

/HERZLICH WILLKOMMEN



ADVANCED
UNIBYTE

**LET'S GO
FUTURE** 
CAMPUS NETWORK & DATA CENTER 2030



ADVANCED
UNIBYTE

Toni Schwarz

Abteilungsleiter Business Development



toni.schwarz@au.de

Benjamin Nill

Solution Architect



benjamin.nill@au.de

/AGENDA



13.30 Uhr **„Check-in“ im Hotel Krønasår des Europa-Park Rust**

14.00 Uhr **Begrüßung** *Benjamin Nill, Solution Architect Cloud, AU*

Data Fabric – Hybride Data Center *Benjamin Nill, Solution Architect Cloud, AU*

Entlastung im Data Center – mit ACI

ACI Anywhere *Torsten Graf, Senior System Engineer, AU, Frank Peter Zeh, Senior System Engineer, AU*

Kurzfasit zur Pause *Benjamin Nill, Solution Architect Cloud, AU*

15.00 Uhr **Kaffeepause**

15.15 Uhr **Appmobilität bei Hybriden Multi Cloud Szenarien** *Kai Schönberg, Senior System Engineer und Teamlead Engineering, AU*

IT-Fachkräfte sinnvoll einsetzen *Toni Schwarz, Abteilungsleiter Business Development, AU*

Managed Service – Campus Network *Lars Schneider, Produktmanager, AU*

Zusammenfassung und Blick in die Zukunft *Toni Schwarz, Abteilungsleiter Business Development, AU*

16.15 Uhr **Gemütlicher Ausklang bei Fingerfood und mehr**



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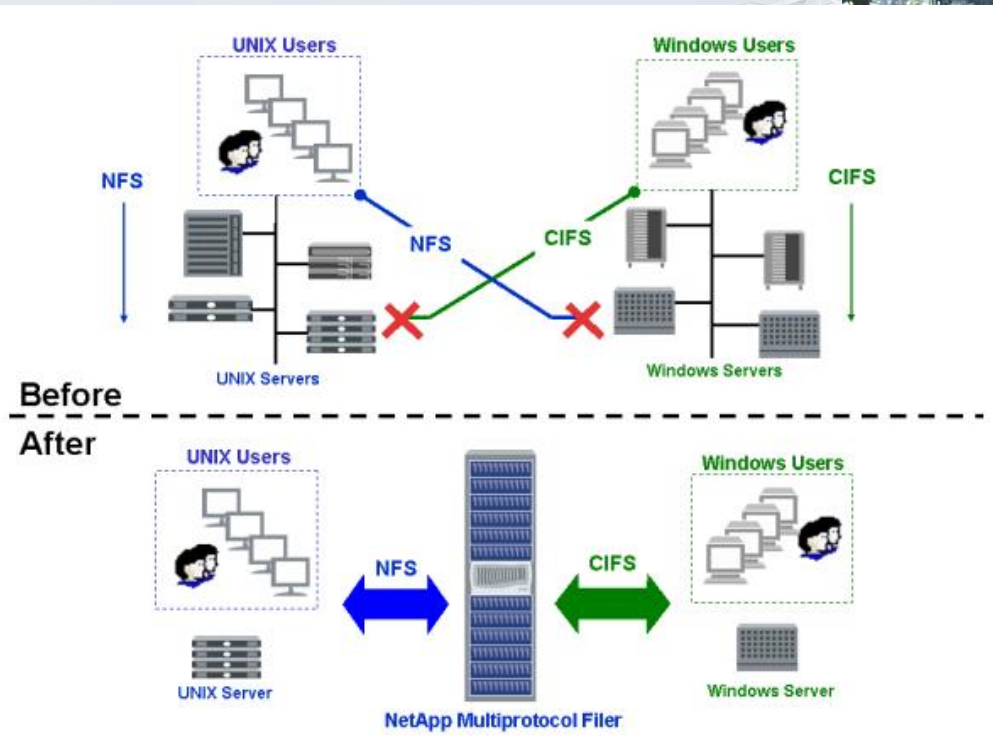




SILOS SIND CHANCENLOS

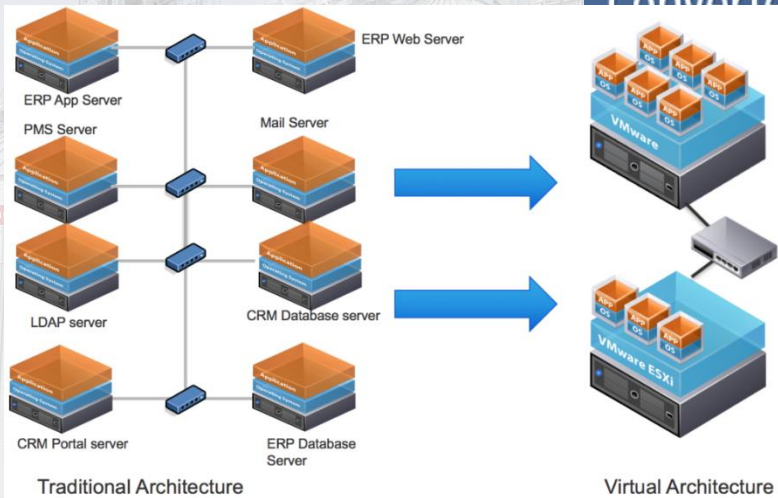
LET'S GO FUTURE

CAMPUS NETWORK & DATA CENTER 2030



LET'S GO
FUTURE

CAMPUS NETWORK & DATA CENTER 2030



vmware

VMware vCenter™
Converter Standalone



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```
VMware ESX Server [Release build=32039]
Exception type 13 in world 1193:vmware-vmx 6 0x6c4f5a
gate=0xd frame=0x36a7e58 eip=0x6c4f5a cr2=0x52a0000 cr3=0x96b3a000 cr4=0x168
eax=0x0 ebx=0xe ecx=0x08000000 edx=0xba0cedd es=0xba04028 ds=0x4028
fs=0x0 gs=0x0 ebp=0x36a7e5c esi=0x36a7e58 edi=0xba00b48 err=0xef=0x10246
cpu 0 1024 console: cpu 1 1140 mks:0MHQ5: cpu 2 1138 vmm0:0MHQ:
cpu 3 1083 vmm0:
cpu 4 1267 mks:0MHQ5: cpu 5 1107 vmm0:0MHQ: cpu 6 1069 vmm0:0MHQ: cpu 7 1078 mks:
0MHQ5:
cpu 8 1032 idle8: cpu 9 1158 vmm0:0MHQ: cpu 10 1102 vmm0:0MHQ: cpu 11 1165 vmm0:
0MHQ:
cpu 12 1095 vmm0:0MHQ: CPU 13 1193 vmware-vm: cpu 14 1232 mks:0MHQ5: cpu 15 1039
idle15:
0x36a7e5c:[0x6c4f5a]UserObjFDPoll+0x5e(0xba00b48, 0x7, 0x0)
0x36a7e58:[0x6c4f5c]UserObjFDPollCleanUpWaiter+0x4b(0xba15720, 0xe, 0x0)
0x36a7f40:[0x6c52b8]UserObjFDPoll+0x1a(0xba15928, 0xe, 0x12)
d(0xbff6f6b8, 0xe, 0x12)
err+0x6c(0x36a7f40, 0x100000023, 0xd2002
x0, 0x0)
661150
sure that if 'noapic' is used, it is o
for 000:15.2
Interrupt on popu 0 (port x61 contain
1... 98766666543210 Disk dump successf
no longer available
```

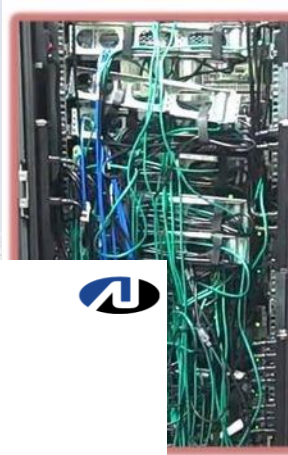
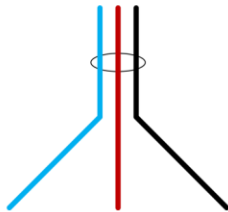
MYSILO

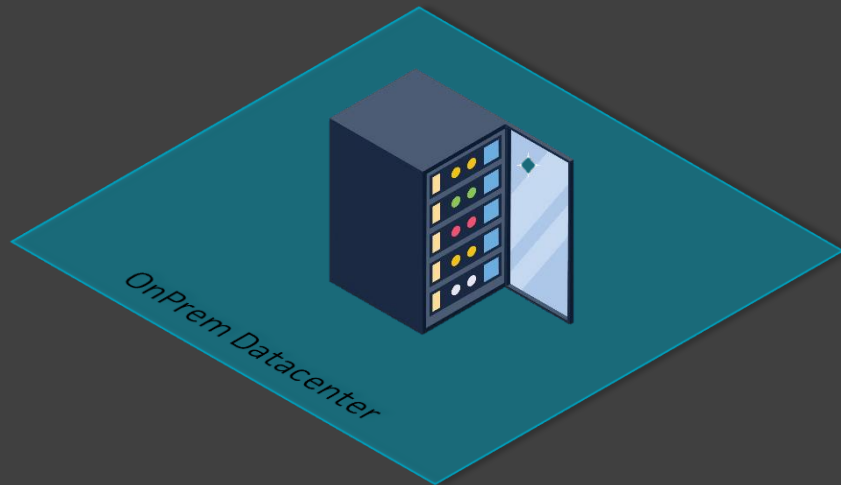
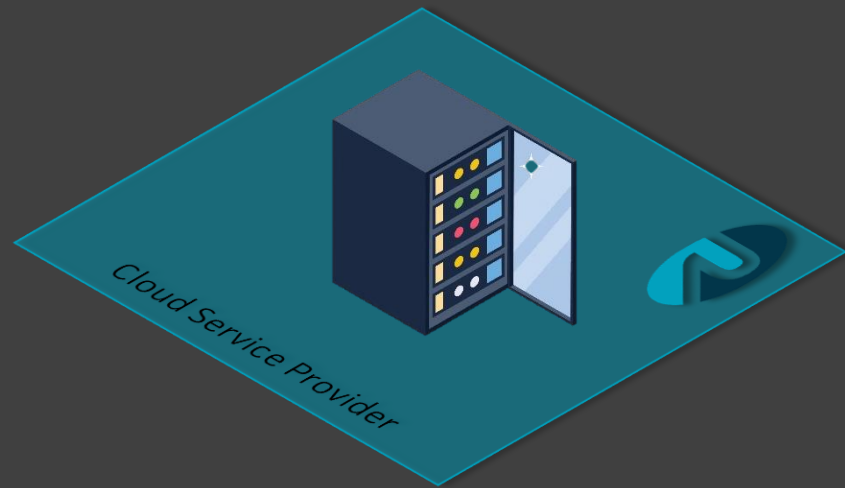
ADVANCED UNIBYTE / UNIFIED FABRIC



- Konsequente 10GBit-Verkabelung
- 10GBit Medium transportiert:
 - ✓ 10GBit Ethernet
 - ✓ FCoE
 - ✓ FC

→ Nur eine Infrastruktur für FC & Ethernet!





HYBRID

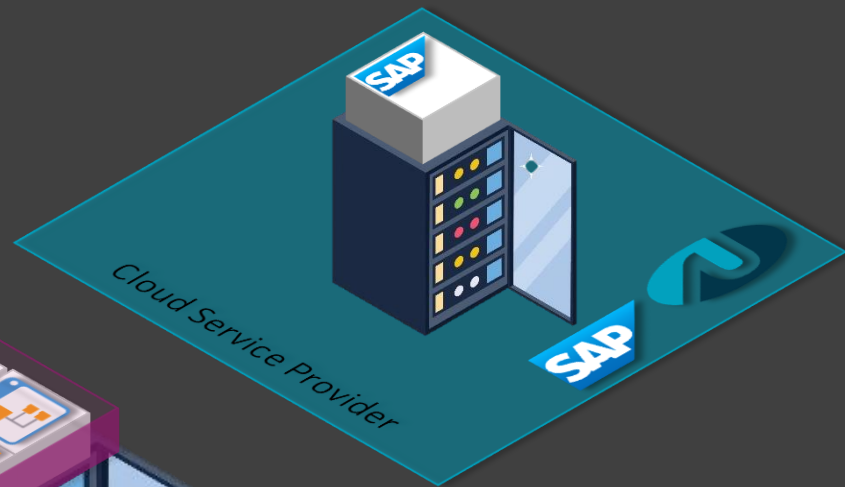


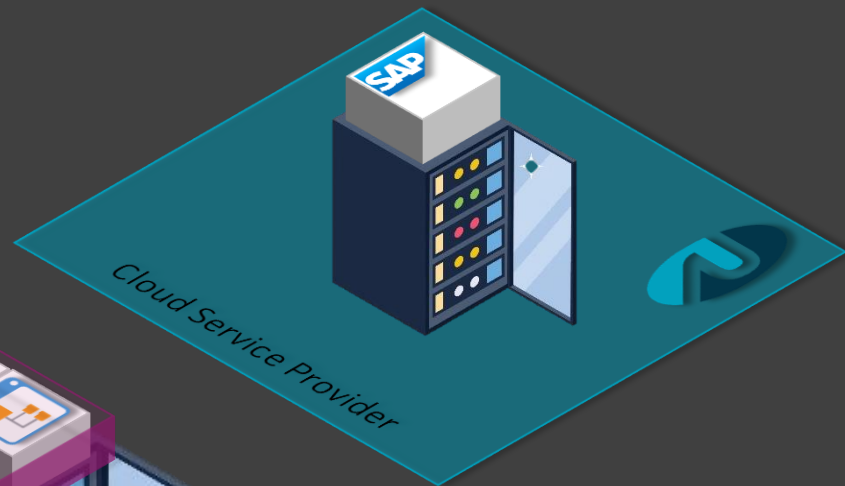


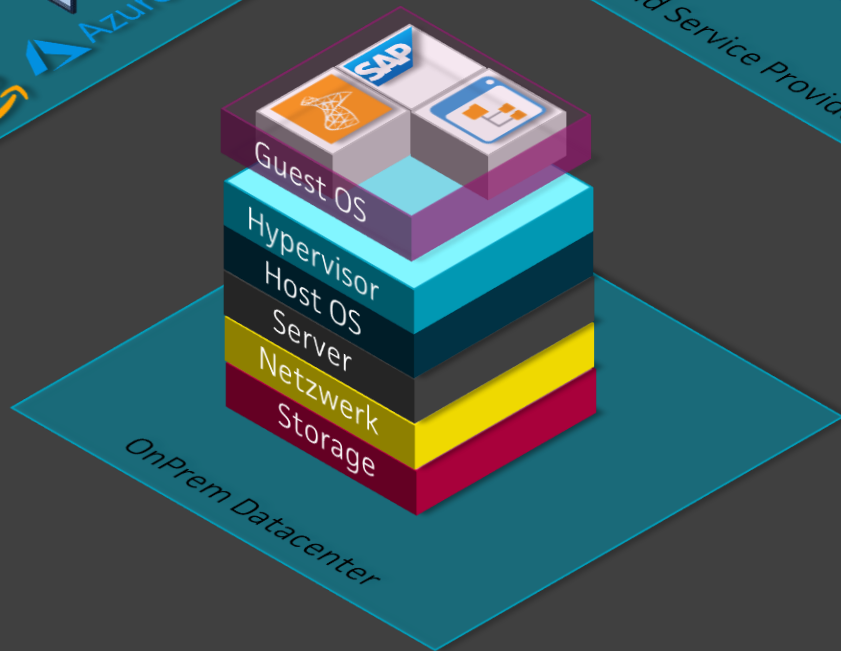
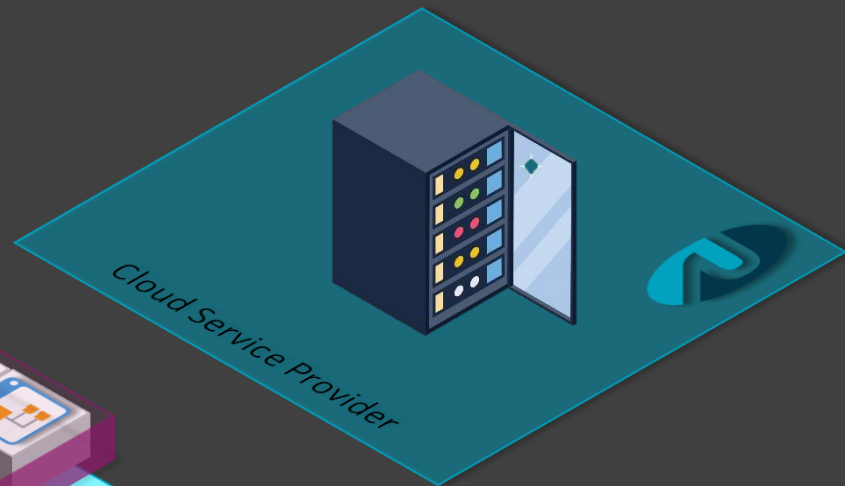
SUSTAINABILITY

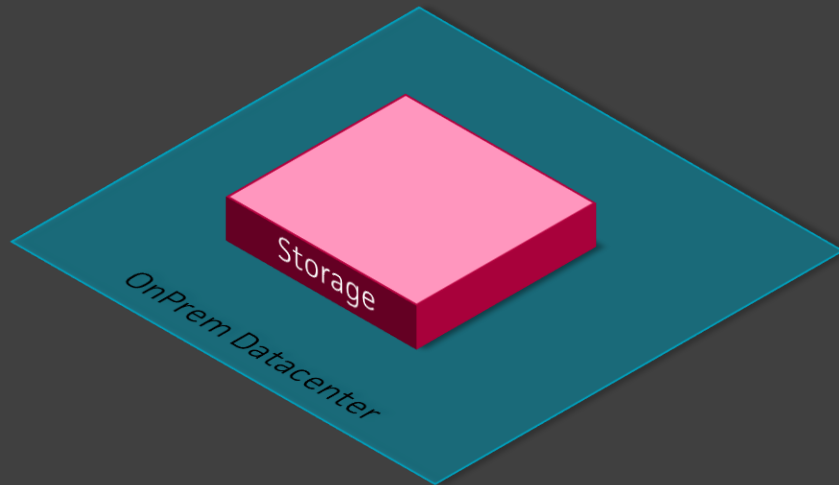
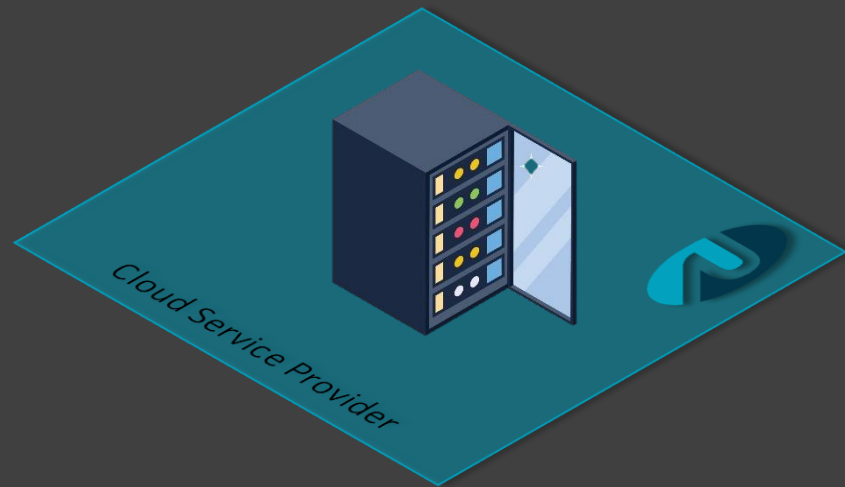


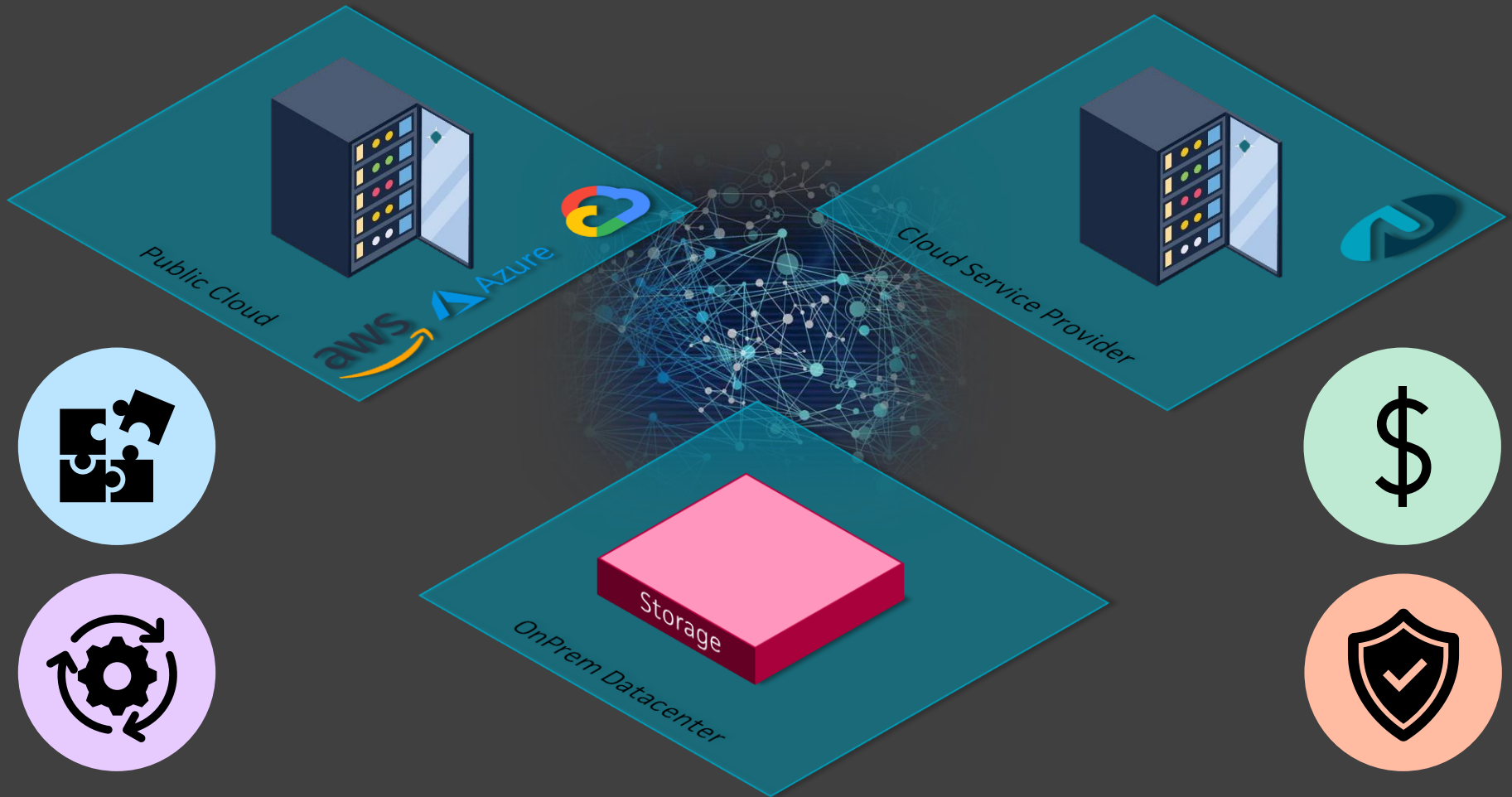
MOBILITY











Canvas

My Working Environments

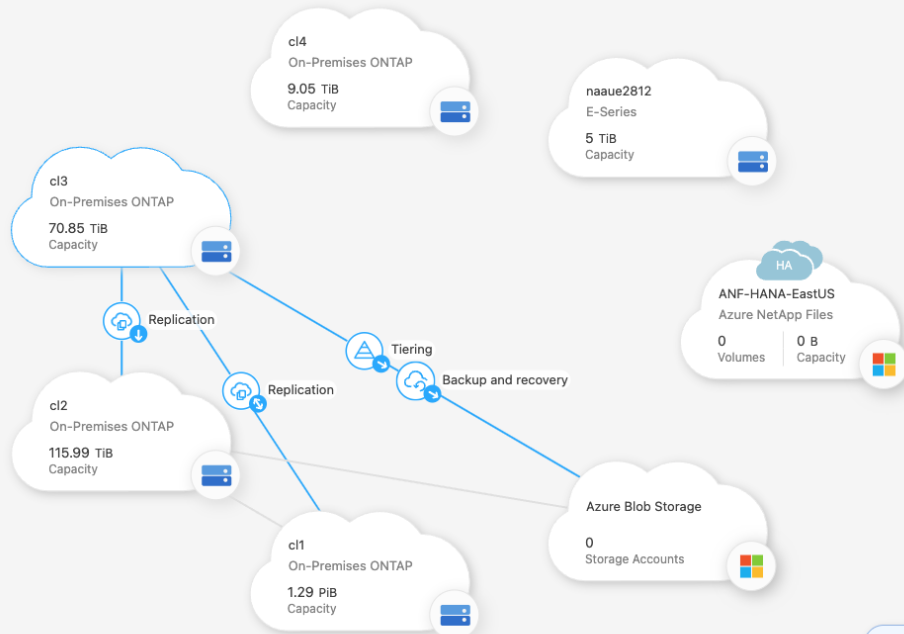
My Opportunities

New

Go to Tabular View

+ Add Working Environment

Enable Services ⓘ



cl3
On

DETAILS

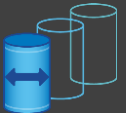
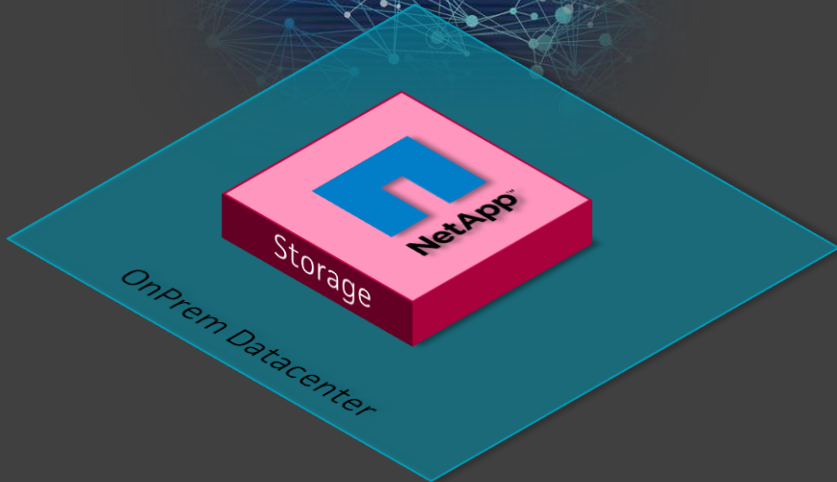
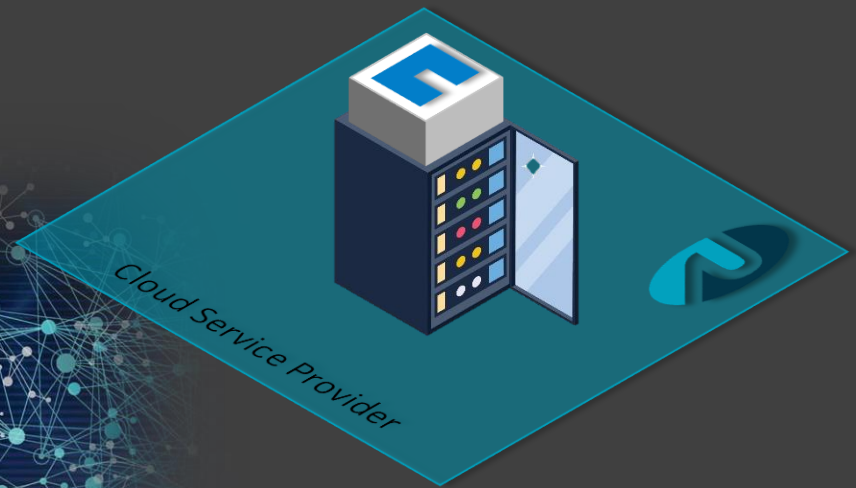
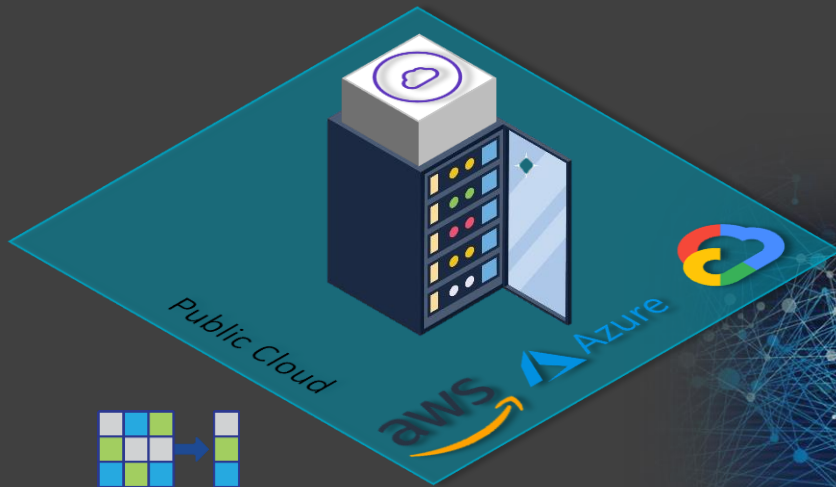
On-Premises ONTAP

SERVICES

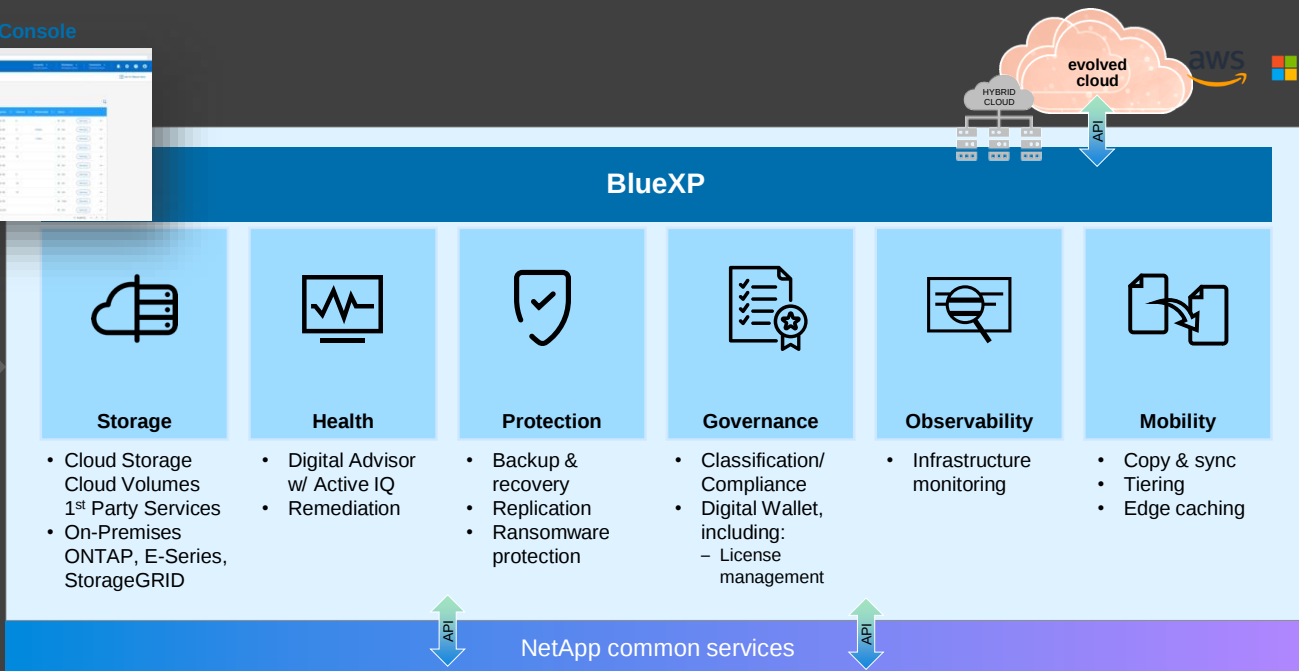
	Backup and recovery On	253.38 GiB Protected Data	⋮
	Copy & sync Off	Sync data	⋮
	Tiering On	0 B Tiered Data	⋮
	Classification Off	Enable	⋮
	Edge caching Coming Soon		⋮
	Replication On	2 Replication Targets	⋮

Enter Working Environment





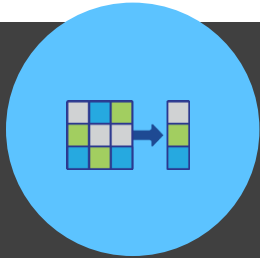
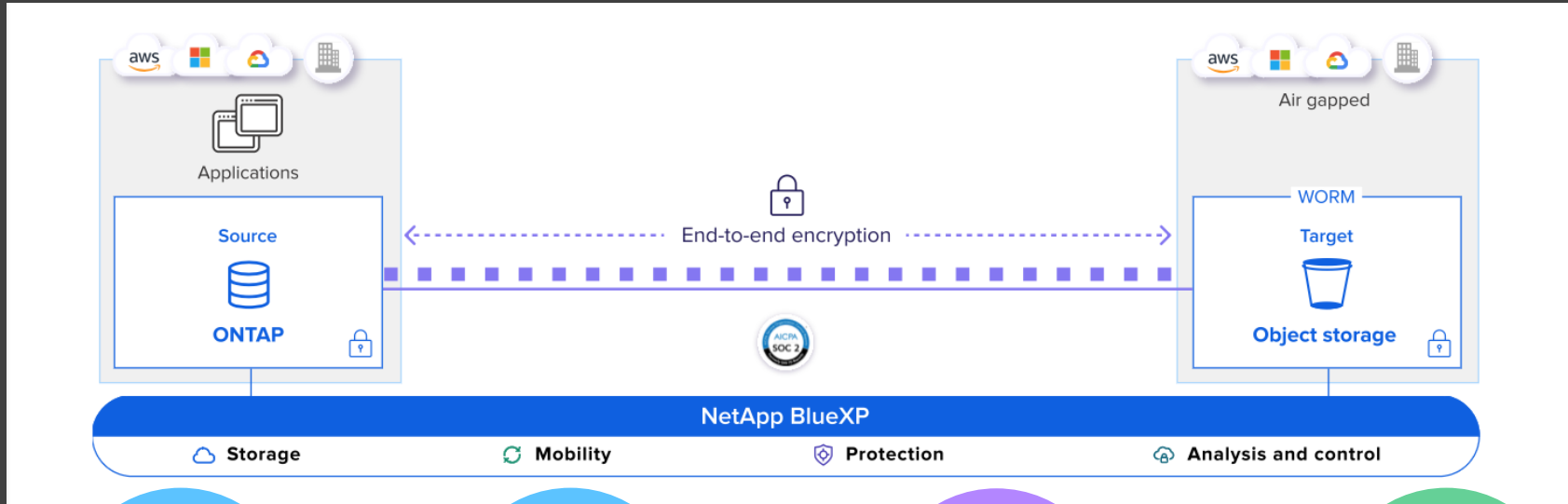
/Einheitliches Data-Management



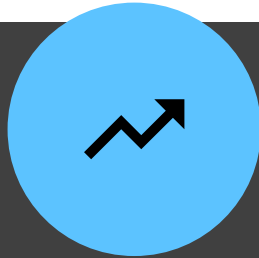
The screenshot displays the NetApp BlueXP Digital Advisor interface. The left sidebar contains navigation options like Dashboard, AutoSupport, Performance, ClusterViewer, Capacity and Efficiency, Keystone Advisor, Health Check, Cloud Recommendations, Valuable Insights, GENERAL, Watchlists, Reports, Support Offerings, Wellness Review, Config Drift, and API Catalog. The main panel shows the 'Digital advisor' section with a search bar and tabs for All, Performance & Efficiency, Availability & Protection, Capacity, Configuration, Security Vulnerabilities (selected), Ransomware Defense, and Wellness History. A message states: "Actions, risks, config drifts, or analytics might not be available for all your systems. Click here to learn more." Below this, there are filters for Actions (1), Unique Risks (15) (selected), and Affected Systems. On the right, there are dropdowns for Risk Visibility and Mitigation Action (OS Upgrade). A table titled 'Fix It, Risk Name, Mitigation, Corrective Action, Impact, Systems, Acknowledge' lists 15 unique risks. Most risks are related to 'Clustered Data ONTAP has been determined to have a version or configuration exposed...' with impact levels ranging from High to Medium.

Fix It	Risk Name ↑	Mitigation ↑	Corrective Action	Impact ↑	Systems	Acknowledge
	Critical - Clustered Data ONTAP has been determined to have a version or configuration ex...	Potentially Non-disruptive	NTAP-20220204-0006	High	2	Ack
	Clustered Data ONTAP has been determined to have a version or configuration exposed t...	Potentially Non-disruptive	NTAP-20220121-0006	High	2	Ack
	Clustered Data ONTAP has been determined to have a version or configuration exposed t...	Potentially Non-disruptive	NTAP-20211118-0003	High	1	Ack
	Critical - Clustered Data ONTAP has been determined to have a version or configuration ex...	Potentially Non-disruptive	NTAP-20211008-0004	High	1	Ack
	Clustered Data ONTAP has been determined to have a version or configuration exposed t...	Potentially Non-disruptive	NTAP-20211029-0003	High	1	Ack
	Clustered Data ONTAP has been determined to have a version or configuration exposed t...	Potentially Non-disruptive	NTAP-20201026-0001	High	1	Ack
	Clustered Data ONTAP has been determined to have a version or configuration exposed t...	Potentially Non-disruptive	NTAP-20211223-0005	Medium	2	Ack
	Clustered Data ONTAP has been determined to have a version or configuration exposed t...	Potentially Non-disruptive	NTAP-20211029-0006	Medium	2	Ack
	Clustered Data ONTAP has been determined to have a version or configuration exposed t...	Potentially Non-disruptive	NTAP-202110902-0003	Medium	1	Ack
	Clustered Data ONTAP has been determined to have a version or configuration exposed t...	Potentially Non-disruptive	NTAP-20211029-0002	Medium	1	Ack

/Backup & Recovery einheitlich OnPrem/Cloud



Kostenreduktion
(Storage Effizienz)



Automatisiert

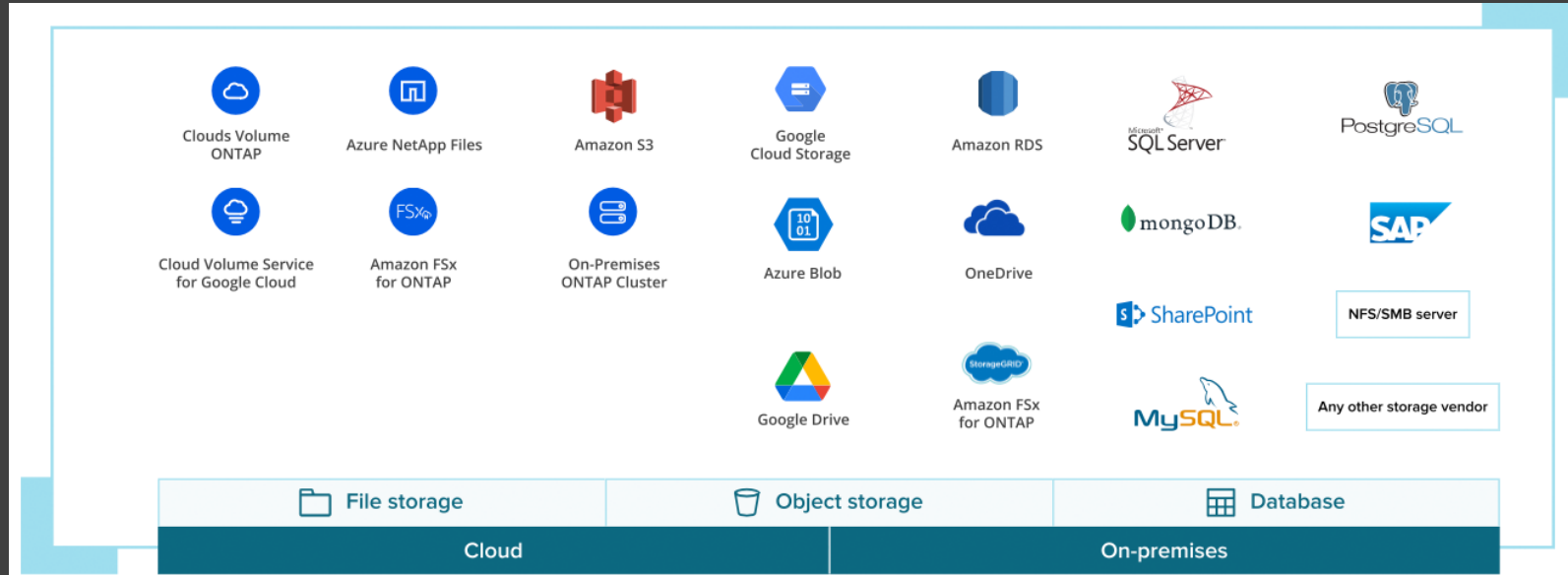


Backup Catalog &
SingleFileRestore



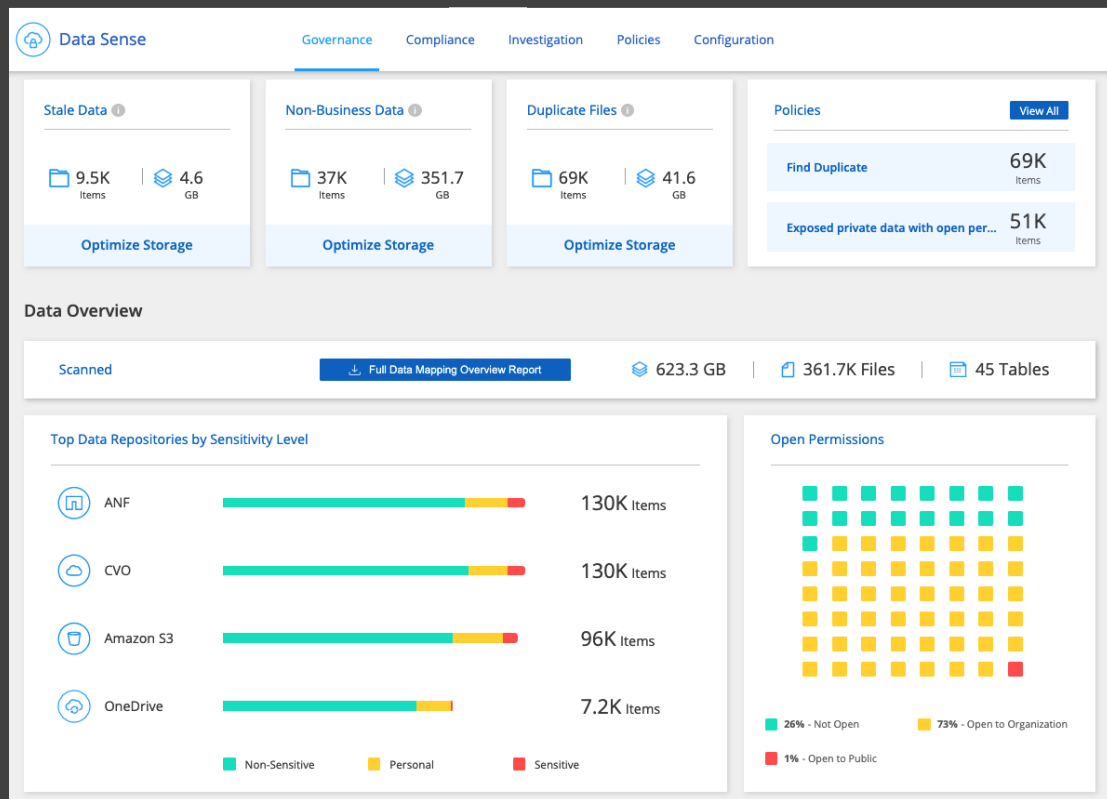
Schnelle Backups
(Incremental forever)

/Classification & Compliance – Data Sense

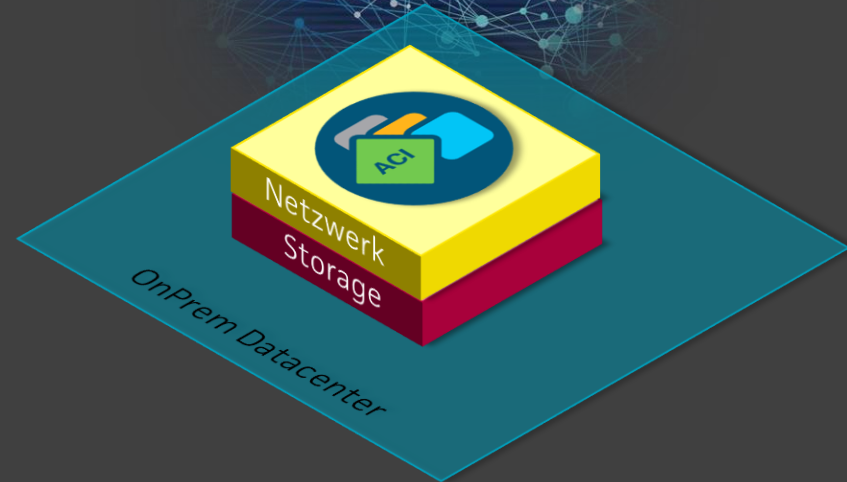


- Welche Art von Daten sind wo gespeichert?
- Werden Datenschutz Anforderungen erfüllt?
- Befinden sich personen-bezogene Daten in der Cloud? (Datenbank/Storage etc.)
- Wie kann eine kontinuierliche und automatisierte Prüfung stattfinden?

/Classification & Compliance – Data Sense



- Kontinuierliche Datenanalyse (OnPrem/Cloud – Files/Objects – Databases) mit Hilfe von KI und Policies
- Aufzeigen personenbezogener oder sensibler Daten
- Übersichtliche Dashboards und Reports
- Alarmierung
- SaaS oder Offline Lösung möglich



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Senior System Engineer



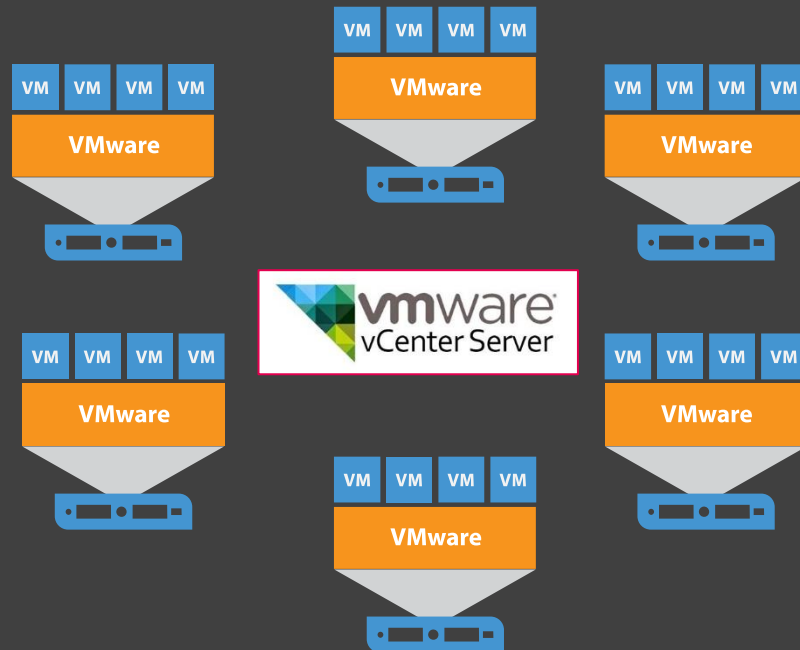
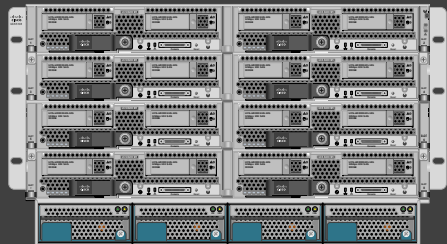
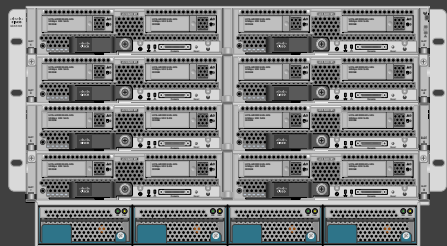
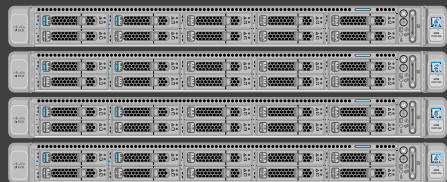
torsten.graf@au.de

Frank-Peter Zeh
Senior System Engineer

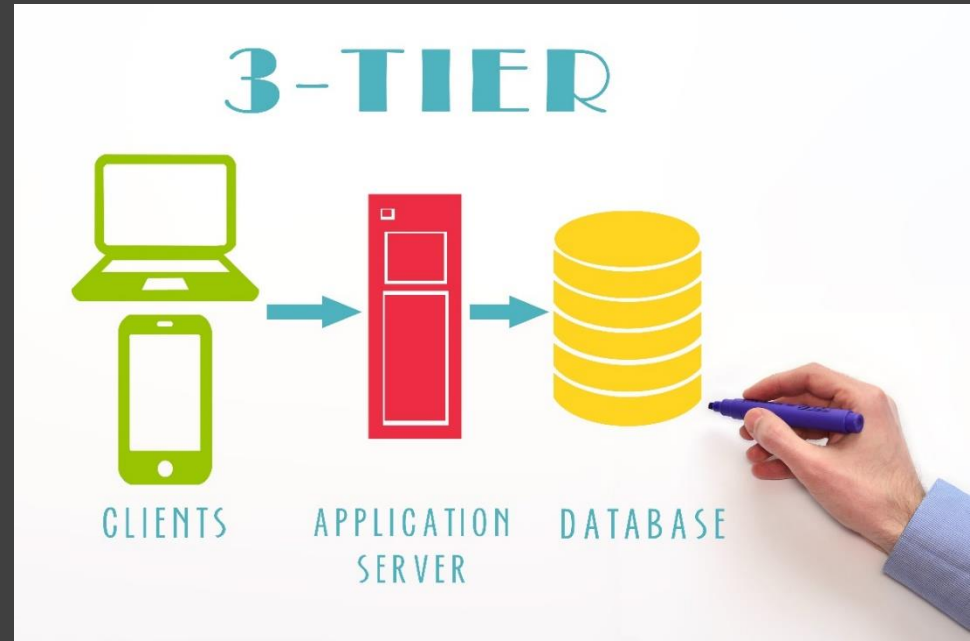


frank-peter.zeh@au.de





- Aufsplittung einer Software-Lösung in drei Teile:
 - Benutzeroberfläche (Web)
 - Datenverarbeitung (App)
 - Datenspeicherung (DB)
- Vorteile:
 - Steuerung des Zugriffs auf jeder Ebene
 - Absicherung von Web ohne Performanceauswirkung auf DB
 - Granulare ACLs





CCIE



> Quick Start

CCIE

Application Profiles

AP-CCIE

Application EPGs

Business_Applications

Domains (VMs and Bare-Metals)

EPG Members

Static Ports

Static Leafs

Fibre Channel (Paths)

Contracts

Static Endpoint

Subnets

L4-L7 Virtual IPs

L4-L7 IP Address Pool

Database

Legacy

Web

uSeg EPGs

Networking

Contracts

Policies

Services

EPG - Business_Applications



Summary

Policy

Operational

Stats

Health

Faults

History

Policy Viewer

Topology

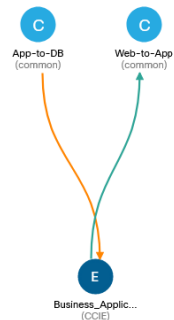
General

Subject Labels

EPG Labels



Relation Indicators

Configured ☐ Operational

Provider

Consumer

Intra EPG

Provider (from Master)

Consumer (from Master)

Intra EPG (from Master)

Master EPG



common

 Quick Start common

Application Profiles

Networking

IP Address Pools

Contracts

Standard

App-to-DB

App-to-DB

Ext-to-Web

Web-to-App

default

Taboos

Imported

Filters

App-to-DB

27017

Ext-to-Web

http

https

Web-to-App

5000

arp

default

est

icmp

Out-Of-Band Contracts

Policies

Services



Contract Subject - App-to-DB

Policy **Faults** History**General** Subject Exception Label

Property

Name: App-to-DB

Alias: Description: Global Alias:

Apply Both Directions: true

Reverse Filter Ports: ☒

Filters:



Name	Tenant	Action	Priority	Directives	State
App-to-DB	common	Permit	default level		formed
icmp	common	Permit	default level		formed

L4-L7 Service Graph: QoS Priority: Target DSCP: Wan SLA Policy:

Show Usage

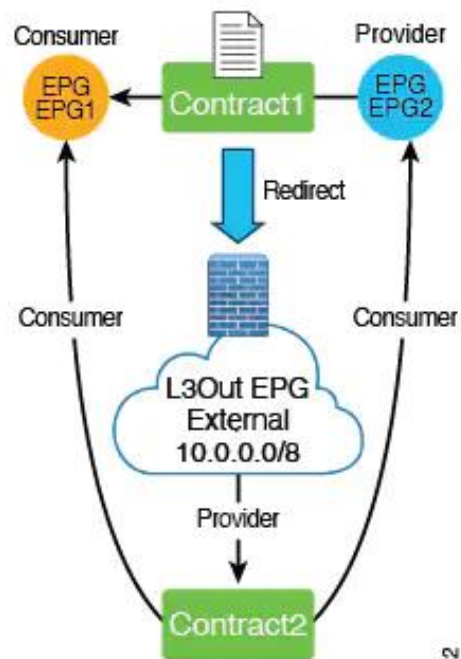
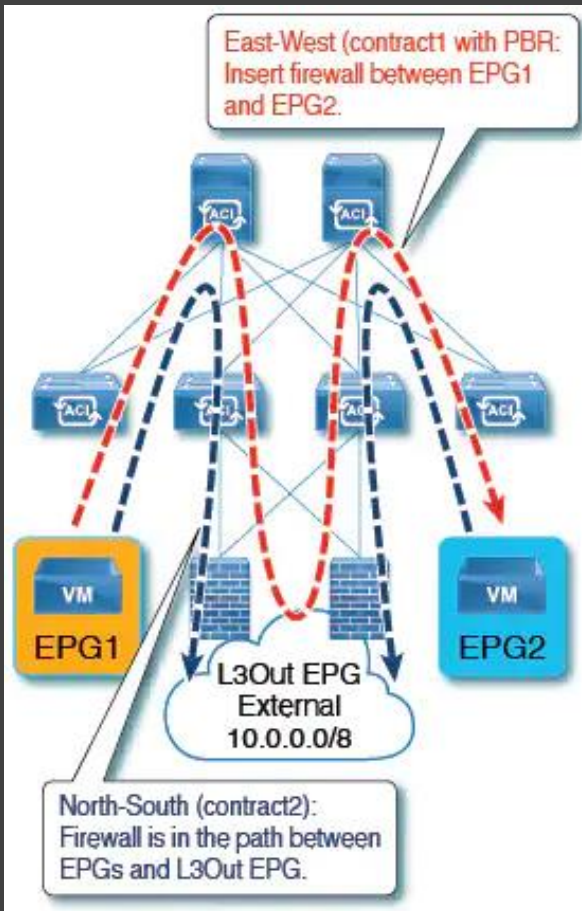
Reset

Submit

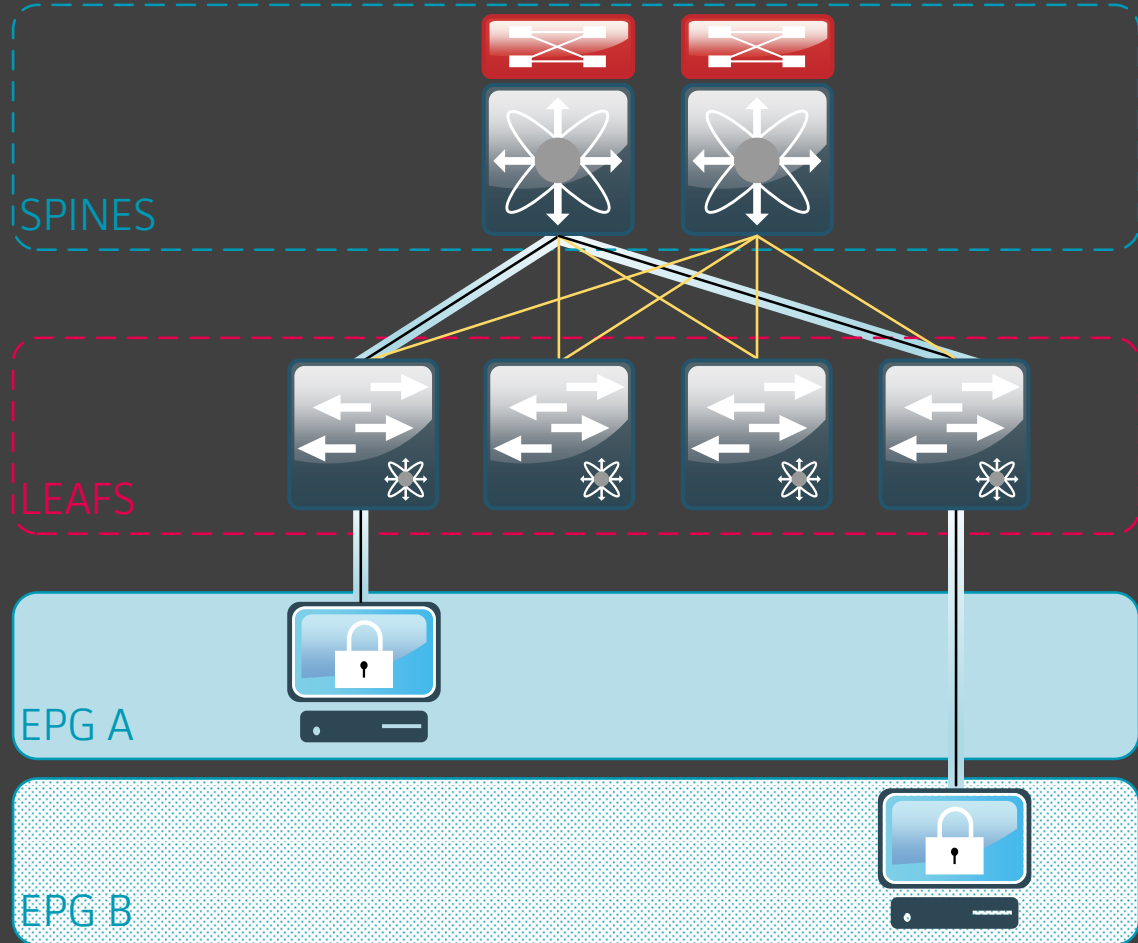
- Einbindung von L4-L7 Devices (z.B. Firewalls):
 - Untersuchung von Paketen anhand des TCP Ports
 - Transparenter Umgang mit den Paketen
 - Einbindung externer Geräte in das Datacenter Netzwerk



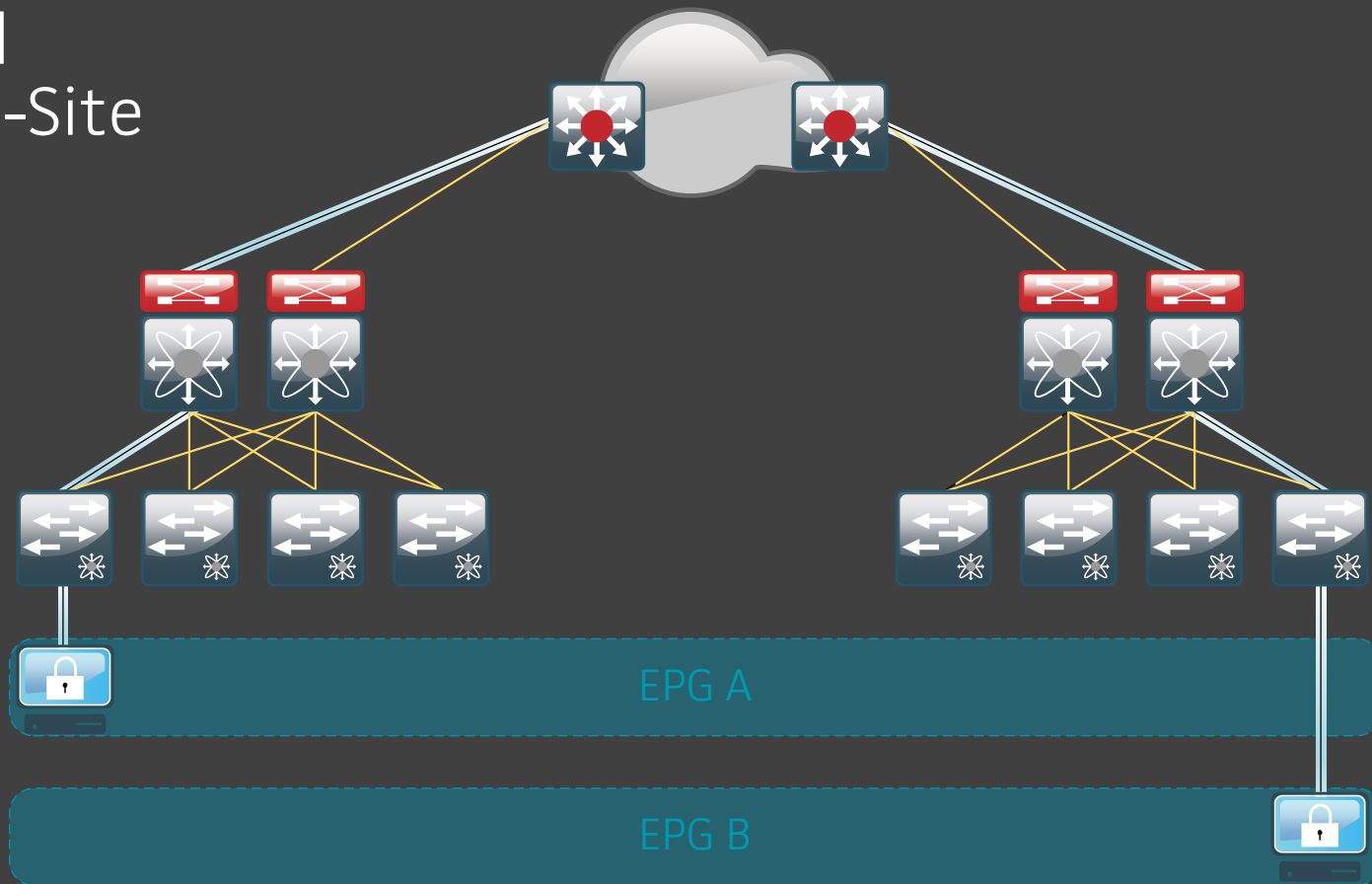
Quelle: <https://www.networklife.net/2020/07/cisco-aci-l4-l7-service-graph-one-arm-mode-pbr-with-fortinet-firewall/>



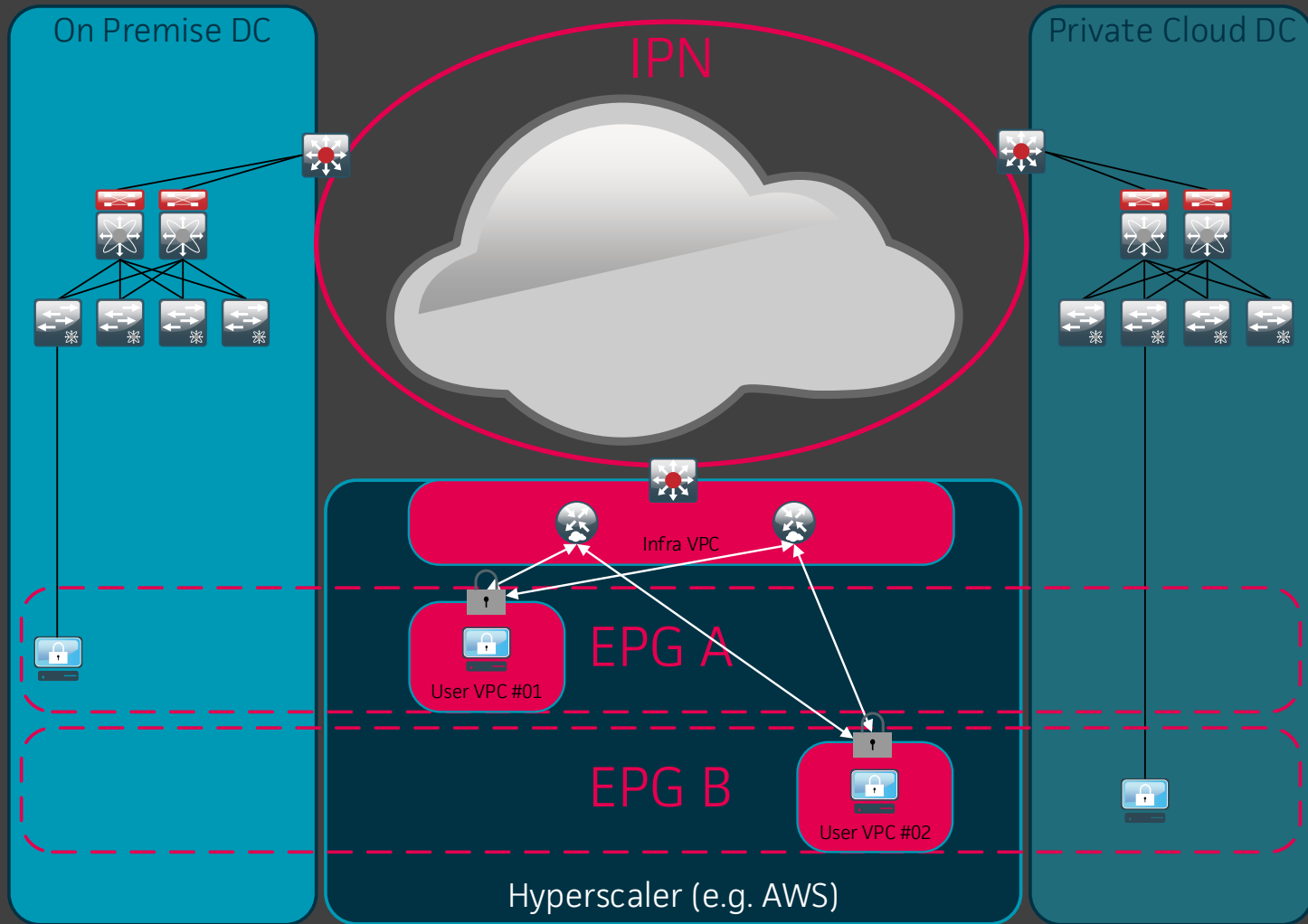
VxLAN und VTEPS



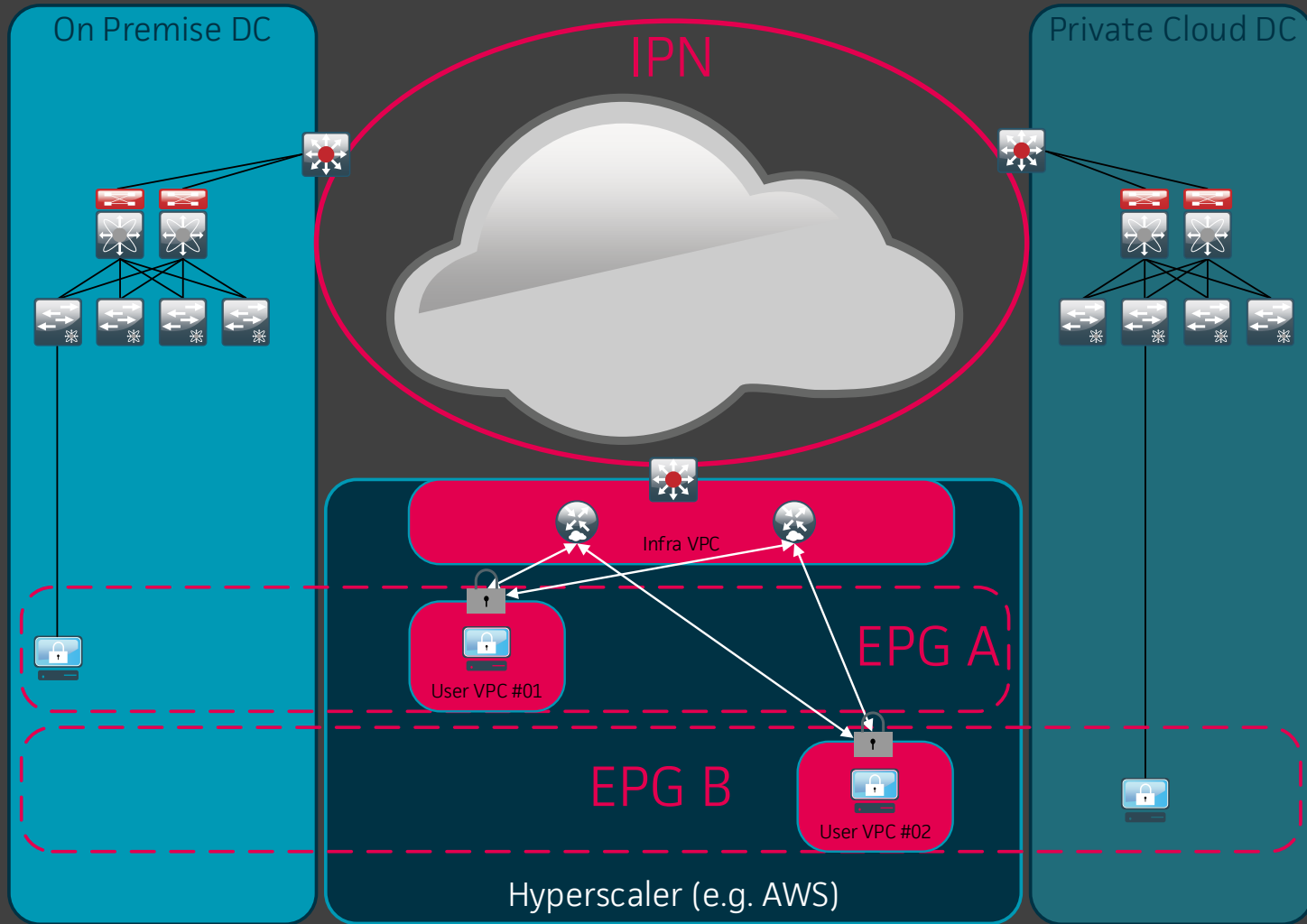
Multi-Pod und Multi-Site



Multi-Cloud und „ACI anywhere“



Multi-Cloud und „ACI anywhere“





One View

Admin Console

Services ▾

Sites ▾

One View

My Sites

Map ☒ Table

1



Nexus Snapshot

Anomalies active now

Anomalies by Severity ▾



Top Sites by Anomaly Score

Advisories active now

Advisories by Severity ▾



Top Sites by Advisories

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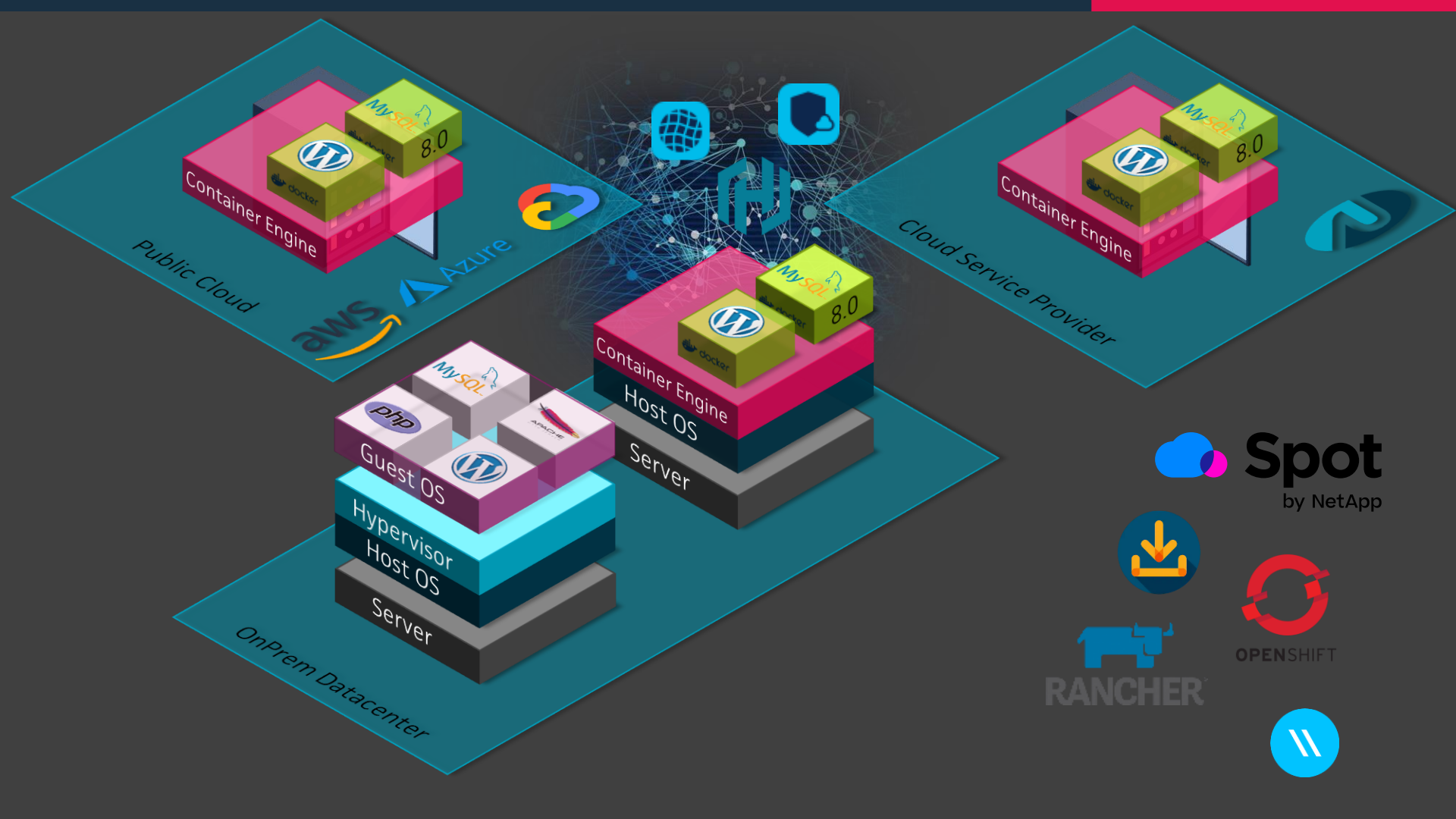
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Spot
by NetApp



OPENSHIFT



/KAFFEEPAUSE



ADVANCED
UNIBYTE



...um 15.15 Uhr geht's weiter!

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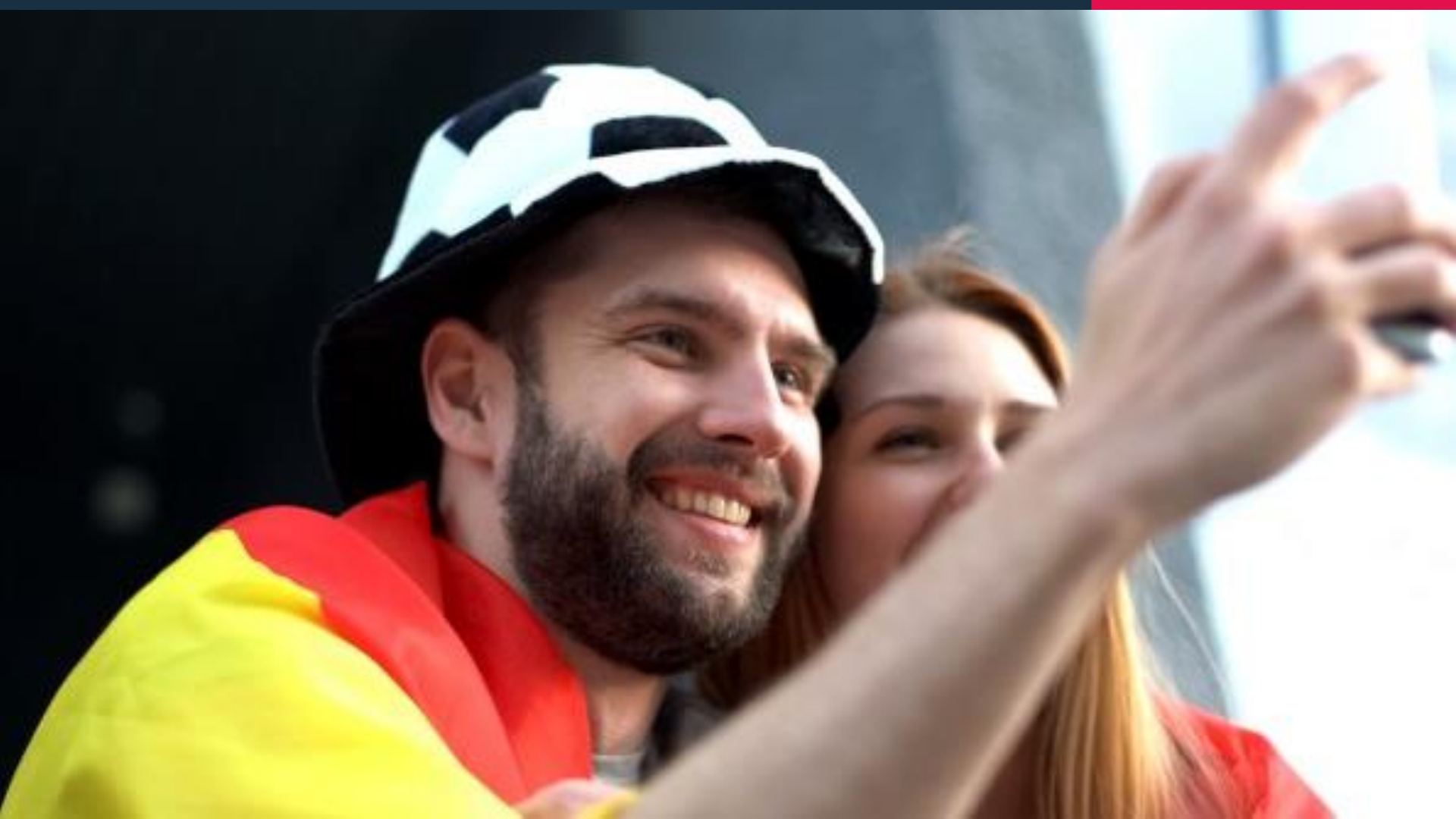
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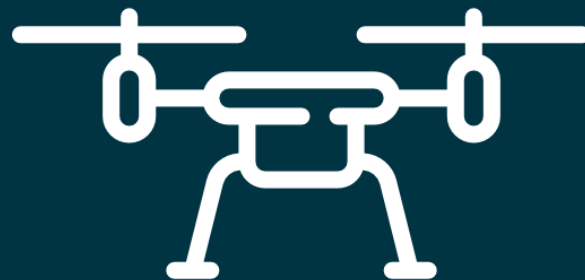
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Senior System Engineer und Teamlead Engineering

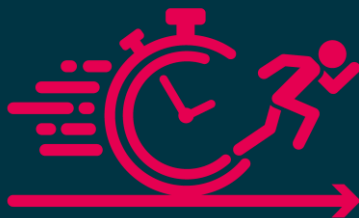


kai.schoenberg@au.de





Velocity



Gartner predicts by 2022, more than 75 % of global organizations will be running containerized applications in production, instead of 30 % in 2019.

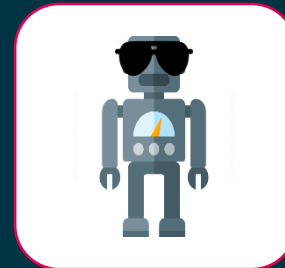
Container



Anwendung funktionieren
out-of-the-box auf allen
Maschinen...



...auch in der Cloud...



...die schnell und einfachen
Zugriff auf neue coole
Technologien ermöglicht.

Microservices



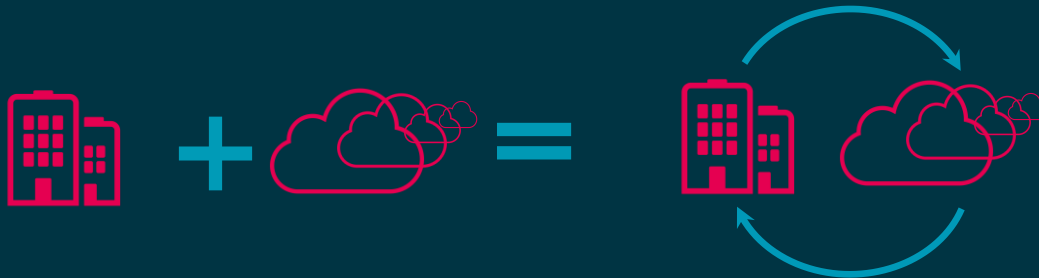
Cloud Strategien



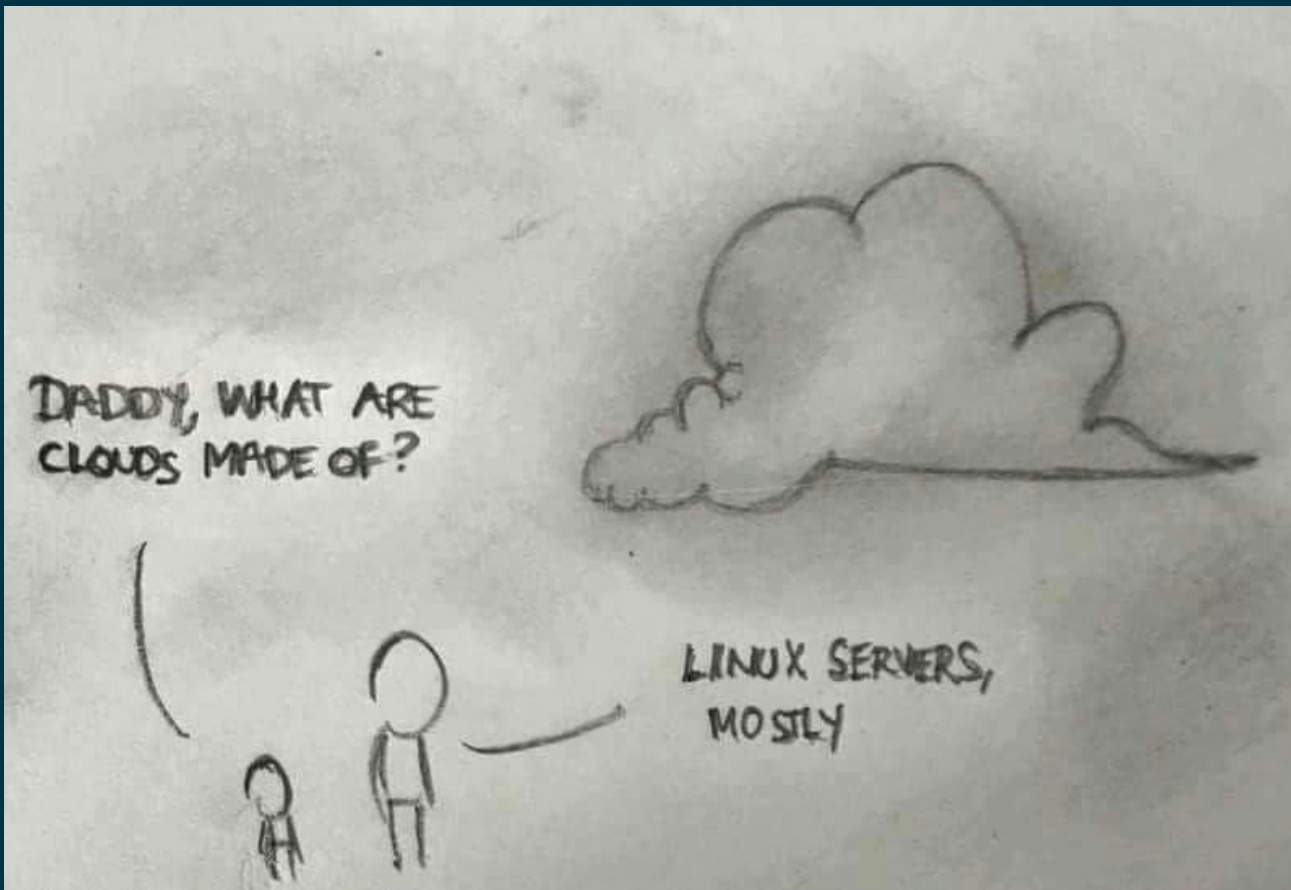
Hybrid Cloud

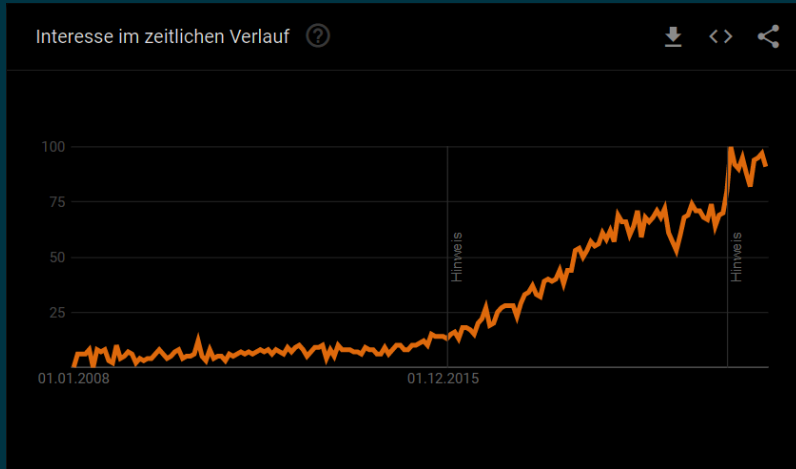


Multi Cloud

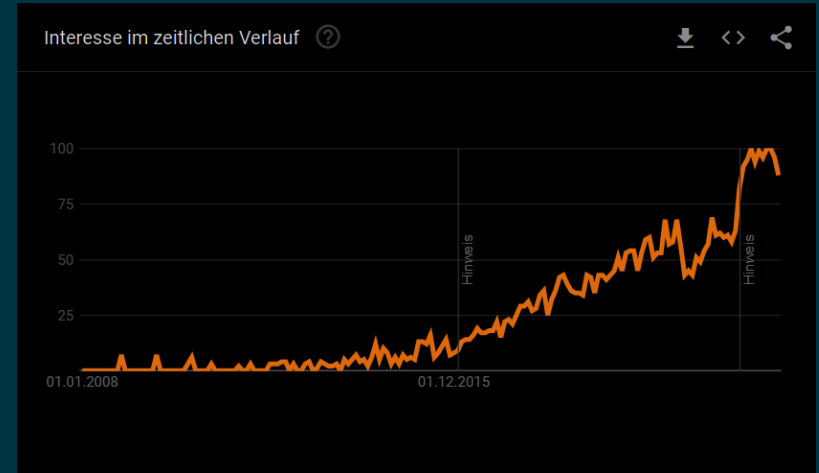


Hybrid Multi Cloud



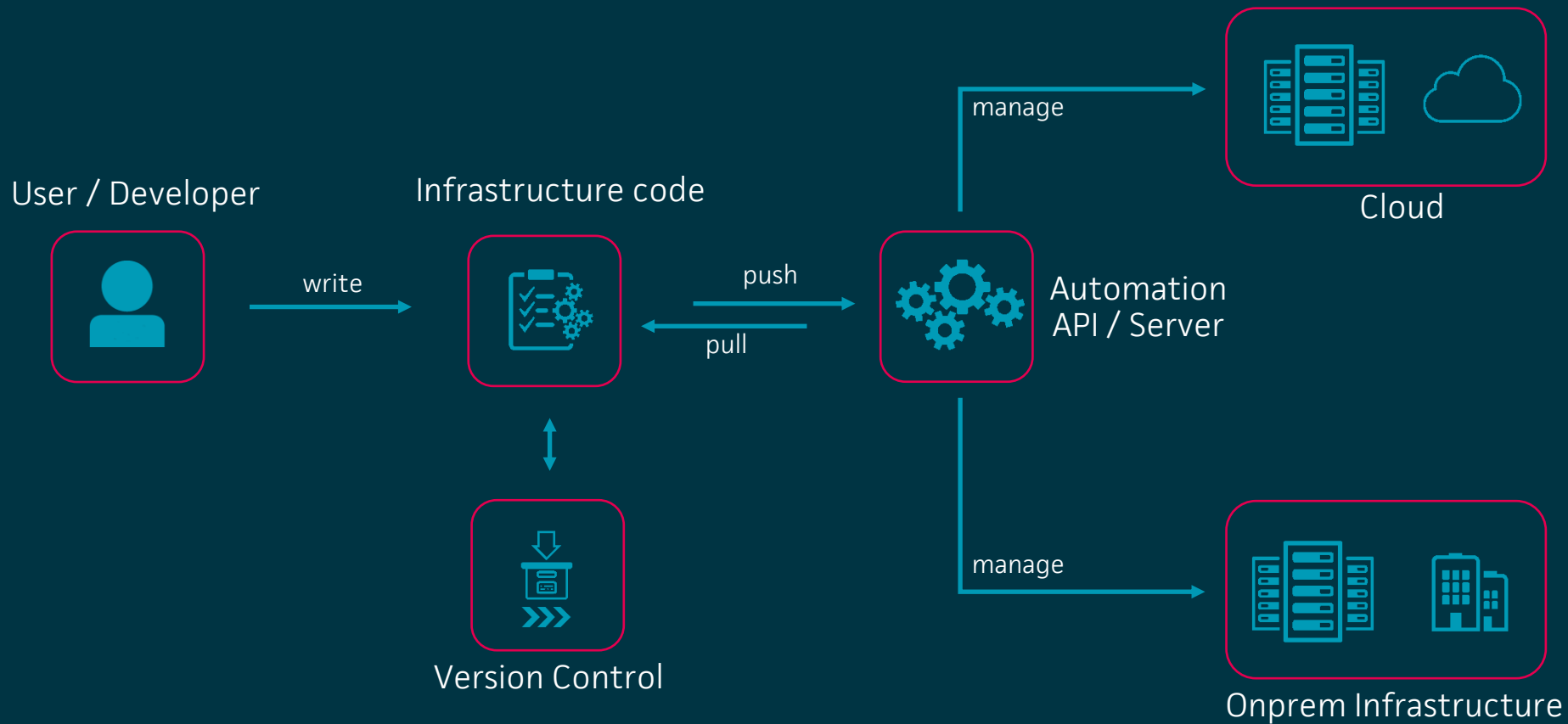


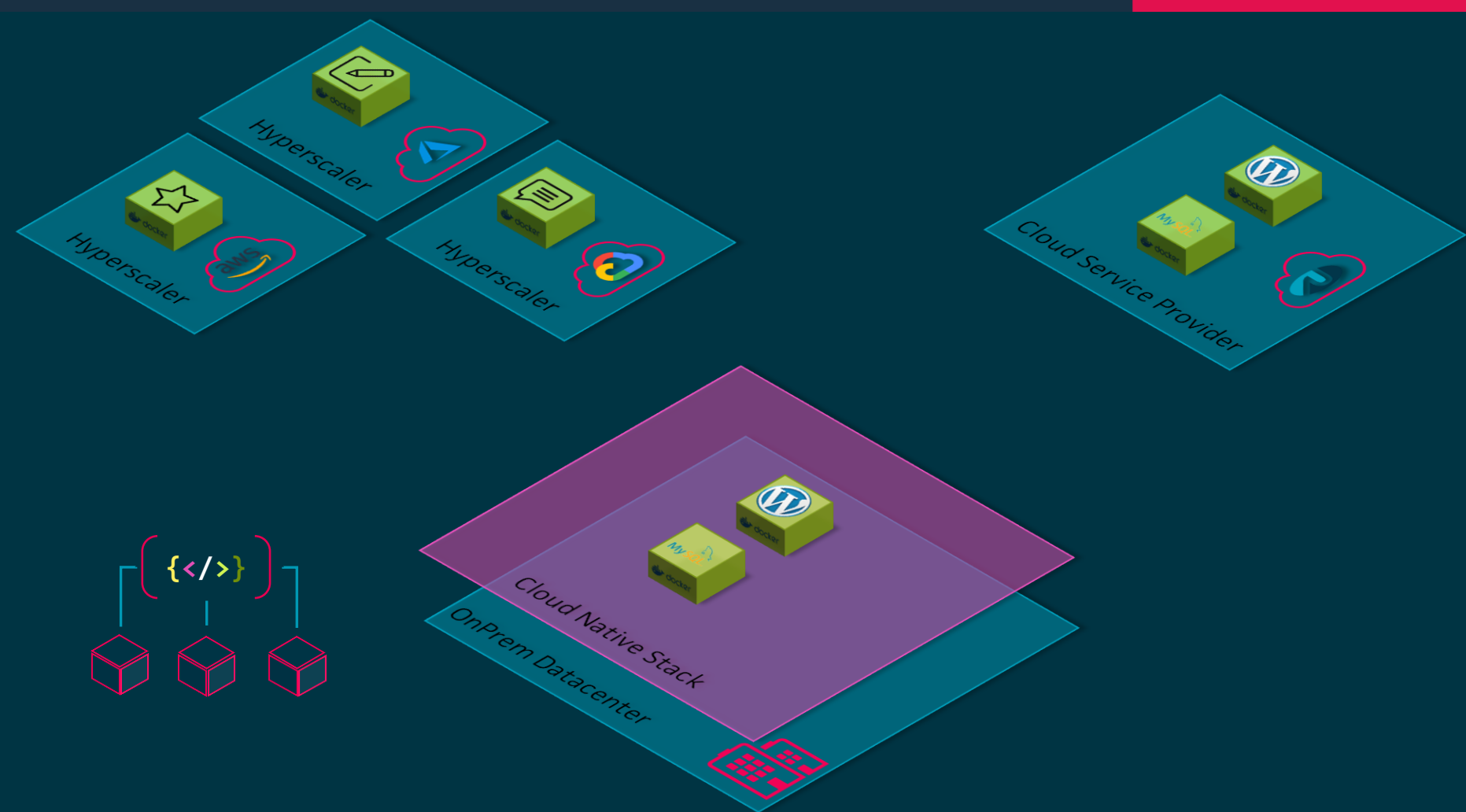
cloud native



infrastructure as code

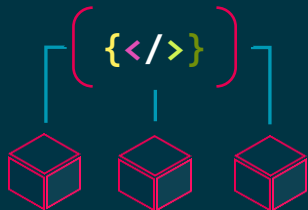
Infrastructur as Code







Container als ein Schlüssel zu
Hybriden Multi-Cloud Strategien.



Cloud Native mit IaC als Betriebsmodel sehen.



Velocity - Time to Market.



Lieferant

Partner

Gefährte



/AGENDA



13.30 Uhr „Check-in“ im Hotel Krønasår des Europa-Park Rust

14.00 Uhr **Begrüßung** Benjamin Nill, Solution Architect Cloud, AU

Data Fabric – Hybride Data Center Benjamin Nill, Solution Architect Cloud, AU

Entlastung im Data Center – mit ACI

ACI Anywhere Torsten Graf, Senior System Engineer, AU, Frank Peter Zeh, Senior System Engineer, AU

Kurzfasit zur Pause Benjamin Nill, Solution Architect Cloud, AU

15.00 Uhr **Kaffeepause**

15.15 Uhr **Appmobilität bei Hybriden Multi Cloud Szenarien** Kai Schönberg, Senior System Engineer und Teamlead Engineering, AU

IT-Fachkräfte sinnvoll einsetzen Toni Schwarz, Abteilungsleiter Business Development, AU

Managed Service – Campus Network Lars Schneider, Produktmanager, AU

Zusammenfassung und Blick in die Zukunft Toni Schwarz, Abteilungsleiter Business Development, AU

16.15 Uhr **Gemütlicher Ausklang bei Fingerfood und mehr**

**LET'S GO
FUTURE**
CAMPUS NETWORK & DATA CENTER 2030



HUMAN RESOURCES



FAKTEN

> 100 NetApp-Zertifizierungen
jährlich

~ 100 Cisco-Zertifizierungen
4 Technologie-Spezialisierungen
4 CCIEs (Cisco Certified Internetwork Expert)

...
im Zuge von „Cisco Gold“

Ausbildung:

- ~ 10 weitere VDI-Engineers
- ~ 10 weitere Cloud-Engineers
- ~ 5 weitere Netzwerk Engineers
- ~ 5 weitere Cisco DC Engineers
- ~ 10 weitere Backup Engineers

/AGENDA



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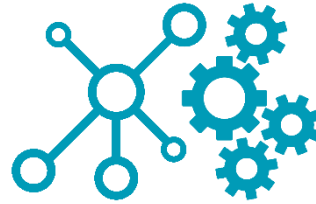
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**LET'S GO
FUTURE**
CAMPUS NETWORK & DATA CENTER 2030



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UNIBYTE

Managed Service Campus Network



AUSGEZEICHNETE IT
GUT/ECHT/ANDERS

Lars Schneider
Produktmanager

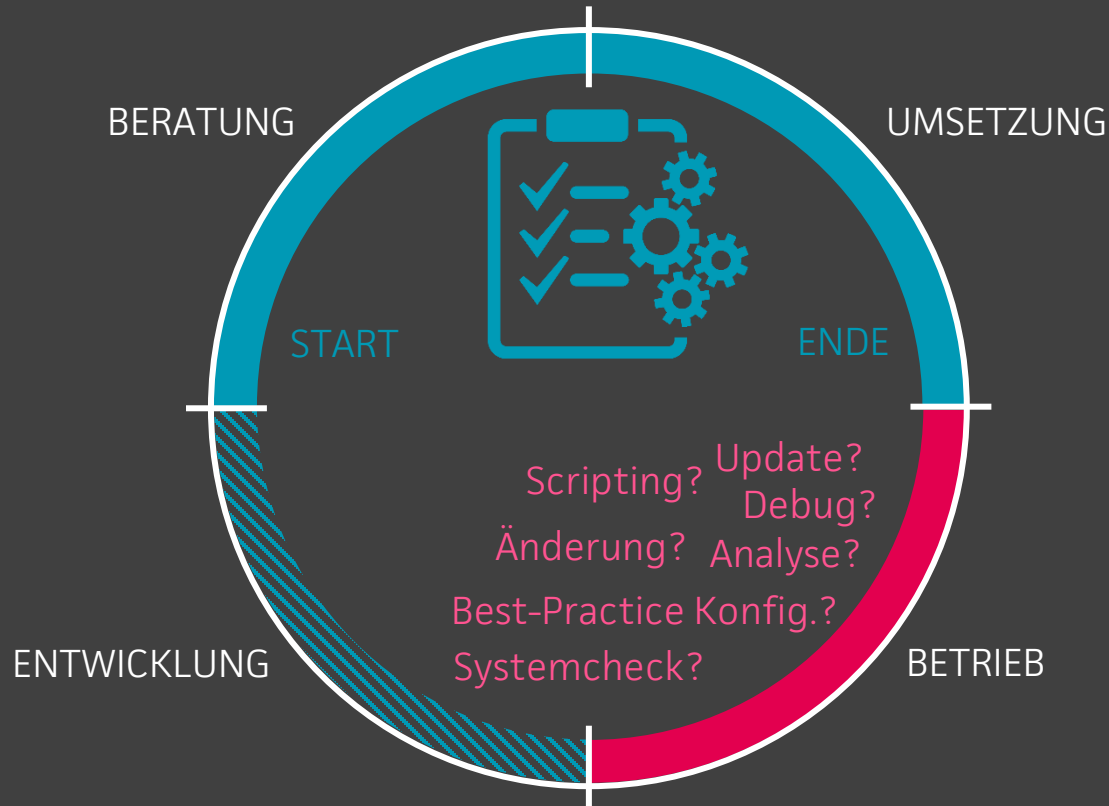


Lars.Schneider@au.de

Managed Services



ENTSTEHUNGSGESCHICHTE



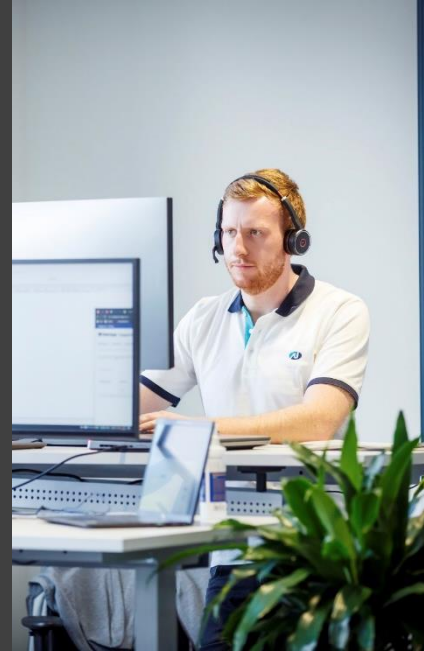
READY FOR THE FUTURE



AU Experten
Know-How



Standardisierung
Automatisierung



24x7 Bereitschaft



Premium Hersteller
Moderne Technologien

MANAGED SERVICE VON



Unternehmen GmbH

Softwareentwicklung

Enduser Support

IT-Servicemanagement

Administration

(inhouse) Consulting

IT-Security

Kommunikation / Mobiles Arbeiten

Applikationsentwicklung

IT-Strategie

uvm...

MANAGED SERVICE VON



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Applikationsentwicklung

IT-Strategie

uvm...

IT-Servicemanagement

Administration



24/7

Advanced UniByte GmbH

MANAGED SERVICE VON



Unternehmen GmbH

IT-Servicemanagement
Administration

IT-Servicemanagement
Administration



24/7

Advanced UniByte GmbH

Rahmenbedingungen:

Nahtlose Prozessintegration

Verlässlichkeit und Vertrauen

Nähe in der Zusammenarbeit

Gemeinsame Strategie

Individuelle Serviceanpassungen

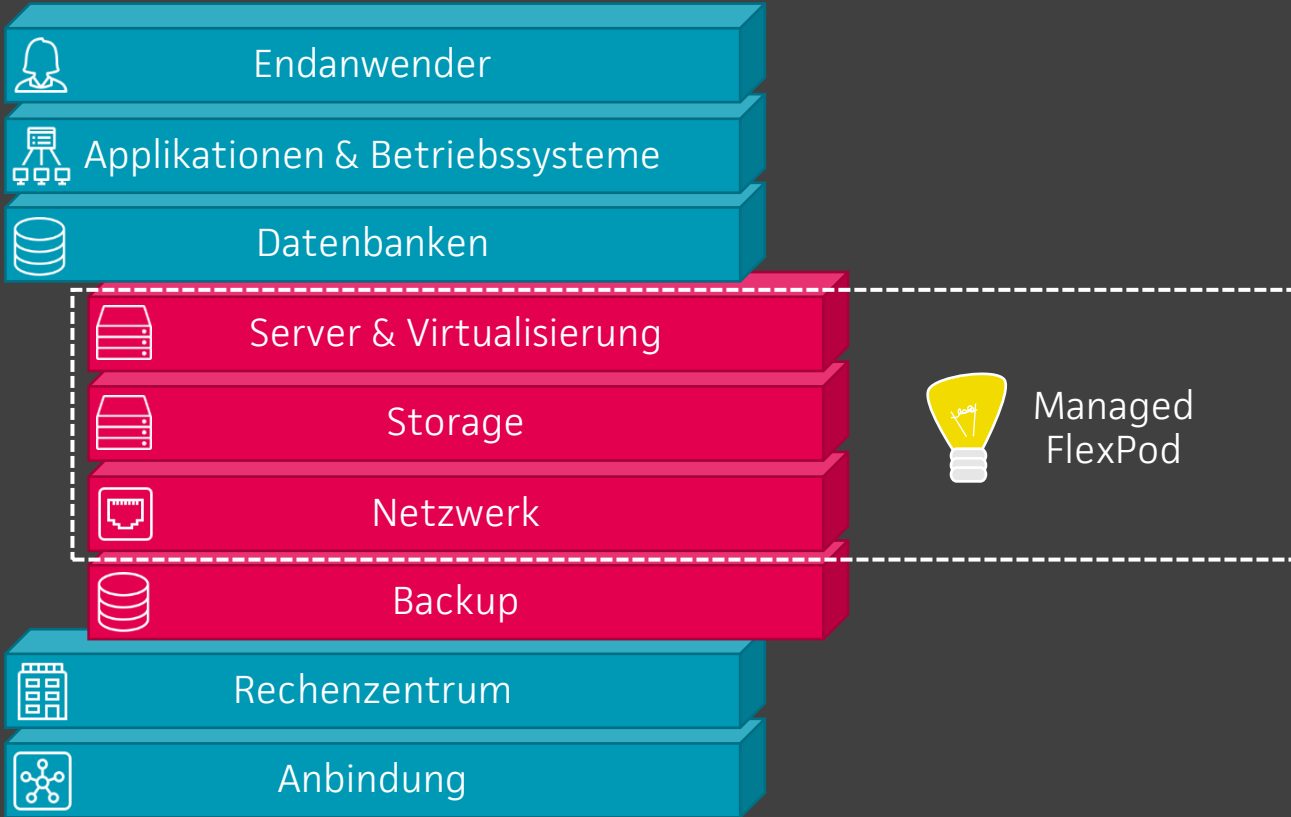
Synergien nutzen

AU Portfolio

LEISTUNGSSPEKTRUM

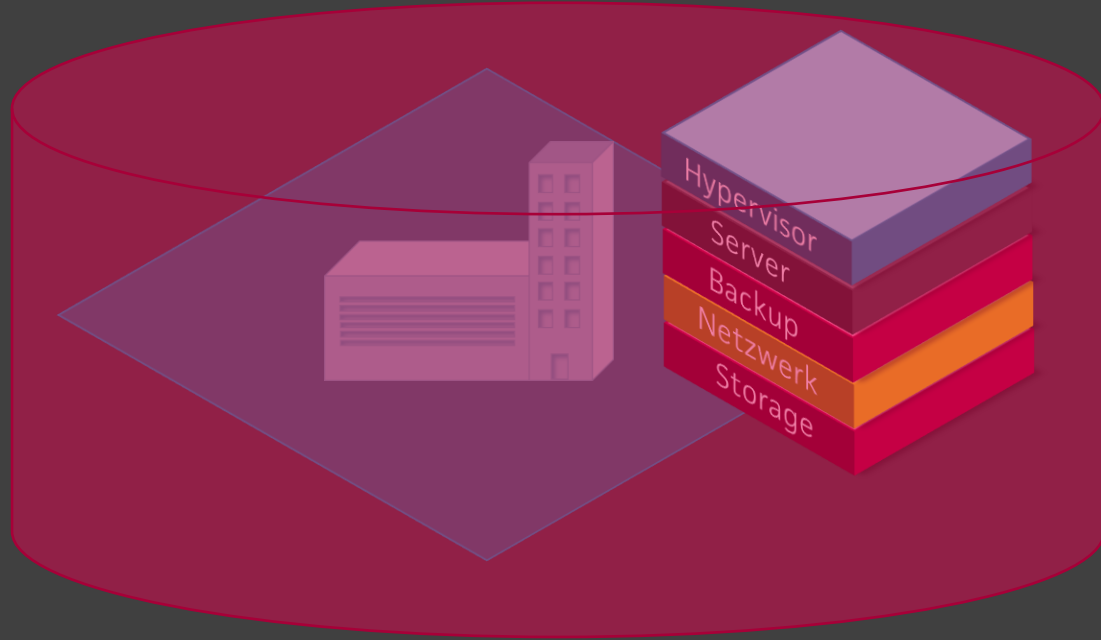


PORTFOLIOSTRATEGIE

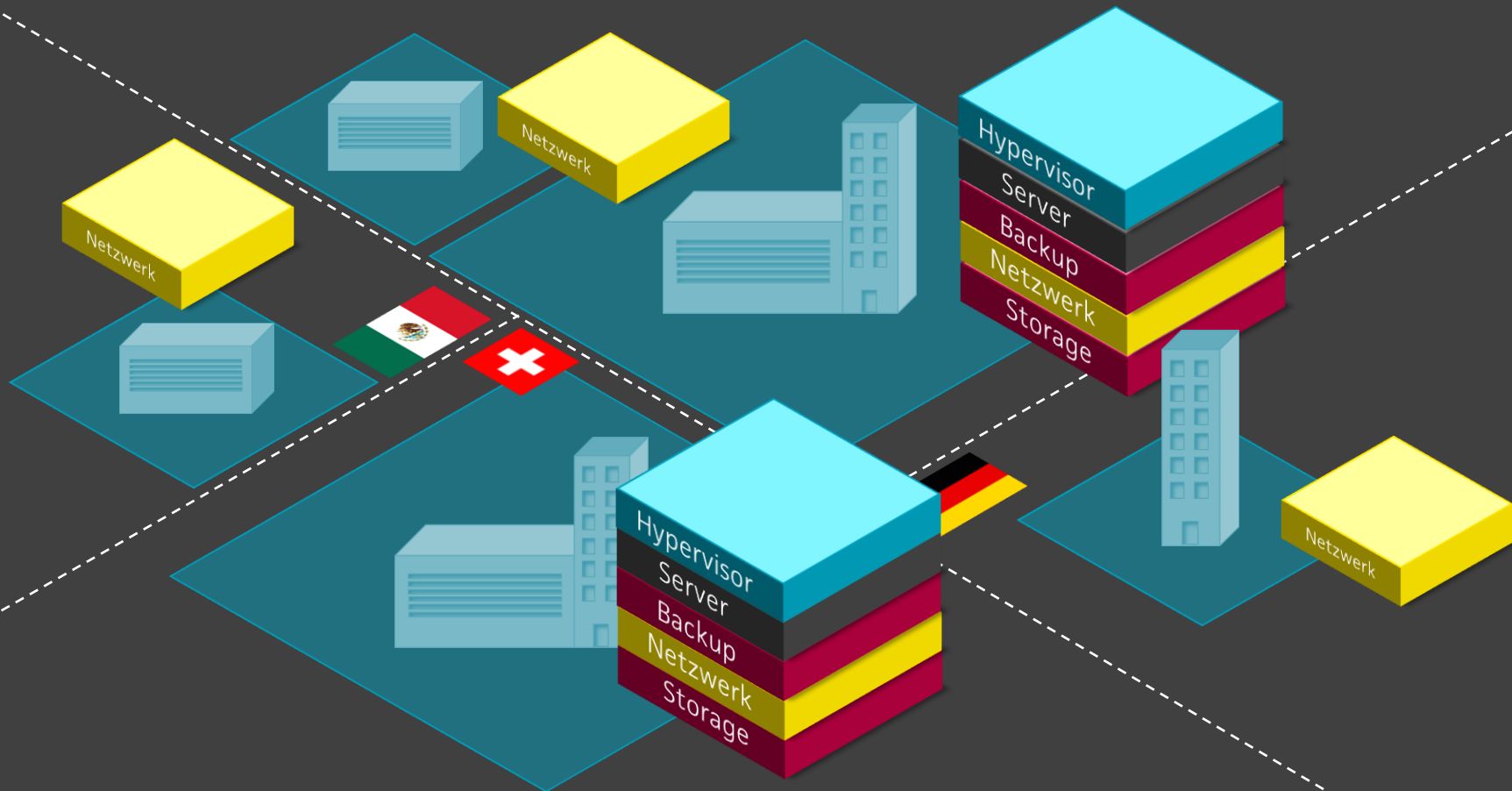


MANAGED FLEXPOD

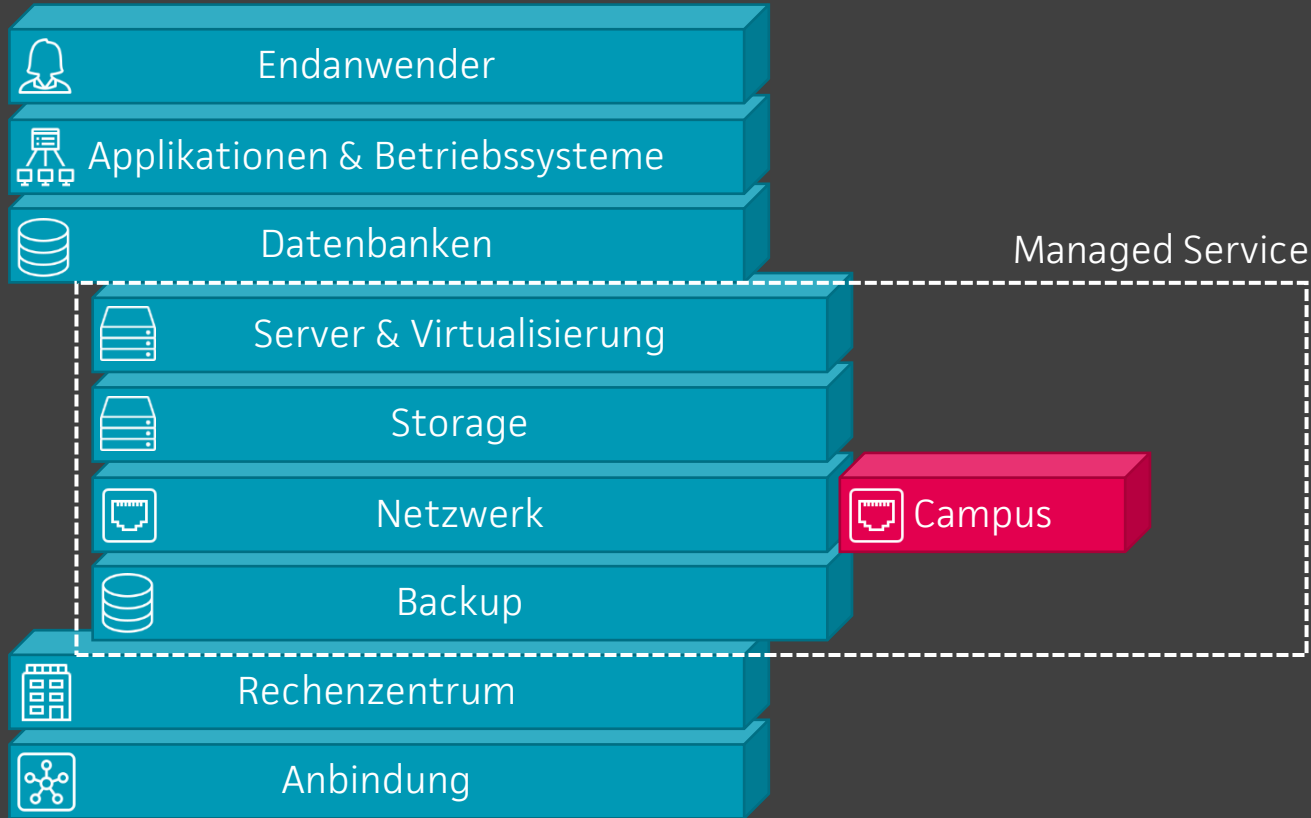
0100010111001010
1010010110011011
0100110111101101
0011011101100110
0110010011001100
01 SILO DETECTED 1
0111010101110101
0110100110101100
1001110110110001
0101101010101010
1010101010111110
1010011010001101



IT IST GRENZENLOS



PORTFOLIOERWEITERUNG



ÜBERWACHEN UND BETREIBEN

AU Standard Produkte

SERVICE DESK

- SERVICE DESK
- SUPPORT

MONITORING

- AUDITIERUNG
- AKTUALISIERUNG
- ÜBERWACHUNG
- ALARMIERUNG

AU Managed Service

MONITORING PREMIUM

- PROAKTIVE
REAKTION AUF
STANDARD-EVENTS

BETRIEB

- BASISBETRIEB
- KONFIGURATIONS-
ÄNDERUNGEN

TAG (UND NACHTS)

SERVICE LEVEL KLASSE 1

7 Tage und 24 Stunden
Servicezeit

90 Minuten Reaktionszeit

4 Stunden Statusmeldezeit

Bearbeitungszeit

- Standard Change: 2 Tage
- Service Request: 2 Tage
- Emergency Change: 45 Min.
- Major Change: Indiv.
- Incident: Indiv.



SERVICE LEVEL KLASSE 2

werktags, 8:00 – 18:00 Uhr
Servicezeit

4 Stunden Reaktionszeit

8 Stunden Statusmeldezeit

Bearbeitungszeit

- Standard Change: 3 Tage
- Service Request: 3 Tage
- Emergency Change: 45 Min.
- Major Change: Indiv.
- Incident: Indiv.

HOLEN SIE SICH  INS TEAM



/AGENDA



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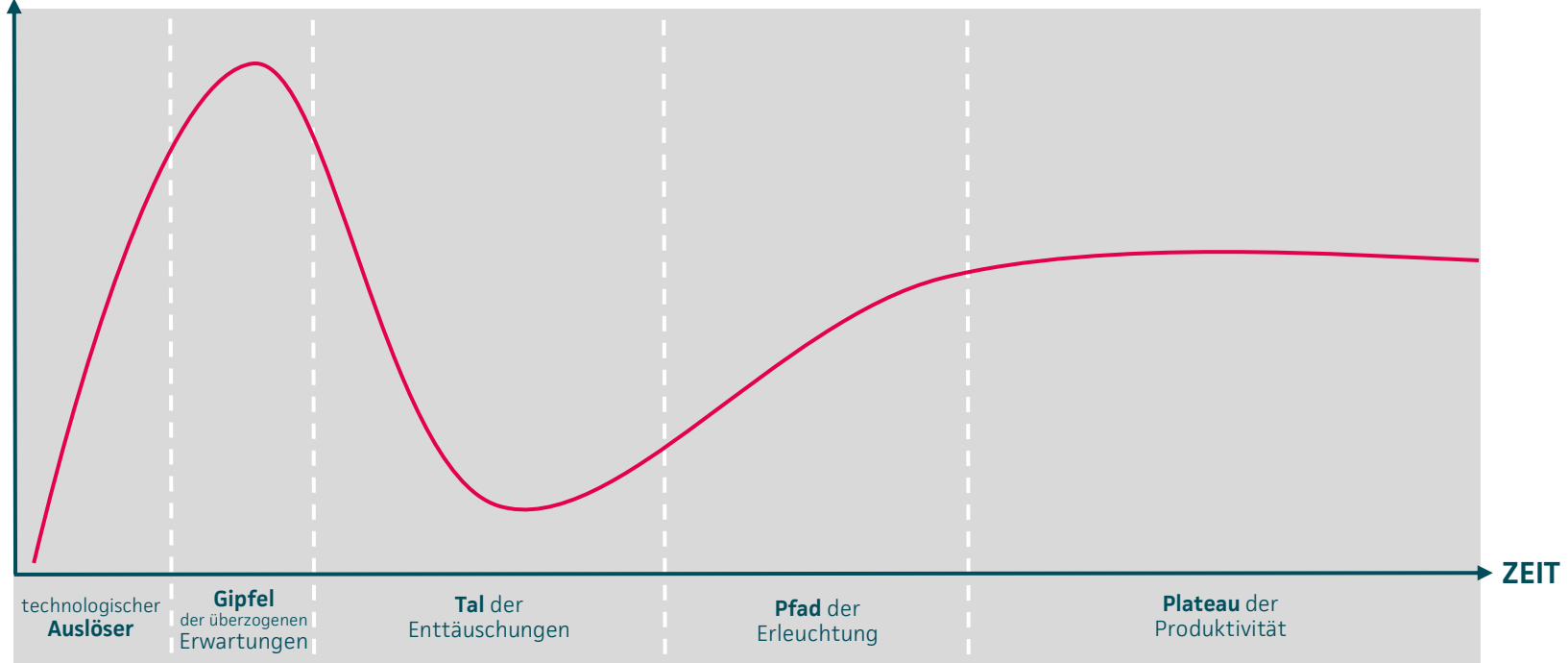
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**LET'S GO
FUTURE**
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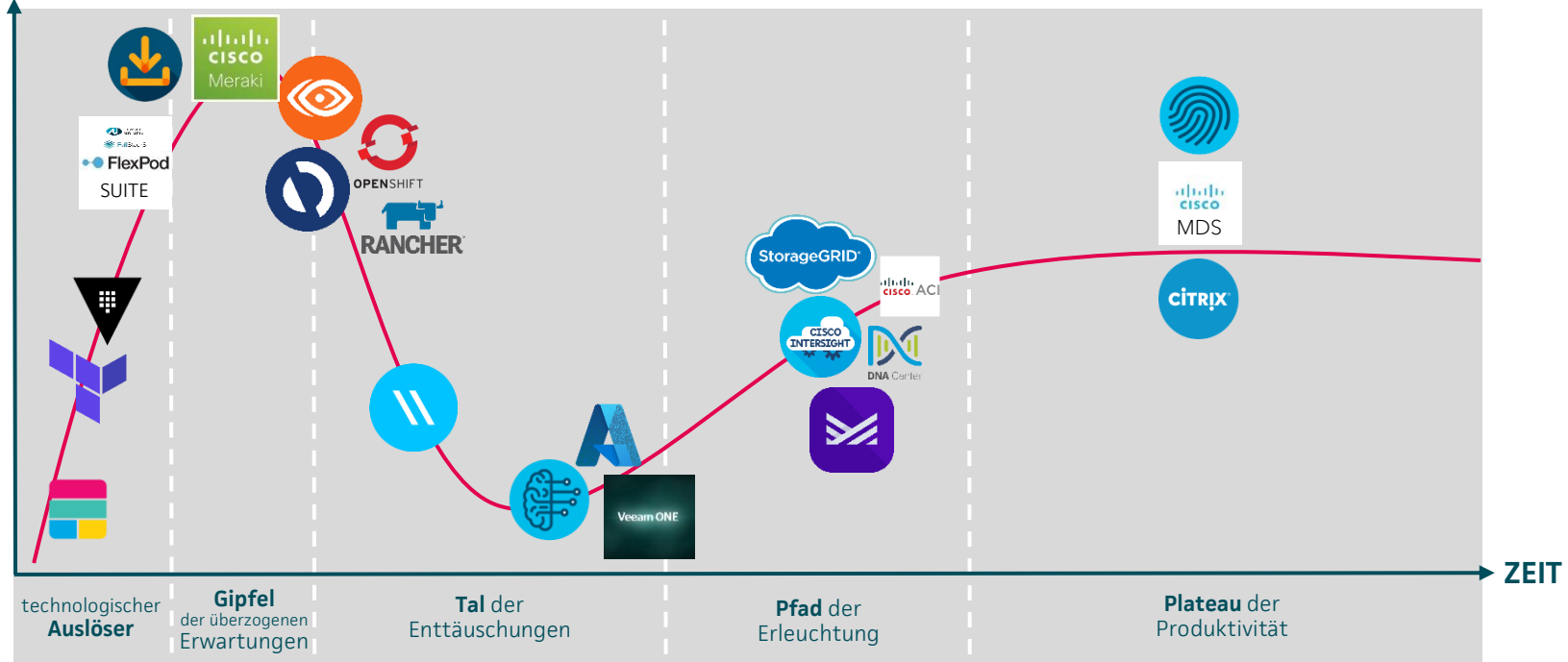
HYPERCYCLE

AUFMERKSAMKEIT



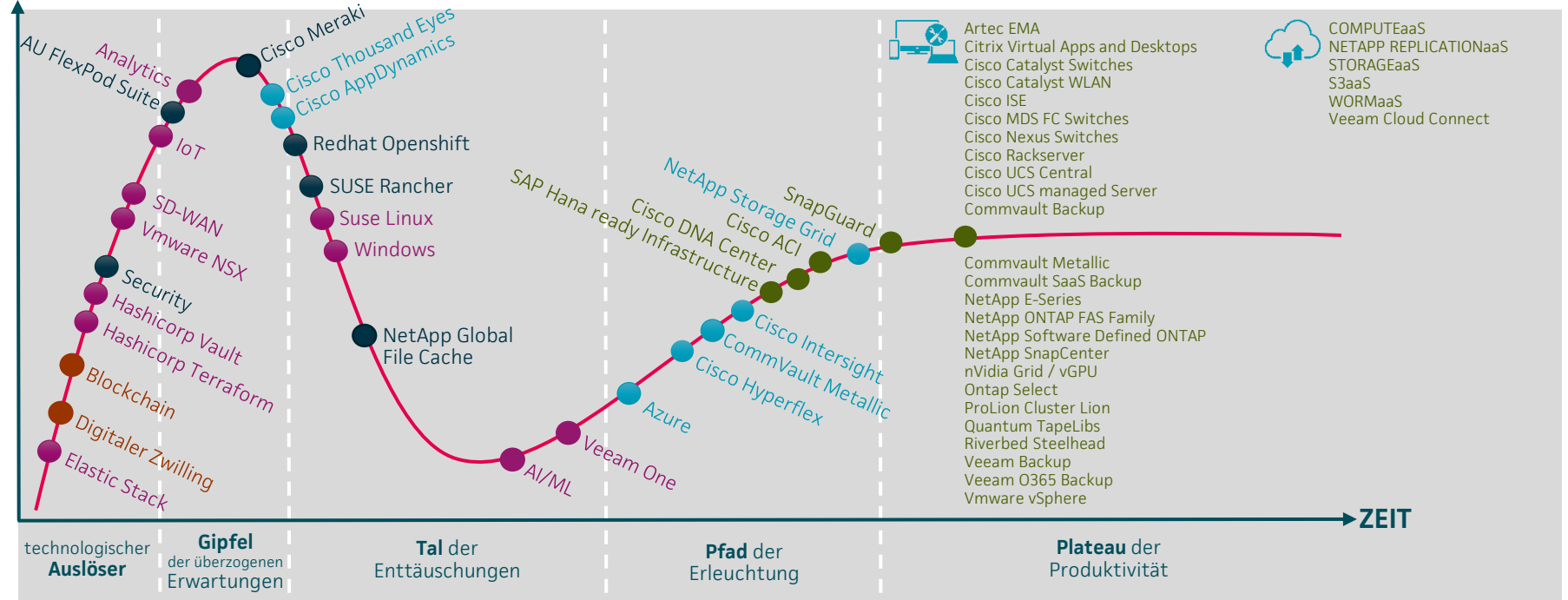
HYPERCYCLE – AUF EINEN BLICK

AUFMERKSAMKEIT



HYPERCYCLE – AUF EINEN BLICK

AUFMERKSAMKEIT



Legende: ● **jetzt** ● **bis zu 12 Monate** ● **12-24 Monate** ● **24-60 Monate** ● **über 5 Jahre**

/AU-TECPOD



ADVANCED
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JETZT REINHÖREN! Campus Fest



**LET'S GO
FUTURE** 
CAMPUS NETWORK & DATA CENTER 2030

/ANMELDEN



Campus Fest

Die Netzwerkwelt zum Anfassen

Campus Fest Metzingen

23.03.2023

Campus Fest Friedrichshafen

30.03.2023

**Hausmesse
2023**

27. - 29. Juni

/FEEDBACK



ADVANCED
UNIBYTE

Handy zücken und anonym abstimmen.



Ihre Meinung ist uns wichtig!

/DANKESCHÖN



ADVANCED
UNIBYTE



Danke für Ihre Aufmerksamkeit!
Auf einen schönen Abend in der Sports Bar.

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FUTURE**
CAMPUS NETWORK & DATA CENTER 2030

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