransomware detection for NAS



Multiple signals: Entropy, file activity, and file headers



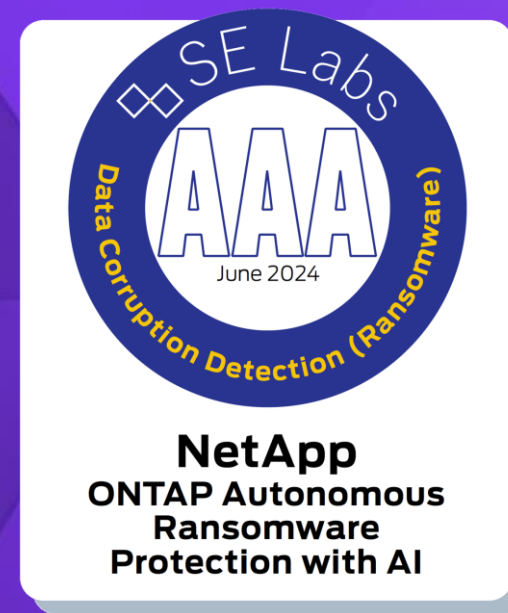
Next-generation AI ensure precise detection from day one



Auto-update for optimal, efficient, and accurate turnkey detection (GA)



Effortless upgrades for existing ARP customers (GA)



Precision
(Alerts are accurate)

100%

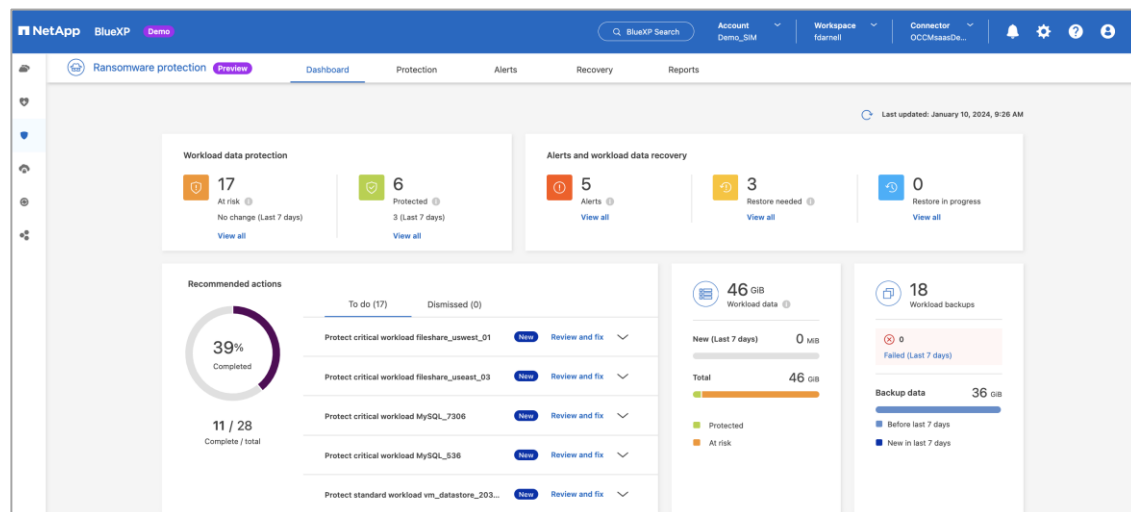
Recall
(Detect every attack)

99%

Some words from our lawyers: No ransomware detection or prevention system can completely guarantee safety from a ransomware attack. Although it is possible that an attack can go undetected, NetApp technology acts as an important additional layer of defense.

Fast orchestrated workload protection & recovery

A single control plane to intelligently orchestrate a **COMPREHENSIVE, WORKLOAD-CENTRIC** ransomware defense



AI-based on-device
anomaly detection



AI-based UEBA
anomaly detection



Malicious file
blocking



Data intelligence



Policies



Immutable backups



Immutable
Snapshots™

NetApp® BlueXP™ ransomware protection

Orchestrates the powerful cyber-resilience features of NetApp ONTAP® and services

- Complete visibility of workload protection posture
- Intelligent recommendations to improve ransomware protection posture
- Automated workload-centric protection workflows
- Alerts and investigation
- Guided, fast workload recovery
- SIEM Integration (e.g. Splunk, Sentinel,...)

KEY TAKEAWAYS

01

Most Secure
Storage On The
Planet

02

K8S Workloads
schützen mit
Trident Protect

03

Erkennung in
Echtzeit mit ARP / AI

04

Konsolidierung mit
BlueXP Ransomware
Protection

05

Ransomwareattacken
treffen Ökosysteme

06

Wir verstehen vielleicht mehr
von Storage, als von
Retrogames ... ;)

connect

TECHNOLOGIE FORUM

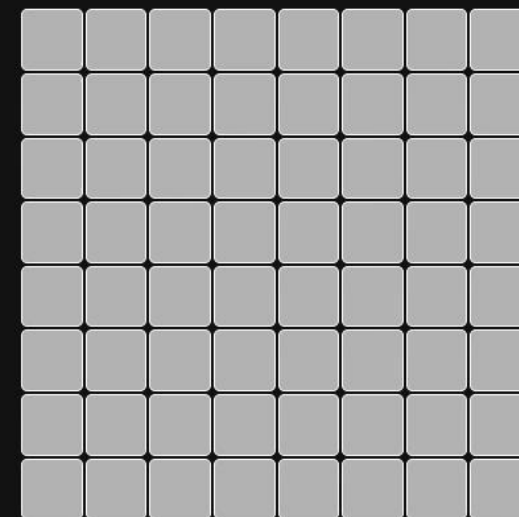
Wir danken unseren Sponsoren:



Start

Giant Turtle

**NETAPP A1K: BECAUSE YOUR
DATA DESERVES A
TURBOCHARGED HOME**



Reveal

Flag

giant-turtle-35

0

wet-dragon-24

0





TechForumARPAI

[Switch to standard view](#)



Dashboard

Insights

Storage ⌵

Overview

Volumes

LUNs

Consistency groups

Shares

Buckets

Qtrees

Quotas

Storage VMs

Tiers

Network ⌵

[← Back to Volumes](#)

nfs_... ⌵

Overview

Snapshots

SnapMirror

Back up to cloud

Security

[✎ Edit](#)

[⋮ More](#)

File system

Quota Reports

Status

🟢 **Online**

Style

FlexVol

Mount path

**/nfs_pvc_8105f7a3_3d73_4cdd_b9da_2
5002132c86d**

Tiering policy

None

Storage VM

Capacity

5,96 GiB

Used

4,04 GiB

Available

11,1 GiB

Size

1,79 GiB logical used

Snapshot capacity

0 Bytes Available 5.28 GiB Used 4.17 GiB Overflow

 TechForumARPAI

[Switch to standard view](#)

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nfs_... 

Overview

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 Edit  More

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Style

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Mount path

**/nfs_pvc_8105f7a3_3d73_4cdd_b9da_2
5002132c86d**

Tiering policy

None

Storage VM

Capacity

4,25 GiB

Used

5,75 GiB

Available

11,1 GiB

Size

55,5 MiB logical used

Snapshot capacity

0 Bytes Available **5.31 GiB Used** **4.2 GiB Overflow**