ENTERPRISE PERFORMANCE MONITORING MIT NETEYE 4

Unified Monitoring und Security Information und Event Management

IT STRATEGIE (R)EVOLUTION

NetEye USER GROUP 2019

Digital
Transformation

IT Services

Strategic asset

(R)evolution

Business enabler

HEUTE

Business support

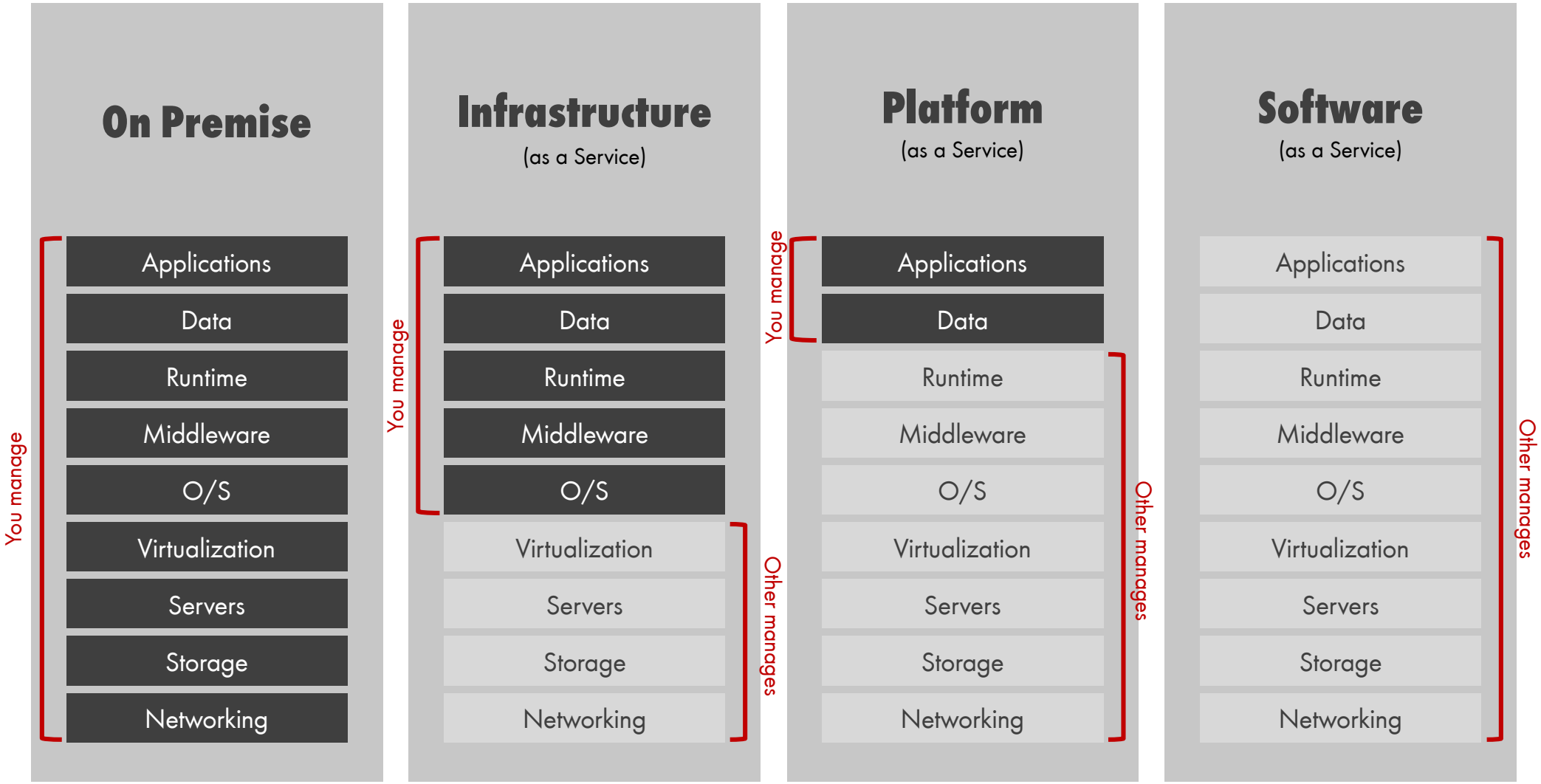
GESTERN

HERAUSFORDERUNGEN

NetEye USER GROUP 2019

Business Agility	Multi Cloud	5G Mobility	IoT - IIoT
Automation	GDPR	Security	Scalability
User Experience	Performance	Continuous Deployments	Legacy

IT ARCHITECTURE OPTIONS



(R)EVOLUTION: IT ARCHITECTURE OPTIONS

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On Premise (Internal Service)	Infrastructure (as a Service)	Container (as a Service)	Platform (as a Service)	Function (as a Service)	Software (as a Service)
Functions	Functions	Functions	Functions	Functions	Functions
Applications	Applications	Applications	Applications	Applications	Applications
Data	Data	Data	Data	Data	Data
Runtime	Runtime	Runtime	Runtime	Runtime	Runtime
Middleware	Middleware	Middleware	Middleware	Middleware	Middleware
Container	Container	Container	Container	Container	Container
Orchestrator	Orchestrator	Orchestrator	Orchestrator	Orchestrator	Orchestrator
O/S	O/S	O/S	O/S	O/S	O/S
Virtualization	Virtualization	Virtualization	Virtualization	Virtualization	Virtualization
Servers	Servers	Servers	Servers	Servers	Servers
Storage	Storage	Storage	Storage	Storage	Storage
Networking	Networking	Networking	Networking	Networking	Networking

(R)EVOLUTION: ARCHITECTURE OF IT SERVICES

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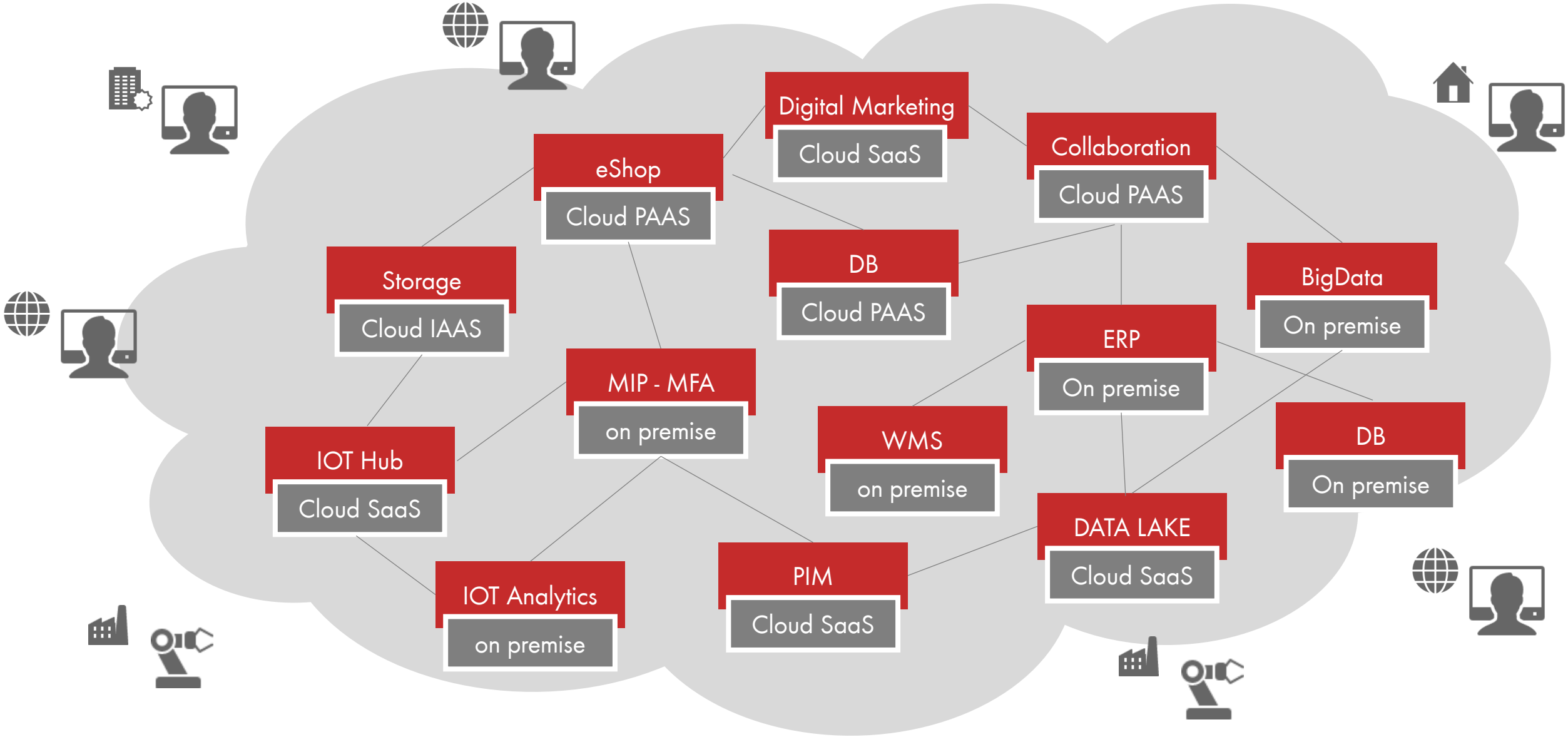

Benötigen wir in Zukunft noch ein Monitoring ?

oder

Die Anforderungen an ein IT Service Monitoring ändern sich dramatisch ?

VISION NETEYE 4

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Monitoring	User Experience Visual Synthetic	ITOA Perf. Metrics	APM Tracing	APM Logs
SIEM Analytics	Log Mngt (GDPR)	Complex Event Processing	SLM	Multi Cloud Integration
Anomalies Detection	Business Process Root Cause	Predictive Forecasting	Multi Tenant	Dashboards

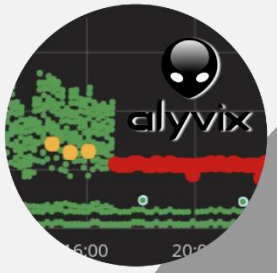
ARTIFICIAL INTELLIGENCE

NetEye USER GROUP 2019

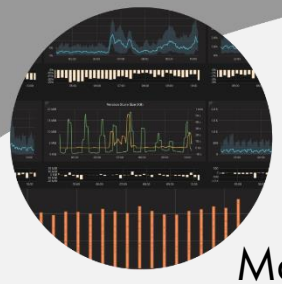
Research For NetEye 4

Deep Learning

User Experience

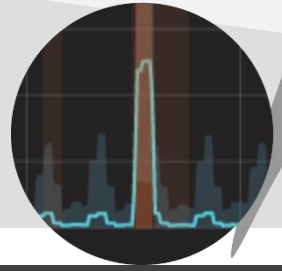


AI



Machine Learning

Forecasting



Anomaly Detection

NetEye

on premises –Hybrid – Multi Cloud - SaaS

MONITORING – VISIBILITY - OBSERVABILITY

UNIFIED MONITORING
AVAILABILITY
SERVICE LEVEL MANAGEMENT

- Unified Monitoring
- Business Service Monitoring
- Distributed Monitoring
- Iot – IIoT Monitoring
- Asset Management
- Web Service Monitoring

IT OPERATION ANALYTICS
APM
END2END

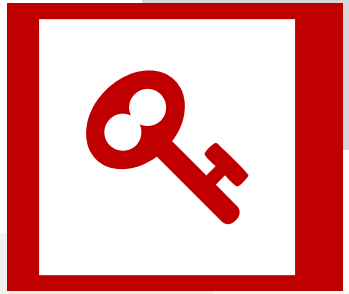
- Visual Synthetic Monitoring Alyvix
- User Experience
- IT Operation Analytics
- **Application Performance Management**
- **Anomaly Detection**
- Forecasting - Prediction
- **Machine Learning**

GDPR – SECURITY
LOG MANAGEMENT
SIEM

- Log Management
- Log Analytics
- **SIEM**
- **Machine Learning**

SERVICE & SUPPORT
SERVICE MANAGEMENT
TICKETING

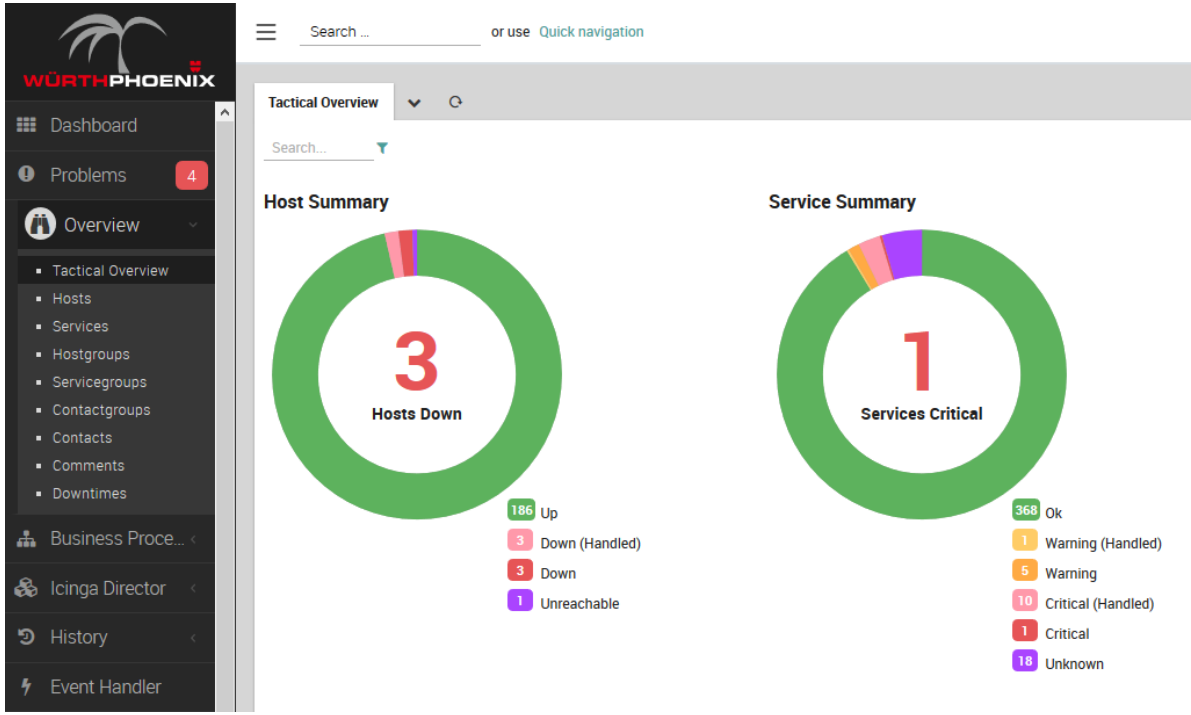
- EriZone - Service Management
- EriZone - CMDB
- EriZone - ITIL
- NetEye HelpDesk



NetEye 4
4.0 bis heute

Vision NetEye 4

- Skalierbarkeit und verteiltes Monitoring
- Sicherheit durch Verschlüsselung aller Kommunikationskanäle
- Modernes Look & Feel
- Einfache Anbindung an externe Quellen zur Datenübernahme
- Einbindung aktiver community Projekte und deren Unterstützung



NetEye 4 eco system

WÜRTHPHOENIX
NetEye

Icinga Web 2

Grafana

kibana

ICINGA

Nagios

FUSION INVENTORY

OCS inventory

GLPI

ntop

MariaDB

InfluxDB

elasticsearch

logstash

Search Guard

rsyslog

TLS

CentOS

redhat

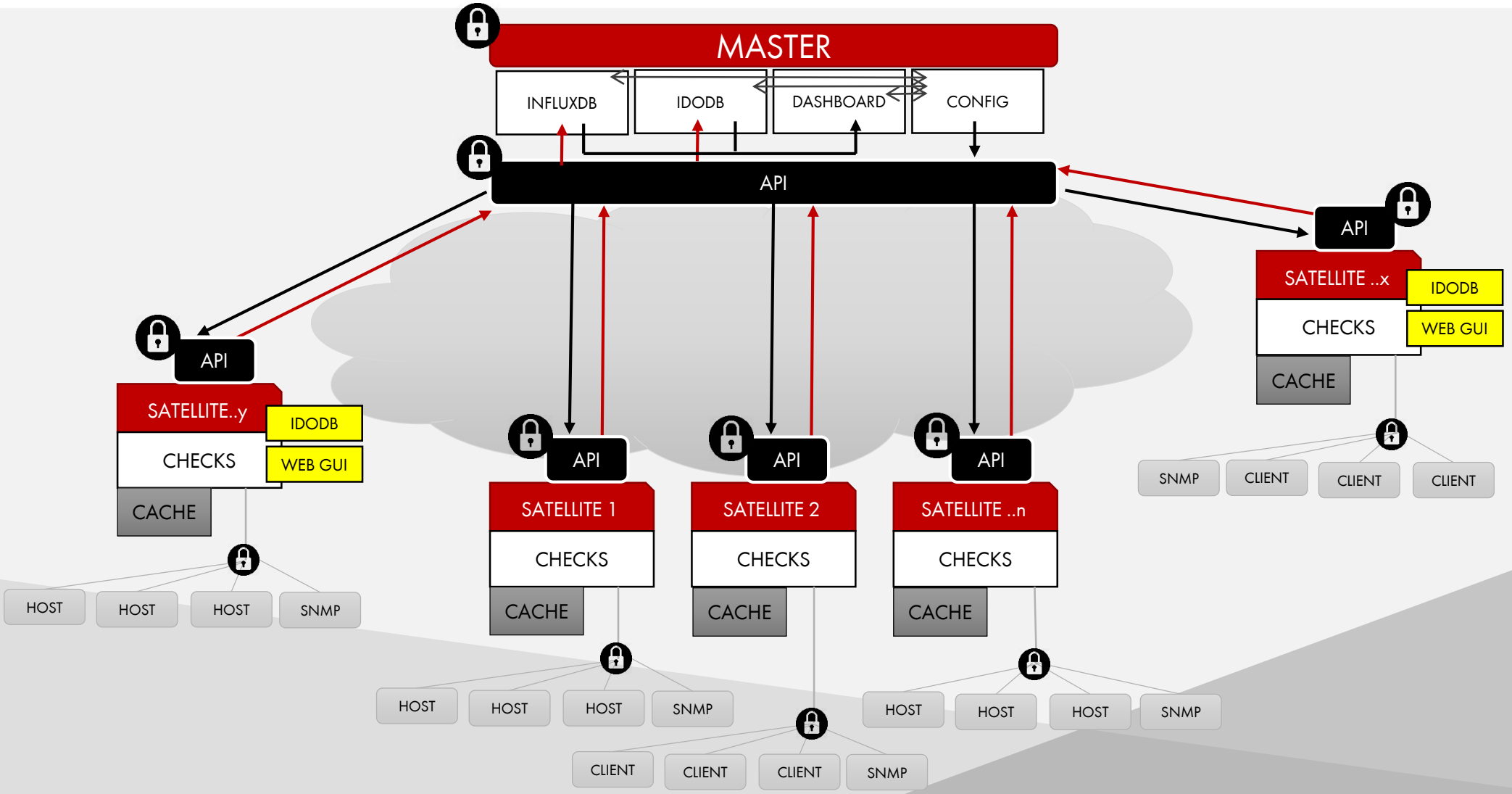
Corosync
The Corosync Cluster Engine

DRBD®

kubernetes

docker

Distributed Monitoring



GEO MAP – MONITORING LAYER AUF OPEN-STREETMAP

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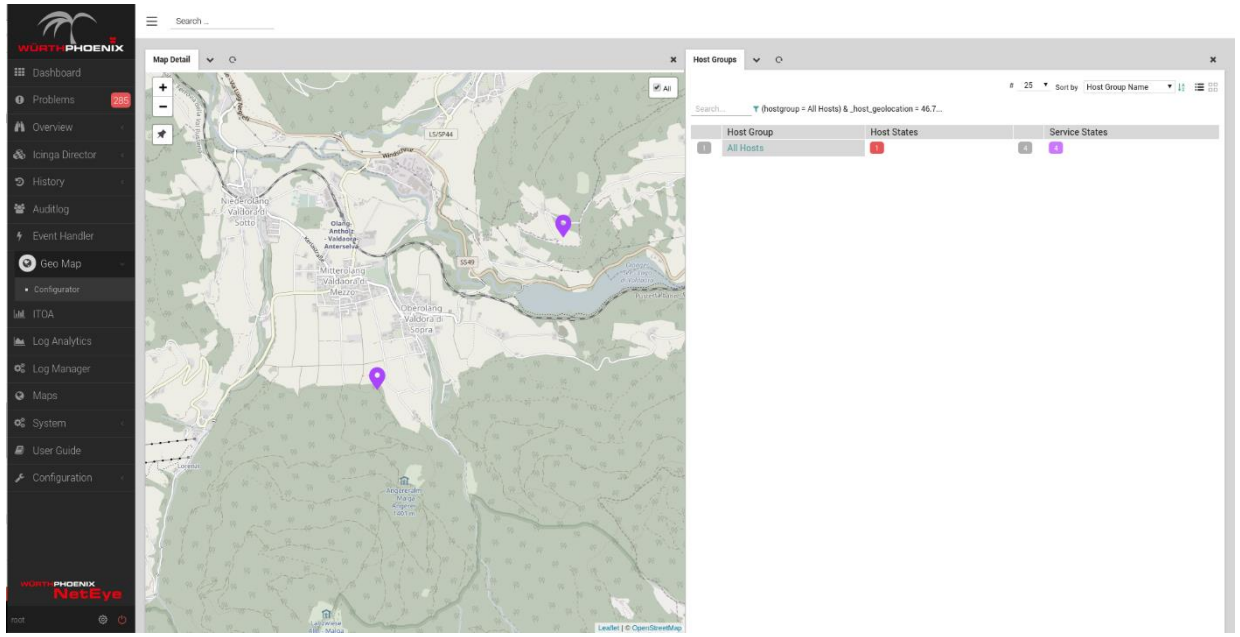
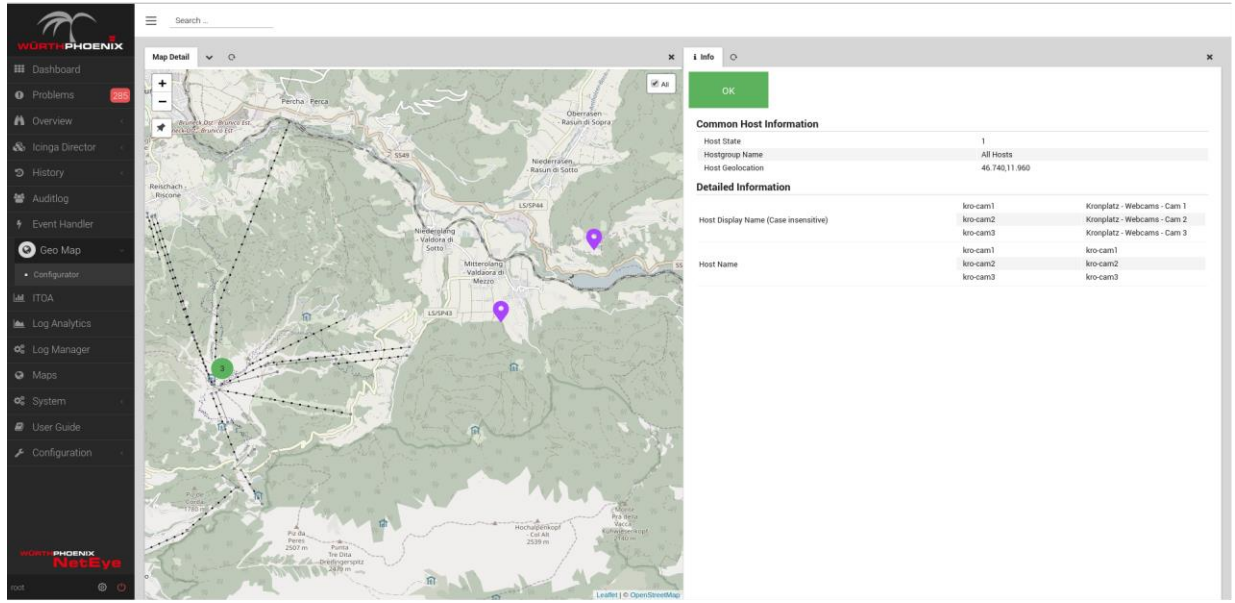
- Geo-Orientierte Abbildung des Monitoring-Ergebnisse
- Zoomable Mappen
- Markers für einzelne Hosts und aggregierte Ansichten nach Standort
- Layers: Ansichten nach Typologie
- Real-time update des Status am marker
- Drill-Down navigation nach Standort und weitere Anzeige als Informationsseite



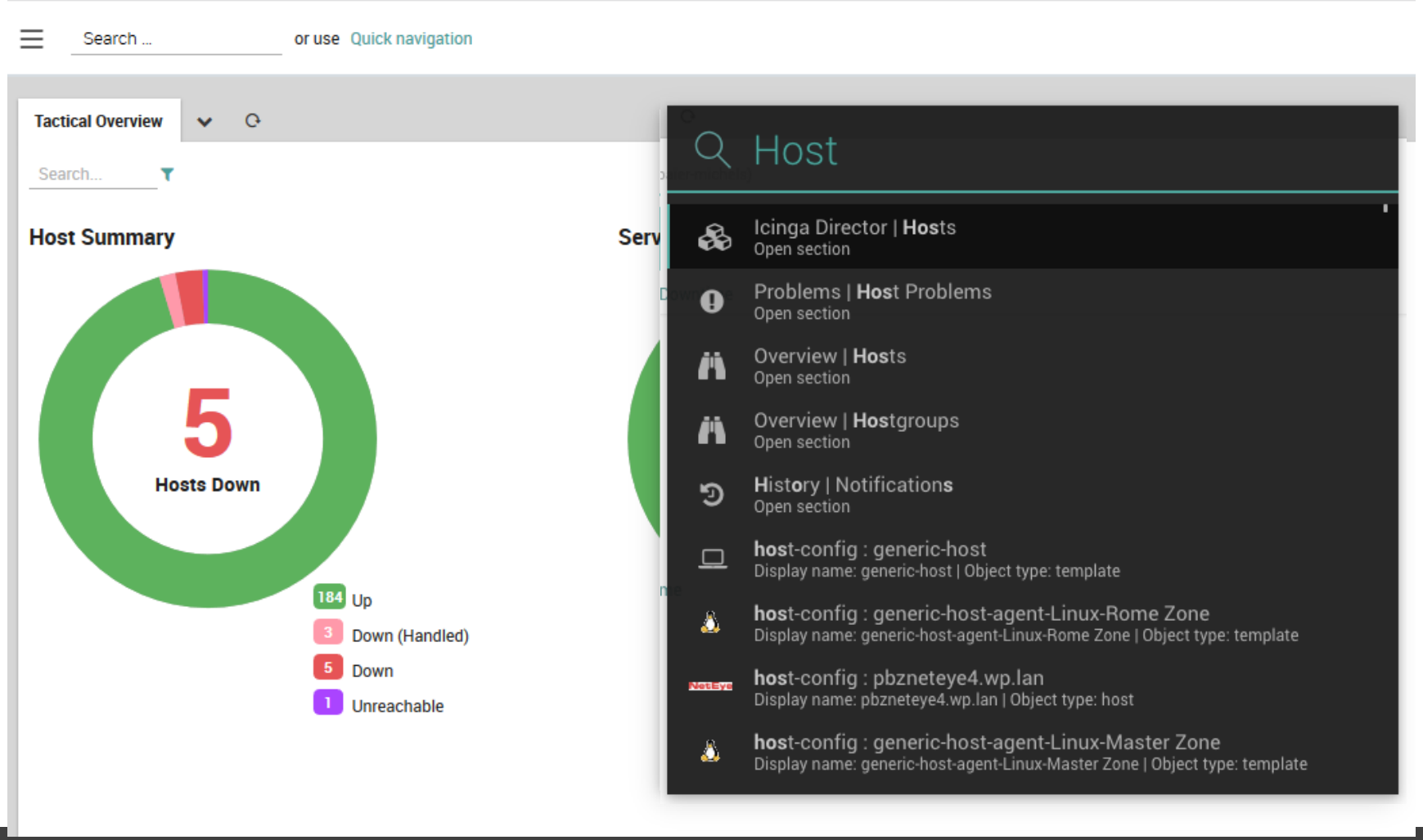


SEARCH INDEX "LAMPO"

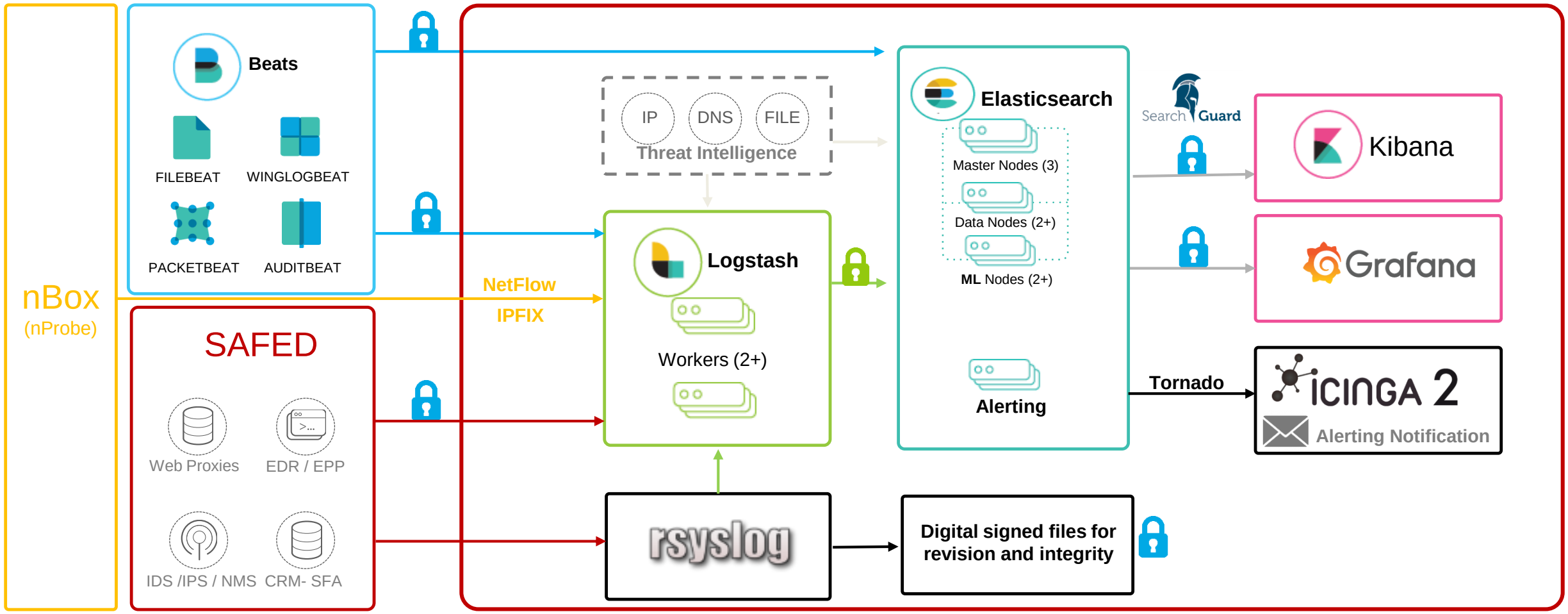
- Instant Index-unterstützte Suchfunktion
- Such-Crawler unterstützt Monitoring Objekte, ITOA dashboards und Suche nach NetEye Modulen

Roadmap:

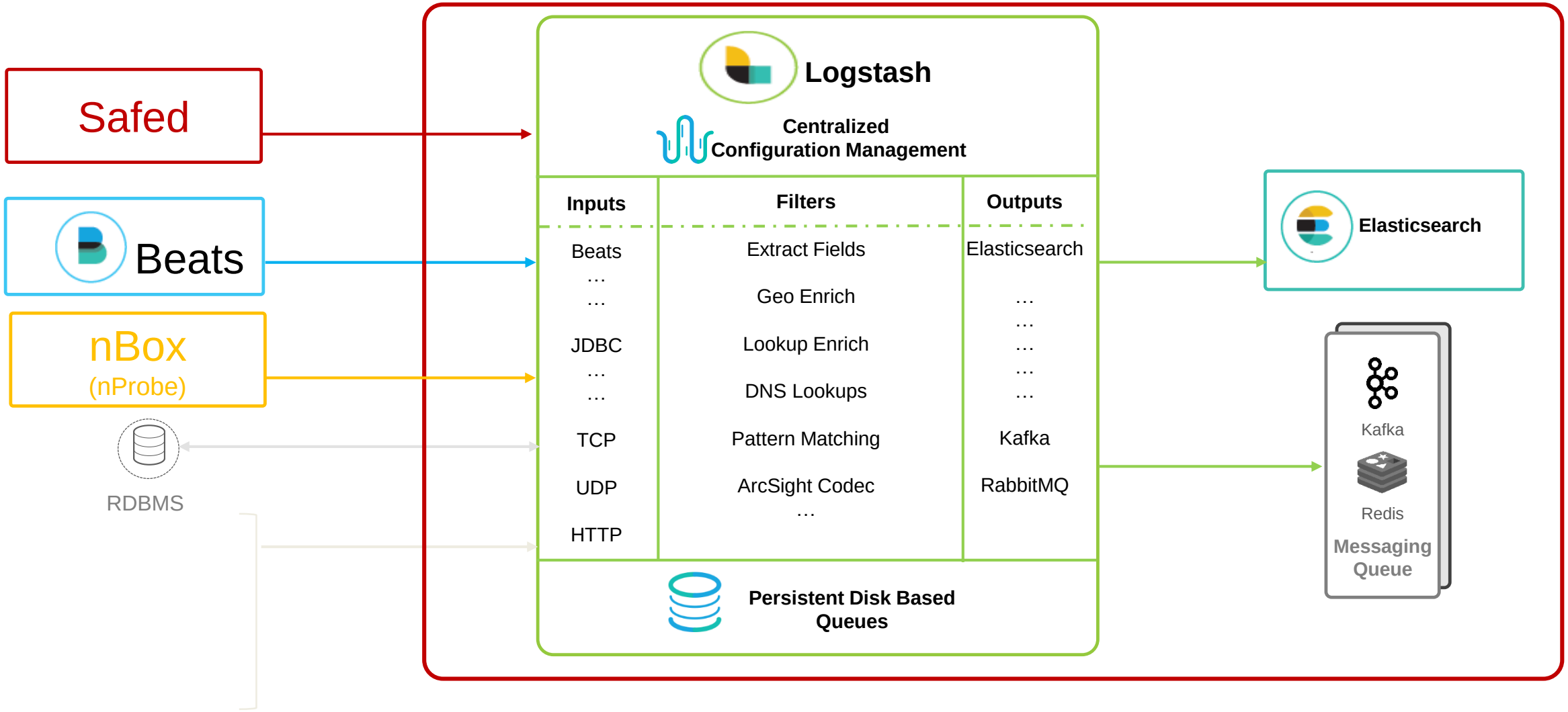
- Contextual search:
  Suche basierend auf Kategorien



LOG MANAGER SOLUTION DESIGN



LOG MANAGER INSIGHT INPUT – FILTERS - OUTPUT



LOG MANAGEMENT: LOG-IN/LOG-OUT ACCESS AUDITING

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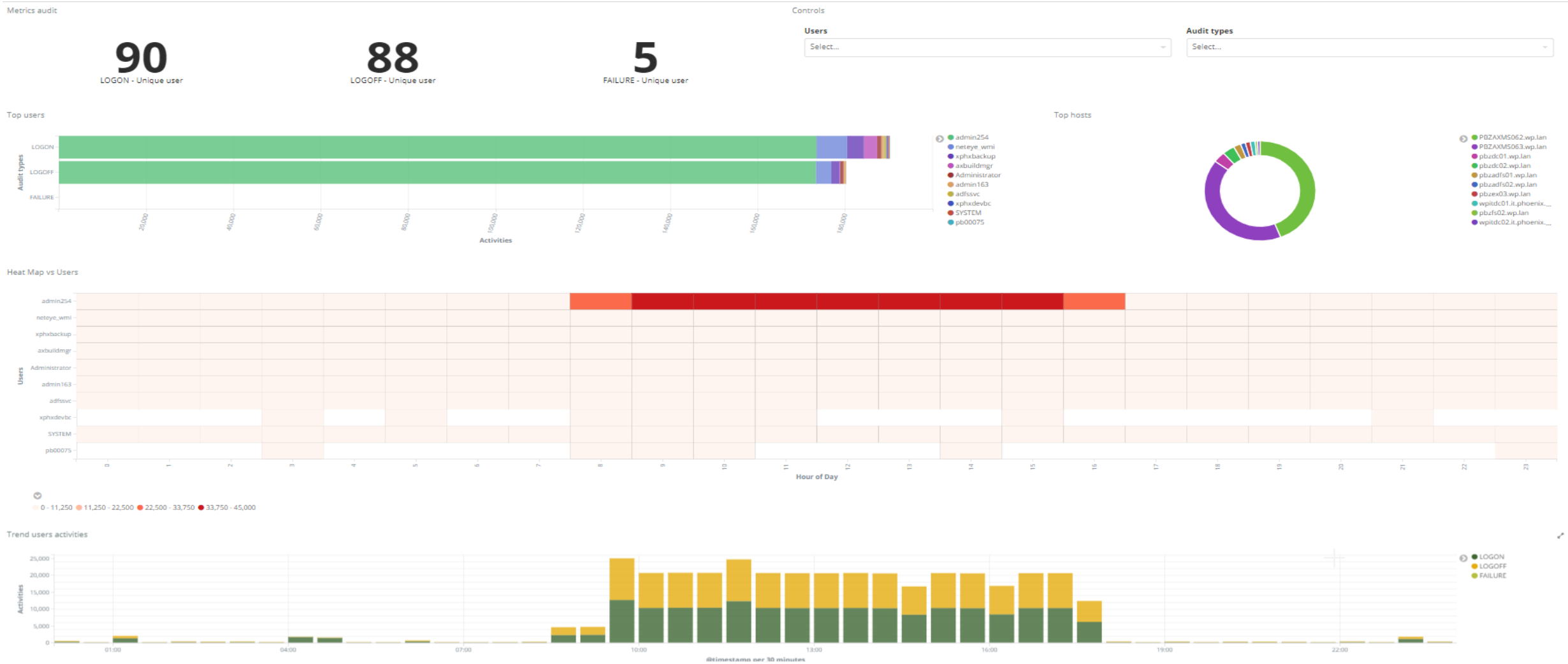
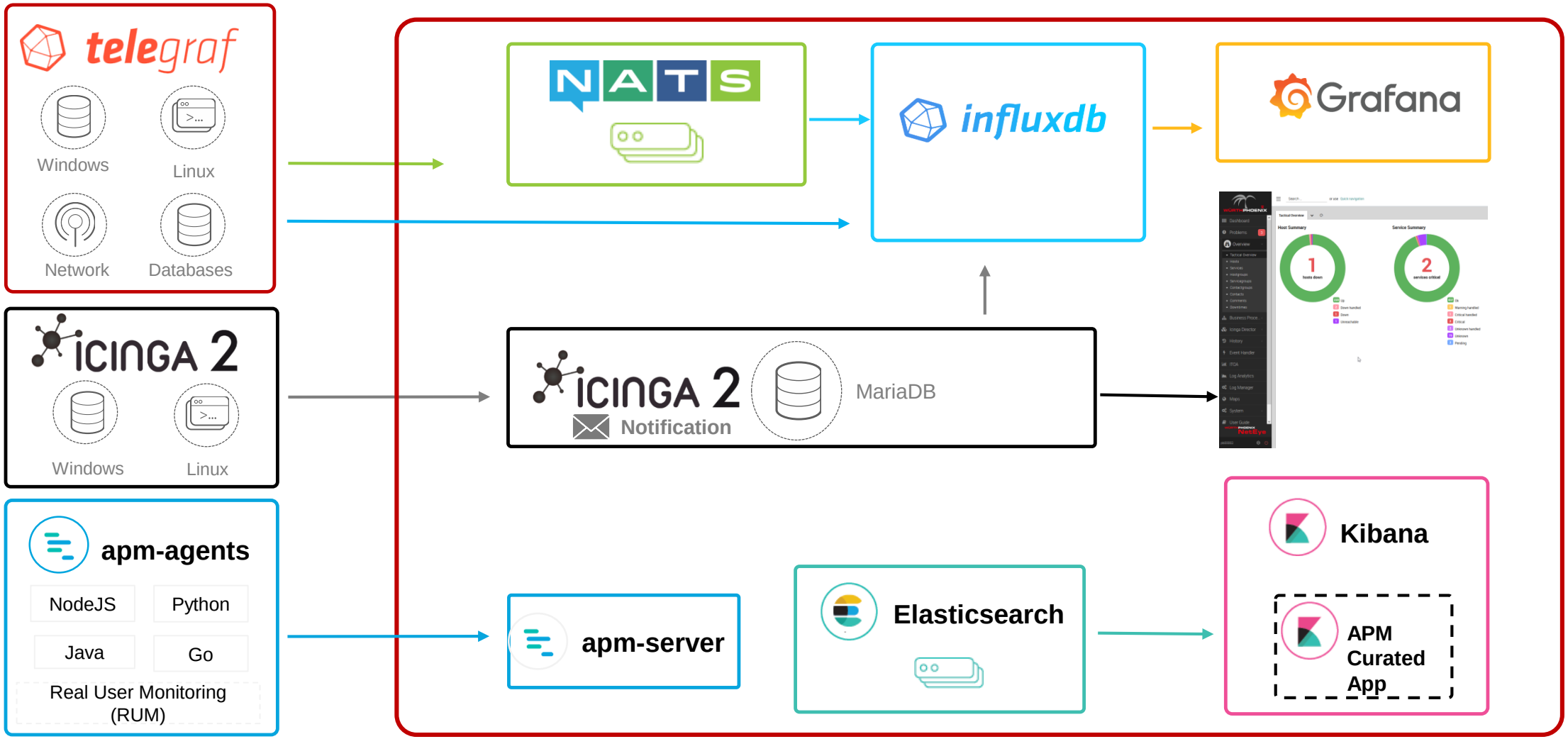
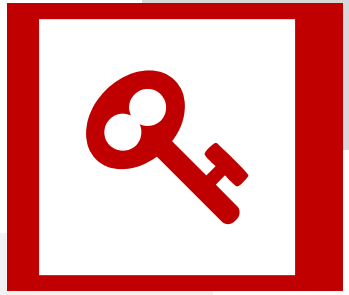


NETEYE APM & ITOA ANALYTICS





NetEye4 Outlook

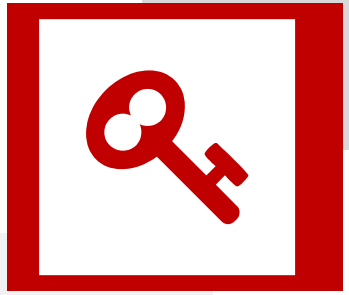
NETEYE 4 INNOVATIONEN 2019

NetEye USER GROUP 2019

v. 4.x

MAJOR FEATURES
(Next releases)

- Kontinuierliche Integration der neuesten Icinga2 Module
- Integration der OSS Innovation aus TICK – Stack, Grafana und Elastic / SearchGuard
- Enhance index-based search "Lampo"
- Network Discovery
- Availability Reporting and SLA Management
- Network Traffic analyse mit NTOPNG Enterprise
- Event monitoring basierend auf neuer Engine "Tornado"



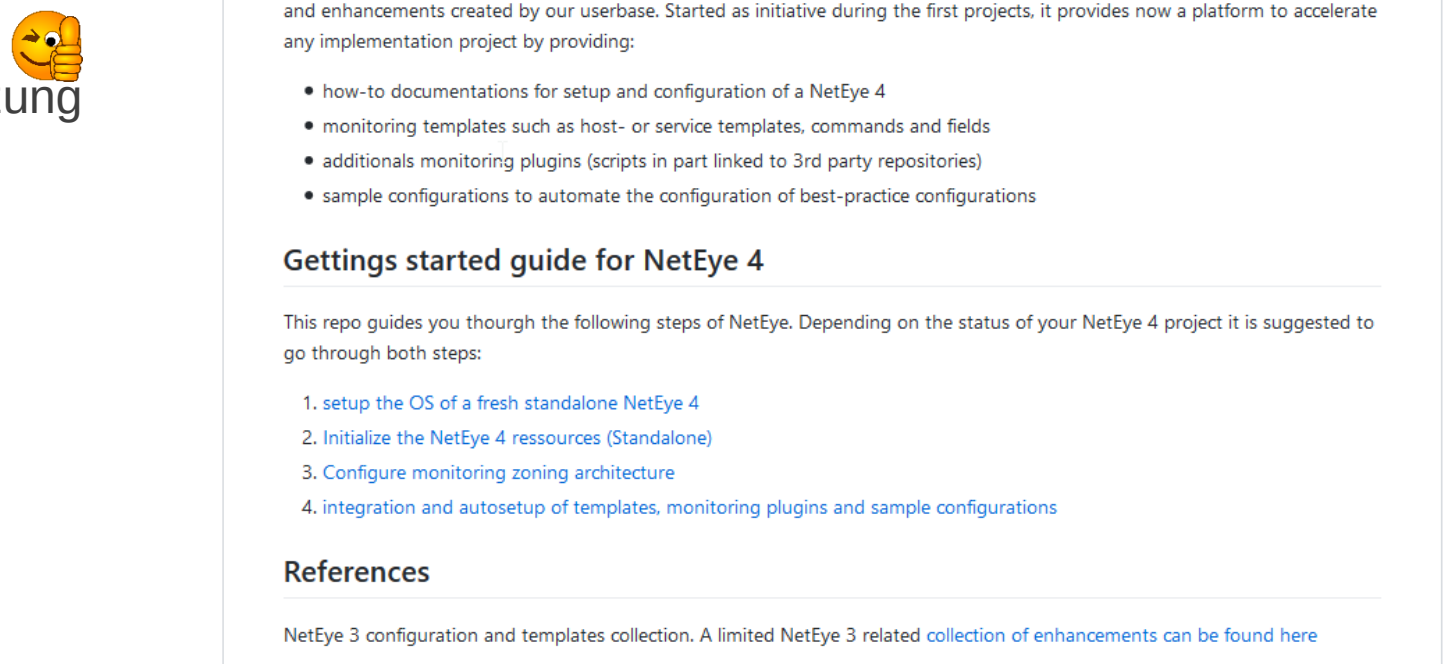
NetEye4 Community Initiative

NETEYE 4 COMMUNITY-PORTAL

- Ziel:
  - Austausch von Konfigurationen und Automatismen zum Ausrollen des Monitorings

- Vorteile:
  - Erprobung vor Übernahme in Produkt
  - Versionierung und Zugänglichkeit

- Begründung der Initiative:
  - Agile Erweiterung während Projektumsetzung
  - Rückmeldungen aus user group 2018



README.md

NetEye 4 Community Portal

Welcome to the community repository for NetEye 4 users. This repository comes with the purpose to share the best-practices and enhancements created by our userbase. Started as initiative during the first projects, it provides now a platform to accelerate any implementation project by providing:

- how-to documentations for setup and configuration of a NetEye 4
- monitoring templates such as host- or service templates, commands and fields
- additionals monitoring plugins (scripts in part linked to 3rd party repositories)
- sample configurations to automate the configuration of best-practice configurations

Gettings started guide for NetEye 4

This repo guides you thourgh the following steps of NetEye. Depending on the status of your NetEye 4 project it is suggested to go through both steps:

1. setup the OS of a fresh standalone NetEye 4
2. Initialize the NetEye 4 ressources (Standalone)
3. Configure monitoring zoning architecture
4. integration and autosetup of templates, monitoring plugins and sample configurations

References

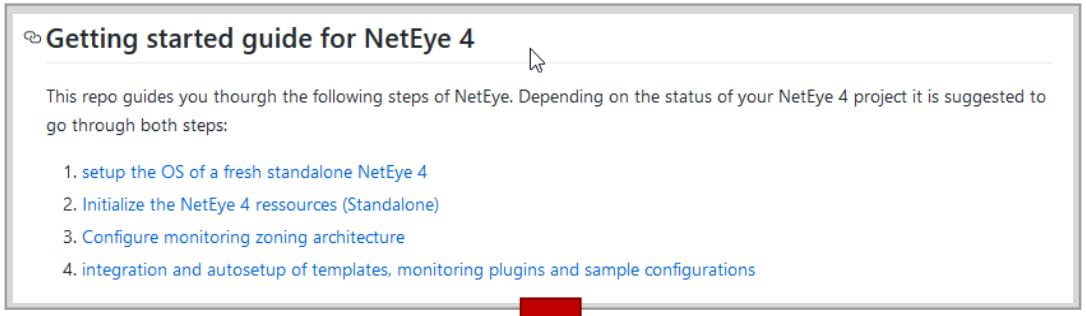
NetEye 3 configuration and templates collection. A limited NetEye 3 related collection of enhancements can be found here

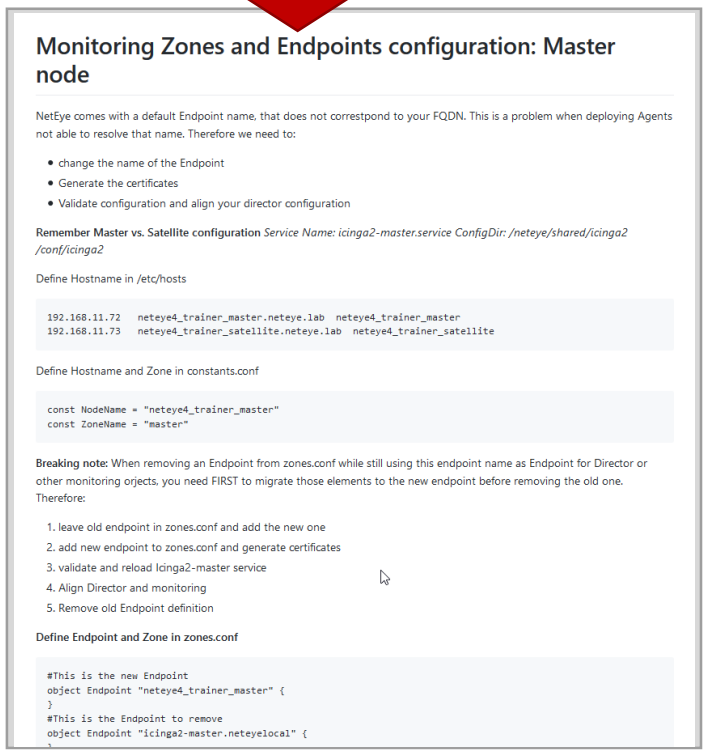
INHALTE DES COMMUNITY-PORTALS VERWENDEN

NetEye USER GROUP 2019

- Inhalt:
  - Dokumentation zur Inbetriebnahme von NetEye 4
  - Erweiterungen zur Standardkonfigurationen
  - NetEye Monitoring Templates (NTL + ITL)

- Automatisierte Prozeduren



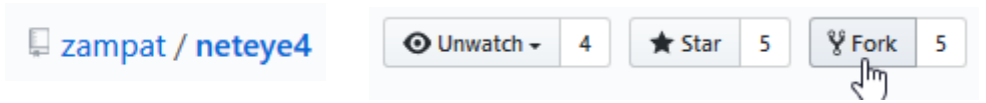


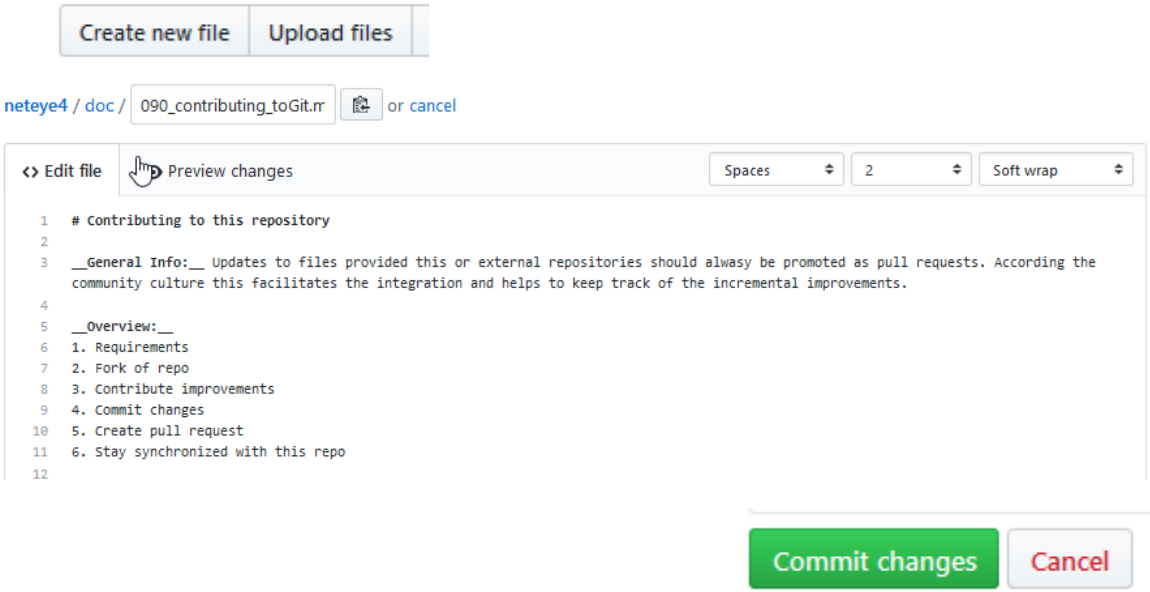
Link Community-Portal:
https://github.com/zampat/neteye4/

ZUM COMMUNITY-PORTAL BEITRAGEN (WEB-UI)

NetEye USER GROUP 2019

- Registrierung auf Github – falls nicht schon erledigt ;)
- „Fork“ des repository “neteye4”
  https://github.com/zampat/neteye4
- Einarbeitung der Erweiterungen
  - Datei erstellen (Erstellt auch Ordner)
  - Bestehende Datei Bearbeiten
  - Hochladen von Dateien (Upload Files)
- Commit zum speichern
  Jede Änderung wird als eigenständiger Commit versioniert





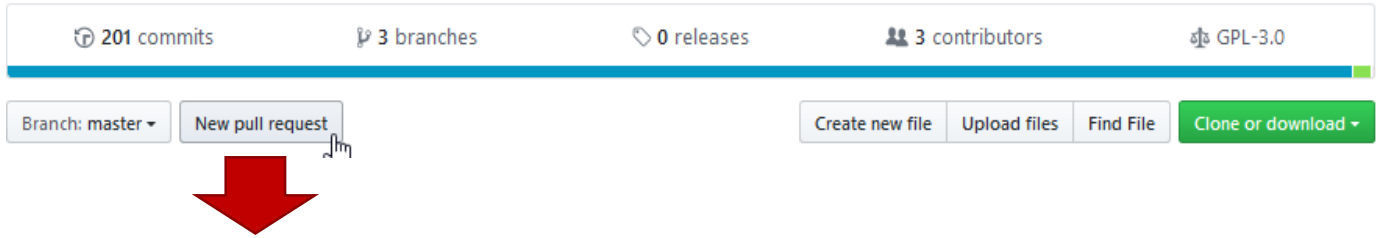
Wichtig: Lizenz und Urheberrechtsangaben beachten wenn Beiträge aus geistigem Eigentum Dritter abgeleitet werden. Inhalte müssen zu GPL v3 kompatibel sein: https://www.gnu.org/licenses/gpl-3.0.html

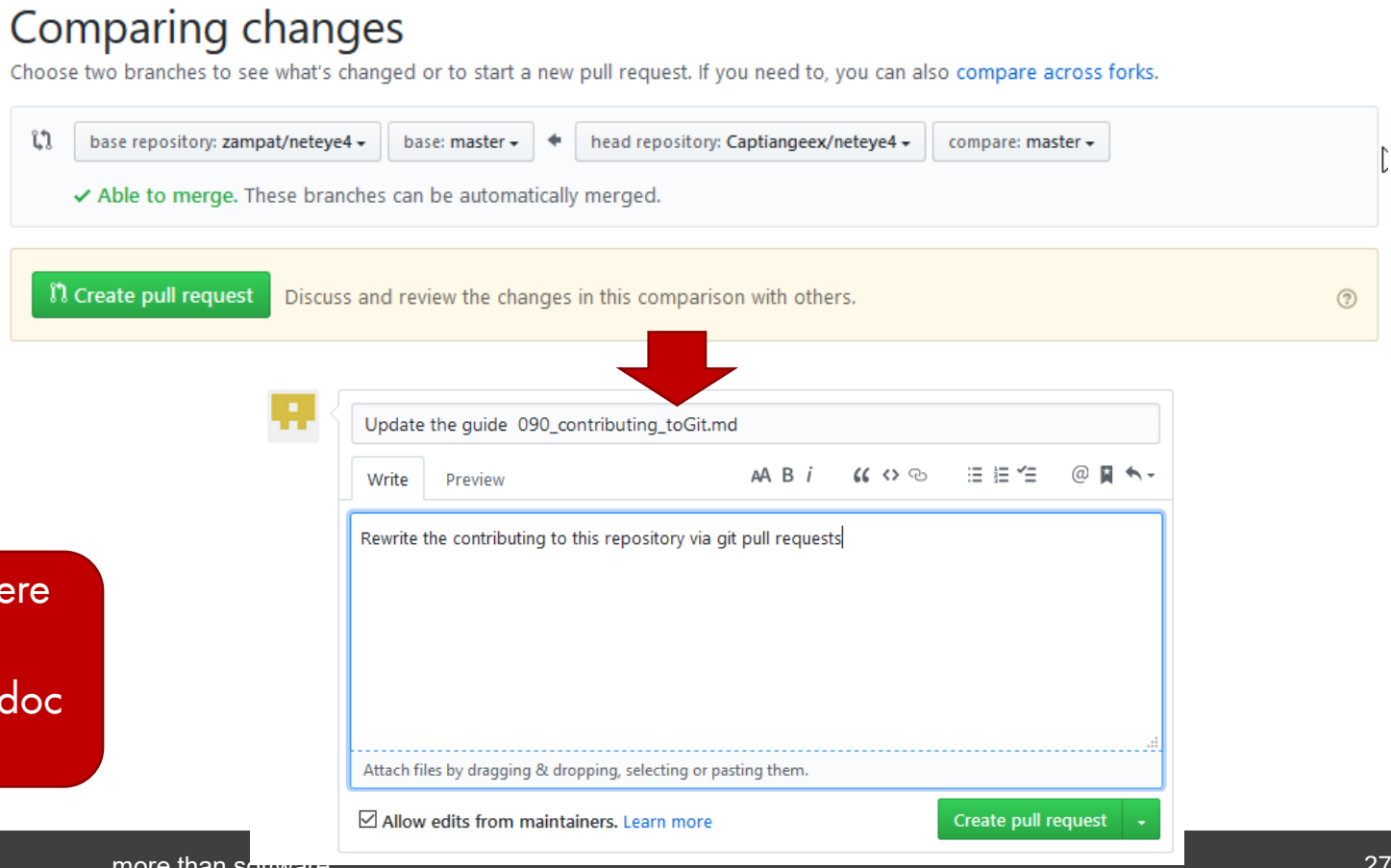
MEINE BEITRÄGE EINSENDEN: PULL REQUEST

NetEye USER GROUP 2019

- Pull request generieren (new pull request)
- Änderungen verifizieren (compare changes)
- Pull request erstellen (create pull request)
- Verbesserung beschreiben und absenden
- Das war's – Danke !

Wird der Pull request angenommen wechselt der Satus von Open nach Merged





How-to zur Handhabe von Pull-Requests, insbesondere der Pflege von Updates in ihren Fork: https://github.com/zampat/neteye4/blob/master/doc/090_contributing_toGit.md

WWW.WUERTH-PHOENIX.COM

THANK YOU!