

Monitoring-System geodienste.ch

Système de monitoring geodienste.ch

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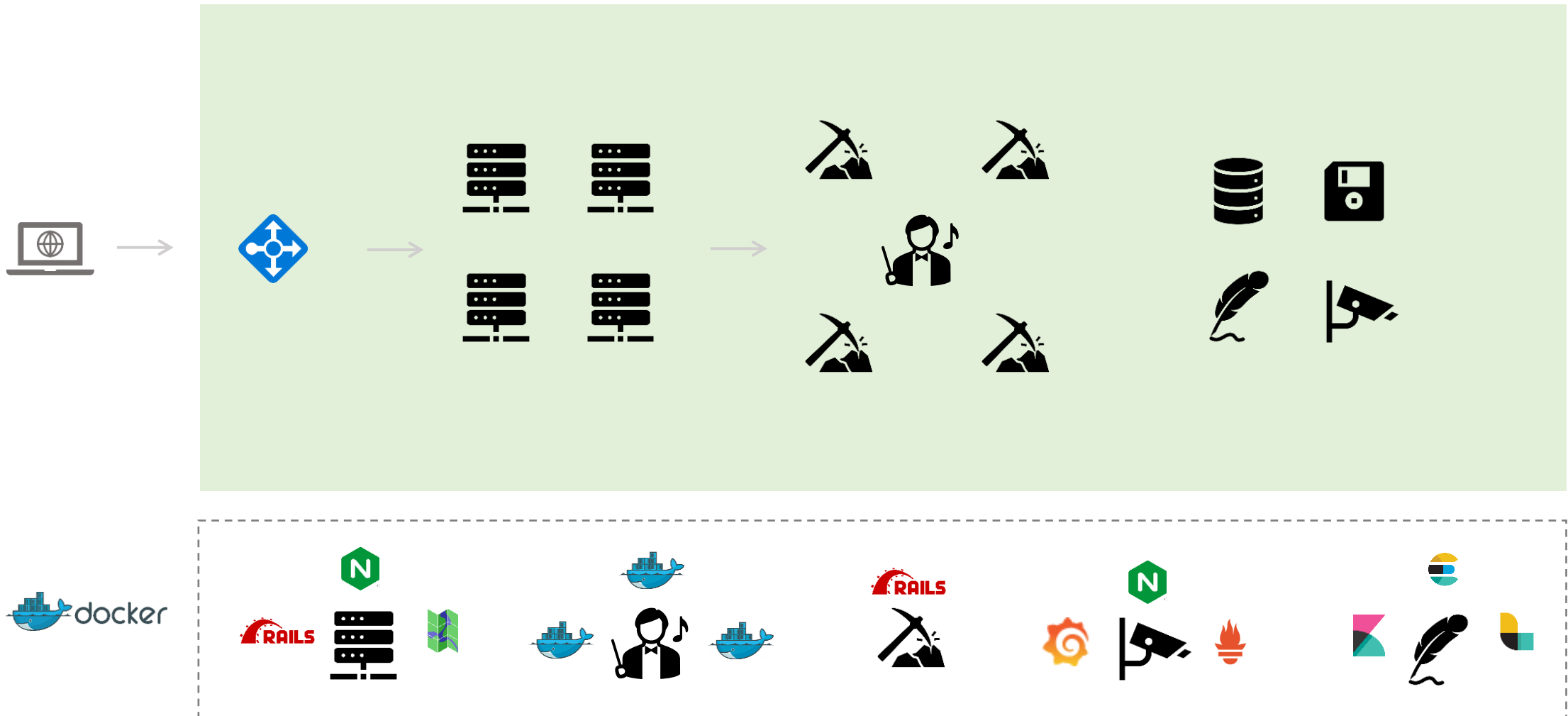
04.09.2023



Monitoring?



Systemüberblick / Aperçu du système



Monitoring Tools

- Classic tools: Icinga, etc.
 - Targeted to static infrastructure
 - Ausgerichtet auf statische Infrastruktur
- geodienste.ch: Prometheus + Grafana

Prometheus



- Metrics collector (OS & application metrics)
 - Realtime / short term storage
 - Collecting metrics via http (pull) → http://node:9100
- Nodes
 - System metrics: node_exporter
 - Docker metrics: cAdvisor
- <https://prometheus.io/>

Grafana Dashboards



<https://grafana.com/>

Grafana data sources



- Prometheus & other timeseries databases
- PostgreSQL & other SQL databases
- Loki & Elasticsearch (Logs, Fulltext)
- Jaeger & other tracing providers

Grafana



- PromQL query Language for graphs & alerts
- Realtime update or time slots
- Users & Permissions
- Alerting rules based on metrics
- Notifications to Mail, Chat, SMS Services, etc.
- Complex support handling not built in

Prometheus / Grafana

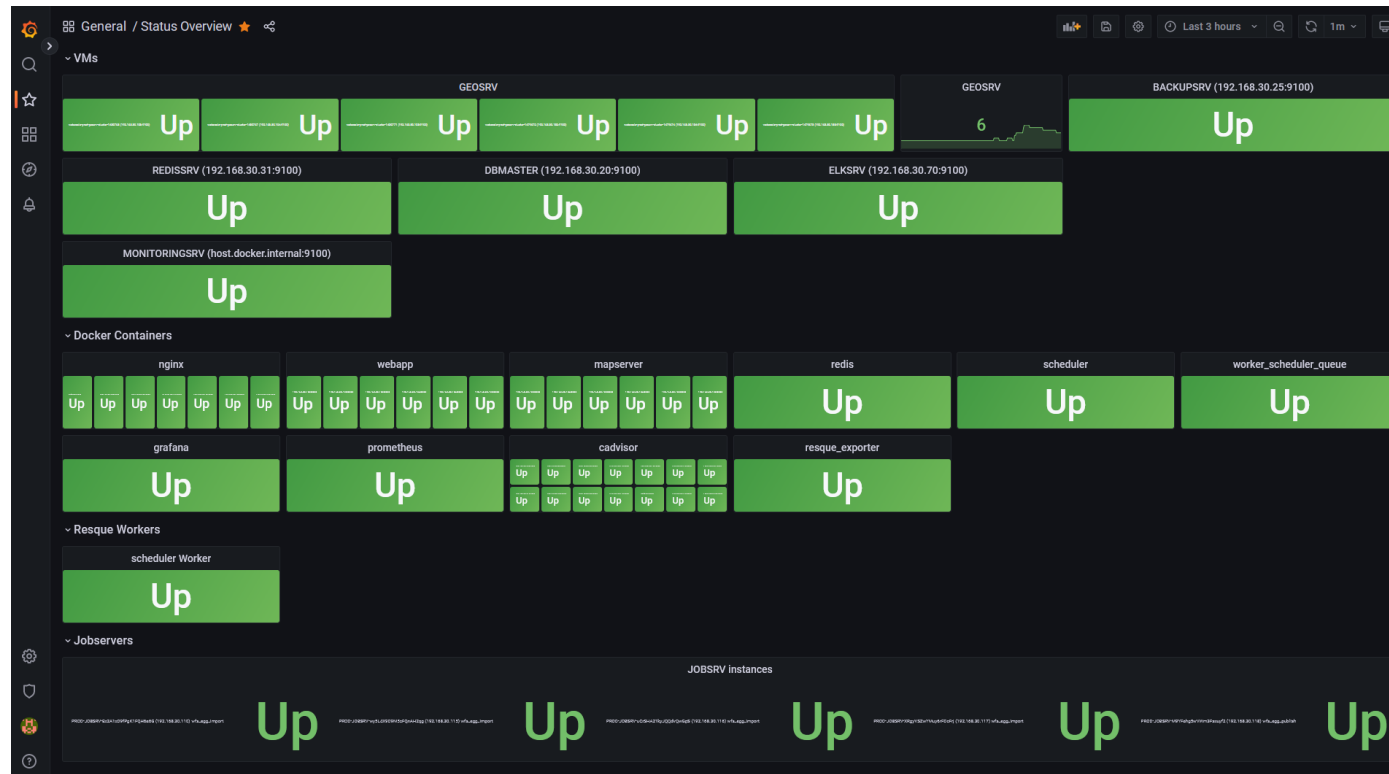
- Pros:
 - Combination of metrics and alerting
 - Standard format for applications metrics
- Cons:
 - High effort for dashboard setup
 - Complex query languages
 - Configuration export / import (alerts) not out of the box
 - Mixed quality of documentation



Weitere Tools / Autres outils

- UptimeRobot: External website monitoring
 - <https://stats.uptimerobot.com/YN0J9uD256>
- ELK-Stack (ElasticSearch, LogStash, Kibana, [FileBeat]):
 - Log collection & analysis
 - <https://www.elastic.co>
- Load-Balancer monitoring / alarming
- Load testing
 - <http://loader.io>
- Manual checks

Demo Grafana



<https://monitoring.geodienste.ch>

