



# connect

TECHNOLOGIE  
FORUM

**12. März 2025**  
**Hannover**

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Global Technology Strategist



**NetApp Freemium**  
**Alles kostenlos, aber**  
**nicht umsonst**



# NetApp Technologie für LAU!



Platform  
Integration

Observability

Try & Learn

Automation





# AUTOMATION

Mmmmhhh...atjes!



# Open APIs & Orchestration

It's your infrastructure, you choose how to manage it – and ONTAP will integrate seamlessly

- Every command in ONTAP can be accessed via a modern REST API, integrated directly into your workflows
- Complete API documentation available directly within management tools.
- Simple integration with multiple frameworks:



ANSIBLE



Terraform



Python Client  
Library



PowerShell  
Toolkit

Open-source on each community site, with updates/fixes from NetApp on a ~monthly basis

The screenshot shows the ONTAP REST API documentation for the 'storage' resource. The left sidebar lists endpoints for aggregates, with methods like GET, POST, PATCH, and DELETE. The main content area shows the 'Plugin Index' for the 'netapp.ontap' collection, listing modules like 'na\_ontap\_aggregate'. A code block in the foreground shows Python examples for creating a volume:

```
from netapp_ontap.resources import Volume

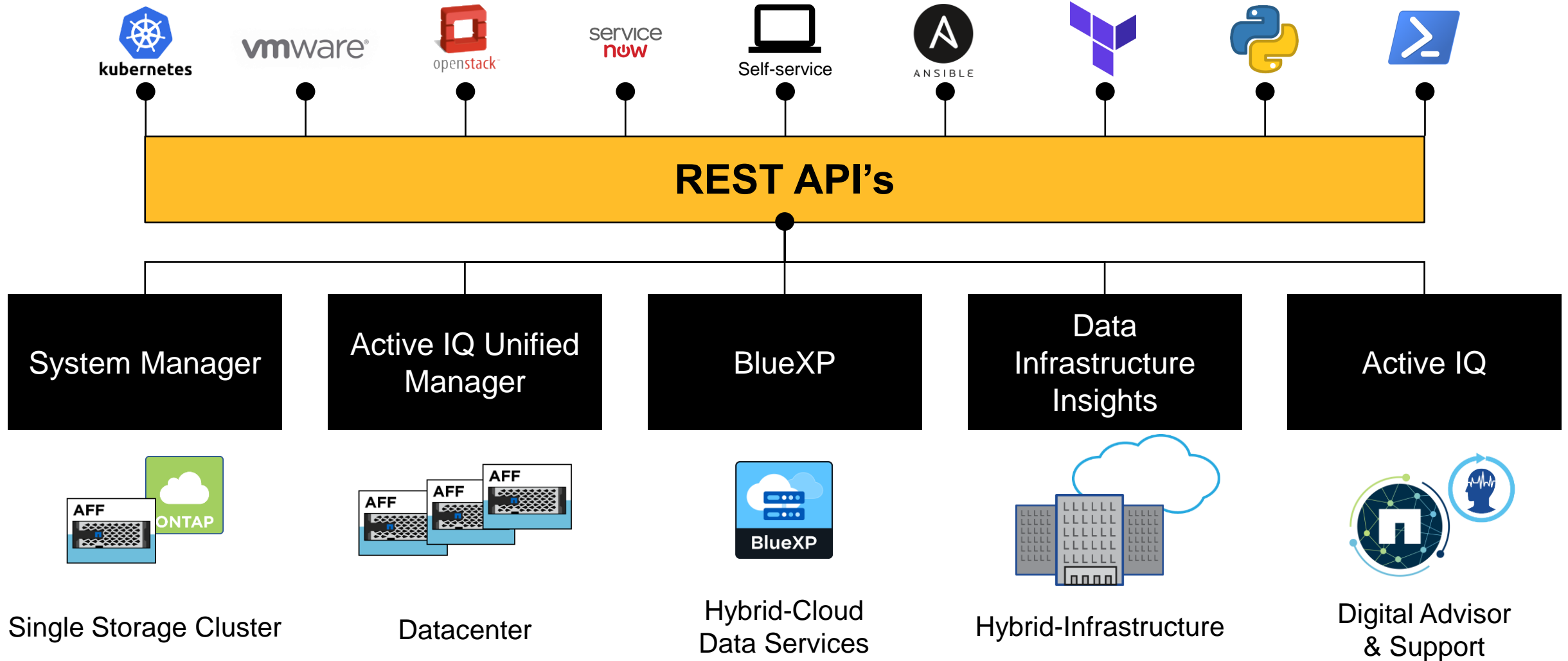
# Example 1 - keyword arguments
volume = Volume(name='vol1', svm={'name': 'vs1'}, aggregates=[{'name': 'aggr1'}])

# Example 2 - dict as keyword arguments
data = {
    'name': 'vol1',
    'svm': {'name': 'vs1'},
    'aggregates': [{'name': 'aggr1'}],
}
volume = Volume(**data)

# Example 3 - using the from_dict() method
volume = Volume.from_dict({
    'name': 'vol1',
    'svm': {'name': 'vs1'},
    'aggregates': [{'name': 'aggr1'}],
})
```

# Manageability Eco-system

Make it work your way!



# PLATFORM INTEGRATION

Backfrischer Backfisch



# Intelligent Data Infrastructure

For...

Application Operations

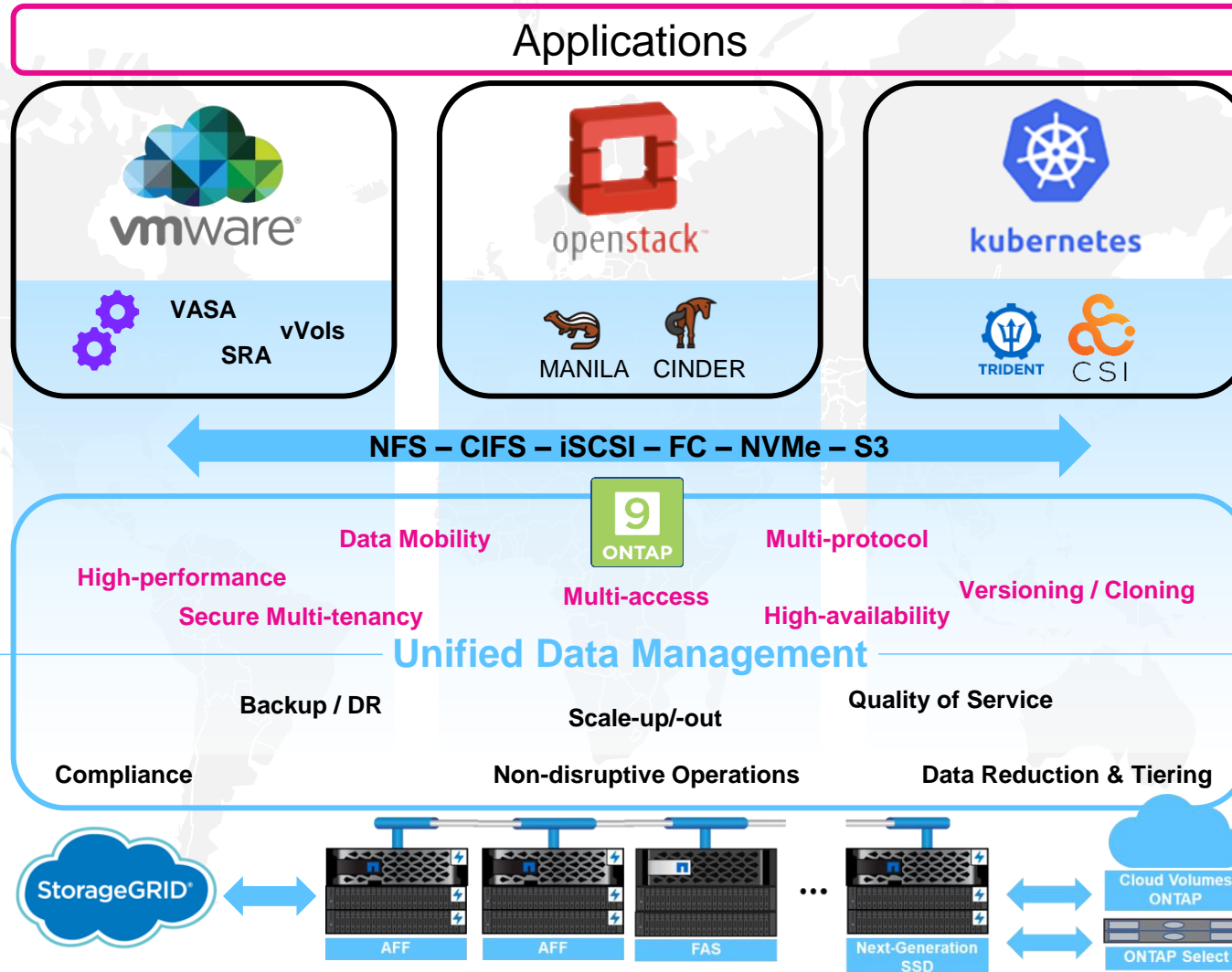
Platform Operations

Platform Integration

Open Protocols

ALL App Benefits

ALL Ops Benefits



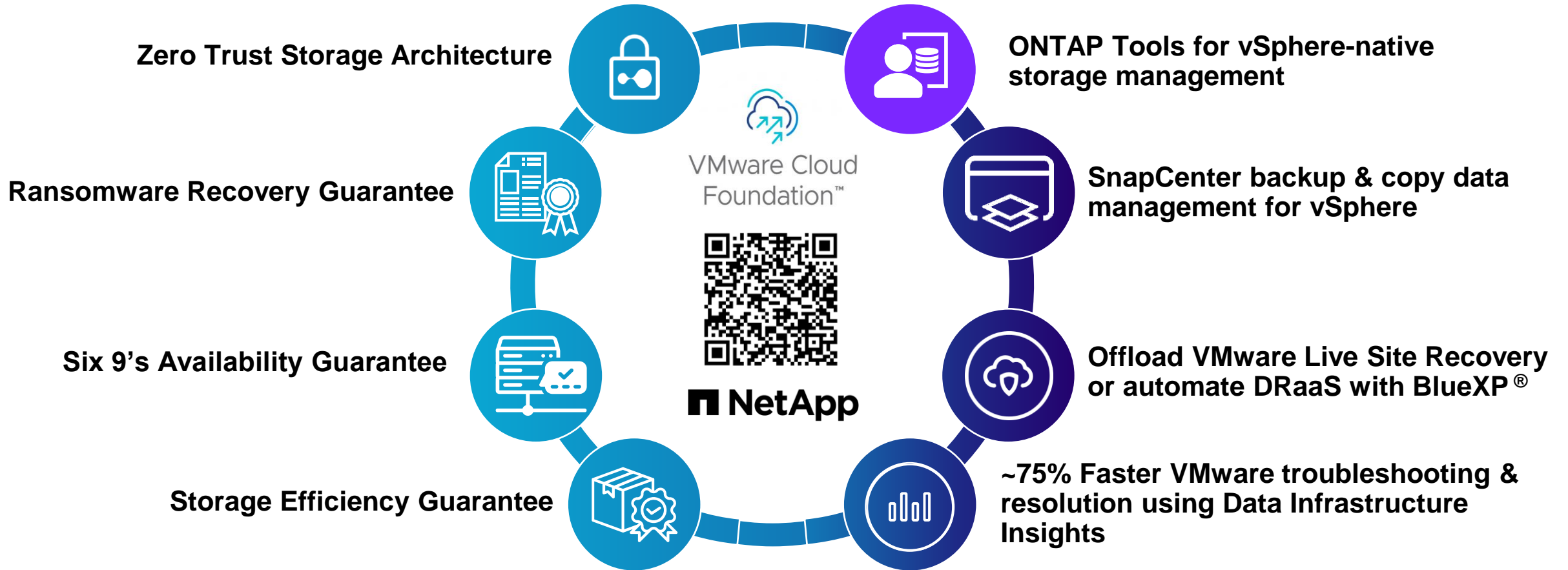
## Unified Storage Benefits

- Supported Platform Integration
  - VMware, OpenStack, Kubernetes
  - Simple Application On-boarding & Migration
- Operational Integration
  - Automation / Orchestration
- Consolidation and Operational Efficiency
  - Lifecycle Management (e.g. automated non-disruptive upgrades)
  - Investment Protection & Reduced TCO
  - Efficient resource allocation

All benefits for any application on any platform

# INTELLIGENT DATA INFRASTRUCTURE FOR VMWARE CLOUD FOUNDATION

vSAN 5.2 (July 2024) Removed vSAN Requirement



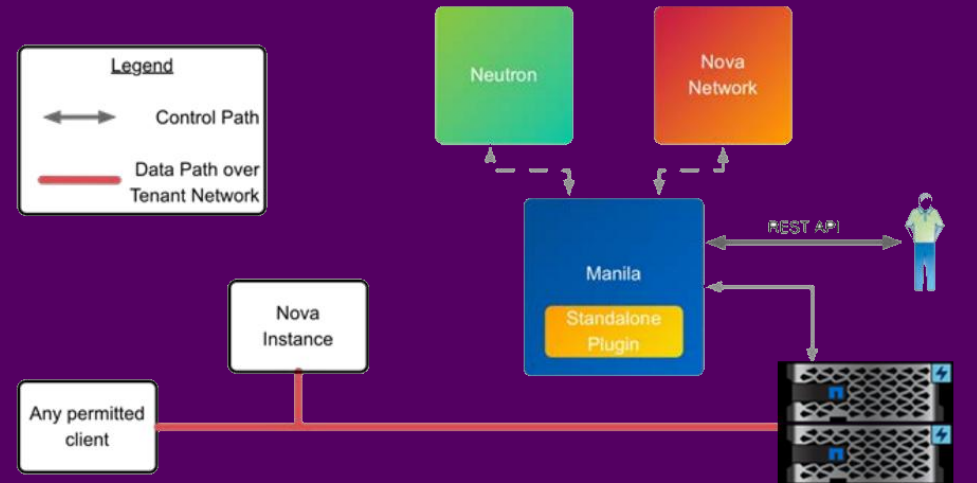
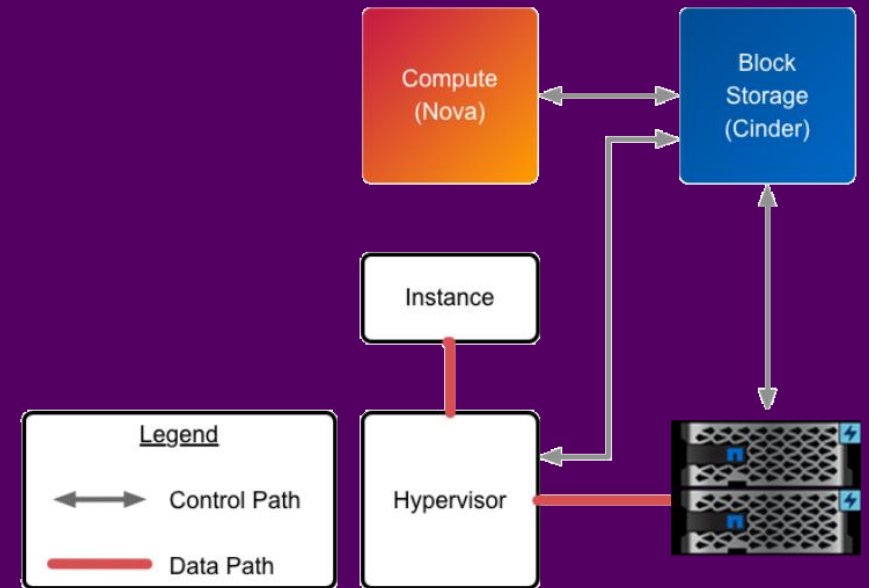


# OpenStack Integration

## Manila & Cinder

- Leading Storage Vendor
- OpenStack Community Contribution
- Scale
- Reduces Data Replication
- Rich Feature Set
- Accelerate Test & QA
- Platform & Protocol Support
- Orchestration
- Open Source

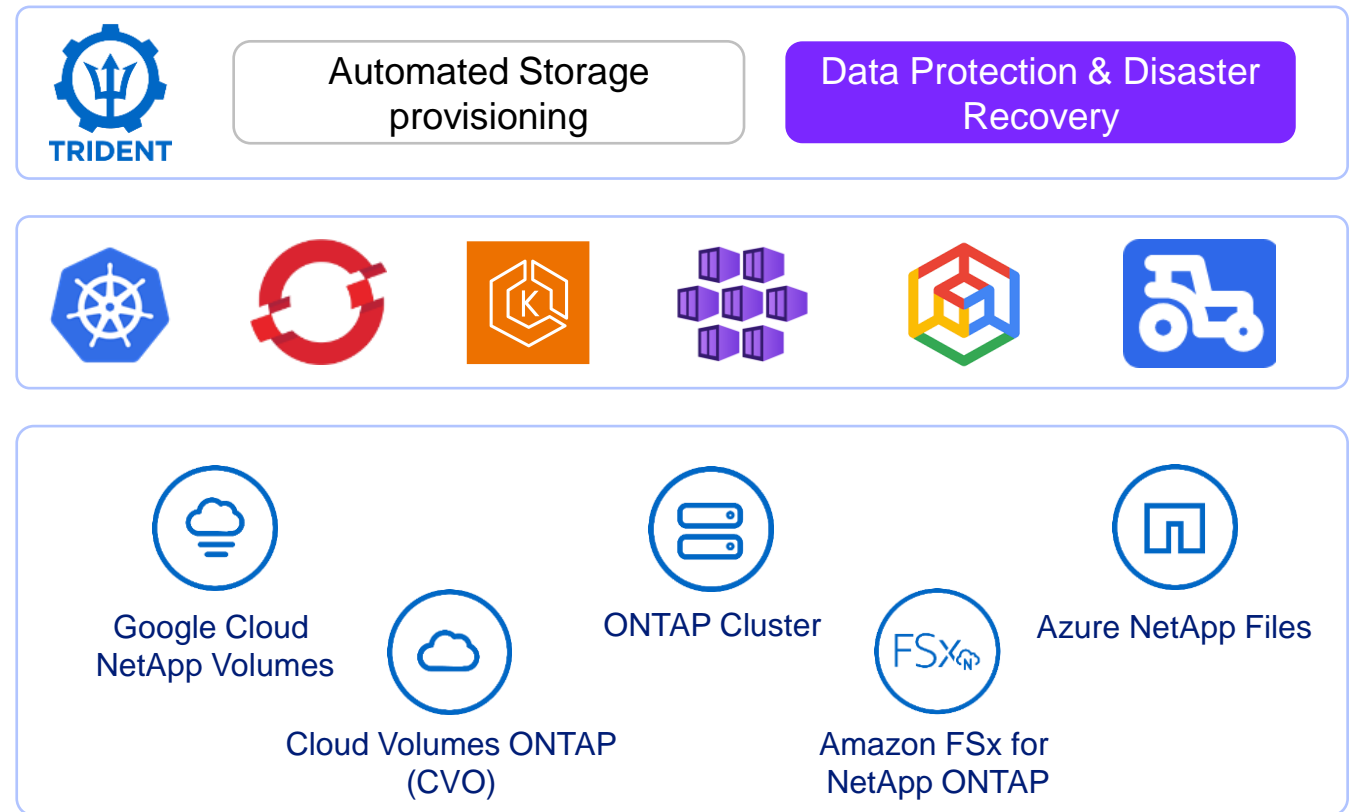
<https://netapp.io/openstack/>  
<https://docs.openstack.org/cinder/victoria/configuration/block-storage/drivers/netapp-volume-driver.html>  
<https://docs.openstack.org/manila/victoria/configuration/shared-file-systems/drivers/netapp-cluster-mode-driver.html>



# NetApp Trident

## Advanced data management and protection

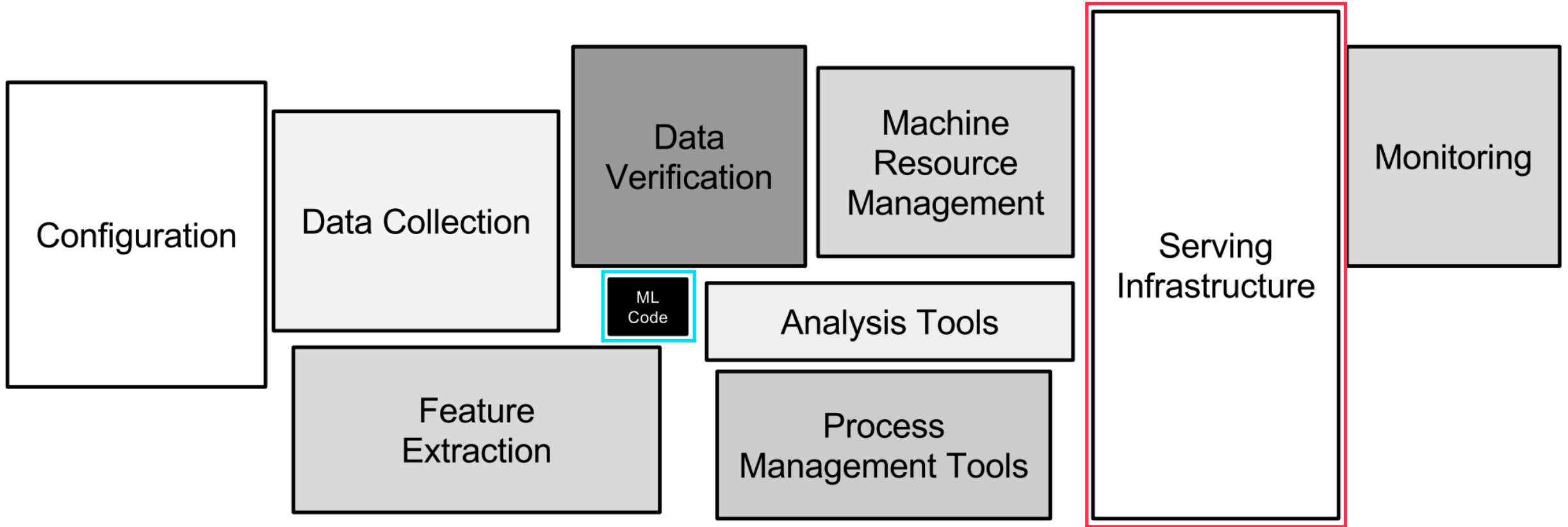
- Fully CSI-compliant, Kubernetes-native storage and data management solution
- Free to use CRDs for data protection and disaster recovery
- Snapshots, backups, and restores
- Migration and portability of apps with their data
- Disaster recovery with storage replication
- KubeVirt / OpenShift Virtualization DR
- Simplified blue-green upgrades



# DATAOPS TOOLKIT

# Data Scientists

But what do they actually do?





# NetApp DataOps Toolkit

Simplify data management tasks for Data Scientists and Data Engineers

## DataOps Toolkit

- Open Source Python Library for standard development environments (e.g. Jupyter Notebooks)

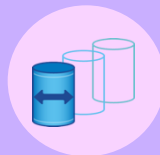
- Simplified data management:



Versioning  
with  
Snapshots



Provisioning  
of Volumes

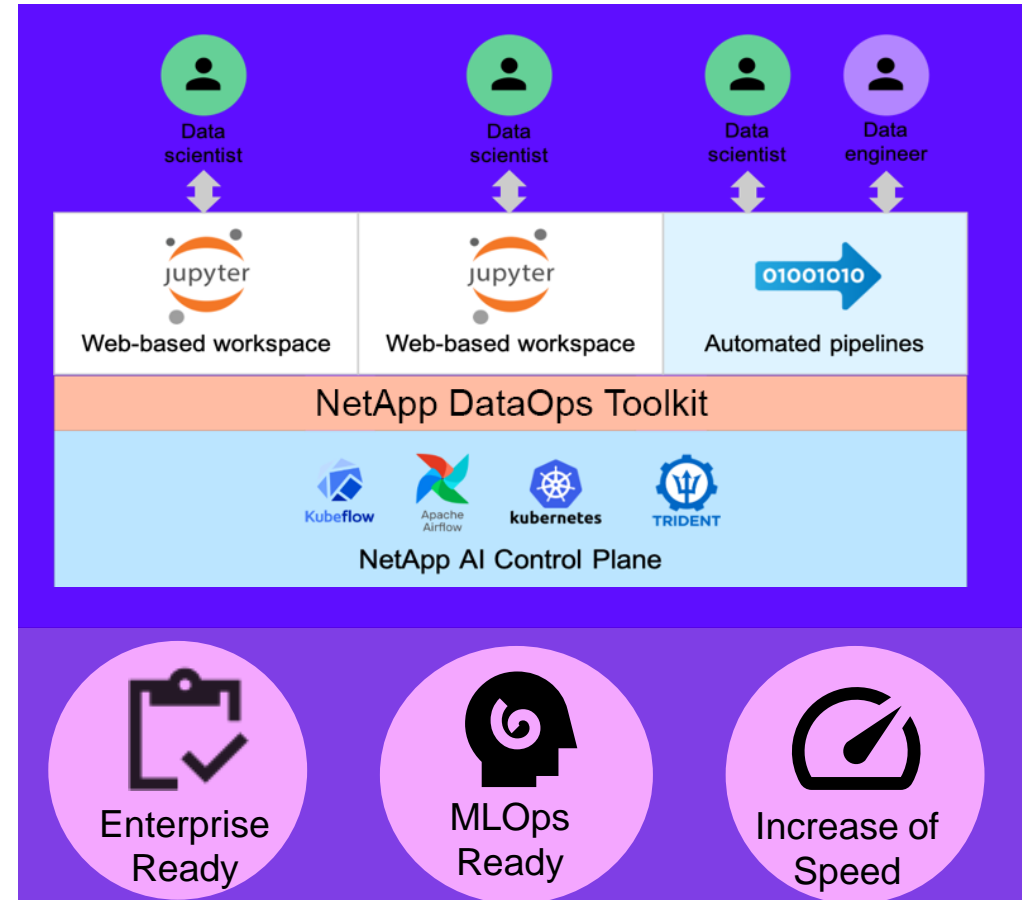


Creating  
FlexClones



Access to  
S3

- Supports Kubernetes environments



# WORKLOAD FACTORY

# Organizations are migrating their workloads to the cloud



**Increased  
Speed**



**Accelerate  
Innovation**



**Improved  
Security**



**Reduce  
Costs**

**Workload Admin**

**Infrastructure Admin**

**Solution Architect**

**DEPLOY**

Assess, plan, provision, and move

**OPERATE**

Automate, monitor, and optimize

**PROTECT**

Backup, restore, and disaster recovery

**Automation Workflows**

API



Acquire industry and vendor best practices

Deploy and manage using various tools

QA

Code Snippets

Create automation for repetitive tasks

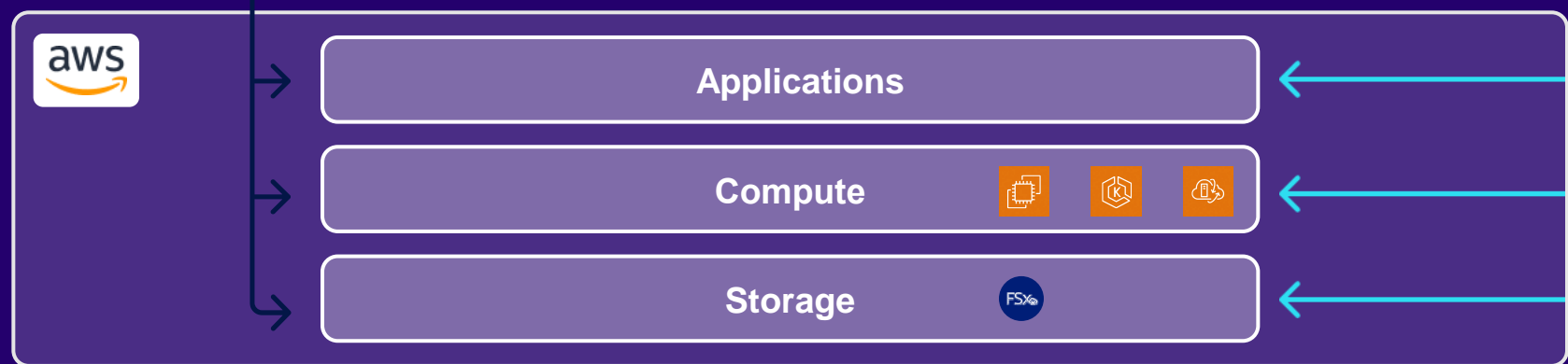
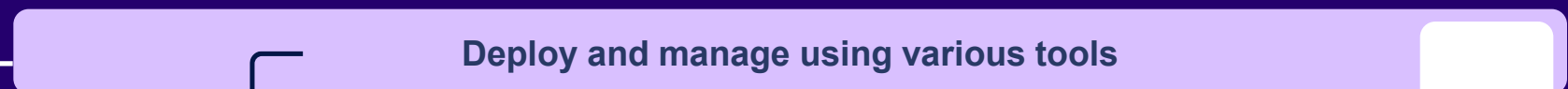
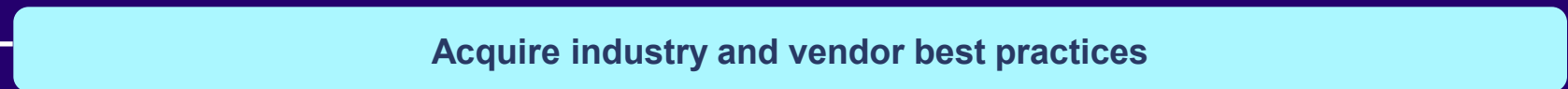
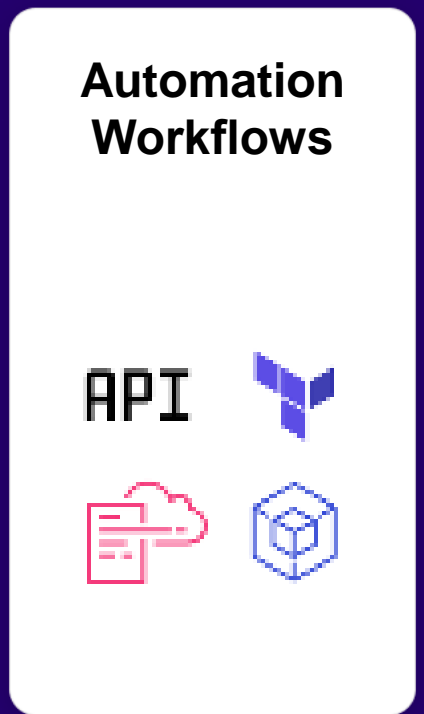
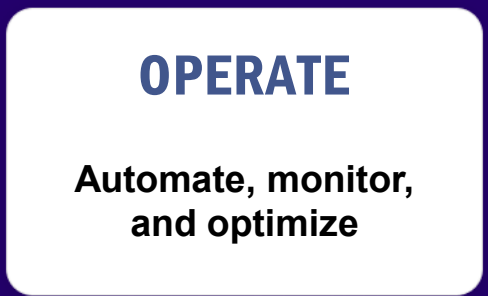
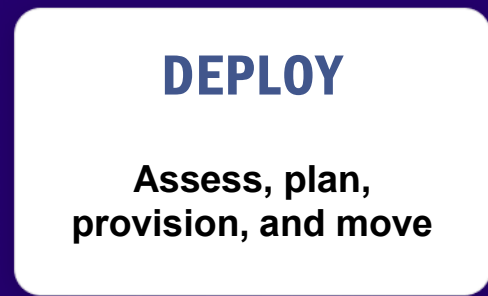


Applications

Compute



Storage





# Resulting challenges



**Long  
planning times**



**Considerable  
operational efforts**



**Excess  
costs**



**Substantial  
delays**

**Workload Admin**

**Infrastructure Admin**

**Solution Architect**

**DEPLOY**

Assess, plan, provision, and move

**OPERATE**

Automate, monitor, and optimize

**PROTECT**

Backup, restore, and disaster recovery

**Automation Workflows**

API



Acquire industry and vendor best practices

Deploy and manage using various tools

Create automation for repetitive tasks

QA

Code Snippets

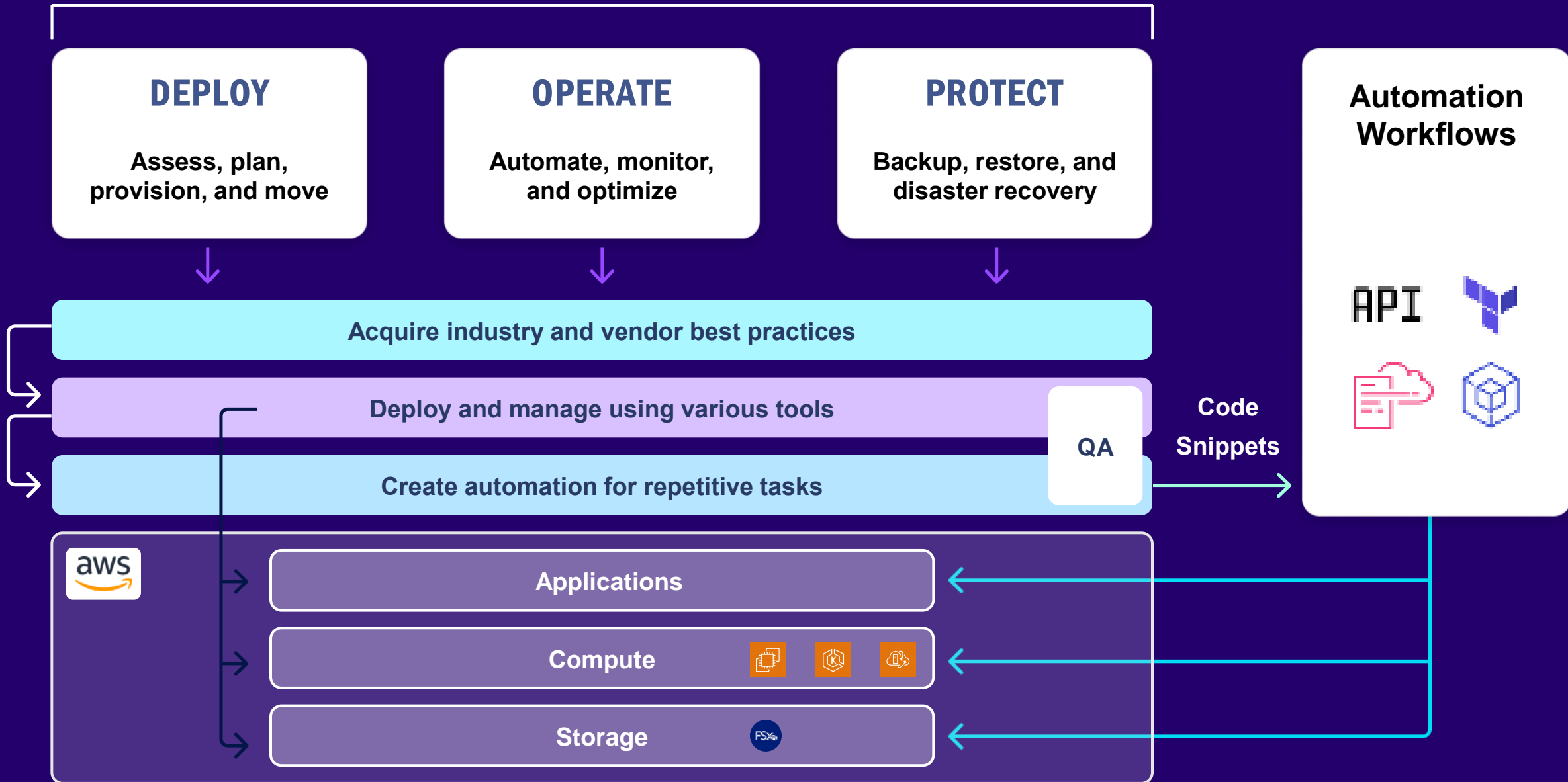


Applications

Compute



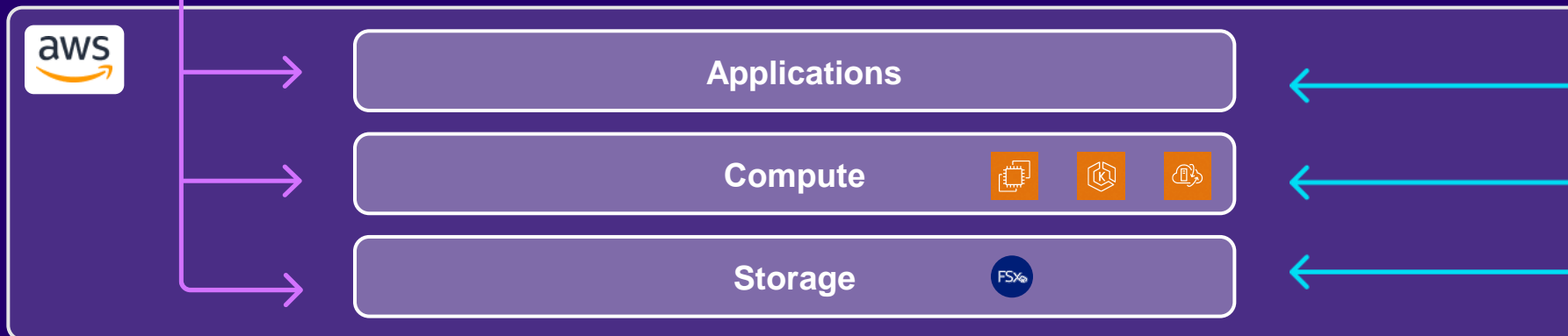
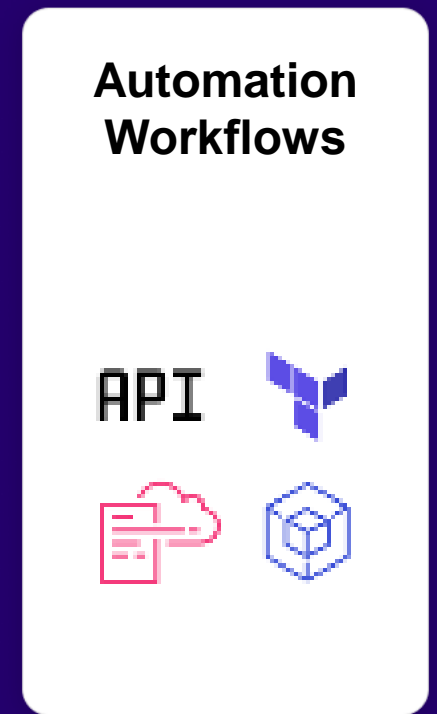
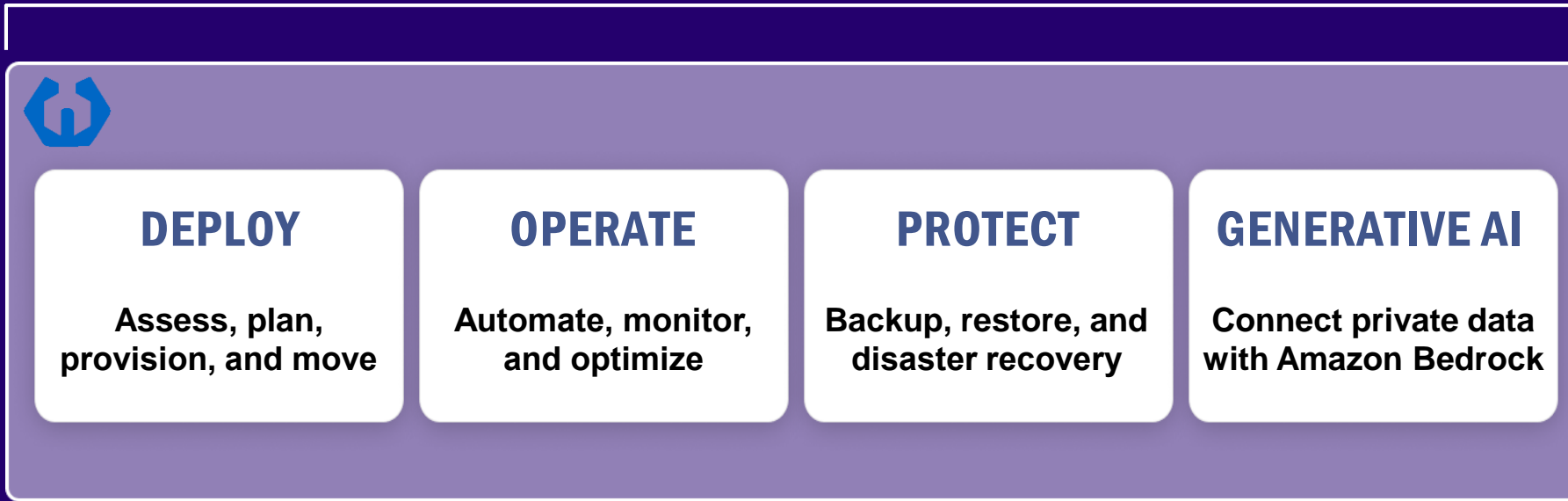
Storage



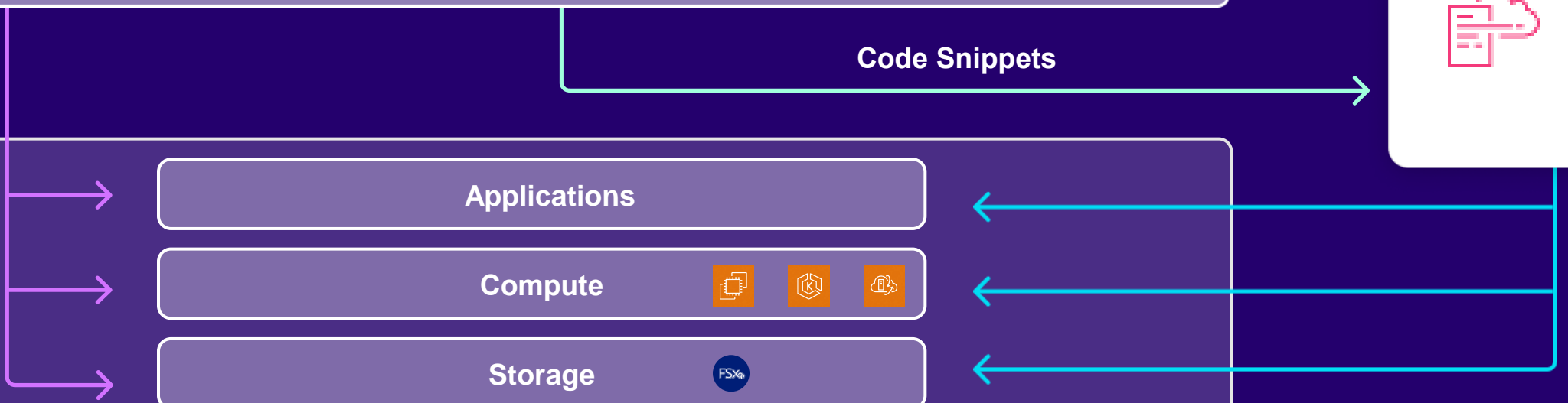
Workload Admin

Infrastructure Admin

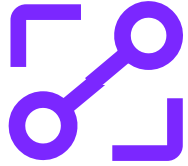
Solution Architect



Code Snippets

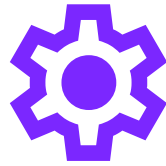


# Capabilities overview



## Deployment

- Asses existing workloads for cost, performance, security, and resilience needs
- Generate a deployment plan based on use case requirements and best practices
- Provision workload and an optimized FSx for ONTAP instance



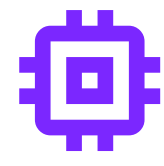
## Operation

- Monitor resources, costs and performance through inventory and dashboards
- Integrate into automation workflows with auto-generated Infrastructure-as-Code snippets
- Automate capabilities through code with extensive REST API



## Protection\*

- Backup and restore workload data using NetApp Snapshots, and FSx backup
- Replicate workload data across AWS regions for disaster recovery



## Generative AI

- Connect foundational models of Amazon Bedrock to private enterprise data:
- Provision a chatbot application infrastructure
  - Refer to FSx for ONTAP knowledge bases using Retrieval-Augmented-Generation (RAG)
  - Use meta-data aware APIs for secure chat



# MONITORING & OBSERVABILITY

Krabbenkick!



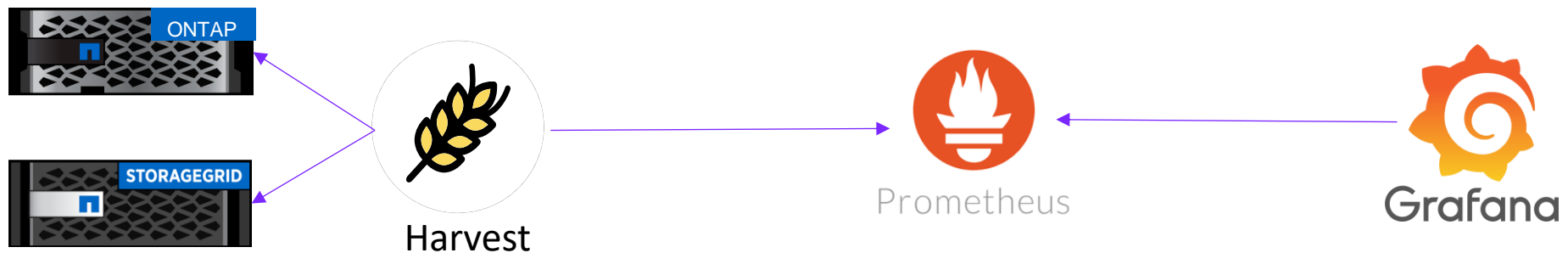
# STORAGE PERFORMANCE MONITORING FOR FREE

Harvest / NAbox

# Harvest

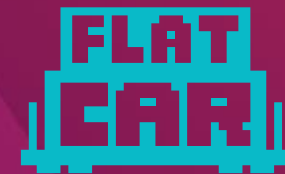
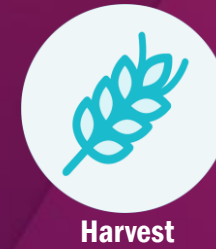
## Open Source metrics collection for ONTAP and StorageGRID

- Collect performance, capacity and hardware metrics
- Collection of Grafana dashboards for easy insights
- Fully customizable with templates and plugins



# The easy way - NAbox

- A user-friendly Web UI to configure Harvest monitoring
- No cloud dependencies
- Combines popular open-source components into virtual appliance



VICTORIA  
METRICS





# DIGITAL ADVISOR FOR FREE

# BlueXP digital advisor

## Achieve optimal storage health with actions

- Address issues before they become problems
  - Uncover and eliminate potential risks
  - Remotely monitor & predict systems that are reaching limits
- Reduce time spent on storage operations
  - Understand the health of your environment
  - Use prescriptive & automated actions
- Go from good to great
  - Discover best practice gaps and corrective actions
  - Find ways to lower cost and improve efficiency
- Turn insights into action
  - Insights and intelligence become actions
  - Launches appropriate services and resources to act

The image displays three screenshots of the NetApp BlueXP Digital Advisor interface, illustrating its capabilities in monitoring and managing storage health.

**Top Screenshot: Dashboard**  
The dashboard provides a high-level overview of storage health. It features a 'NetApp Ransomware Protection' banner and several key metrics: Wellness (3 Actions), Security & Resilience Defense (1 Action), Performance & Efficiency (5 Actions), Availability & Protection (1 Action), Capacity (4 Actions), and Configuration (4 Actions). A 'Virtual Machine' inventory chart shows 391 VMs, and a 'Cloud Recommendations' chart shows 19163 recommendations. An 'Upgrade Advisor' section indicates 48 clusters eligible for upgrade.

**Middle Screenshot: Cluster Viewer**  
The Cluster Viewer provides a detailed view of a specific cluster. It includes a 'Summary' tab with a table of cluster metrics:

Cluster Name	Cluster Management IP Address	Raw Capacity (TB)	Usable Capacity (TB)	Used Capacity (TB)	Available Capacity (TB)	Physical Capacity (TB)	Logical Capacity (TB)
spprd01	10.14.48.105	324.88	278.29	0.08	278.21	0.0002	0.0003

Below the table, it shows 'Nodes: 2' and a 'Node Summary' table:

Hostname	Serial Number	Cluster Name	System ID	Release Version	Model	Configuration	IP Address	High Availability Partner Hostname
spprd01H14	832131000239	spprd01	038199418	9.14.1P4	APF4320	Multi-Path HA	10.14.34.102	spprd01H14

**Bottom Screenshot: Cloud Recommendations**  
The Cloud Recommendations section provides insights into data migration, tiering, backup & archive, and disaster recovery. Key metrics include:

- Migration:** 5 Total Systems, 24 Total Volumes, 8.48 TB Used Data Capacity, 3 Workloads.
- Tiering:** 36 / 210 Systems, 2463 / 19163 Volumes, 24788.34 TB Total Unpartitioned Data, 3104.84 / 5866.84 TB Hot/Cold Data.
- Backup & Archive:** 190 Total Systems, 15366 Total Volumes, 24108.52 TB Used Data Capacity.
- Disaster Recovery:** 206 Total Systems, 18238 Total Volumes, 28228.84 TB Used Data Capacity.

A 'Risk Summary' pop-up window is also visible, detailing a risk for ONTAP 9.14.1 P4:

Risk	Mitigation
NetApp ONTAP (ZAPI) will reach end of availability (EOA) in ONTAP 9.14.1 and never expected January 2024.	Potentially Non-disruptive
Category: ONTAP	Corrective Action: CPC-00410 - End of availability: ONTAP
Impact Area: Configuration	Object Type: MANAGEMENT_STATION

- STORAGE HEALTH
  - Dashboard
  - AutoSupport
  - Performance
  - ClusterViewer
  - Capacity and Efficiency
  - Keystone Advisor BETA
  - Health Check
  - Cloud Recommendations
  - Valuable Insights

- GENERAL
  - Watchlists
  - Reports
  - Support Offerings
  - Wellness Review
  - Config Drift
  - API Catalog

Choose a customer



### NetApp Ransomware Protection

Protect, Detect, Recover - Guaranteed

Learn More

#### Wellness

Actions

Risks

View All Actions

**Security & Ransomware Defense**

3 Actions

**Performance & Efficiency**

1 Action

**Availability & Protection**

5 Actions

**Capacity**

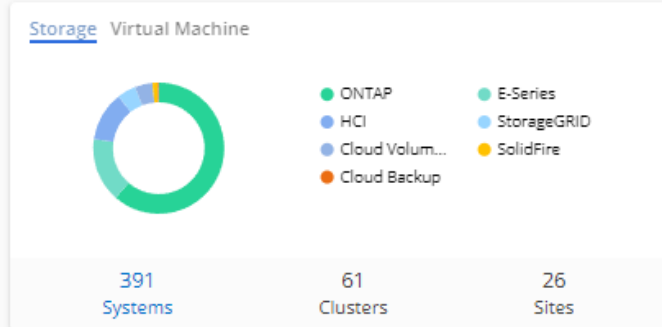
1 Action

**Configuration**

4 Actions

#### Inventory

View All Systems



#### Planning

18 Capacity Additions

98 Renewals

19163 Cloud Recommendations

#### Upgrade Advisor

ONTAP E-Series

48 Clusters

Upgrade plans are available at a cluster level. Not all clusters are available for the upgrade. [Learn more about eligible clusters.](#)

- STORAGE HEALTH
  - Dashboard
  - AutoSupport
  - Performance
  - ClusterViewer
  - Capacity and Efficiency
  - Keystone Advisor BETA
  - Health Check
  - Cloud Recommendations
  - Valuable Insights
- GENERAL
  - Watchlists
  - Reports
  - Support Offerings
  - Wellness Review
  - Config Drift
  - API Catalog

> > sjcprdcu01 > ClusterViewer

ClusterViewer Help Reports

Choose a customer

**Summary** Stack Diagram Network Interfaces Storage Efficiency Hardware Capacity Headroom Visualization Workload Tags SnapMirror Summary

Actions, risks, config drifts, or analytics might not be available for all your systems. [Click here](#) To learn more

Cluster Summary

Cluster Name	Cluster Management IP A...	Raw Capacity (TiB)	Usable Capacity (Ti...	Used Capacity (w...	Available Capacity (T...	Physical Capacity (A...	Logical Capacity (E...
sjcprdcu01	10.16.48.105	334.88	278.29	0.08	278.21	0.00002	0.00003

Nodes: 2

- sjcprdcu01n01a

Node Summary

Hostname	Serial Number	Cluster Name	System ID	Release Version	Model	Configuration	IP Address	High-Availability Partner Hostnan
sjcprdcu01n01a	632134000029	sjcprdcu01	0538195448	9.14.1P4	AFF-A320	Multi-Path HA	10.16.34.102	sjcprdcu01n01b

Shelf and Drive Summary for Partitioned Disks

Shelf Type	Shelf Serial Num...	Drive T...	Drive Model	Drive R...	Drive Marketing Size (...	Owned Partiti...	Data Partiti...	Parity Partiti...	Spare Pa
NS224NSM100	SHFGB2134000211	SSD-NVM	X40145173315TNTE	N/A	NA	34	28	4	2
NS224NSM100	SHFGB2134000211	SSD-NVM	Unknown	N/A	NA	1	1	0	0
NS224NSM100	SHFGB2134000211	SSD-NVM	X40145173A15TNTE	N/A	NA	1	0	0	1

Hardware Slot Map

Slot Nu...	Description	Part Num...	Serial Number
slot 0	Service Processor	NA	NA
slot 0	Internal 10/100/1000 Ethernet Switch	NA	NA

Shelf and Drive Count

Total Shelves for Hig...	Total Drives for High...
1	24

- STORAGE HEALTH
  - Dashboard
  - AutoSupport
  - Performance
  - ClusterViewer
  - Capacity and Efficiency
  - Keystone Advisor **BETA**
  - Health Check
  - Cloud Recommendations**
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  - Reports
  - Support Offerings
  - Wellness Review
  - Config Drift
  - API Catalog

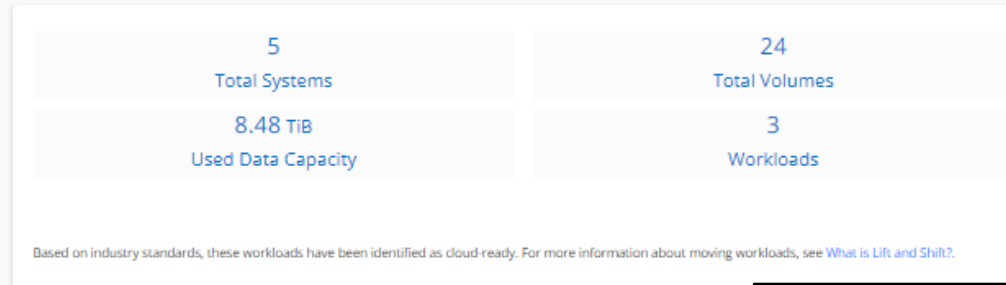
> Cloud Recommendations

Choose a customer

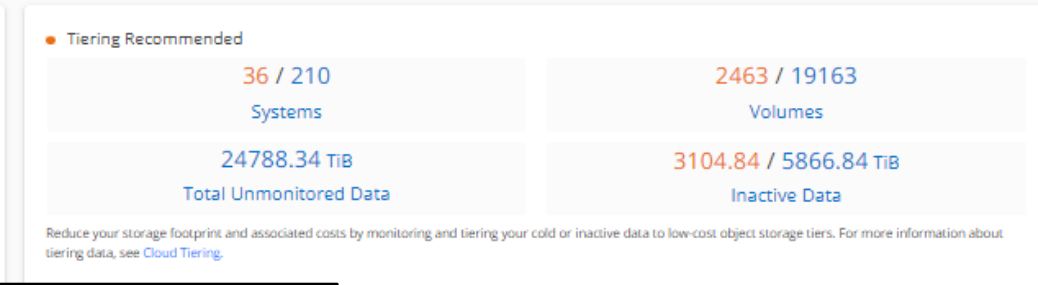
Send Feedback

## Cloud Recommendations [Help](#)

### Migration



### Tiering



### Backup & Archive



#### Risk Summary ✕

<b>Impact:</b> Medium	<b>Mitigation:</b> Potentially Non-disruptive
<b>Category:</b> ONTAP	<b>Corrective Action:</b> CPC-00410 - End of availability: ONTAPI
<b>Impact Area:</b> Configuration	<b>Object Type:</b> MANAGEMENT_STATION

---

**Risk:**  
NetApp ONTAPI (ZAPI) will reach end of availability (EOA) in ONTAP 9.14.1 and newer expected January 2024.

**Potential Impact:**  
Review CPC-00410 for potential impact of continued use of ONTAPI in releases 9.14.1 and subsequent releases.

**Details:**  
This node is running ONTAP 9.14.1P4 and is reporting these clients 10.103.165.55, 10.103.165.57, 10.122.218.82 and these applications N/A, Apache-HttpClient/4.5.4, Java/11.0.23, ... and 1 other are actively using ONTAPI (ZAPI).























# BLUE XP CLASSIFICATION

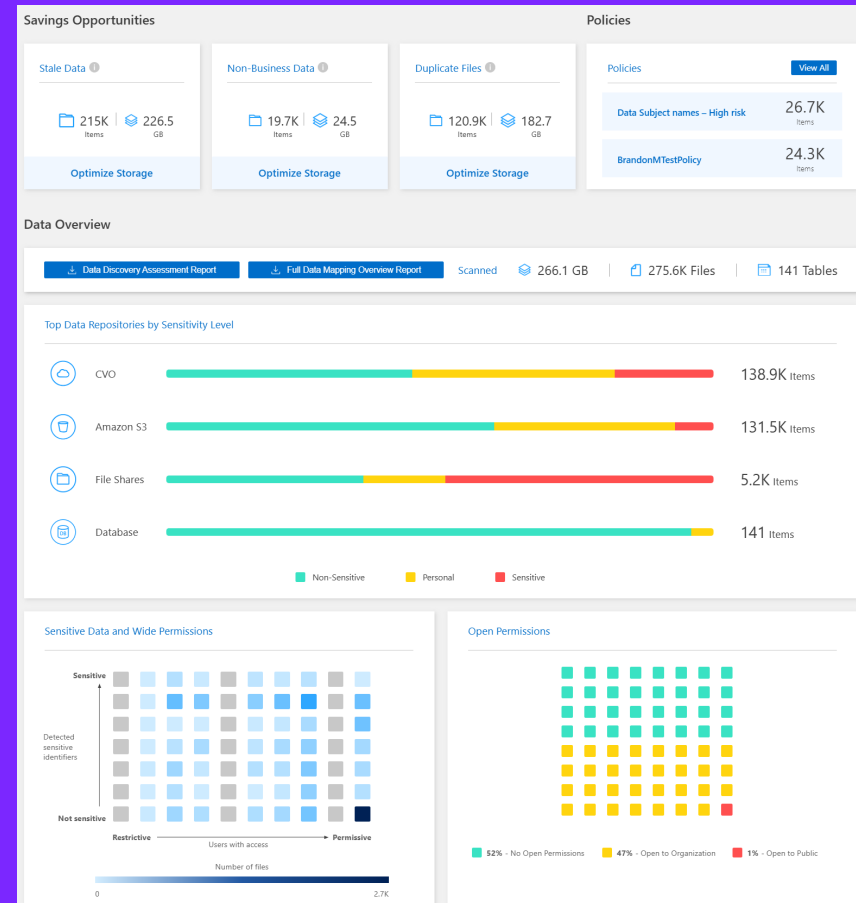
Klassifizierung von ONTAP & StorageGRID basierten,  
unstrukturierter Daten

# BlueXP key services and integrations

Storage	Monitoring	Health	Protection	Governance	Mobility	Additional
 Canvas	 Alerts	 Digital advisor (Active IQ)	 Backup & recovery	 Sustainability	 Copy & sync	 NSS account management
Standard storage management for AFF, ASA, FAS, CVO, FSxN, ANF, & StorageGRID		 Software updates	 Disaster recovery	 Classification	 Tiering (FabricPool)	 Support & case management
	Advanced storage management with System Manager, GRID Manager, FSxN Manager, & workload factory		 Operational resiliency	 Replication (SnapMirror)	 Digital wallet (incl. Keystone)	 Volume caching (FlexCache)
			 Ransomware protection			 Connectors

# BlueXP classification

- Robust data governance service providing **insights into data across hybrid multiclouds**
  - What's in your data, how sensitive is it, where its located
- Uses advanced AI and natural language processing (NLP) to **understand data** content and context, maps and categorizes each file, classifies data
- Results in an index of this info, **filterable across 28 fields** in an investigation tab
- Simple dashboards, pre-configured reports, and automated policies



## Savings Opportunities

### Stale Data

215K Items | 226.5 GB

[Optimize Storage](#)

### Non-Business Data

19.7K Items | 24.5 GB

[Optimize Storage](#)

### Duplicate Files

120.9K Items | 182.7 GB

[Optimize Storage](#)

### Policies

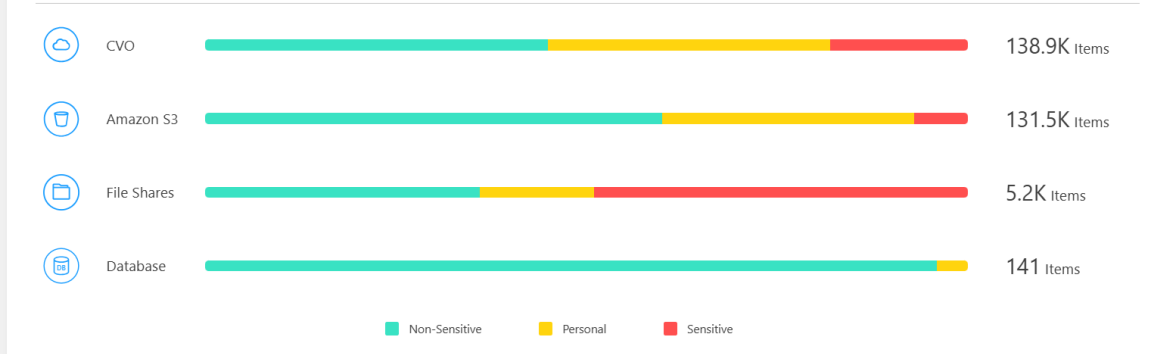
[View All](#)

- Data Subject names – High risk: 26.7K Items
- BrandonMTestPolicy: 24.3K Items

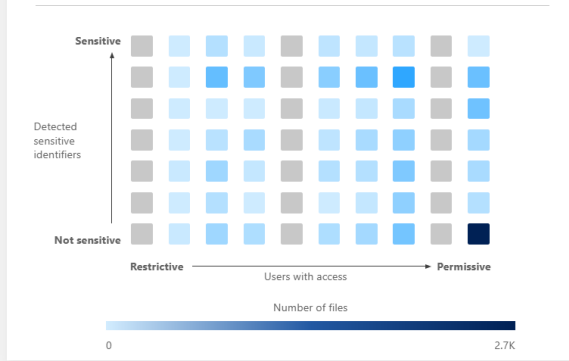
## Data Overview

[Data Discovery Assessment Report](#) | 
 [Full Data Mapping Overview Report](#) | 
 Scanned: 266.1 GB | 
 275.6K Files | 
 141 Tables

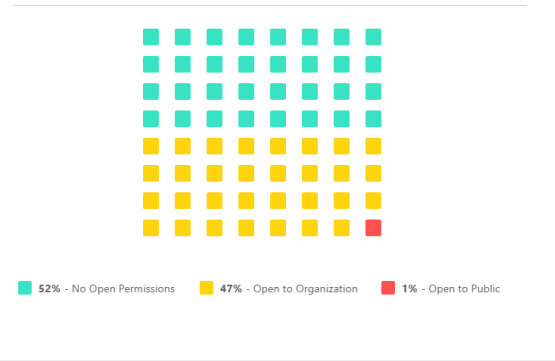
### Top Data Repositories by Sensitivity Level



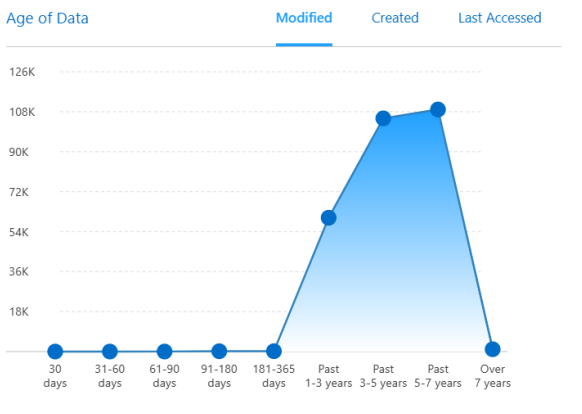
### Sensitive Data and Wide Permissions



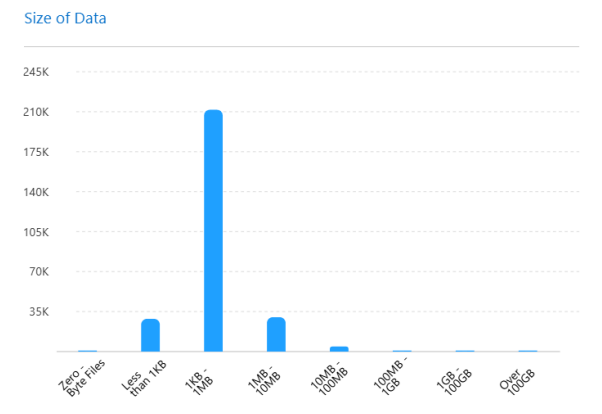
### Open Permissions



### Age of Data



### Size of Data



## Classification

### 40 Categories

[View All](#)

- Miscellaneous: 19.2K Items
- Code: 18.3K Items
- Miscellaneous Spreadsheets: 7.5K Items
- Bank Statements: 5.6K Items

### 127 File Types

[View All](#)

- PDF: 100.4K Items
- TXT: 89.8K Items
- DOCX: 31.9K Items
- MAP: 16K Items

# Information that BlueXP classification indexes



## Standard metadata

File type, size, creation and modification dates, permissions



## Personally identifiable info (PII)

Email addresses, ID numbers, credit card numbers



## Sensitive PII

Health data, ethnic origin, political opinions, as defined by GDPR and other privacy regulations



## Categories

Divides scanned data into different categories based on AI analysis of content and metadata of each file



## Types

Breaks down scanned data by file type (ex: extension, size, age, location)



## Name entity recognition

Uses AI to extract natural persons' names from documents

**NetApp DII is an infrastructure observability product that gives you visibility into your complete infrastructure.**

<https://docs.netapp.com/us-en/data-infrastructure-insights/>



**Monitoring collects data while  
Observability interprets the data**

**Monitoring tells you there is a problem,  
Observability tells you why**

- **Infrastructure Change Analysis** – Identify Cause/Effects
  - Reduction in MTTR and improvement in cross-silo collaboration
- **Anomaly Detection** - Detect performance or error anomalies for proactive resolution using AIOPs
  - Auto-learning algorithm adapts with workload trends / seasonality
- **SAN Analyzer** - VM-to-LUN visibility for block workloads
  - Topology, Workload contentions, Top contributors

### Expert View

**Resource**

[bos\\_postgresql\\_01](#) >  
1 Alert

---

**Top Correlated**

[bos\\_ESX02\\_prod](#) > 72%  
1 Alert

[Datastore02\\_bos\\_prod](#) > 92%

[archive](#) > 58%

---

**Additional Resources**

Display Changes and Metrics ▾

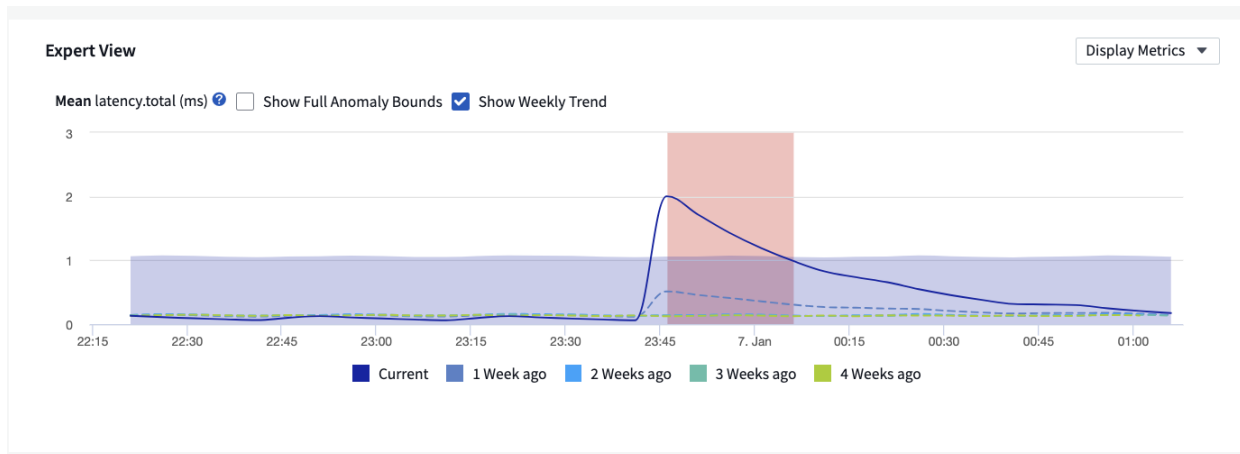
**Changes**

bos\_postgresql\_01

4:40 PM 4:50 PM 5:00 PM 5:10 PM 5:20 PM 5:30 PM

2 items found

Type	Summary	Start Time	Triggered on	Status
AL-76754	Abnormal high VM latency	05/13/2023 4:58:17 pm	Virtual Machine: <a href="#">bos_postgresql_01</a>	Active
Config Change	Path removed	05/13/2023 4:46:22 pm	Path: <a href="#">bos_postgresql_01 to Datastore02_bos_prod</a>	-



# Data Infrastructure Insights Editions

With new, simplified licensing

## Basic Edition - Monitoring

Included at no additional cost for NetApp systems

Key competitive differentiator for baseline manageability for ASA and other platforms

Included:

SAN Analyzer & workload topologies, anomaly and alerts, dashboards and visualizations

NetApp (all), Cisco, Brocade and VMware

In-place trials and upgrades to premium edition for quick time to enhanced value

## Premium Edition – Monitoring & Observability

For heterogeneous enhanced features

VMware optimization, workload correlation, change analysis, BI reporting, integrations, containers & more), file audit and Ransomware Protection

## New metering by storage capacity only

Enhances end-to-end value storage

Available through direct quote, Azure & AWS Marketplace, Keystone

Tier-based to match value of the storage platforms

# S4 WORKSHOP

# Wofür steht der NetApp S4 Workshop?



## SIMPLICITY

- Standardisierung
- IT-Servicekatalog
- Automatisierung
- Best Practice



## SECURITY

- Datengestützt
- Sofortige Aktionen
- Klare Ergebnisse
- Industrie relevant



## SAVINGS

- Datenkosten senken
- FinOps
- CapEx oder OpEx
- Aktionen priorisieren



## SUSTAINABILITY

- CO<sub>2</sub>-Reduzierung
- GreenOps
- Verantwortung teilen
- Aktionen priorisieren

# Der Workshop in sechs Schritten

Alles basiert auf Ihren Daten



- Ziele des Workshops festlegen
- Bestimmen der projektrelevanten Systeme
- Abstimmung Zeitplan und Voraussetzungen

- Einrichten von Data Infrastructure Insights
- Anbinden der Quellsysteme
- Sammeln von Konfigurationen, Kapazitäts- sowie Leistungsdaten

- Export der gesammelten Daten
- Analyse bezüglich Kapazitäten, Leistung und Vielfalt der Datenklassen
- Vorbereiten der Workshop-Materialien

- Präsentation der Analyse und Erkenntnisse
- Erörtern von Optimierungsmöglichkeiten
- Gemeinsame Definition von automatisierbaren Serviceklassen sowie der Hosting-Plattform

- Modellierung der Kosten
- Kosten/Nutzen-Bewertung des Konzepts
- Optionale Kalkulation der Serviceklassen

- Aushändigen aller Unterlagen sowie Rohdaten
- Festlegen der nächsten Schritte und Zuständigkeiten
- Auf Wunsch, *Executive Summary* Präsentation





# Auf Anwendungen abgestimmte Storage Service Level (Datenklassen)

Auf Grundlage der Datenerfassung mit Data Infrastructure Insights

	Value	Standard	Performance	Premium	Extreme	Ultra
Costs	\$	\$\$	\$\$\$	\$\$\$\$	\$\$\$\$\$	\$\$\$\$\$\$
Workload	Archive	Exchange, Web, File shares, Backup	Generic VMs, SQL, virtualized apps	High performance apps, SQL, VDI	Oracle, SQL, SAP	Latency sensitive applications
1 Minimum IOPS/TB	-	128	1.024	2.048	6.144	16.384
2 Maximum IOPS/TB	< 128	512	2.048	4.096	12.288	32.768
3 Max. Latency (ms)	17	4	4	2	< 1	< 1

# Virtuelle Maschinen – Einheitlicher Service Katalog

Vereinfachung durch Standardisierung

Variable	X-Small 1 X 4	Small 2 X 8	Medium 4 X 16	Large 8 X 32	X-Large 16 x 64	2X-Large 32 x 128	Total
vCPU	1	2	4	8	16	32	
vRAM (GB)	4	8	16	32	64	128	
Storage (GB)	100	200	400	800	1.600	3.200	
Number of VMs	52	488	498	455	22	1	1.516
% of Total VMs	3,1%	29,2%	29,8%	27,2%	1,3%	0,1%	90,8%

→ 6 „T-Shirt Größen anstatt 123

# TRY & LEARN

Aalglatt!



# Test Drive - Lab on Demand

Try NetApp products risk-free

## Test Drive

- <https://www.netapp.com/test-drives/>
- Target audience: prospective customers
- Focus: quick and easy evaluation as a foundation for further discussions

## Lab on Demand for Customers

- <https://labondemand.netapp.com>
- Target audience: existing customers
- Focus: ready to use labs to assist in testing, exploring and familiarizing with best practices

## NetApp | Lab on Demand

### Topics

- Cyber Resilience (14)
- Cloud (29)
- Data Protection (33)
- Disaster Recovery (22)
- Automation (10)
- VMware Solutions (8)
- Dev Ops (9)
- AI/ML (2)

## Catalog

[Centralized Storage Management Using BlueXP v2.3](#) Customer Lab

[Easier Data Management with ONTAP Tools for VMware vSphere](#)

[Cloud Volumes ONTAP Deployment in a Hybrid Environment v2.3](#)

[Getting Started with Azure NetApp Files Using BlueXP v2.1](#) Customer Lab

[Getting Started with BlueXP backup and recovery v2.1](#) Customer Lab

# THANK YOU

