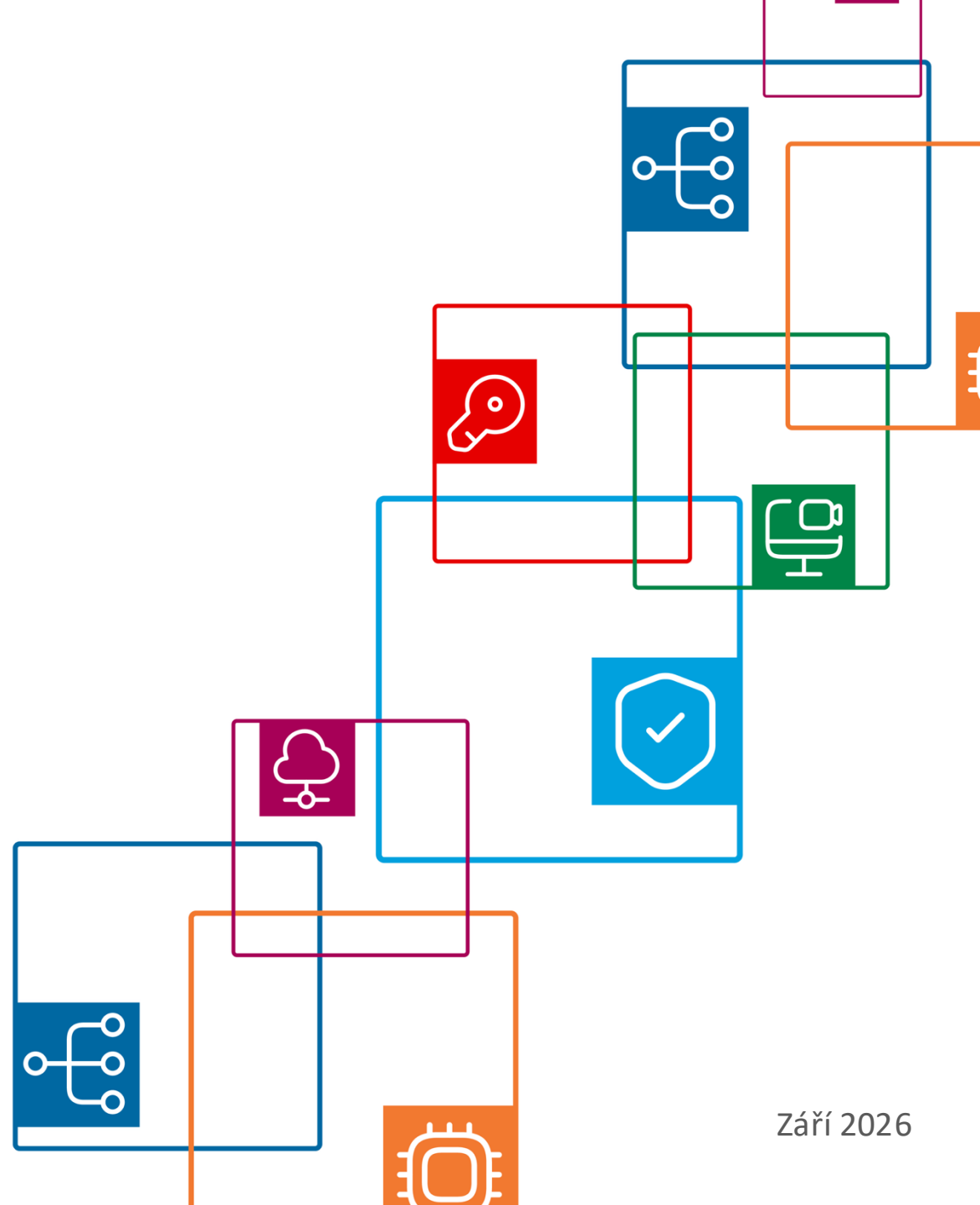




NetBox jako cesta k (ne)pořádku

Ladislav Loub

Praha

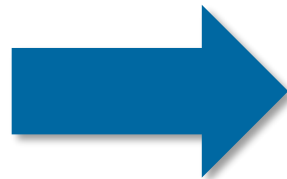


Září 2026



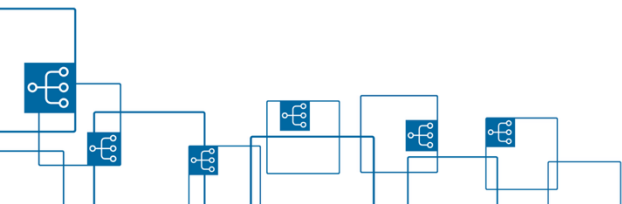
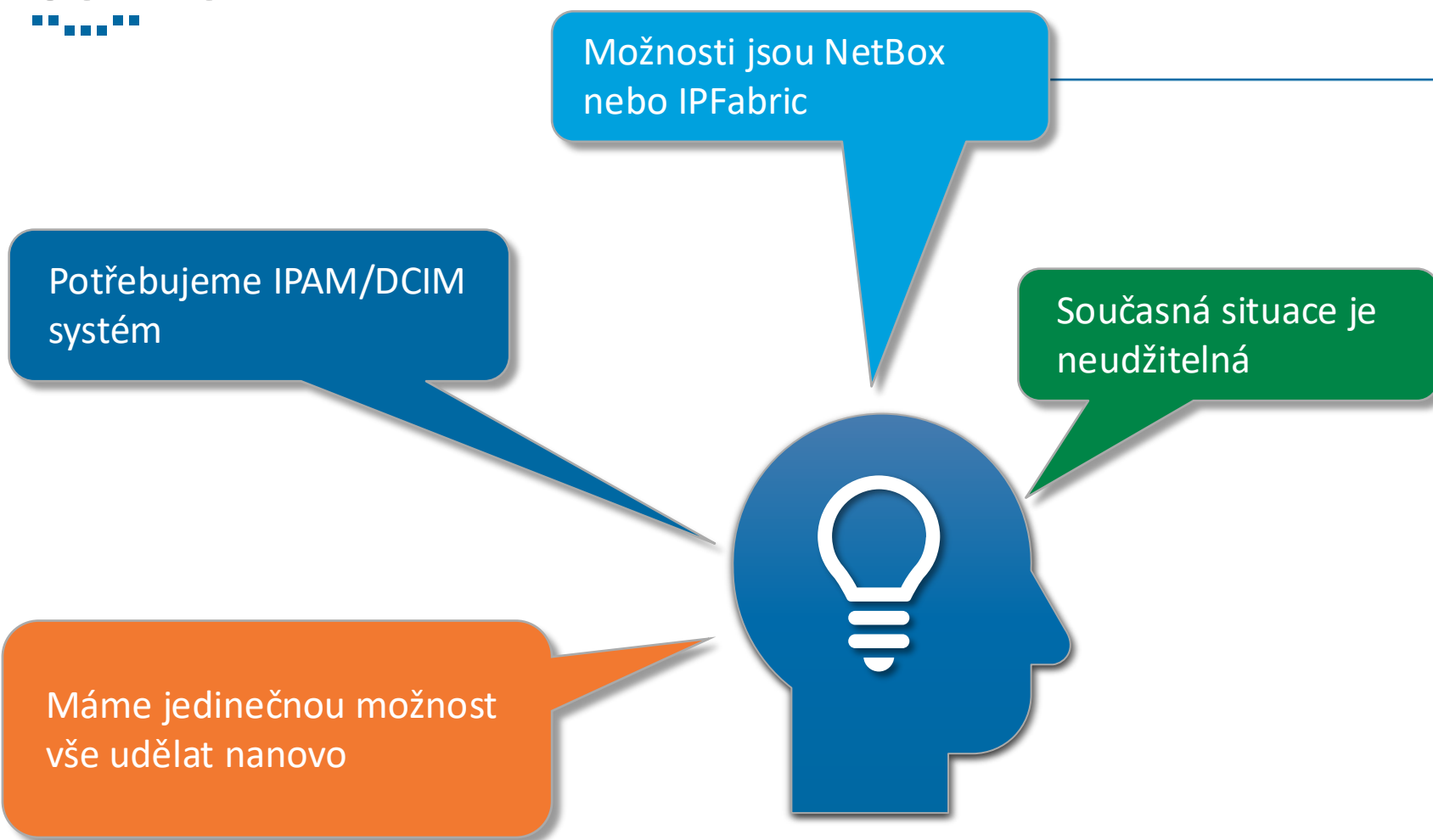
Problém

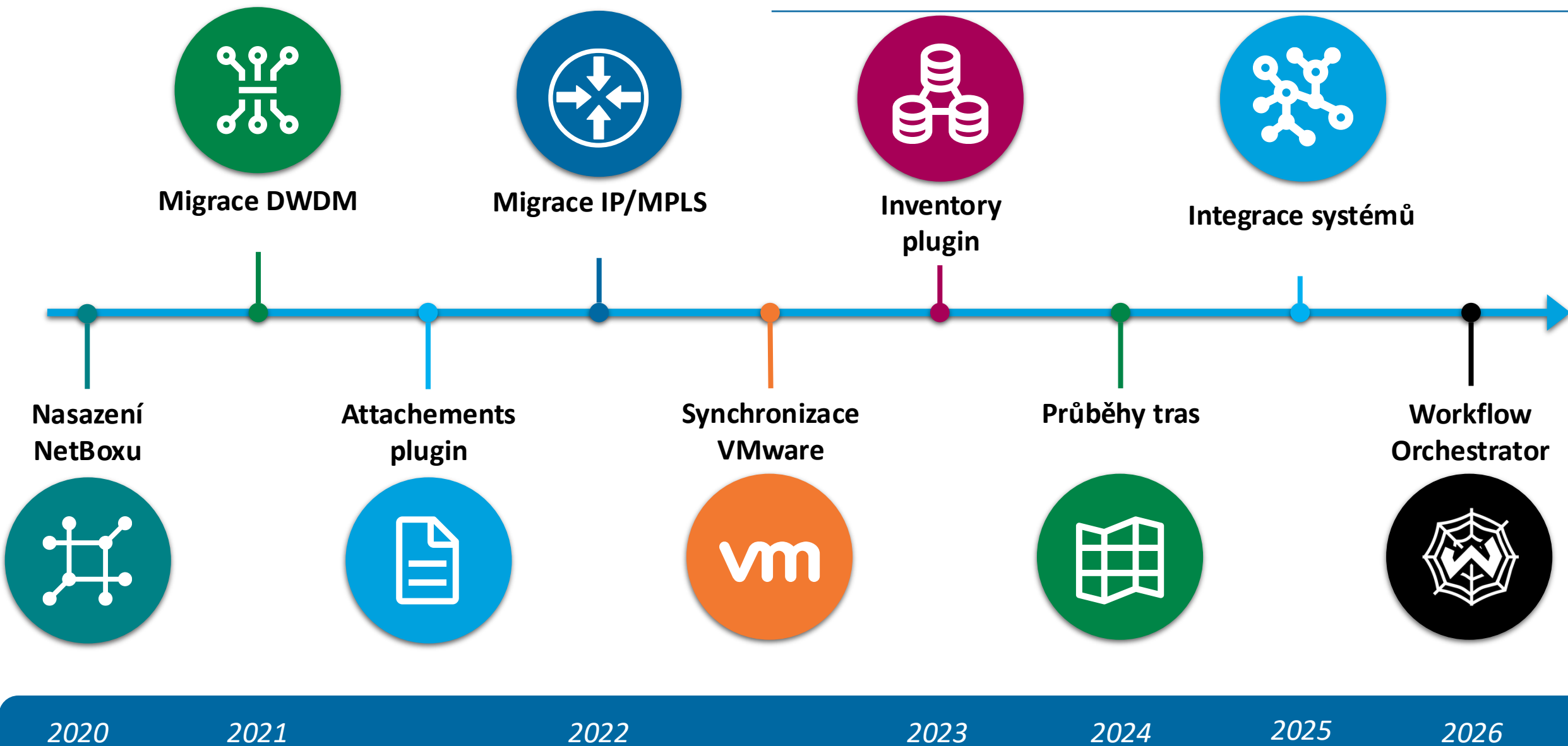
- ❗ Informace roztroušené po několika systémech
 - Wiki
 - Racktables
 - Excel
- ❗ Složitě získat odpověď na jednoduchou otázku – koho ovlivní tento výpadek
- ❗ Nemožné uvažovat o automatizaci
- ❗ Dokumentace nikdy neodpovídala realitě



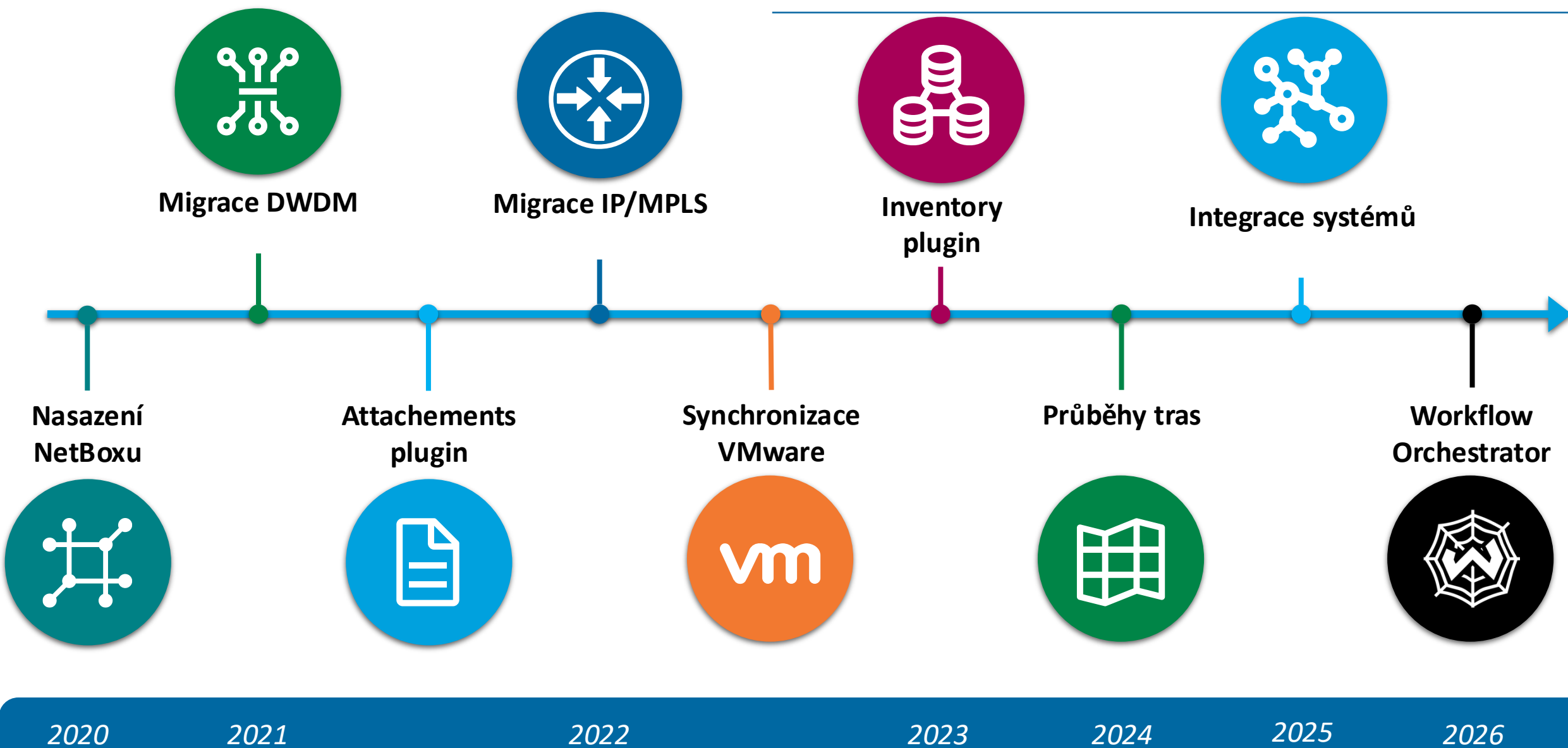
Cíl

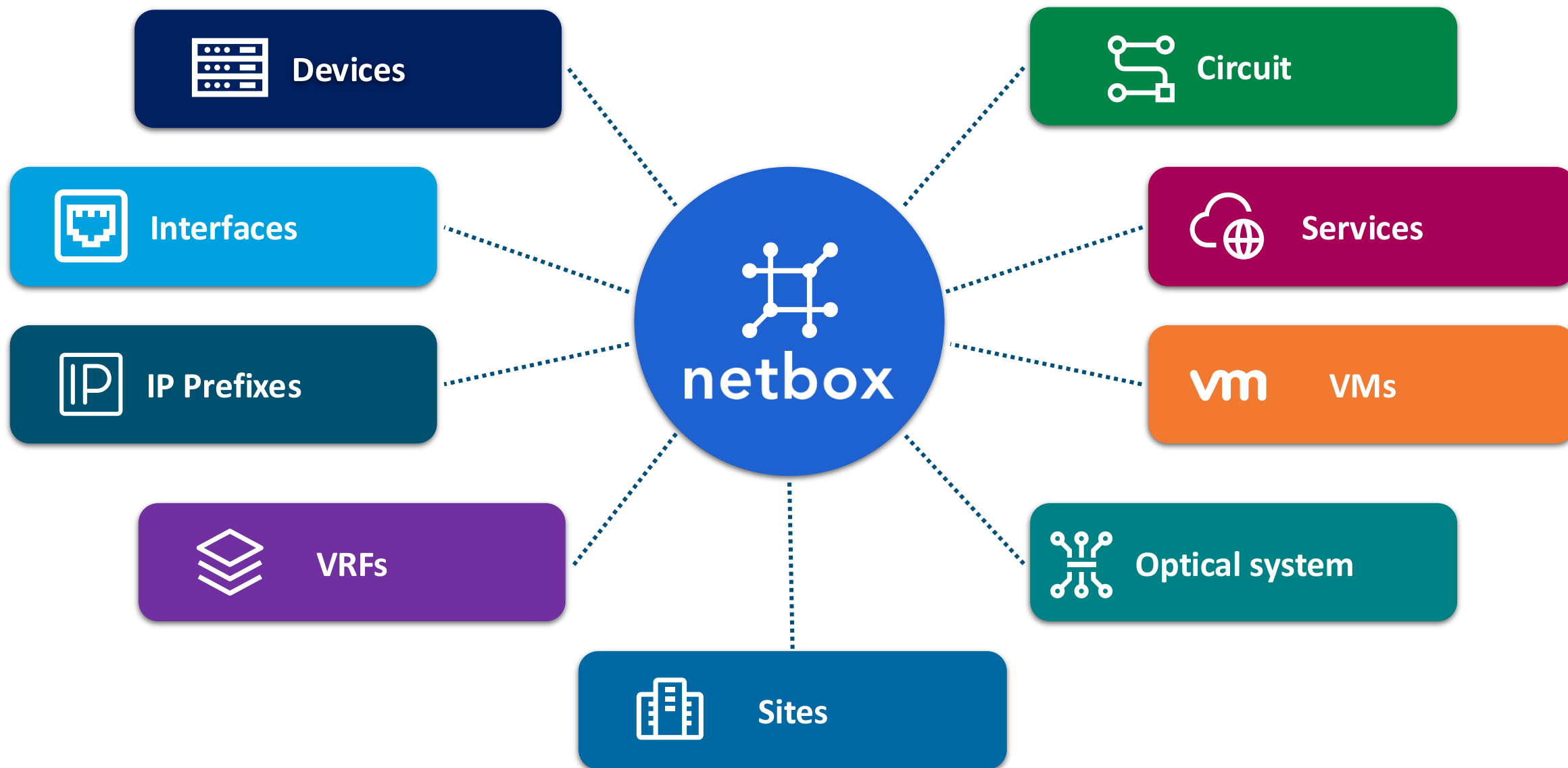
- ✓ Jeden systém, který udrží většinu informací o síti
- ✓ Systém, který dokáže komunikovat strojově s ostatními = API
- ✓ Zpřístupnit možnosti automatizace
- ✓ Auto-dokumentující síť
- ✓ Modelovat služby a ne pouze zařízení



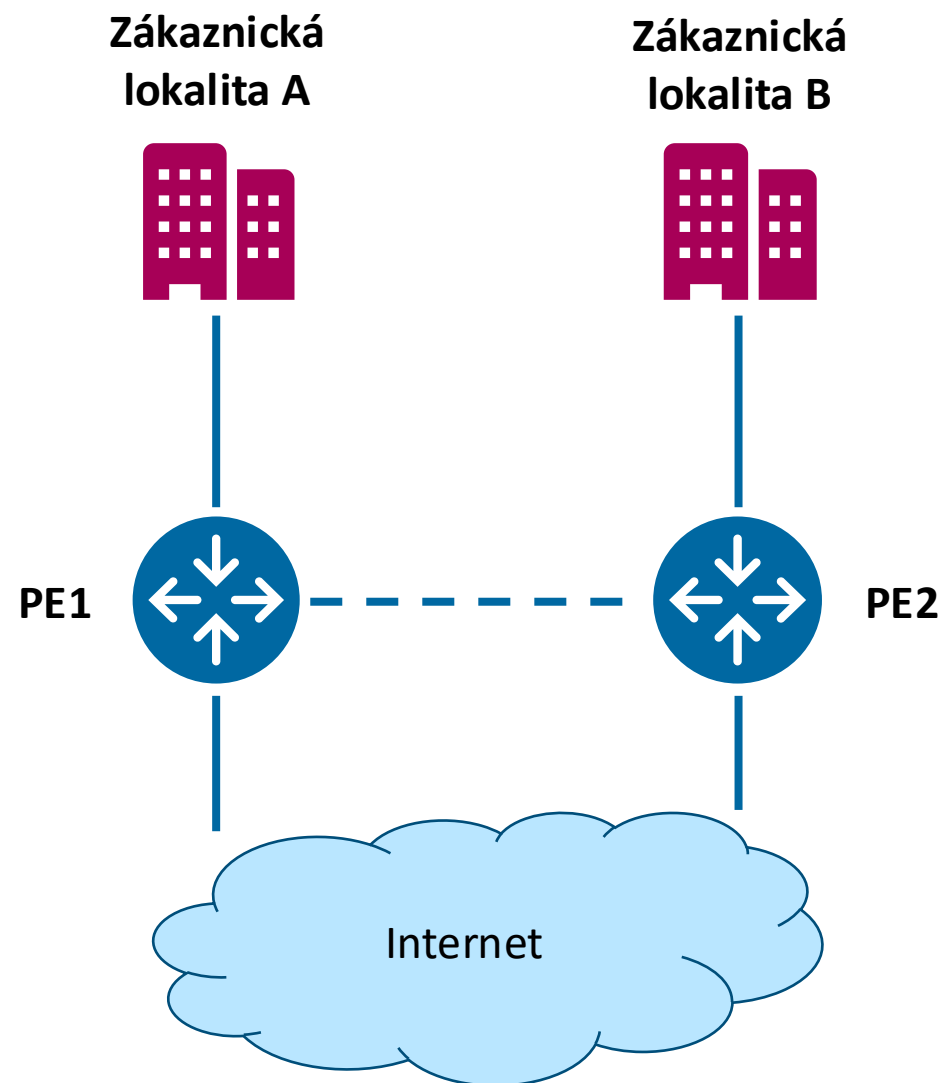








Sít'ová služba v NetBoxu

 Device

Device

Module Bays 4

Interfaces 265

Console Ports 4

Power Ports 4

BGP Sessions 257

Attachments

Assets 76

BGP Connections 464

LLDP Neighbors 19

Authorized Keys

Credentials

Map Locations

Custom Objects 1319

CF Backrefs 28

Config Context

Render Config

Contacts

Images

Diagrams

Journal

Changelog

Link - BGP 261

Link - ARP 657

Link - NDP 311

Link - MPLS LDP 20

Link - ISIS 16

Link - OSPF 12

Service-NETFYZ 15

Link - LLDP 27

Device

RegionCZ / Hlavní město Praha / území Hlavního města Prahy / Praha

SitePřipojný bod / Praha-Zlikova

Locationč.95

RackRack R1 (U25 / Front)

Virtual chassis—

Parent device—

GPS coordinates

Map

TenantA010000 - CESNET, zájmové sdružení právnických osob [D0001]

Description—

Cooling method—

Airflow—

Serial number

Asset tag—

Config templateinterface_portid_configuration

Management

StatusActive

RoleRouter

Platformiosxr

Primary IPv4

Primary IPv6—

Out-of-band IP—

Cluster—

Application Services

+ Add

NAME	PORT MAPPINGS	DESCRIPTION
— No application services found —		

Image Attachments

+ Attach an image

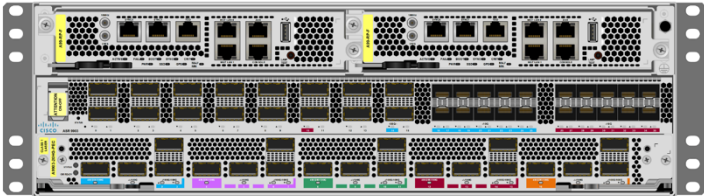
IMAGE	OBJECT	DESCRIPTION	DIMENSIONS	SIZE
— No image attachments found —				

Device Type

ManufacturerCisco

ModelASR-9903

Height3U

Front image

Custom Fields

Central Log Management (CLM)

FQDN	r1.cesnet.cz
Groups	701

Kontakty

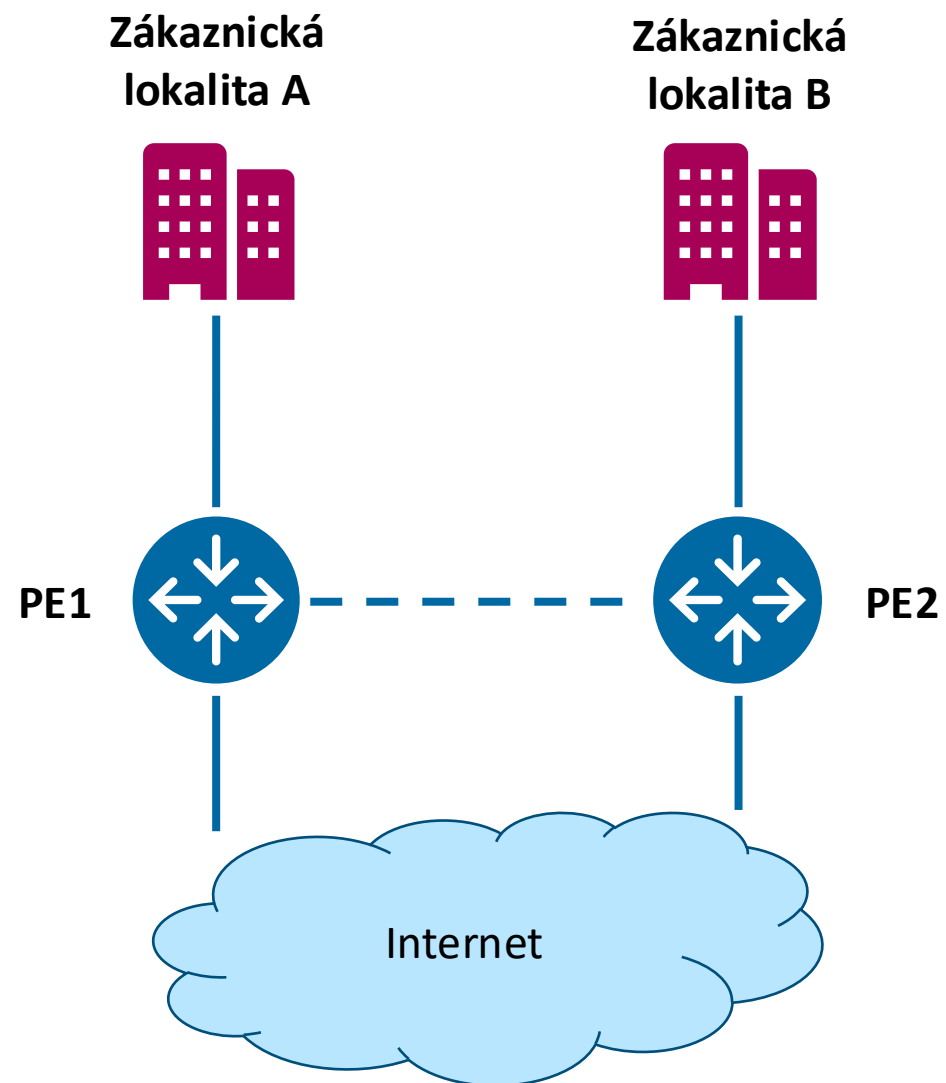
Odpovědné osoby	—
Oddělení	701 - Oddělení síťové infrastruktury

Network Importer

Updated by Network Importer	✓
-----------------------------	---

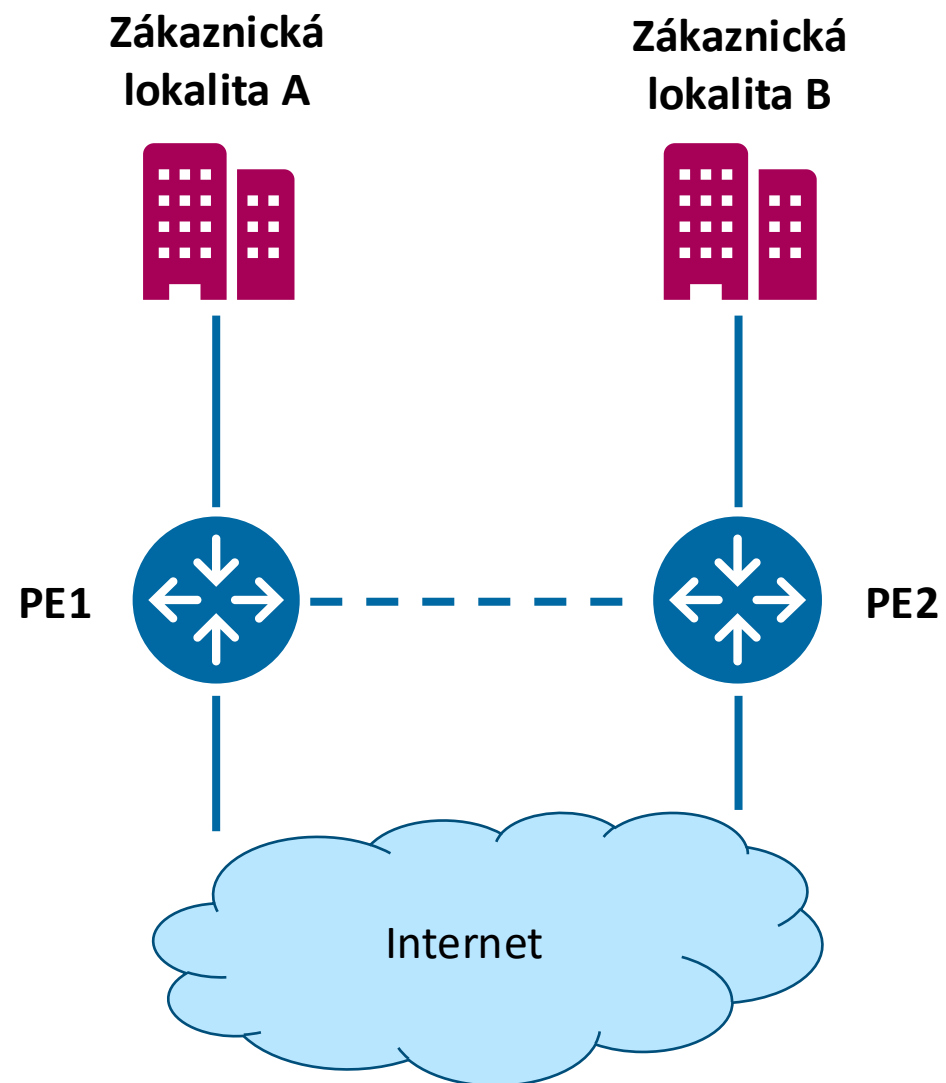
Síťová služba v NetBoxu

- Device
- Optical Segment

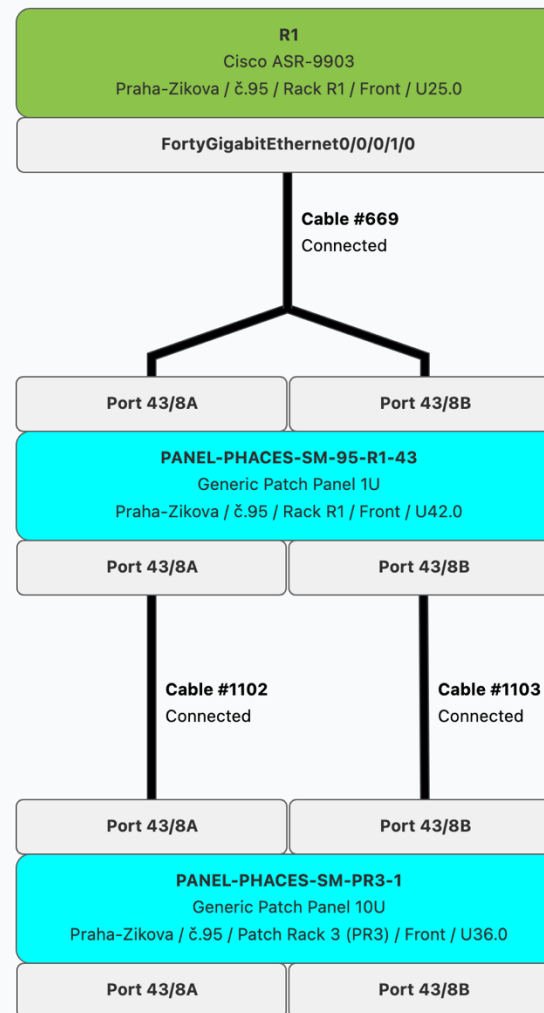


Síťová služba v NetBoxu

- Device
- Optical Segment
- Physical path

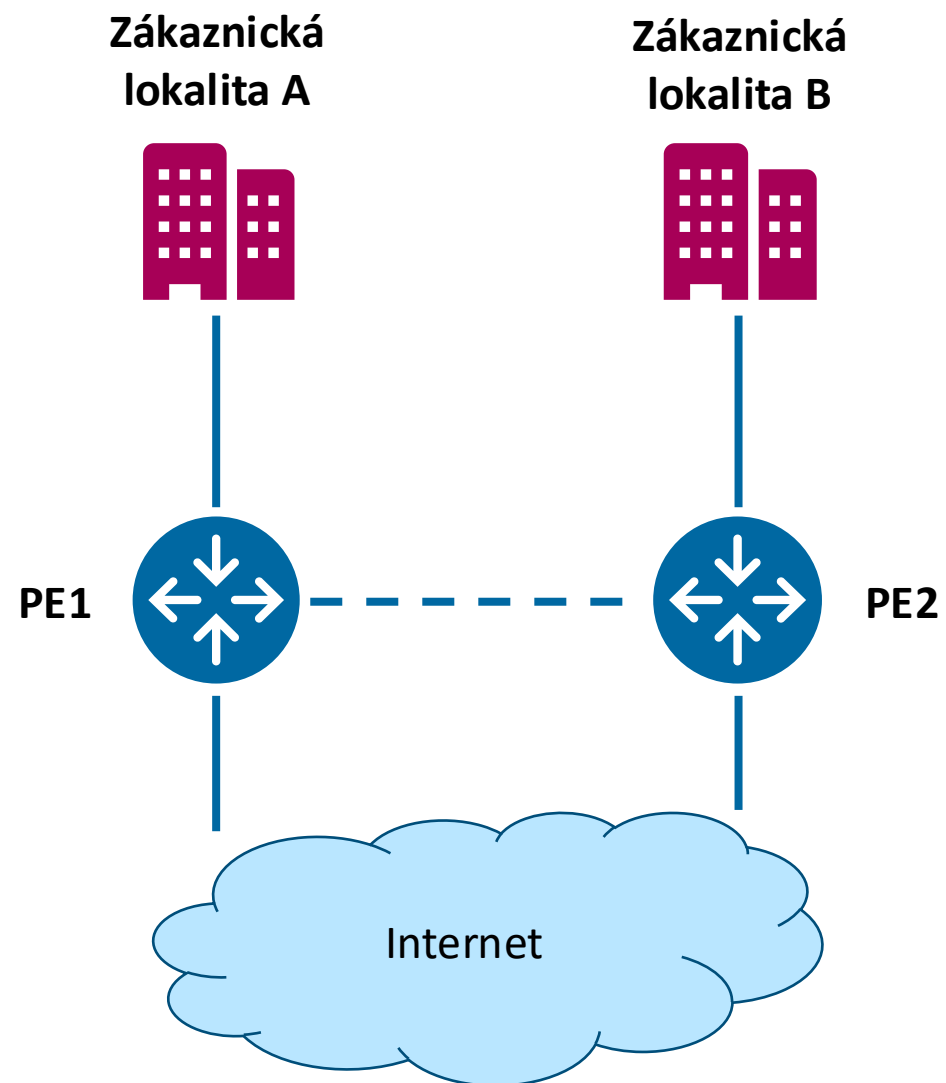


Cable Trace for Interface FortyGigabitEthernet0/0/0/1/0



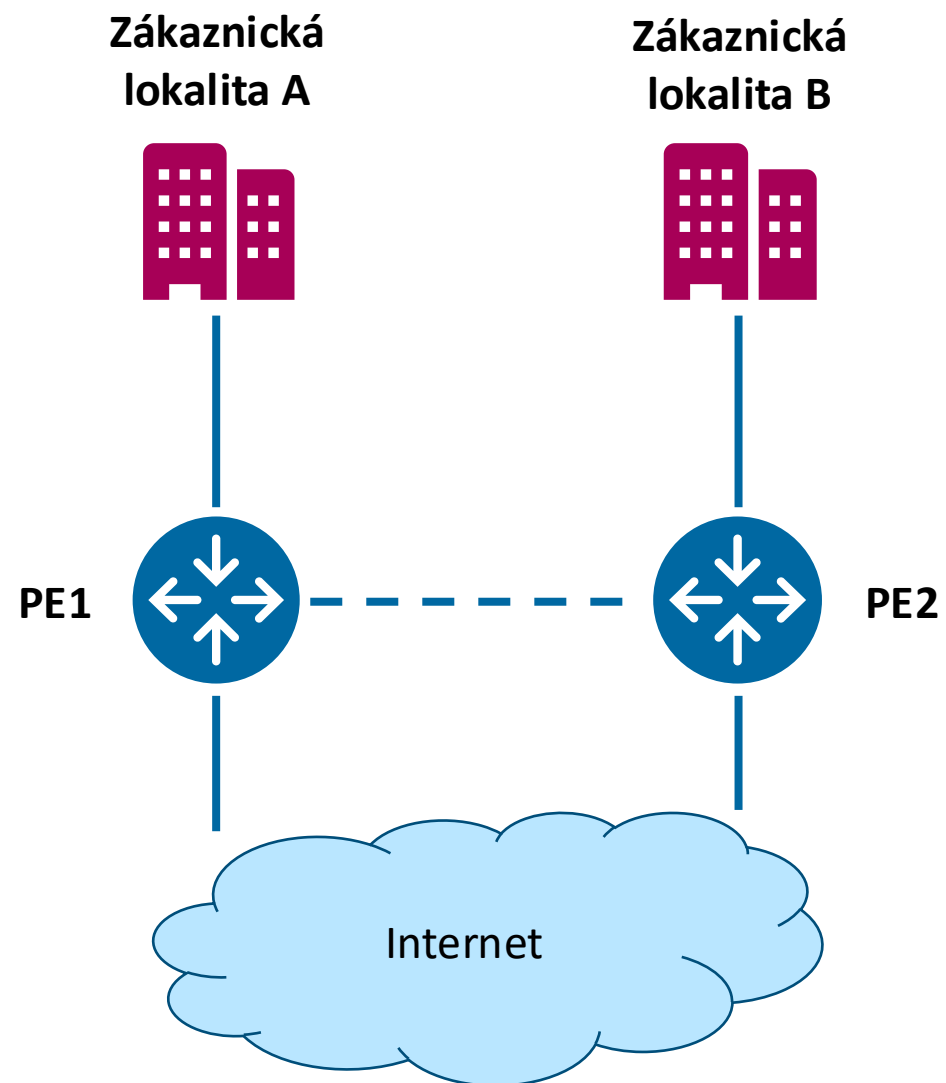
Síťová služba v NetBoxu

- 🔌 Device
- 🌐 Optical Segment
- 📡 Physical path
- 🖥️ Interface



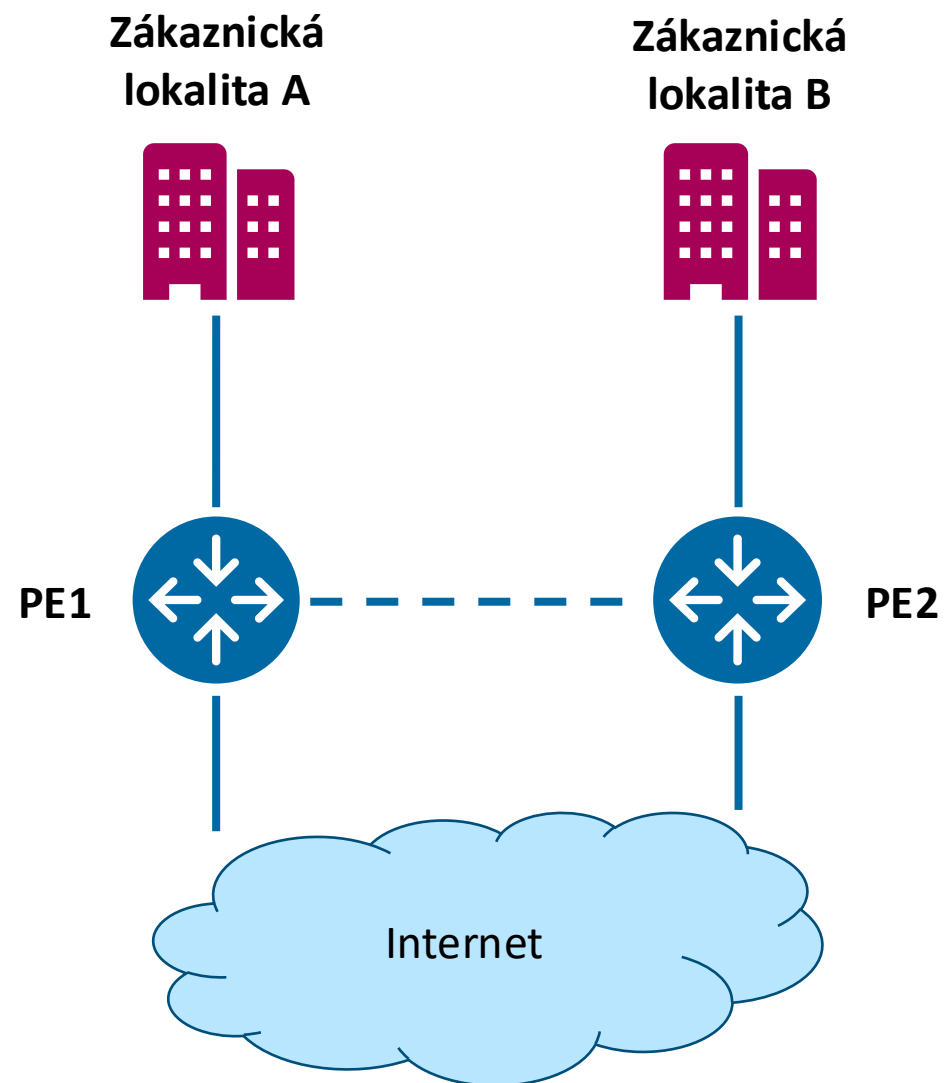
Síťová služba v NetBoxu

- 🔌 Device
- 🌐 Optical Segment
- 📡 Physical path
- 🖥 Interface
- 📍 IP Prefixes



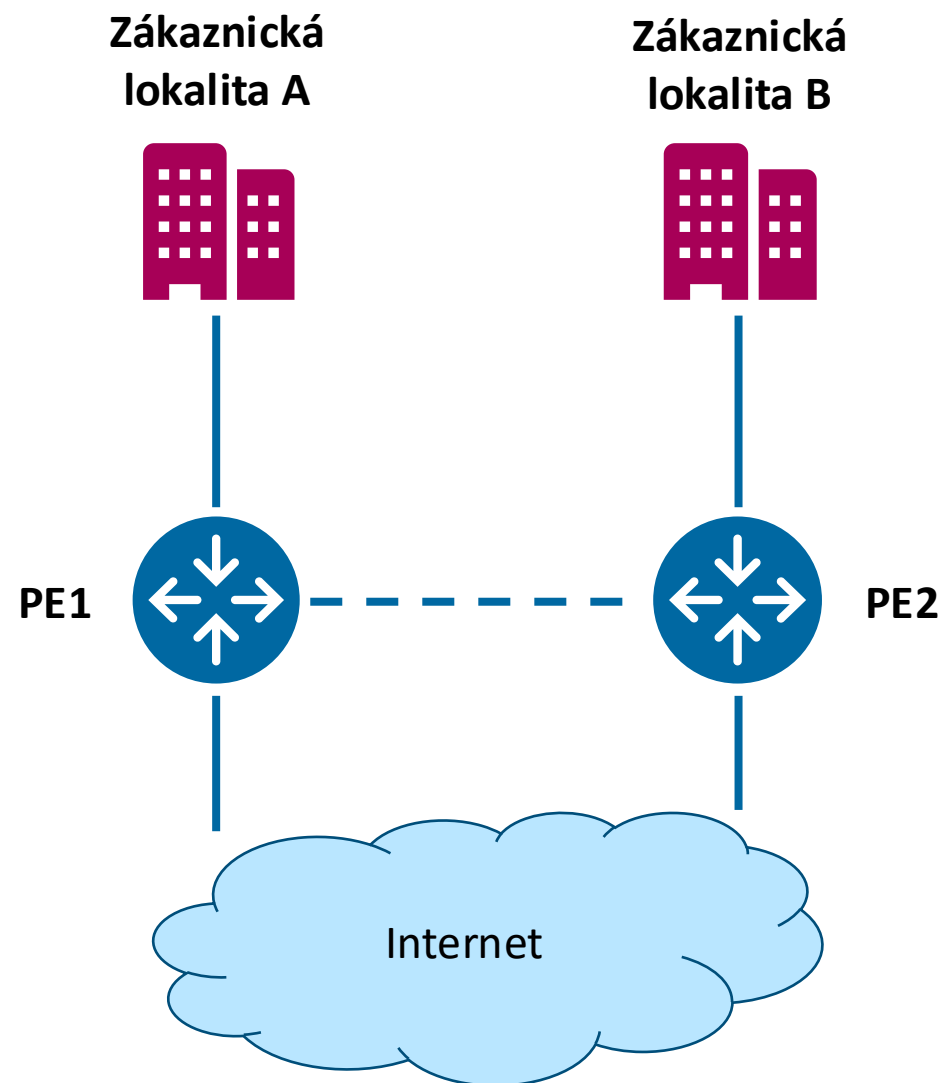
Síťová služba v NetBoxu

-  Device
-  Optical Segment
-  Physical path
-  Interface
-  IP Prefixes
-  VRF



Sít'ová služba v NetBoxu

-  Device
-  Optical Segment
-  Physical path
-  Interface
-  IP Prefixes
-  VRF
-  BGP



FortyGigabitEthernet0/0/0/1/0

2022-07-18 13:22 2026-09-26 06:05

Attachments

+ Add Child Interface

Bookmark

Subscribe

Clone

Edit

Delete

Grafana - Interface

Grafana - Optics

- Interface
- BGP Sessions
- Attachments
- BGP Connections2
- LLDP Neighbors
- Custom Objects1
- Diagrams
- Journal
- Changelog
- Service-NETFYZ1

Quick search

Configure Table

Showing 1-2 of 2

Per Page

☐	ID	DEVICE	☒ NEXT HOP INTERFACE	NEXT HOP	BGP PREFIX	BGP PREFIX TENANT	VRP	ROLE	
☐	724	R1	FortyGigabitEthernet0/0/0/1/0	2001:718:0000:0000::0000	2001:718:0000:0000::0000	C0300000	—	None	
☐	645	R1	FortyGigabitEthernet0/0/0/1/0	2001:718:0000:0000::0000	2001:718:0000:0000::0000	C0300000	—	None	

Showing 1-2 of 2

Per Page

C030000 -

2022-02-03 01:00 2026-04-09 09:46

- Attachments
- Bookmark
- Subscribe
- Clone
- Edit
- Delete

- Tenant
- BGP Sessions
- Attachments
- BGP Connections15
- Custom Objects4
- CF Backrefs18
- Contacts
- Diagrams
- Journal
- Changelog
- Service-NETFYZ4

Quick search

Configure Table

Showing 1-15 of 15

Per Page

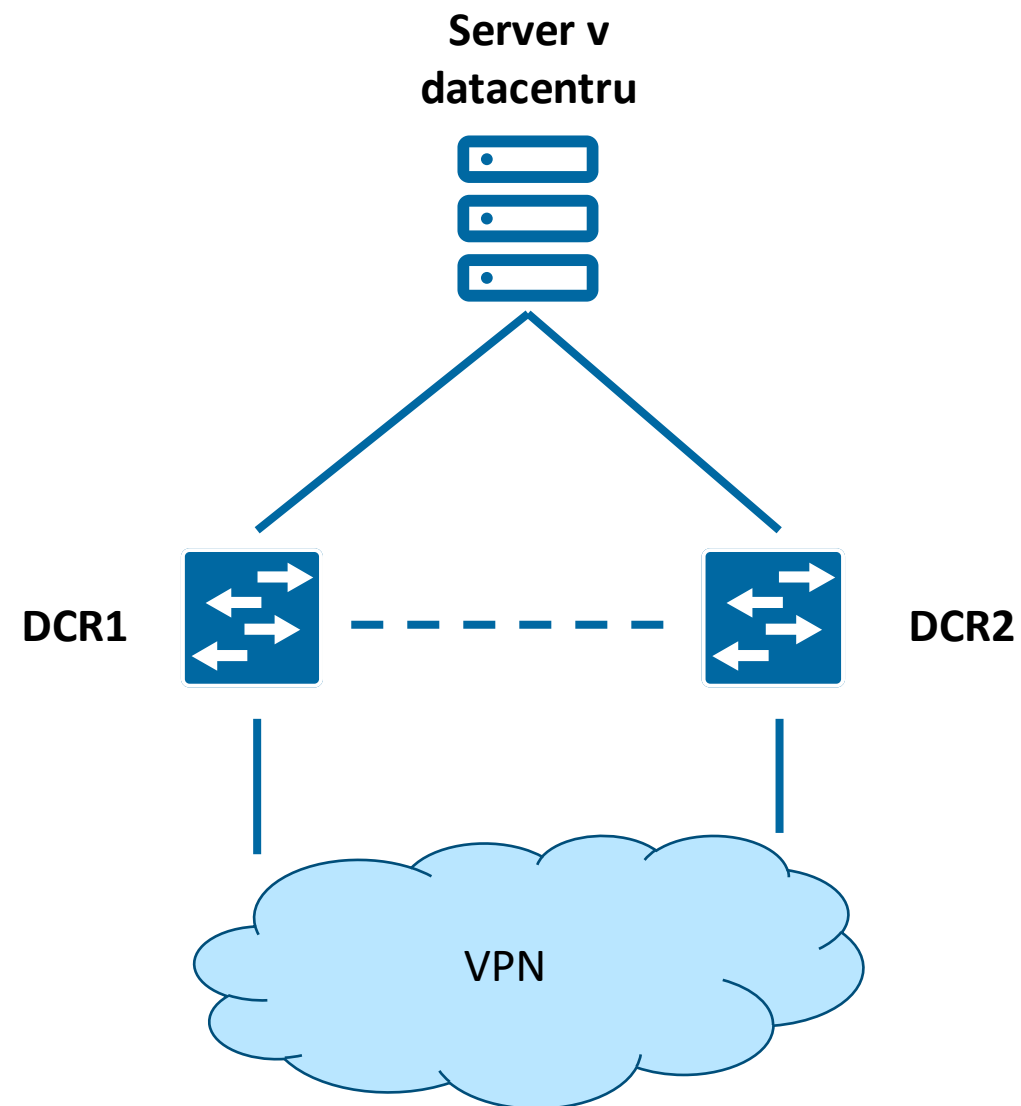
☐	ID	DEVICE	✖ NEXT HOP INTERFACE	NEXT HOP	BGP PREFIX	BGP PREFIX TENANT	VRF	ROLE
☐	9298	R1	HundredGigabitEthernet0/0/0/5.60			C030000		None
☐	9659	R1	HundredGigabitEthernet0/0/0/5.60			C030000		None
☐	9227	R1	HundredGigabitEthernet0/0/0/5.60			C030000		None
☐	724	R1	FortyGigabitEthernet0/0/0/1/0			C030000		None
☐	9661	R1	HundredGigabitEthernet0/0/0/5.60			C030000		None
☐	645	R1	FortyGigabitEthernet0/0/0/1/0			C030000		None
☐	9593	R2a (T05842)	TenGigabitEthernet0/0/0/28.61			C030000		None
☐	111	R2a (T05842)	TenGigabitEthernet0/0/0/28.61			C030000		None
☐	285	R2a (T05842)	TenGigabitEthernet0/0/0/28.61			C030000		None
☐	6017	R2a (T05842)	TenGigabitEthernet0/0/0/28.61			C030000		None
☐	306	R2a (T05842)	TenGigabitEthernet0/0/0/28.61			C030000		None
☐	9666	R2a (T05842)	TenGigabitEthernet0/0/0/28.61			C030000		None
☐	14900	R9	TenGigabitEthernet0/0/0/27.201			C030000		None
☐	5660	R29	GigabitEthernet0/0/0/3			C030000		None
☐	13526	R29	TenGigabitEthernet0/0/0/30			C030000		None

Showing 1-15 of 15

Per Page

Evidence serveru v NetBoxu

Device



Devices / Praha-Zikova

orion.bb.ces.net (T4346)

701 - Oddělení síťové infrastruktury 2024-01-02 15:44 2026-01-27 08:27

Attachments

+ Add Components

Bookmark

Subscribe

Clone

Edit

Delete

Oxidized

- Device
- Interfaces6
- Console Ports2
- Power Ports2
- BGP Sessions
- Attachments
- Assets1
- BGP Connections
- LLDP Neighbors
- Authorized Keys7
- Credentials
- Map Locations
- Config Context
- Render Config
- Contacts
- Images
- Diagrams
- Journal
- Changelog

Device

Region	CZ / Hlavní město Praha / území Hlavního města Prahy / Praha
Site	Přípojný bod / Praha-Zikova
Location	č.94
Rack	Rack A7 (A7) (U17 / Front)
Virtual chassis	—
Parent device	—
GPS coordinates	—
Tenant	—
Description	—
Cooling method	—
Airflow	Front to rear
Serial number	—
Asset tag	T4346
Config template	—

Custom Fields

Central Log Management (CLM)

FQDN	—
Groups	—

Kontakty

Odpovědné osoby	Ladislav Loub
Oddělení	701 - Oddělení síťové infrastruktury

Network Importer

Management

Status	Active
Role	Server
Platform	Debian GNU/Linux 12 (64-bit)
Primary IPv4	10.7.1.4
Primary IPv6	—
Out-of-band IP	—
Cluster	—

Application Services

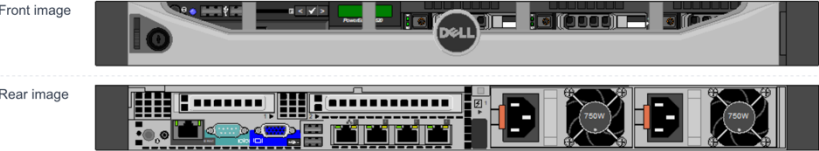
NAME	PORT MAPPINGS	DESCRIPTION
— No application services found —		

Image Attachments

IMAGE	OBJECT	DESCRIPTION	DIMENSIONS	SIZE
— No image attachments found —				

Device Type

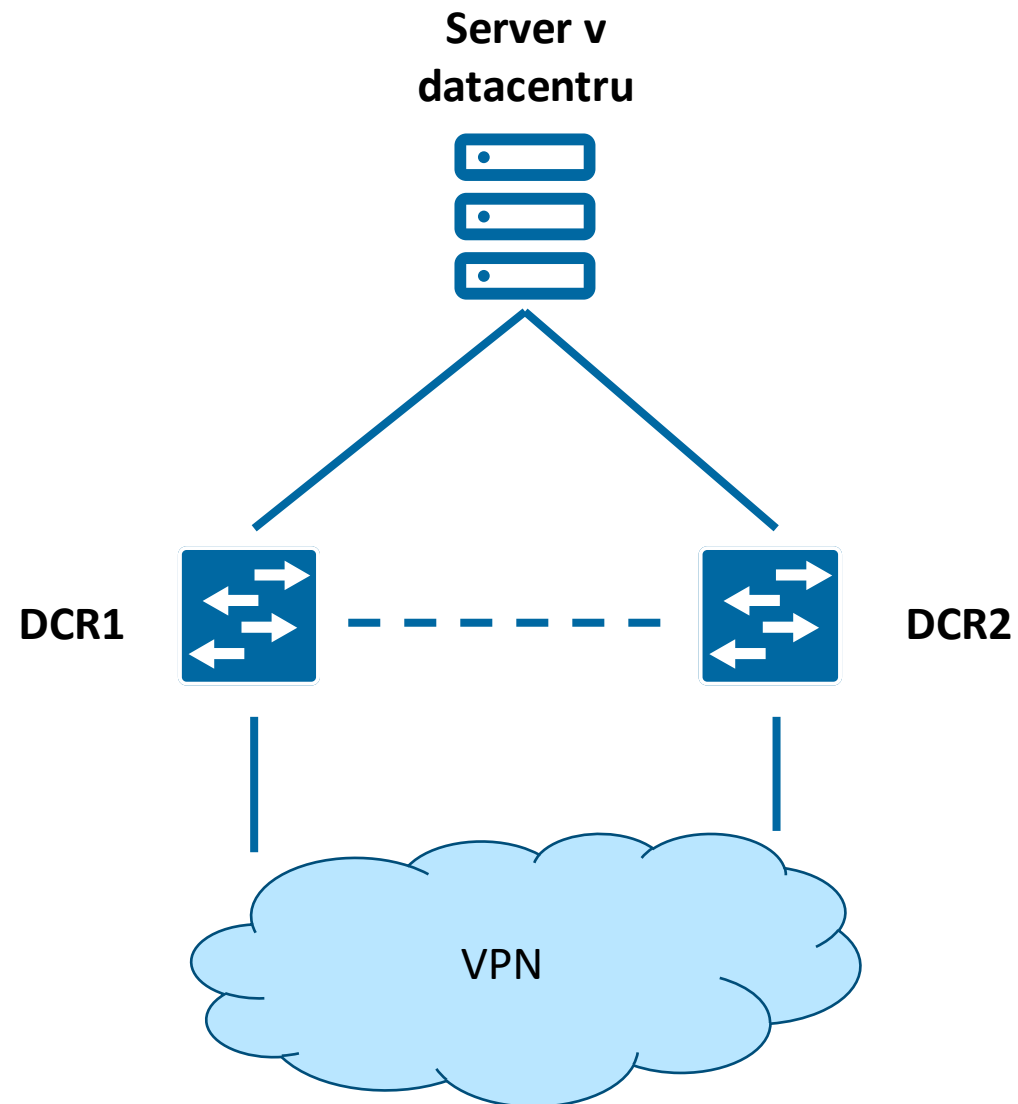
Manufacturer	Dell
Model	PowerEdge R620
Height	1U



Evidence serveru v NetBoxu

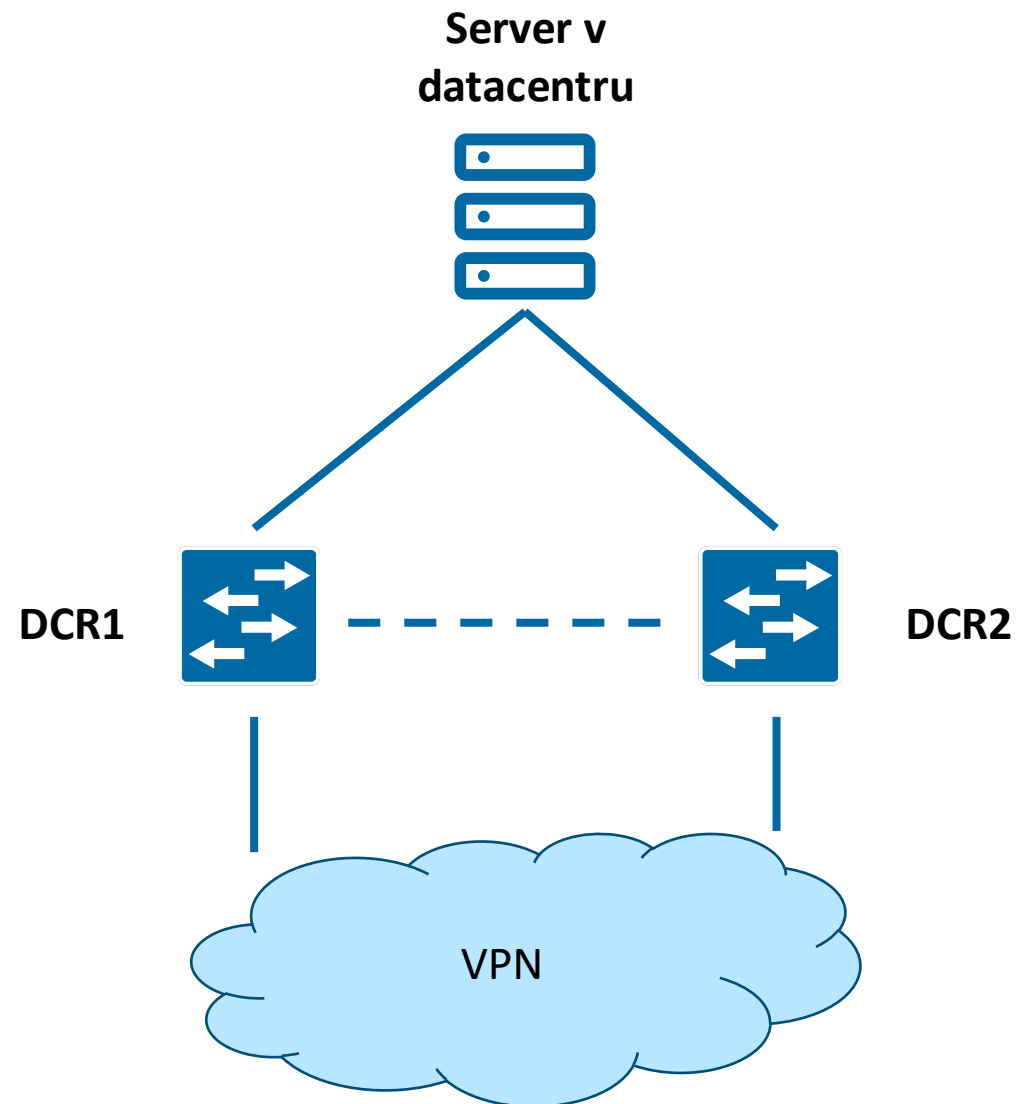
📁 Device

📡 Physical path



Evidence serveru v NetBoxu

- Device
- Physical path
- Interface



- Device
- Interfaces 6
- Console Ports 2
- Power Ports 2
- BGP Sessions
- Attachments
- Assets 1
- BGP Connections
- LLDP Neighbors
- Authorized Keys 8
- Credentials
- Config Context
- Render Config
- Contacts
- Images
- Diagrams
- Journal
- Changelog

Quick search

Configure Table

Showing 1-6 of 6

Per Page

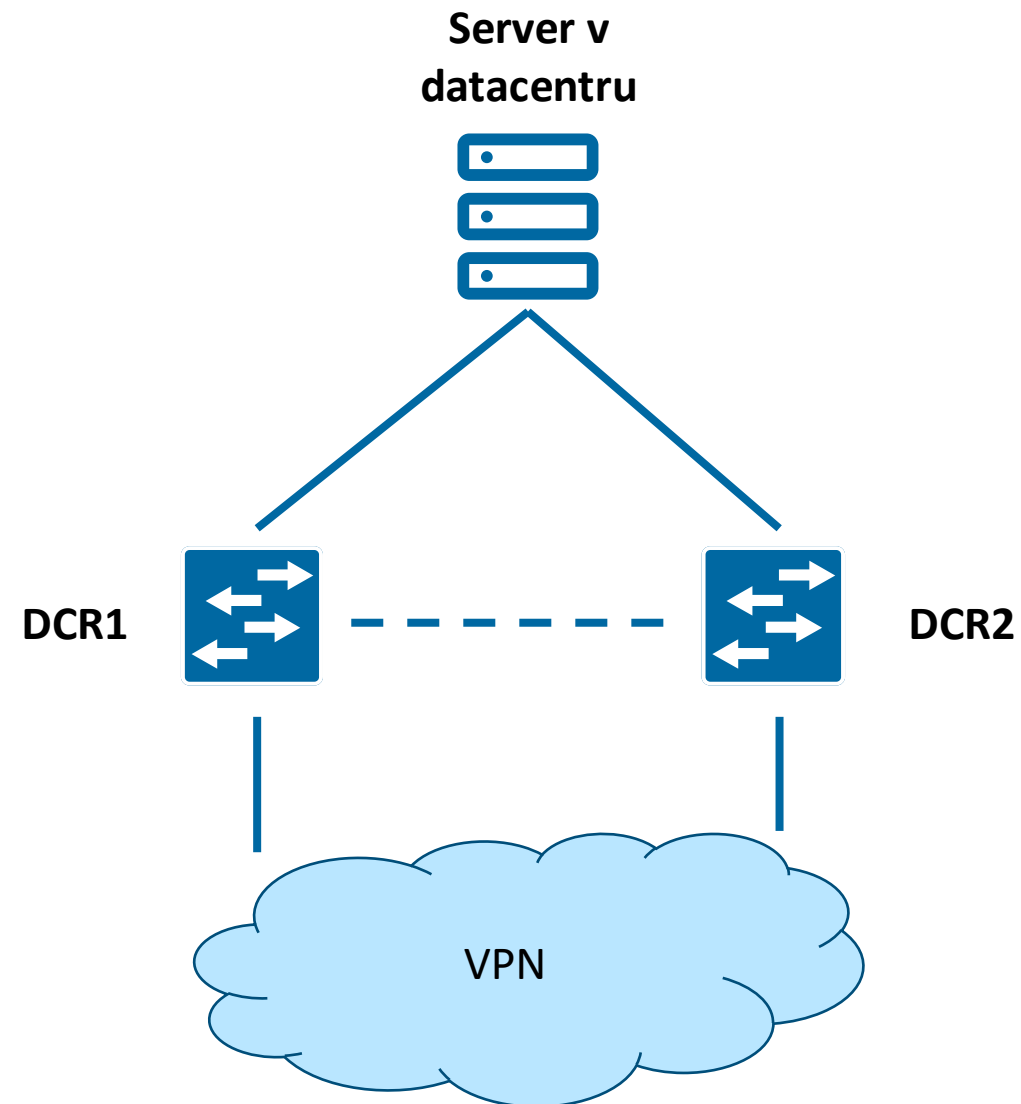
☐	NAME	DESCRIPTION	TAGS	MODULE	IP ADDRESSES	DEVICE	CONNECTION	BRIDGE	
☐	Gig-E 1	—	—	—		orion.bb.ces.net (T4346)	nexus1 > Ethernet107/1/37	bond0	+
☐	Gig-E 2	—	—	—		orion.bb.ces.net (T4346)	nexus2 > Ethernet107/1/37	bond0	+
☐	Gig-E 3	—	—	—		orion.bb.ces.net (T4346)	—	—	+
☐	Gig-E 4	—	—	—		orion.bb.ces.net (T4346)	—	—	+
☐	bond0	—	—	—	10.7.1.4/24	orion.bb.ces.net (T4346)	—	—	+
☐	IDRAC	—	—	—		orion.bb.ces.net (T4346)	—	—	+

Showing 1-6 of 6

Per Page

Evidence serveru v NetBoxu

- Device
- Physical path
- Interface
- IP Address



IP Address

Related IPs15

BGP Sessions

Attachments

BGP Connections

Ping Status

Contacts

Diagrams

Journal

Changelog

IP Address

Family

IPv4

VRF

Global

Tenant

—

Status

Active

Role

Loopback

DNS Name

orion.bb.ces.net

Description

—

Assignment

orion.bb.ces.net (T4346) / bond0

NAT (inside)

—

NAT (outside)

—

Primary IP

✓

OOB IP

✗

Parent prefixes

PREFIX	TENANT	DESCRIPTION	NETNAME	TAGS	STATUS
10.7.0.0/16	—	servery vlan 1070, Praha (vlan 1070 - 1099)	—	—	Active

Application services

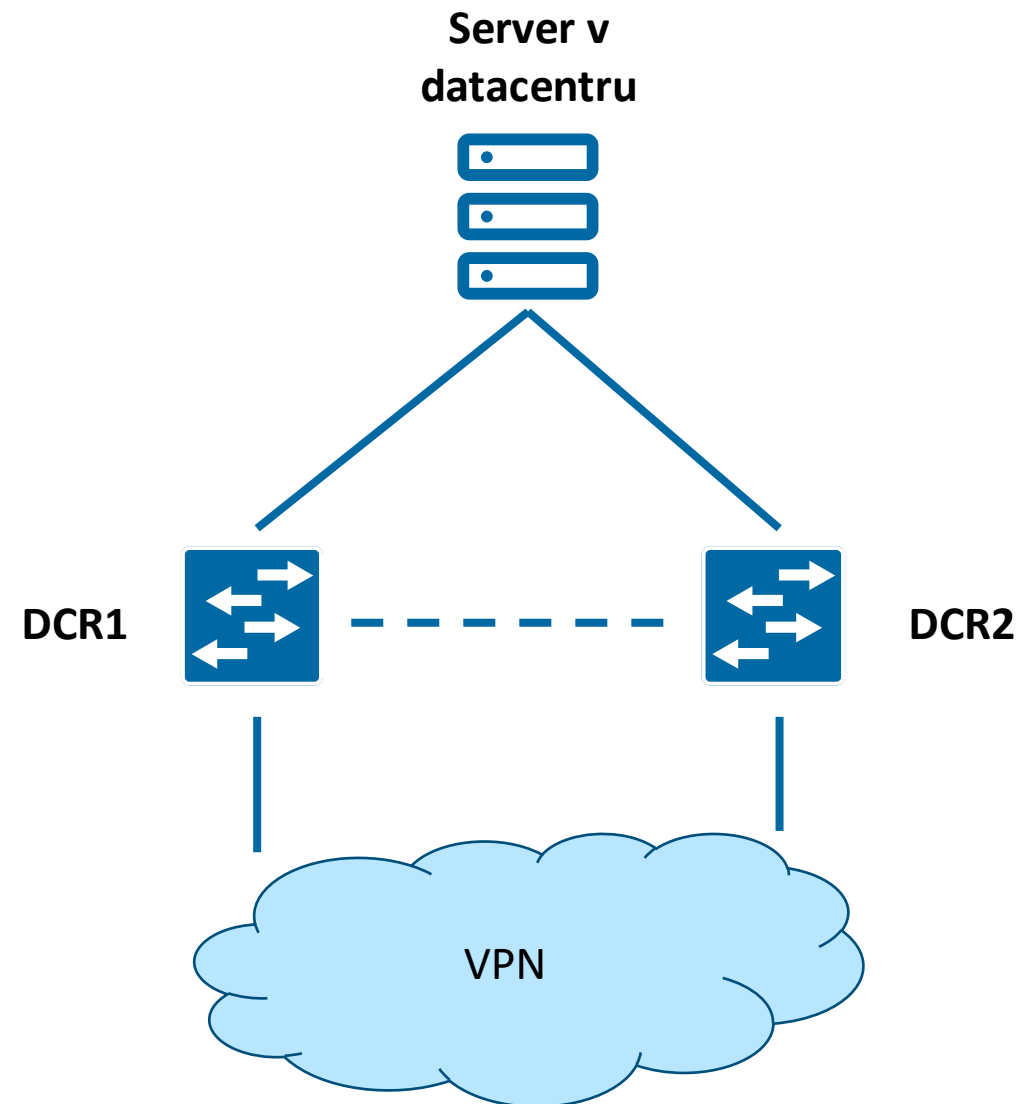
NAME	PARENT	PORT MAPPINGS	DESCRIPTION
— No application services found —			

Ping Status

No ping data available.

Evidence serveru v NetBoxu

-  Device
-  Physical path
-  Interface
-  IP Address
-  SSH keys



Quick search

Configure Table

Showing 1-7 of 7

Per Page

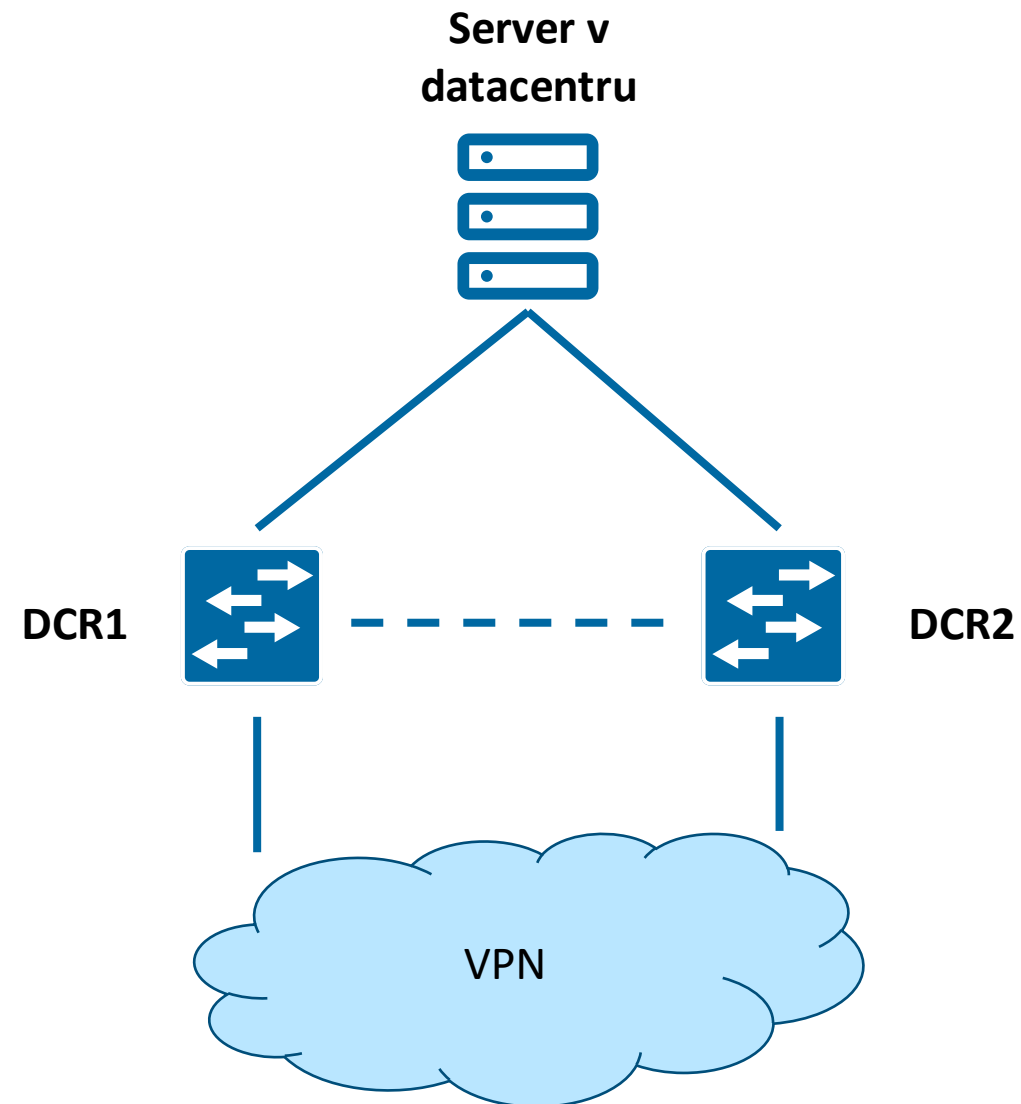
ID	USERNAME	PUBLIC KEY
2	jankrupa	ssh-rsa ...oJcbiPU=
3	adamec	ssh-rsa ...WP9IfQ==
4	prda	ssh-rsa ...gBrIjok=
9	loub	ssh-ed25519 ...iEKb3780
10	kuba	ssh-rsa ...Z3ph4iwt
20	prochazkapetr	ssh-ed25519 ...lMY5y0we
24	tux	ssh-ed25519 ...RwHrXxId

Showing 1-7 of 7

Per Page

Evidence serveru v NetBoxu

-  Device
-  Physical path
-  Interface
-  IP Address
-  SSH keys
-  Inventory



- Device
- Interfaces6
- Console Ports2
- Power Ports2
- BGP Sessions
- Attachments
- Assets1
- BGP Connections
- LLDP Neighbors
- Authorized Keys7
- Credentials
- Config Context
- Render Config
- Contacts
- Images
- Diagrams
- Journal
- Changelog

Device Serial: ()

Quick search

⚙️ Configure Table ▾

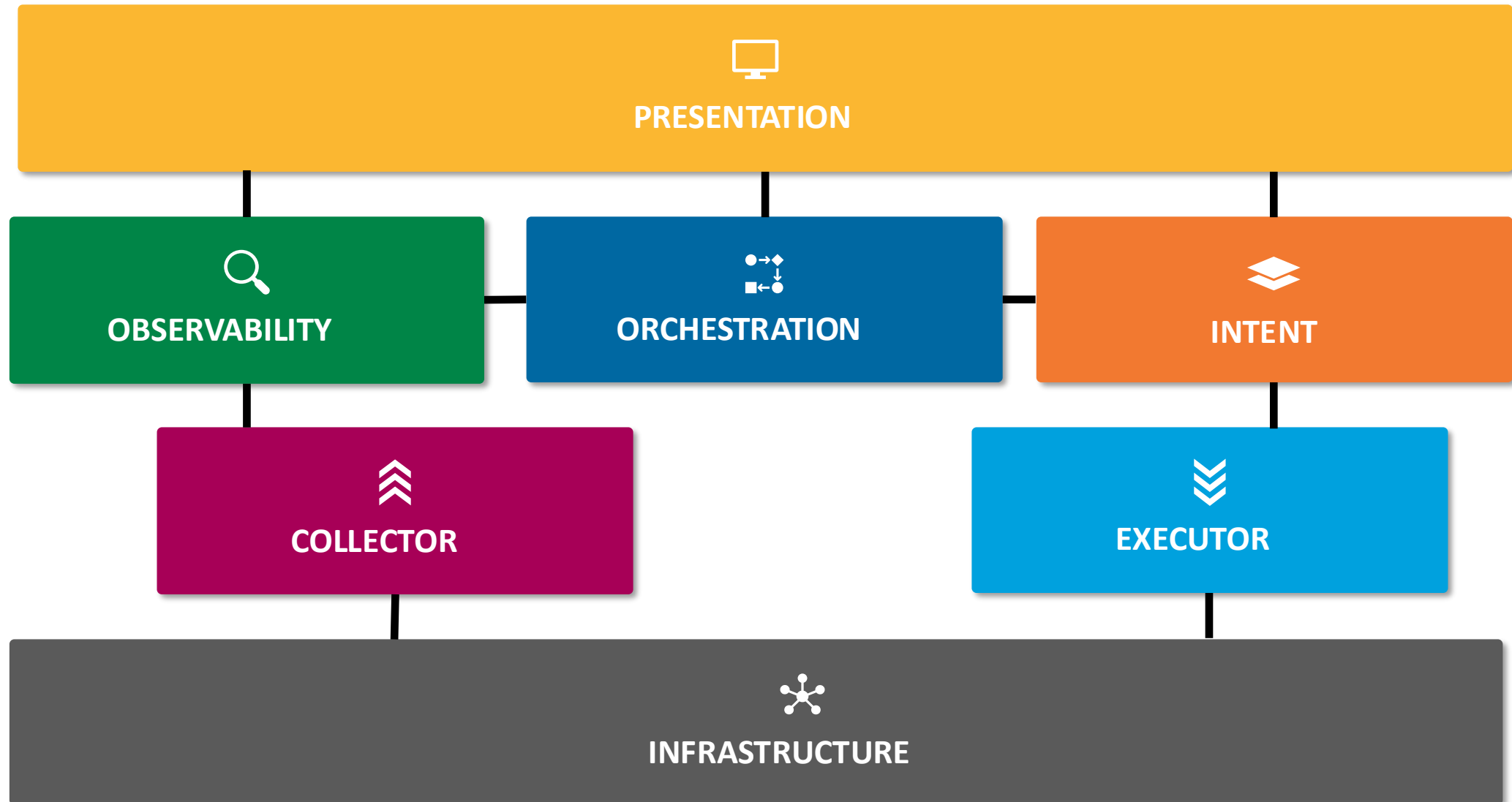
Showing 1-1 of 1

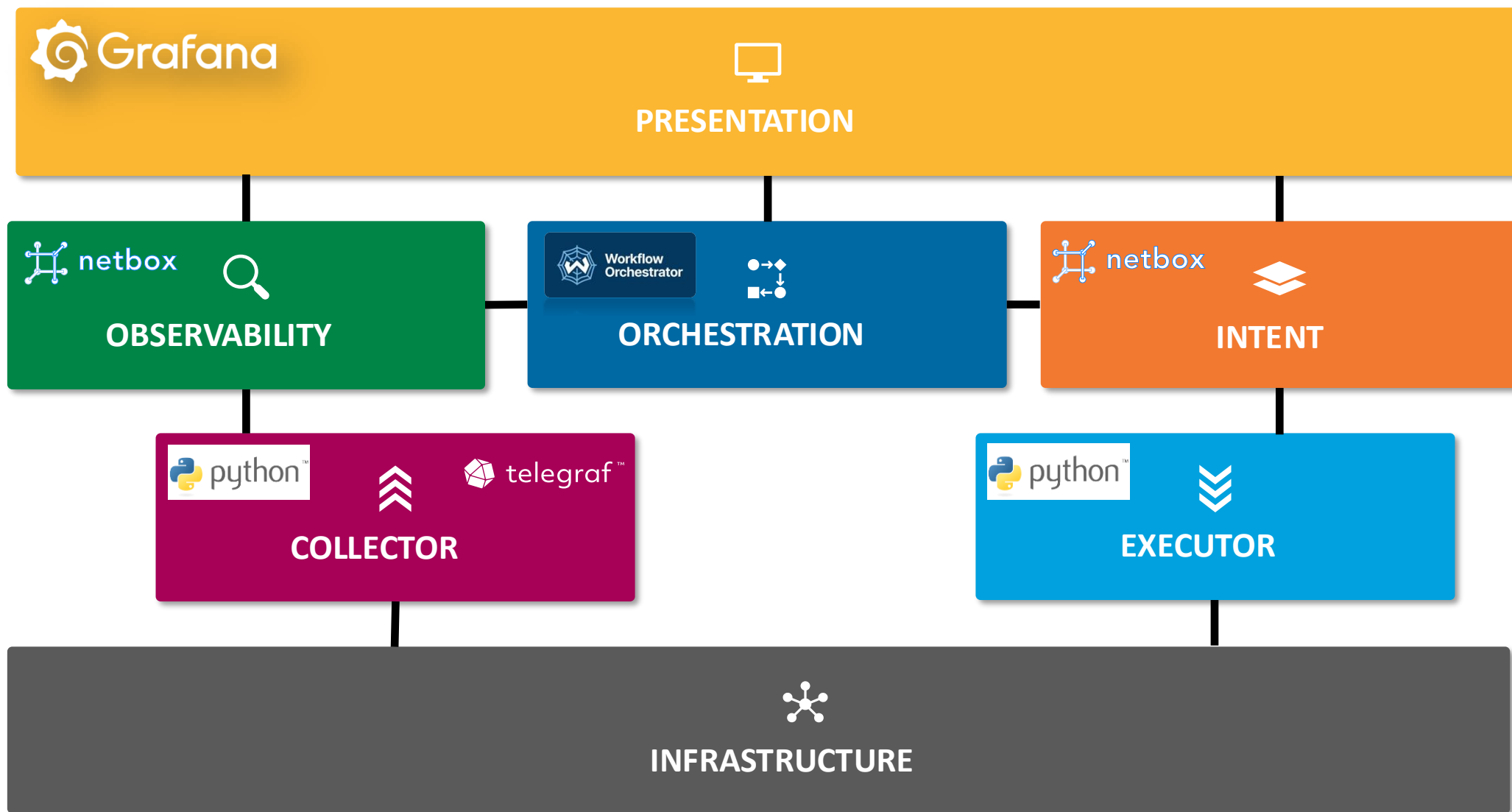
Per Page ▾

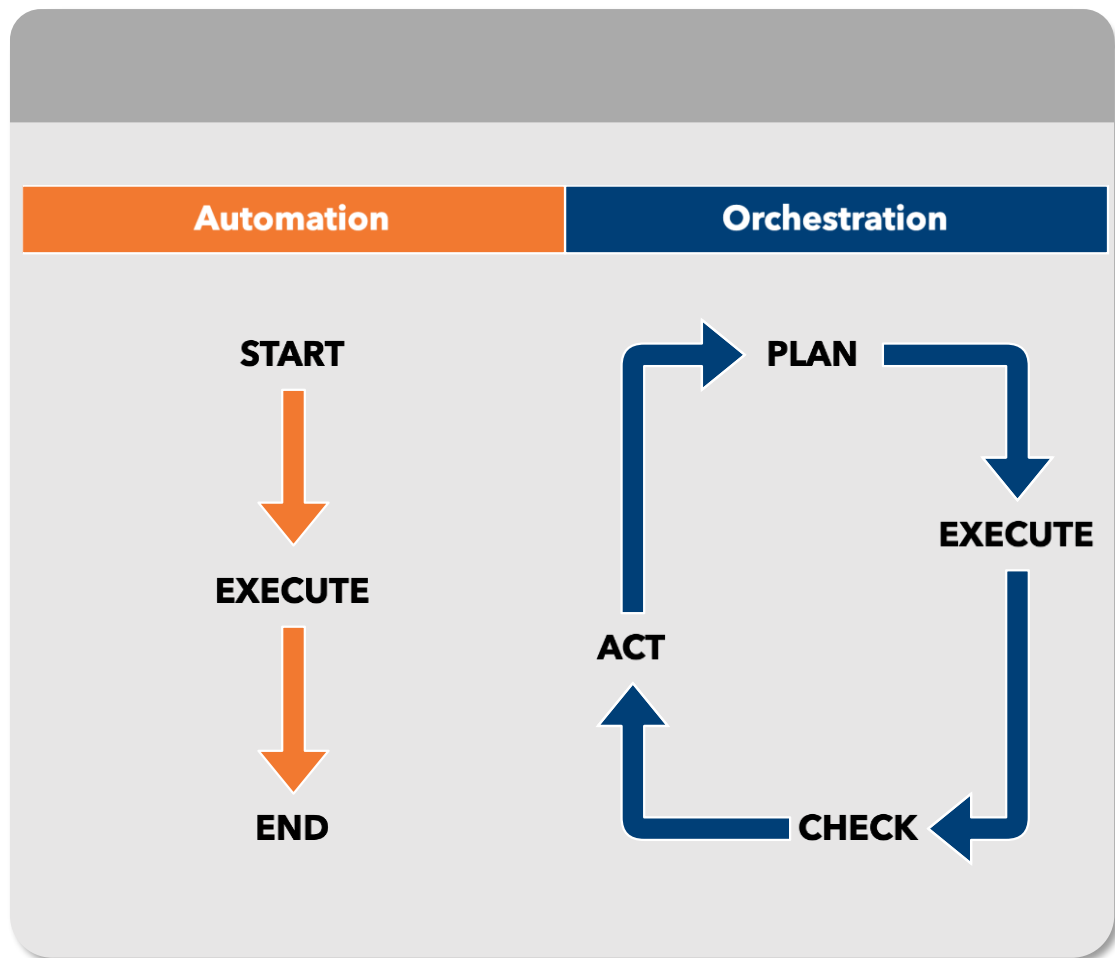
☐	ID	PARTNUMBER	SERIAL	DESCRIPTION	ASSIGNED OBJECT	ASSIGNMENT STATUS	LIFECYCLE STATUS	PROBE STATUS	LAST PROBE	EXTERNAL INVENTORY ITEMS
☐	10033	—		vmware5	orion.bb.ces.net (T4346)	Deployed	In Use	🕒 Stale	Never	T4346: PC SERVER DELL POWEREDGE R620

Showing 1-1 of 1

Per Page ▾







Subscriptions ⚡

Active Terminated Transient All

Search...

Edit columns

	ID	Description	Status	In Sync	Product tag	Customer abbr	Start date ↓	End date	Note
...	23271b48	core link [DIRECT] R1 FourHundredGigabitEthernet0/0/0/0 ↔ FH0/0/0/0 f	active	✓	CORE_LINK	default-cust	8/12/2026		
...	efcbf7e7	port FH0/0/0/0 on R301	active	✓	PORT	default-cust	8/12/2026		
...	7395516c	port FourHundredGigabitEthernet0/0/0/0 on R1	active	✓	PORT	default-cust	8/12/2026		
...	013d96aa	port TenGigabitEthernet0/0/0/29 on R1	active	✓	PORT	default-cust	8/10/2026		
...	b3a7c235	core trunk R1 HundredGigabitEthernet0/0/0/13 ↔ HundredGigE1/0/49 S3	active	✓	CORE_TRUNK	default-cust	8/10/2026		
...	6b8a7f75	port HundredGigE1/0/49 on S301	active	✓	PORT	default-cust	8/10/2026		
...	0563d527	port HundredGigabitEthernet0/0/0/13 on R1	active	✓	PORT	default-cust	8/10/2026		
...	fe19ff34	node S301 (active)	active	✓	NODE	default-cust	8/6/2026		
...	e4efa70a	node R302 (active)	active	✓	NODE	default-cust	8/6/2026		
...	9592e486	node R301 (active)	active	✓	NODE	default-cust	8/6/2026		
...	a0536f60	node R1 (active)	active	✓	NODE	default-cust	8/6/2026		

Rows per page: 15 < 1 >

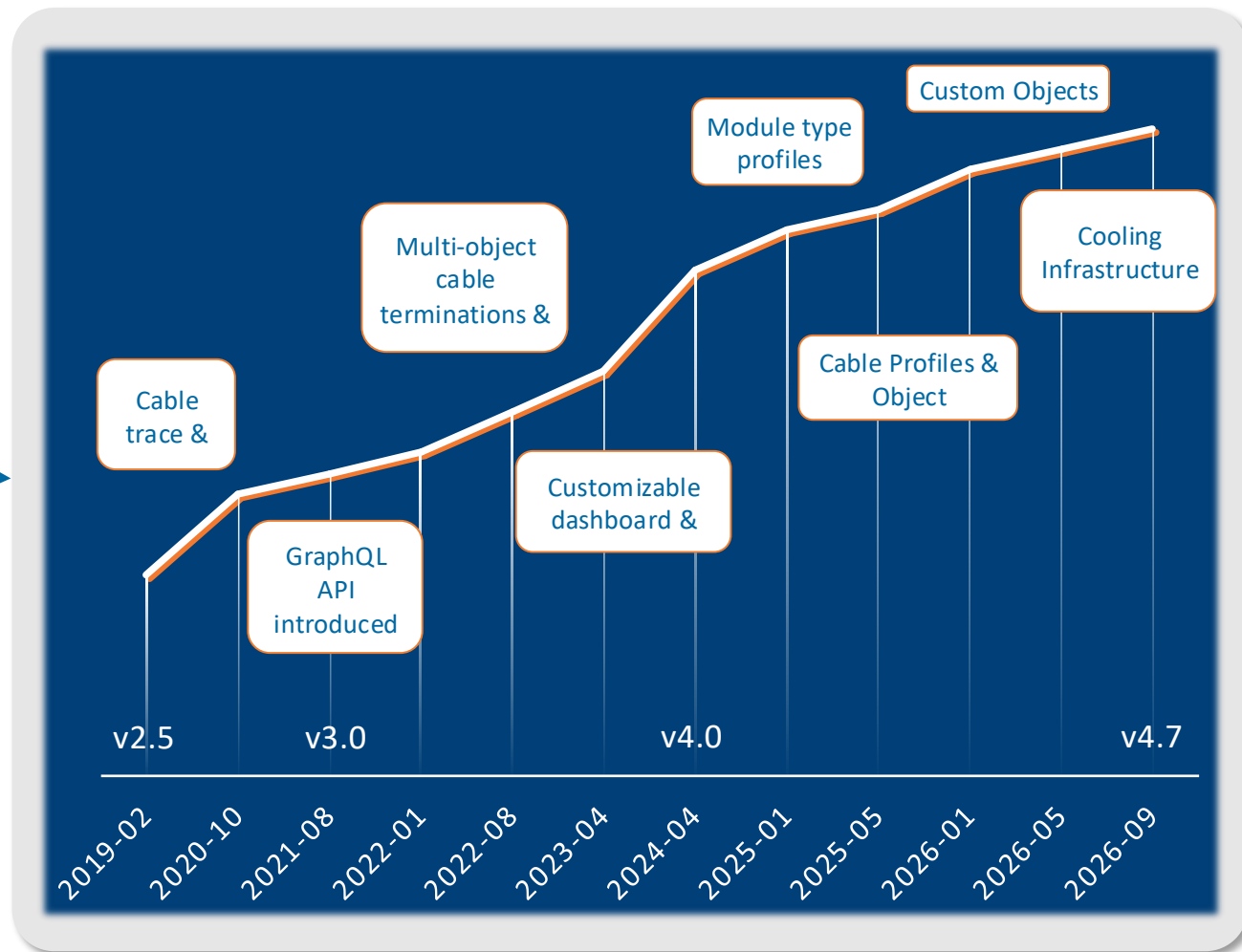
Poučení

- 1) První krok je nejnáročnější



Poučení

- 1) První krok je nejnáročnější
- 2) Buď připraven na změnu



Poučení

- 1) První krok je nejnáročnější
- 2) Buď připraven na změnu
- 3) Oprávnění nejsou sranda

Insufficient read permissions lead to unintended relationship deletion #21152 New issue

Closed as duplicate of #18987 Bug

loubladi opened on Jan 14

NetBox Edition
NetBox Community

NetBox Version
v4.5.0

Python Version
3.12

Steps to Reproduce

1. Create a user with:
 - Permission to edit devices
 - No permission to view tags
2. Assign one or more tags to a device.
3. Log in as the restricted user.
4. Open the device edit form.
5. Change any field (e.g., description or role) and save.

Expected Behavior

Tags that the user cannot see or manage should be preserved when saving the device. Alternatively, tag fields should be treated as read-only or ignored during save operations if the user lacks tag permissions.

Observed Behavior

Assignees
No one assigned

Labels
netbox status: duplicate type: bug

Type
Bug

Projects
No projects

Milestone
No milestone

Relationships
None yet

Development
No branches or pull requests

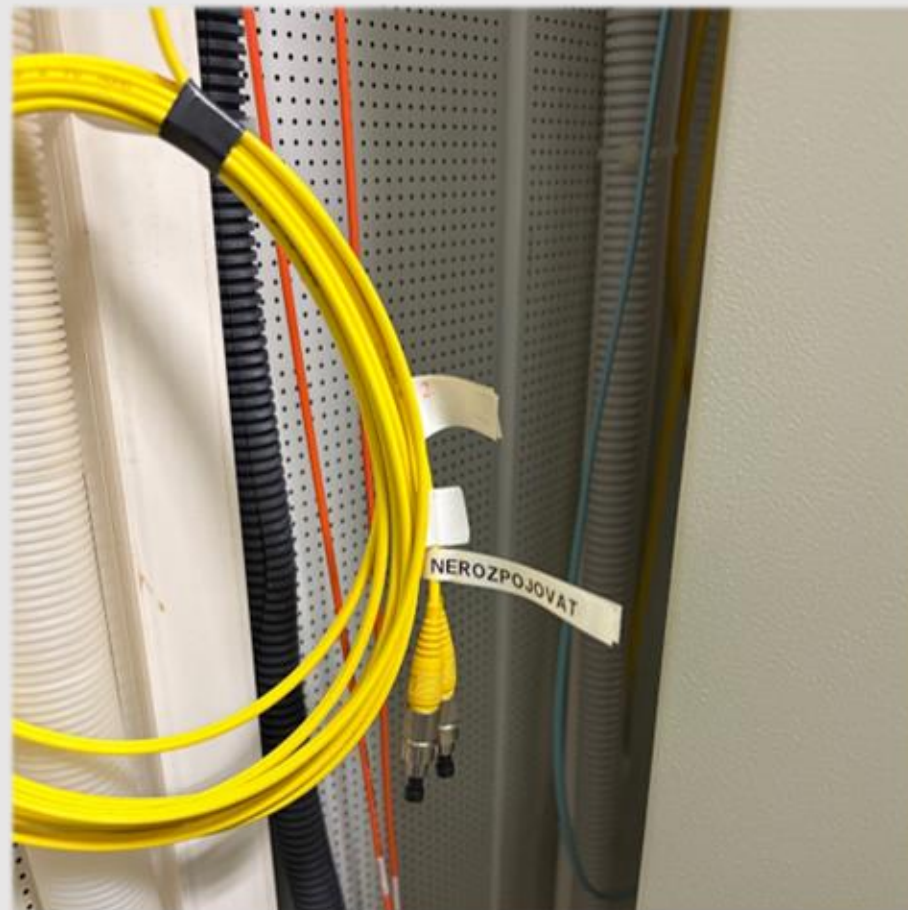
Notifications Customize
Unsubscribe

You're receiving notifications because you're subscribed to this thread.

Participants

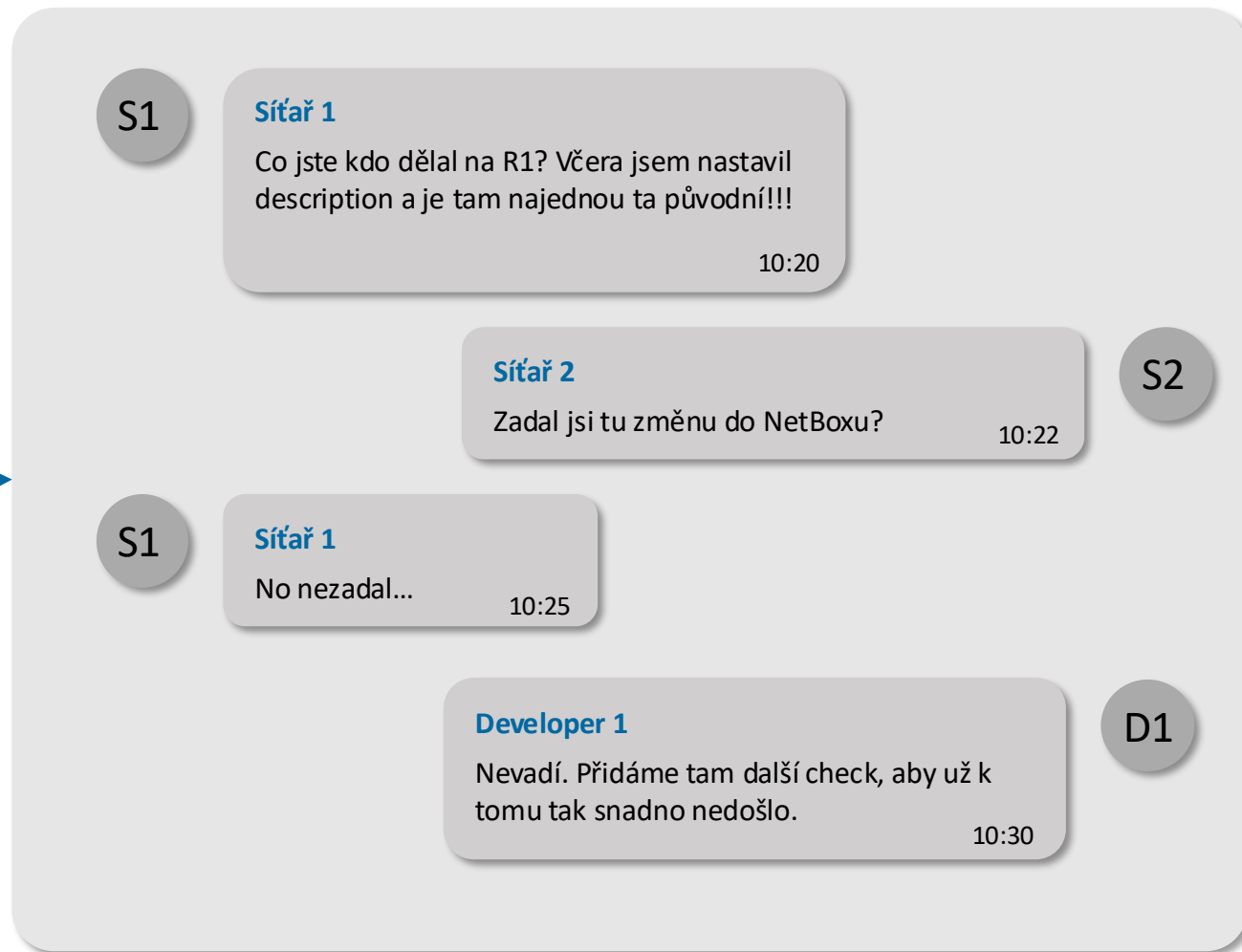
Poučení

- 1) První krok je nejnáročnější
- 2) Buď připraven na změnu
- 3) Oprávnění nejsou sranda
- 4) Některé věci prostě nejdou dokumentovat



Poučení

- 1) První krok je nejnáročnější
- 2) Buď připraven na změnu
- 3) Oprávnění nejsou sranda
- 4) Některé věci prostě nejdou dokumentovat
- 5) Automatizace může být nebezpečná

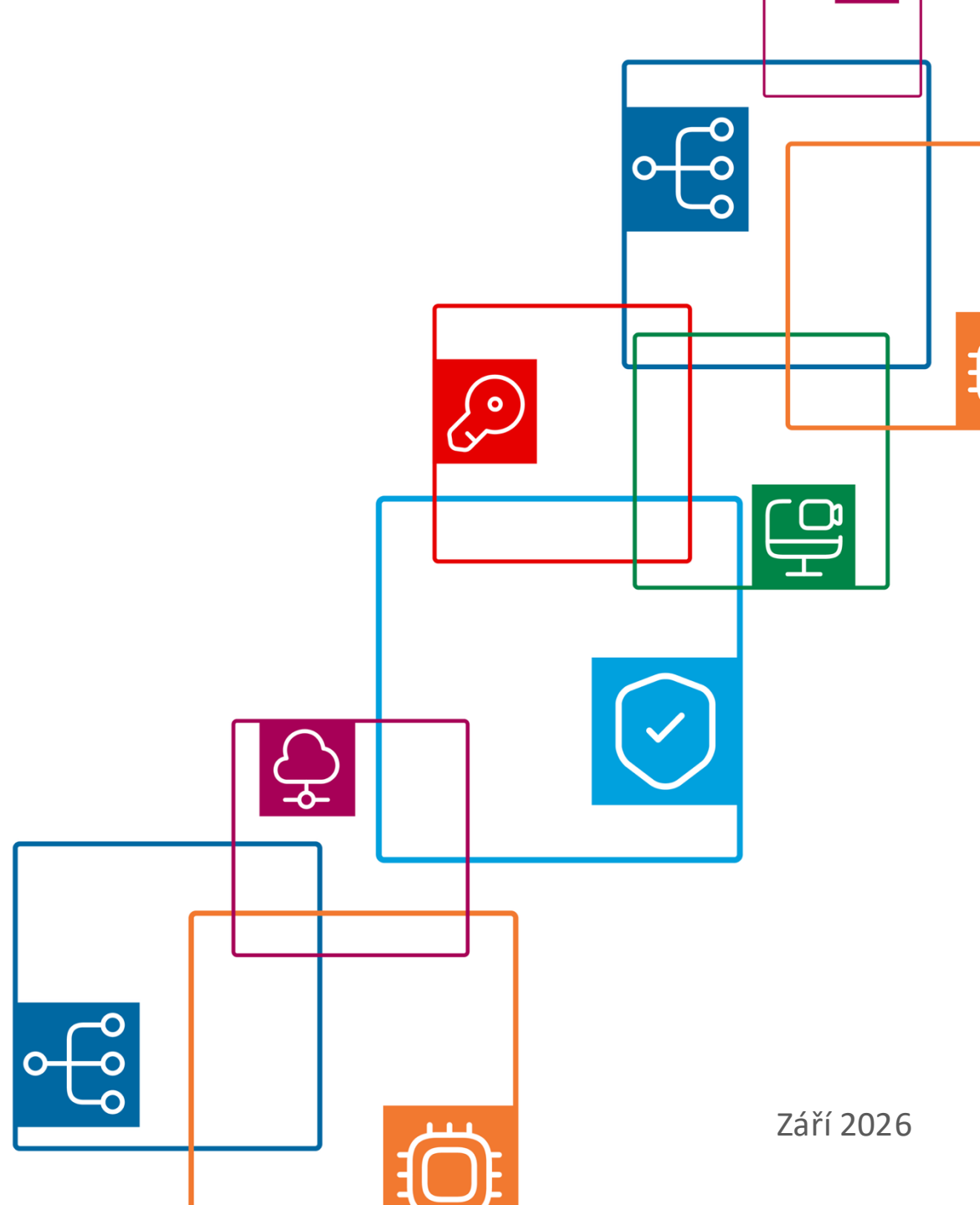




**Pokud to není v NetBoxu, tak to
neexistuje!**

Děkuji za pozornost

#PROPOJUJEME VĚDU



Září 2026