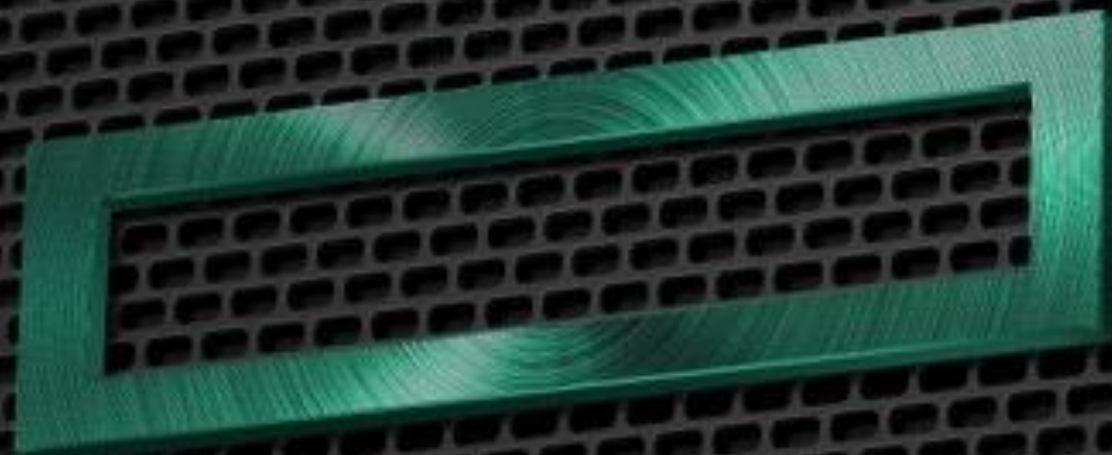




**Hewlett Packard  
Enterprise**



# Elopak's erfaringer med HPE Nimble Storage og InfoSight

Lær af Elopak og få tips til optimering af dit datacenter

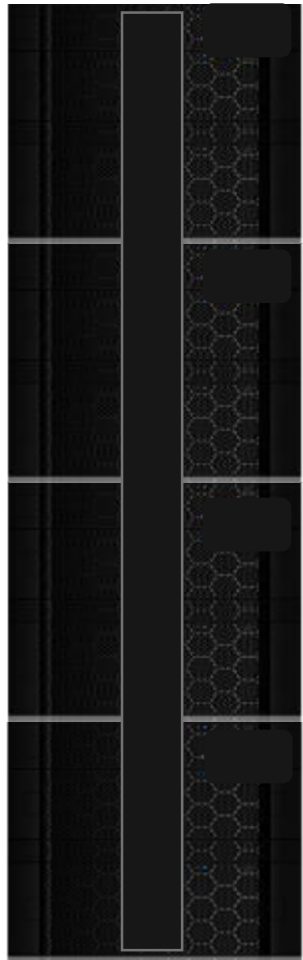
Frank B. Røikjær, IT Manager, ELOPAK  
Christian Post, Enterprise Architect, HPE



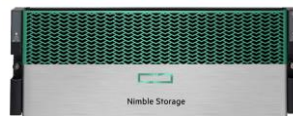
A hand is pouring milk from a white and green Elopak Pure-pak carton into a clear glass. The carton has 'Pure-pak', 'fresh milk', and '1000 ml' printed on it. In the background, there is a grey bowl filled with chocolate chip cookies. The scene is set on a light-colored wooden surface.

**Elopak is an international supplier of paper based packaging solutions for liquid food**

# ELOPAK storage simplified

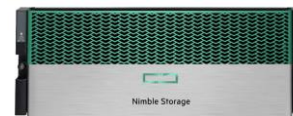


Okt 2017



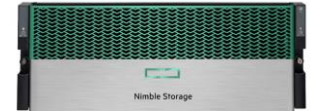
Production

2019

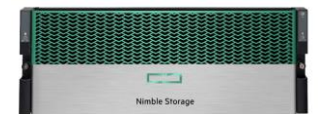


Added  
Secondary site  
with Veeam  
backup

today



Production



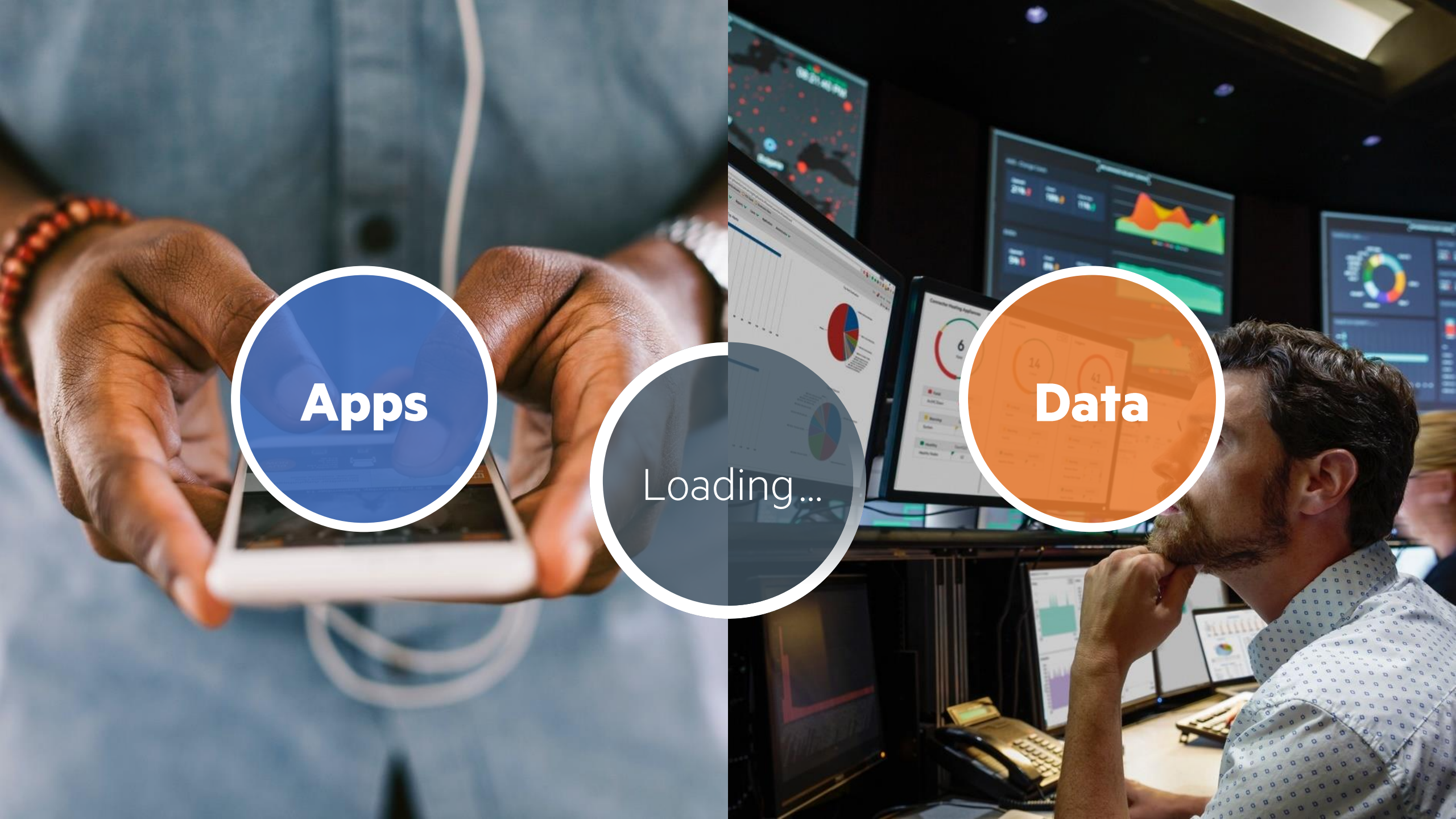
Secondary site  
with Veeam  
backup



# Preemptive Recommendations in Use Everyday







**Apps**

Loading...

**Data**

# Endless Fire-fighting with Lost Nights and Weekends

1

Reacting to unexpected problems

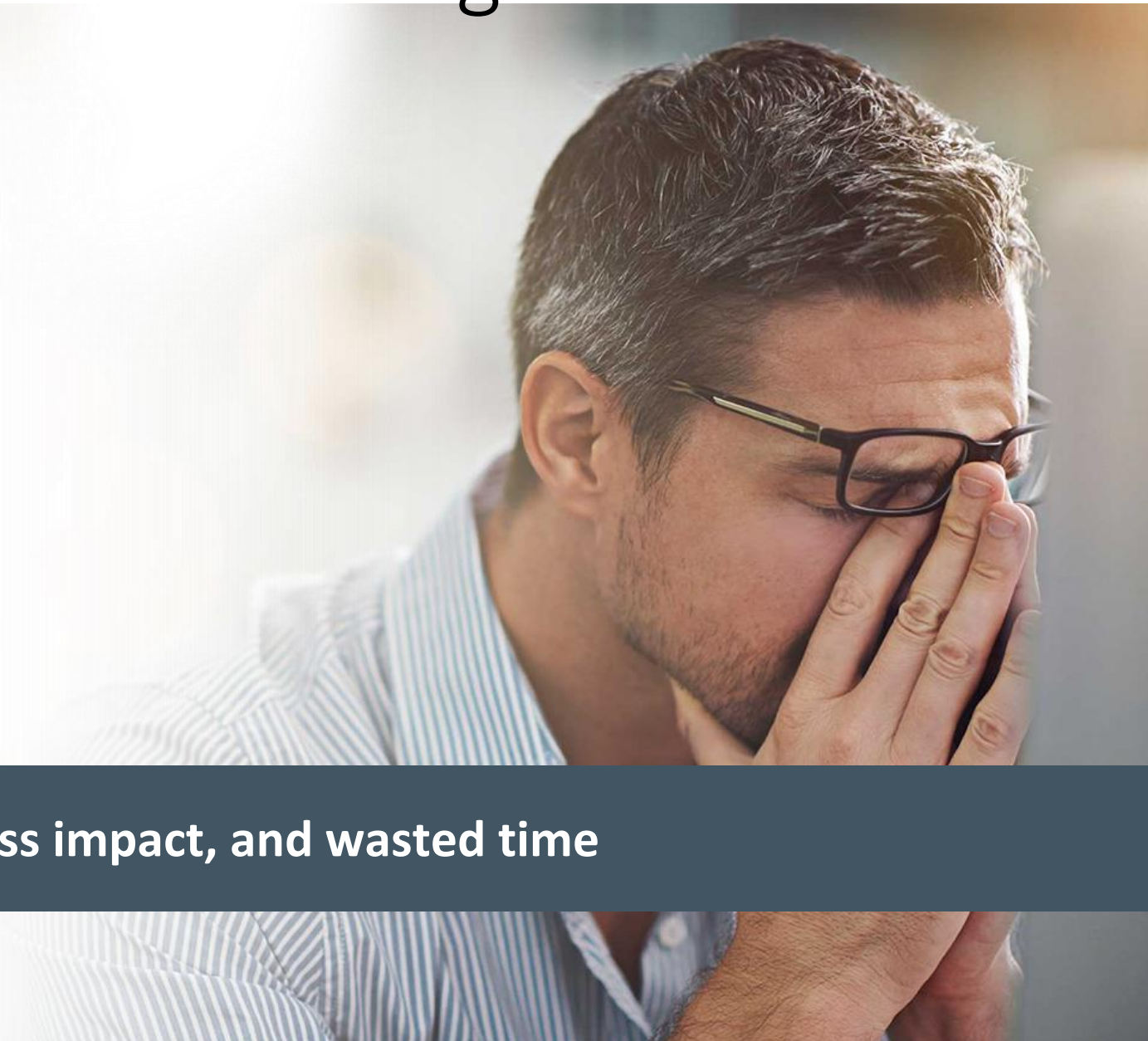
2

Spending countless hours interpreting graphs and logs

3

Calling vendor support adds to the frustration

**Disruptions, business impact, and wasted time**





Community Data



Telemetry Data

PROPRIETARY  
**MACHINE LEARNING**  
ALGORITHMS



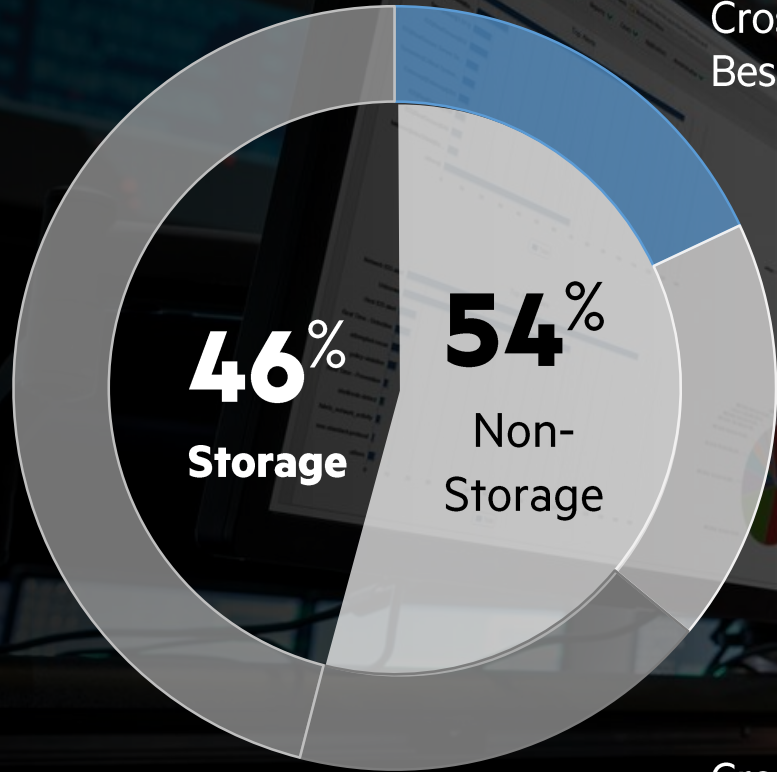
HPE InfoSight

Predict and Prevent  
Issues





# There is no one cause...



Cross-stack  
Best Practices

Cross-stack Resource  
Contention

Cross-stack  
Interoperability

Source: InfoSight analysis HPE customer base

## Cross-Stack Telemetry

vmware

 docker

ORACLE

Microsoft  
SQL Server

Compute

Network

Storage



# Transformed Support Experience



One call to level 3  
No support tiers



Average hold time  
<1 minute



93% cases opened  
automatically



>4.91 out of 5 in  
customer satisfaction



86% cases provide  
solution automatically



85 NPS customer loyalty



54% issues solved are  
outside of storage



>99.9999%  
availability

➡️

4  
CPU COUNT

24.0 GiB  
MEMORY

81.4 GiB  
USAGE

200.0 GiB  
ALLOCATED

150.10  
AVG IOPS

PERFORMANCE  
(PAST 24 HRS AVG)  
0.18 ms  
AVG LATENCY

3.00 ms  
MAX LATENCY

Performance

Capacity

VMDKs

Time Range: 28.02.2018 17:08 CET to 07.03.2018 17:08 CET

InfoSight Cross-Stack Analytics for VMware Environments  
Shows you a detailed breakdown of your VM

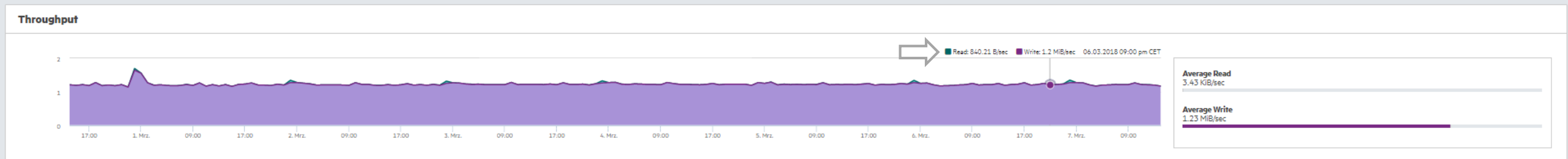
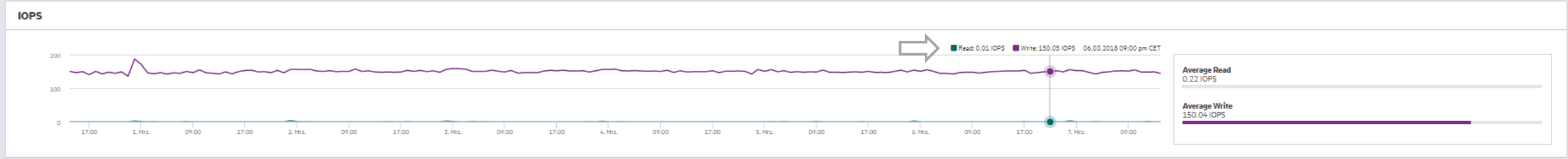
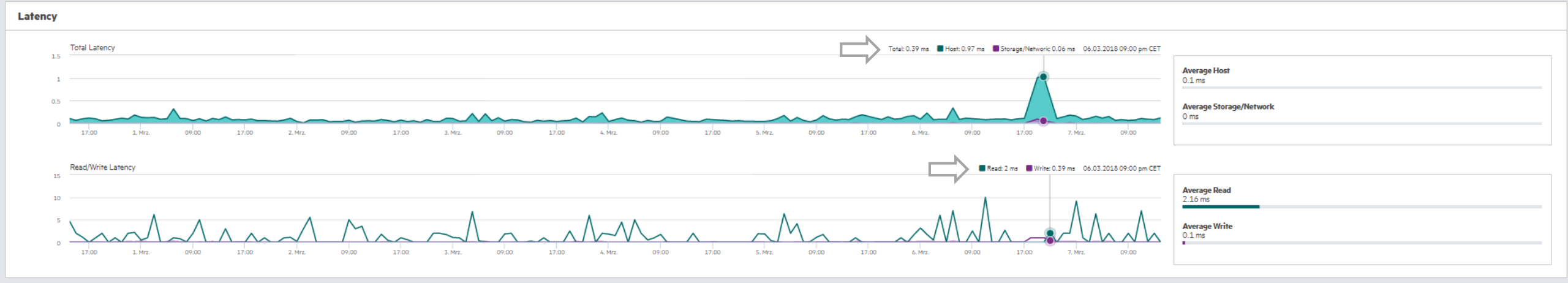
1D

1W

1M

3M

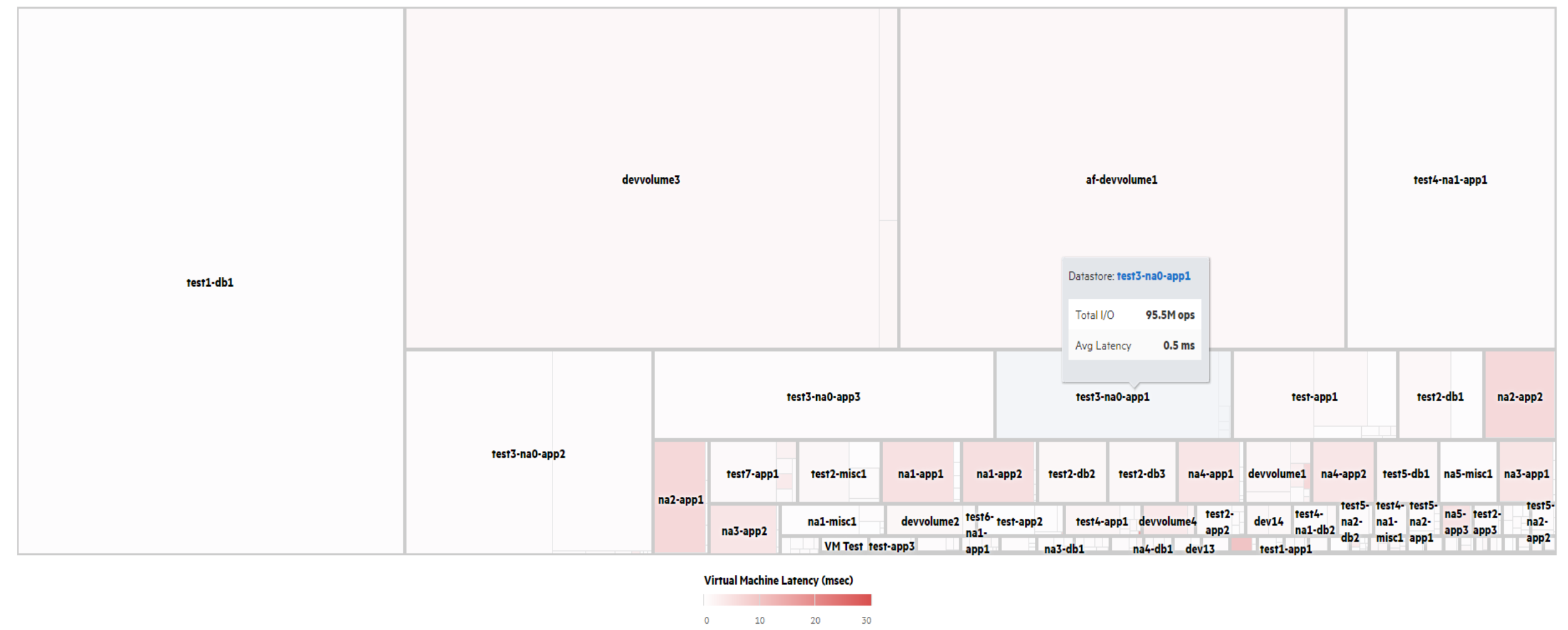
Custom





View 📊 VM I/O Contention Treemap ▾    For vCenter is-vcenter.lvs.nimblestorage.com ▾

**VM I/O and Latency grouped by Datastore** Past 24 Hours



# AI Recommendation Example:

1



## Prediction

### **Data availability**

disruption due to obscure  
memory leak

2



## Diagnostics

### **Signature matching**

60+ memory allocation  
sensors forecasted over  
time, correlated across the  
installed base

3



## Recommendation

### **40 Customers**

Received an automatic case  
sent to apply non-disruptive  
update to avoid impact



# How did Infosight impact the Elopak IT infrastructure

## Some few examples:



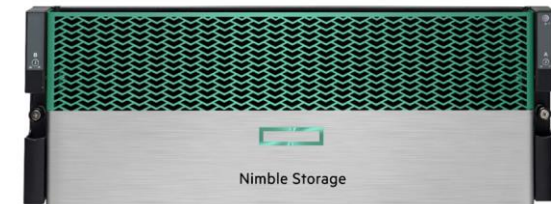
**Dashboard** : Visibility - quick and easy check of current status

**Alerts** : When action is needed

**Visual** : Using intuitive graphs and visual representations of the current situation

**L3 Support** : Not only focused on Nimble, but helped with cases that didn't relate to storage.

**Result:** Insight



# The industry's *broadest* and *deepest* flash portfolio

Affordable  
acceleration



**HPE MSA**

Built for enterprise HCI



**HPE SimpliVity 380**

**Simplicity** and a  
new approach  
to storage and  
support with HPE  
InfoSight



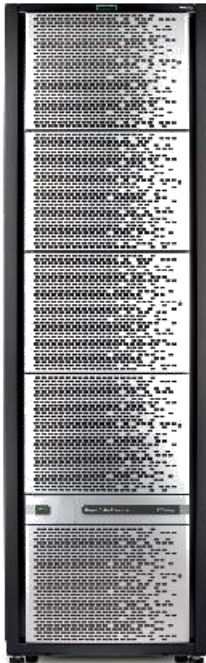
**HPE Nimble Storage**

**Flexibility** with  
Mission-Critical  
Redefined



**HPE Primera**

Extreme availability



**HPE XP7**

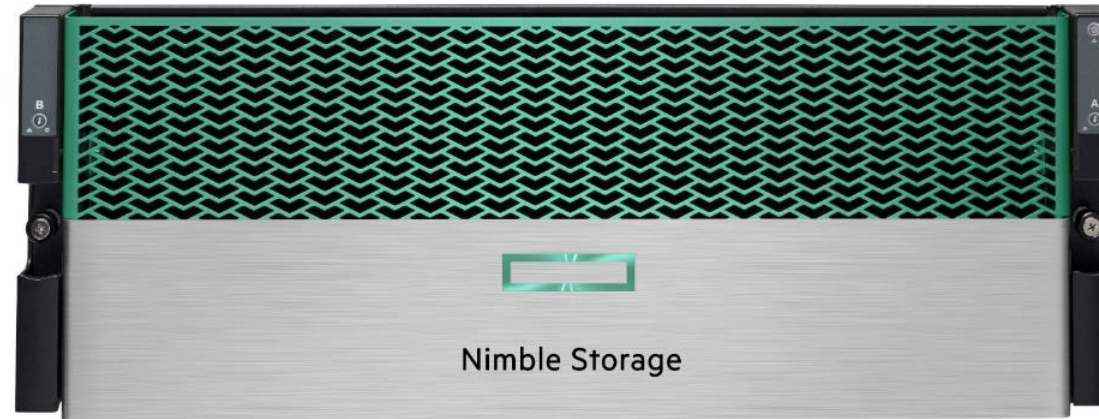
Predictive

Cloud Ready

Timeless



# HPE Nimble Storage



HPE Store More  
Guarantee

Buy with confidence. Deploy  
the most efficient all-flash  
array.

Storage Class Memory  
and NVMe Ready

Future-proof investments

Next Generation hardware

All Flash platform that  
delivers up to 220%<sup>1</sup> better  
price-performance

Inline always-on dedupe  
on Adaptive Flash arrays

Industry's most efficient  
hybrid arrays

1) Based on internal HPE product comparisons

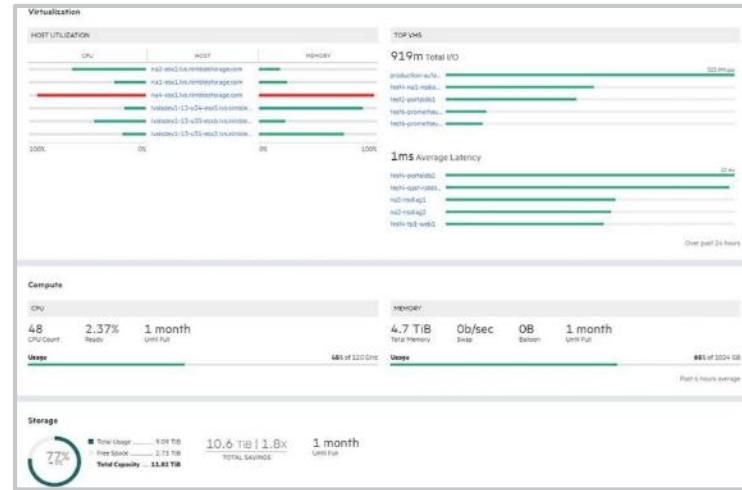
# HPE Nimble Storage dHCI

Flexibility of Converged. Simplicity of HCI.

Intelligently  
Simple

Absolutely  
Resilient

Efficiently  
Scalable



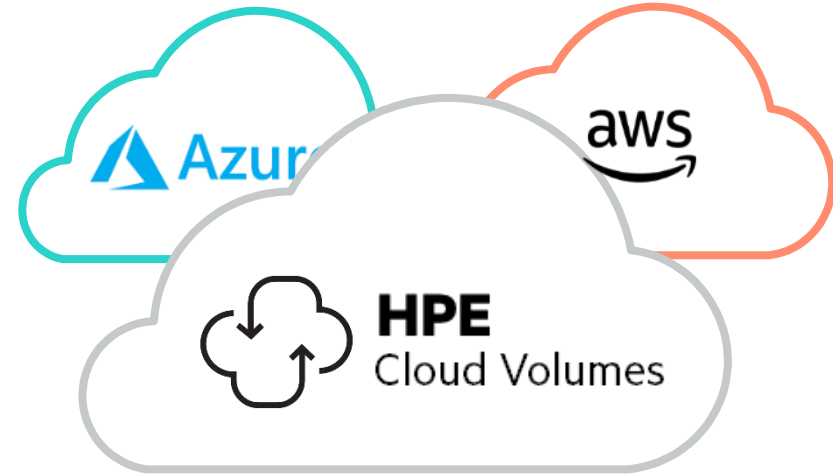


# HPE Nimble Storage dHCI *efficiently scalable*

Easy workload mobility across hybrid cloud with HPE Cloud Volumes



Native bi-directional  
data mobility



Hybrid Cloud  
Backup and DR

Agility for  
DevOps

Hybrid Cloud  
Container Apps

## Round up & findings :

### **Learnings and situation today:**

- Only one admin -> shifting focus to business and security
- Simplified overview and administration
- Predictive maintenance
- Delivery and implementation
- Backup and restore – Veeam integration and speed



# HPE Storage – Going beyond Flash

## Predictive

AI for the data center to predict and prevent issues and eliminate the pain of support

## Cloud Ready

On-premises infrastructure that enables easy mobility between on-premises and the public cloud

## Timeless

Future-proof your investment with all-inclusive licensing, guaranteed availability flexible upgrade and payment options







**Hewlett Packard**  
Enterprise

Thank you