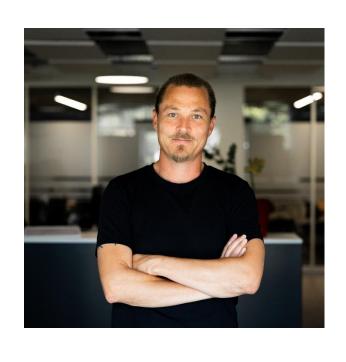




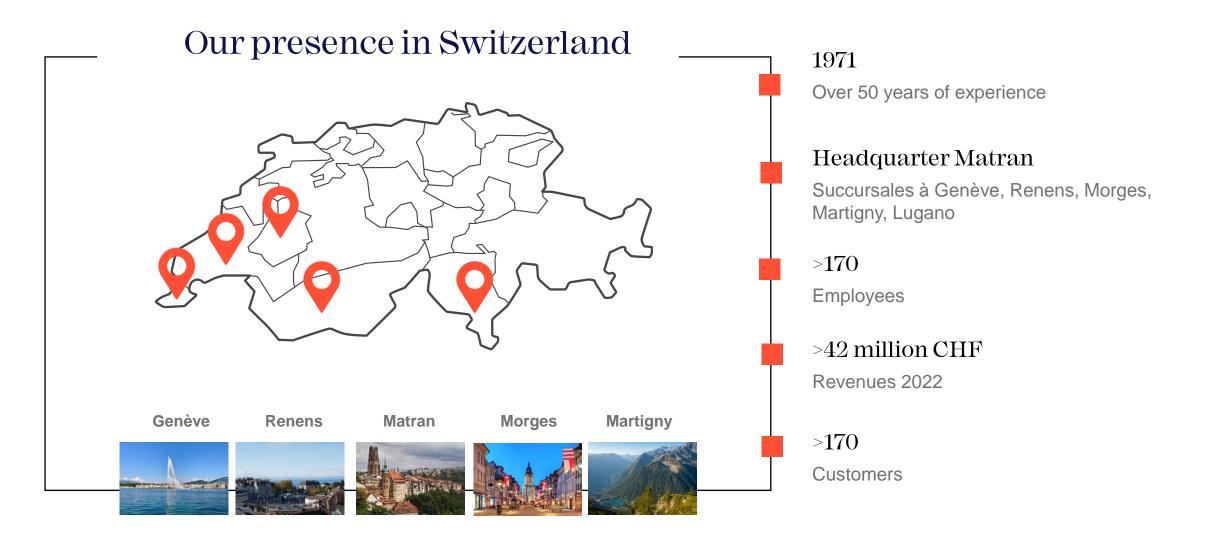
Solet's focus on Kubernetes friends Fribourg Linux Seminar

SPEAKER



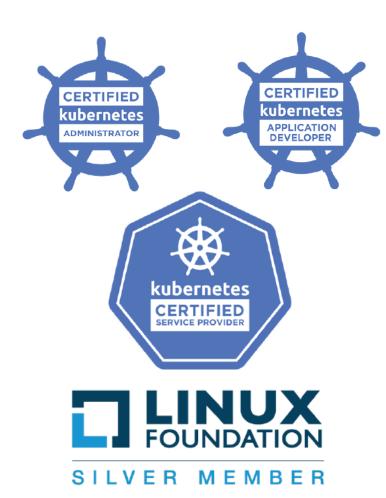
- Electrician EPAI FR 2003
- Diplôme Ingénieur Télécomm. HEIA-FR 2009
- Various companies in Suisse Romande
- IT & DevOps Solutions Architect
- Working at CISEL since 6.5 years

CISEL GROUP



Linkedin: https://www.linkedin.com/company/cisel-informatique-sa/mycompany/ Jobs: https://www.linkedin.com/company/cisel-informatique-sa/jobs/

CISEL DEVOPS



- Dedicated Team founded early 2019
- Projects and services around Cloud Native
- Kubernetes expertise
- *Ops methodologies

Blog technique



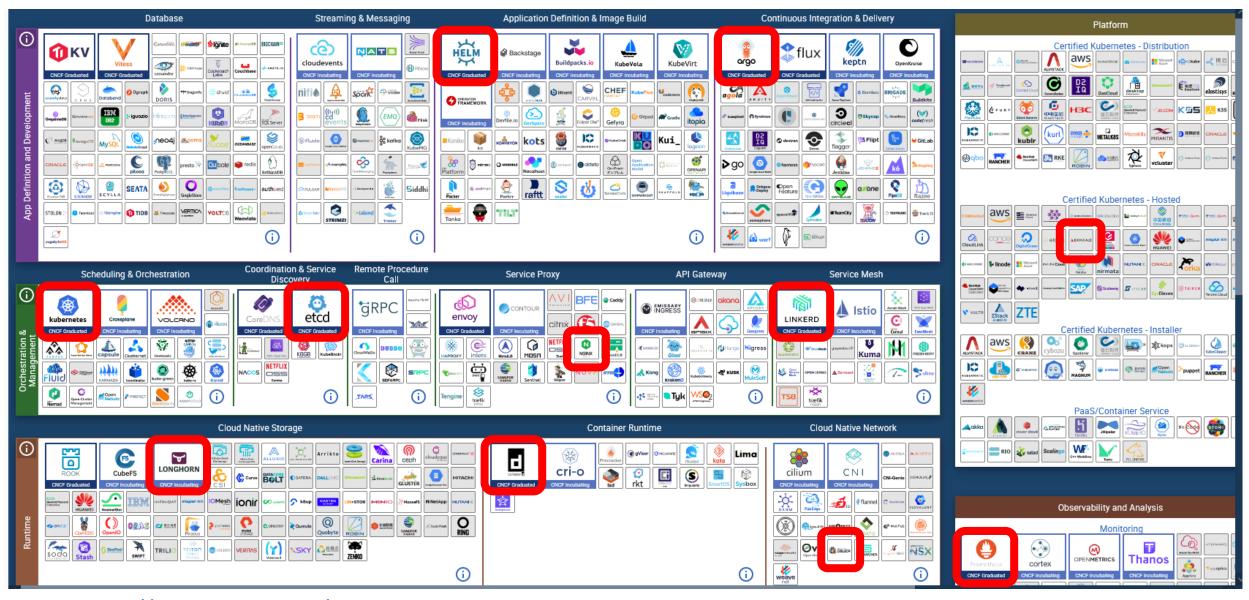


So let's focus on Kubernetes friends

- CNCF Landscape
- Exoscale & Terraform : Hosting
- ArgoCD : Deployment
- Kasten : Backup & DR
- Prometheus and Grafana: Observability
- Trivy & Kubescape & GitLeaks : Security

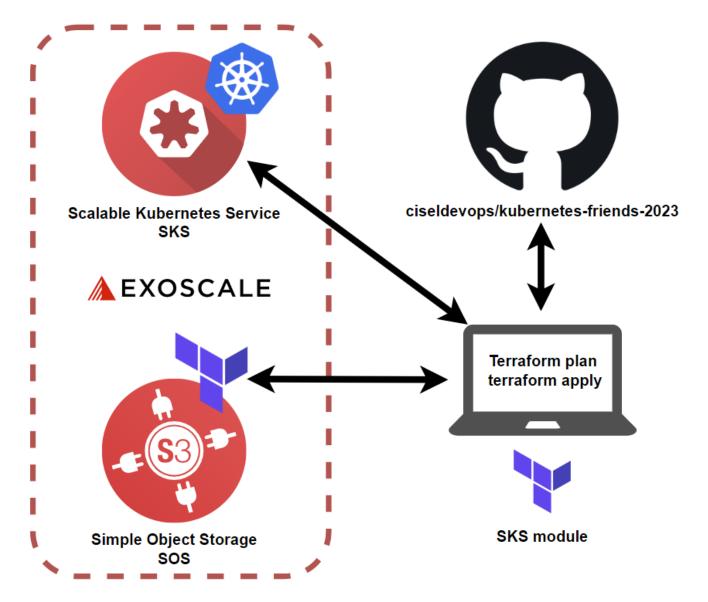
Repo public: https://github.com/ciseldevops/kubernetes-friends-2023

CNCF Landscape - that's quite a lot of Friends



https://landscape.cncf.io/ https://landscape.cncf.io/?selected=cisel-informatique-kcsp

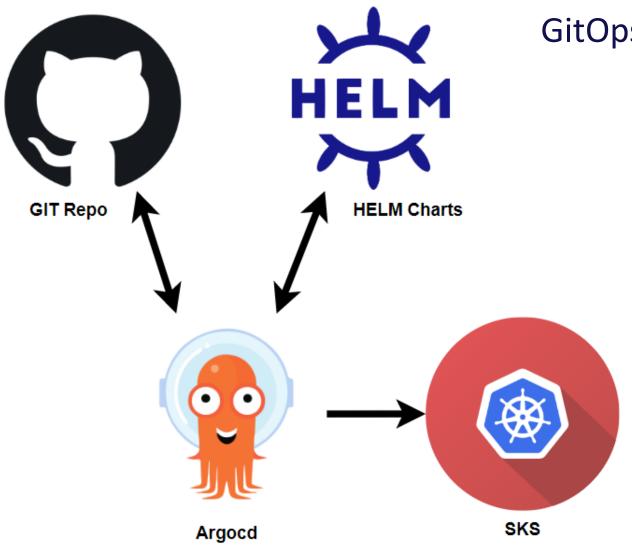
Exoscale + Terraform - The pair of IaC Friends



No more ClickOPS!!

- IaC with Git and Terraform
- Exoscale SKS (K8S) PaaS
- Exoscale SOS (S3)
- Exoscale Terraform module

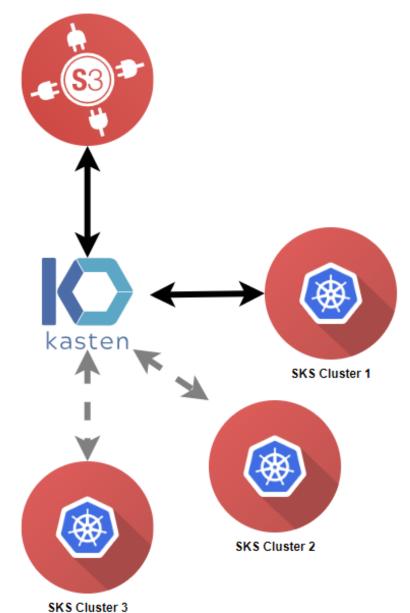
ArgoCD - The Deployment Friend



GitOps and the single source of truth

- Continuous Deployment
- GIT repo or HELM Charts
- Manual Synch or Auto Synch
- Containers Logs
- Deployment upgrades
- Helm values
- SSO, RBAC, Projects and Clusters

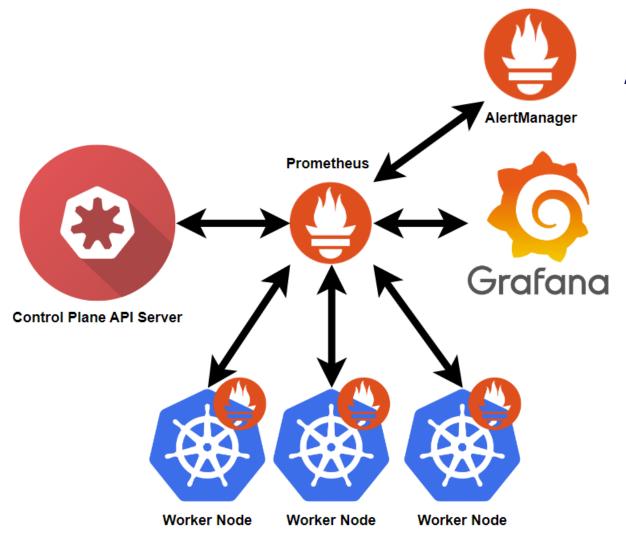
Kasten - The Backup & DR Friend



Deal with Statefull applications

- Dedicated instance by cluster
- Application auto-discover
- Application snapshot
- Data export to S3
- Disaster recovery mode
- Monitoring and Alerting

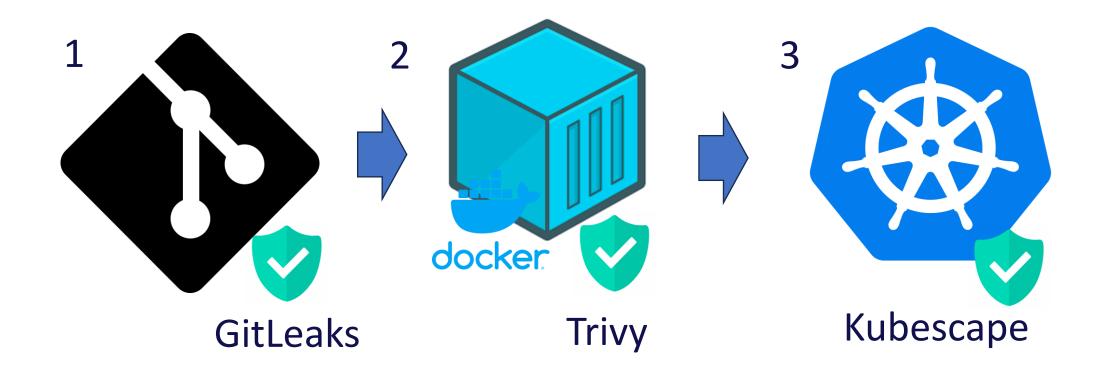
Prometheus & Grafana - The Obs Friends



Accessing metrics and resource usage

- **Cluster Nodes Monitoring**
- **Workload Monitoring**
- Alerting and Incident

Trivy & Kubescape & GitLeaks - Security Audit Friends



Security at each steps

Tools as Friends

Other Security Tools:

https://devops.cisel.ch/kubernetes-containers-and-code-security-tools

Some Ops Tools:

https://devops.cisel.ch/kubernetes-operational-tools-you-must-try

Some DevOps & Kuberntes HowTo:

https://devops.cisel.ch

Blog technique



Site internet



```
_01
_02
        Merci de votre attention!
        Contact:
           Fabrice.Carrel@cisel.ch
_04
           Linkedin: Fabrice Carrel <a href="linkedin.com/in/fabrice-c-a7126536">linkedin.com/in/fabrice-c-a7126536</a>
_04
_04
_04
          ✓ CISEL: +41 26 557 59 00
_04
             neo technologies : +41 79 451 05 13
_04

    contactacisel.ch / contactaneo-technologies.ch

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