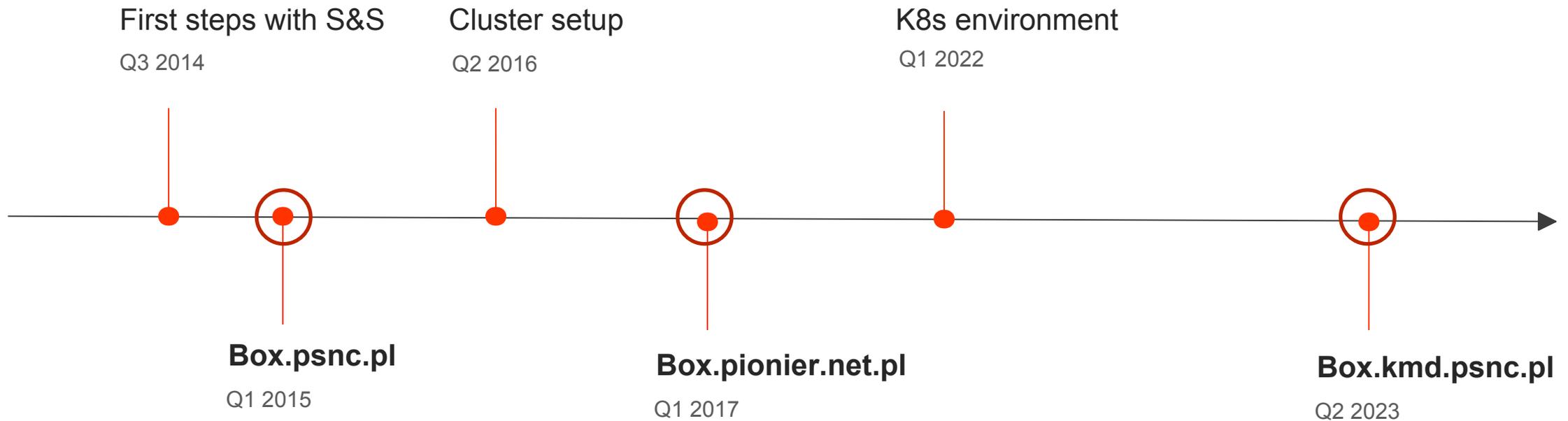


From 1VM+1LUN to k8s+Ceph - the uneasy way...

PSNC - Krzysztof Wadówka



Timeline



1st: BOX.psnc.pl

1 VM

- Vmware cluster
- 2 cores
- 8 GB RAM

1 LUN

- 1 x FC LUN
- 50TB capacity

SeafileCommunity

- Version 6.08
- ~600 Users
- 3787 libraries
- 8110493 files

Network

- Single ethernet link
- 10Gbit

2nd: BOX.pionier.net.pl

Bare metal Cluster

- 2 x frontend servers
- 1 x BTN
- HA setup

Storage: GPFS

- 2 x servers
- 1 array
- SAN
- 300 TB

SeafilePro

- Version 7.0.18
- 6000 accounts
- ~12K librarys
- ~26 mln files
- OnlyOffice integration

Network

- Active / active
- 2 x 10Gbit
-

3rd: BOX.kmd.psnc.pl

K8s stack

- Proxmox 6.4.15
- Kubernetes 1.26
- 6 VMs / 6 Servers

Ceph S3

- 36 servers
- 1152 CPU cores
- 4608 GB RAM
- 2.2 PB

SeafilePro

- SeaFile Pro 9.0.14
- Containered setup
- Fully automated
- MariaDB cluster
- OnlyOffice Integration

Network

- 6 x 10 (100) Gbit
- SDN
-

Conclusions

- **1VM / 1LUN setup:**

- 📖 - quick implementation

- 📖 - no scalability

- **BareMetal CLuster:**

- 📖 - high availability

- 📖 - a lot of administrative work

- **K8S stack:**

- 📖 - time-consuming implementation

- 📖 - high scalability

Thank you

- Krzysztof Wadówka
- Jan Bróździak
- Krzysztof Dudek
- Mateusz Piątkowski
- Eugeniusz Pokora
- Adam Prycki
- Filip Blicharczyk
- Jacek Kochan
- Maciej Brzeźniak