

NetEye vision

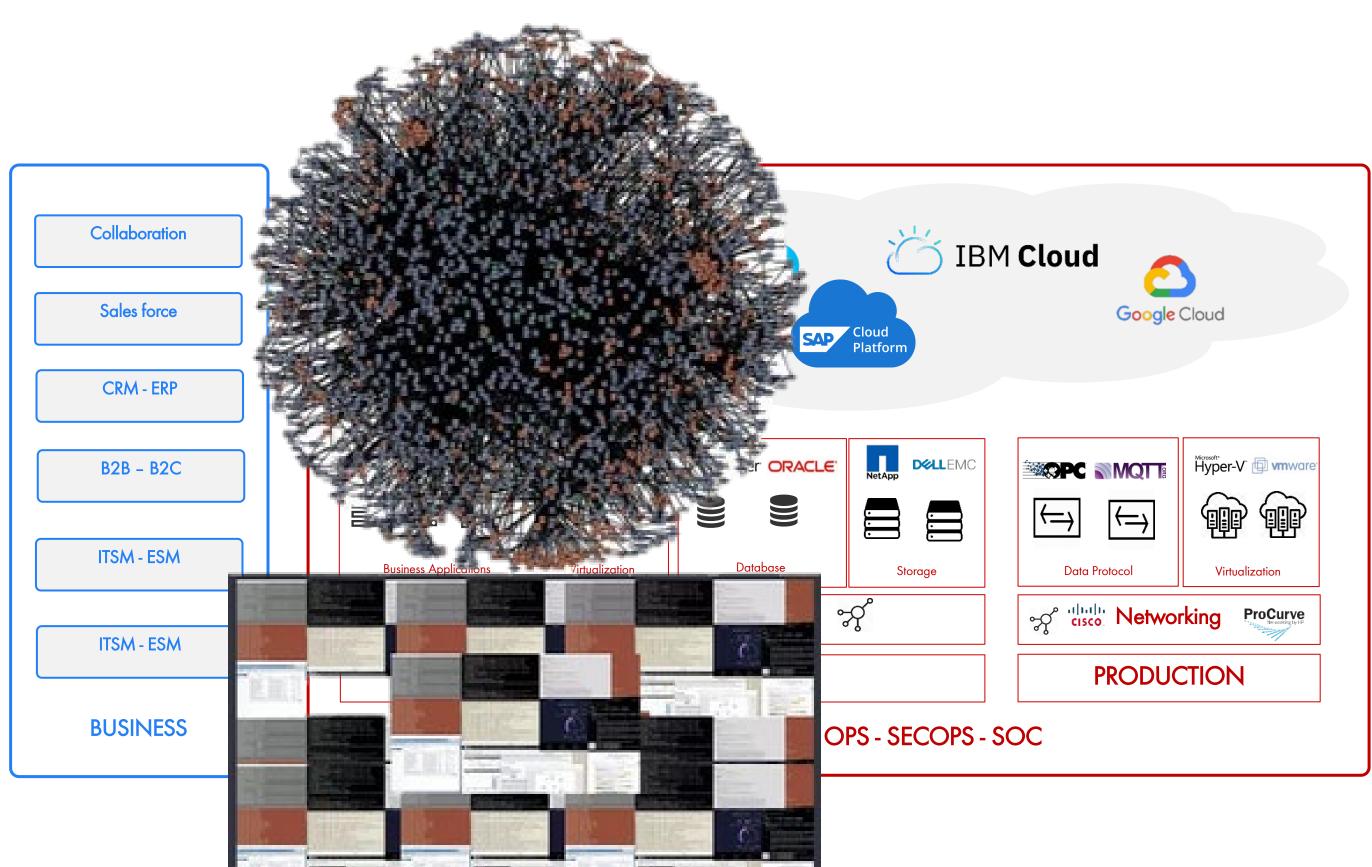
Intelligenza artificiale: evoluzione e impatti

Georg Kostner, BU manager IT Systems & Service Management



VISION



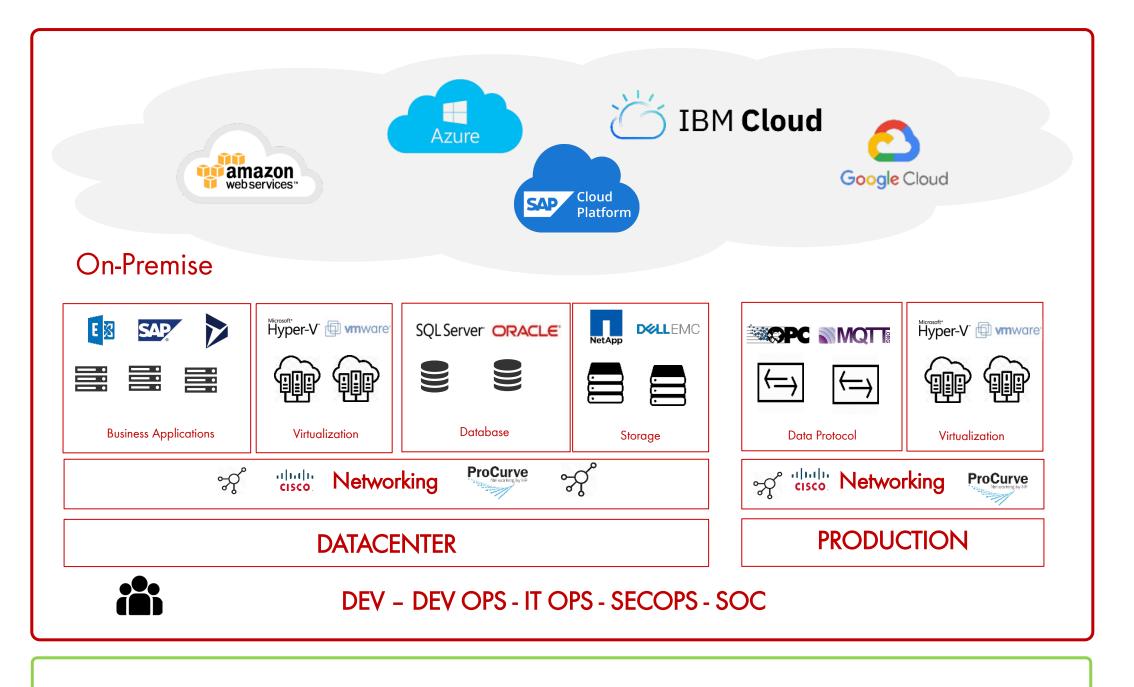




VISION









Visual Mon Web Mon RUM

Business Impact Business Process SLM - SLA Datacenter Monitoring
Network Performance Monitoring

System Monitoring
Observability (Metric, Logs, Trace)
SLI – SLO

Automation SIEM

ORGANIZATION - PROCESSES

Monitoring

Service disruption?

Reliability?

Status?

Incident Management

Responsiveness - Fit for use



Incident

NetEye

Observability

Performance?

Saturation, Scalability?

Resources - Cost

Anomaly Detection - ML

User Experience



Problem

SIEM - SECURITY

Threat Actor?

Data exfiltration?

Detection Rules

Anomaly Detection - ML



Security





UNIFIED MONITORING PLATFORM

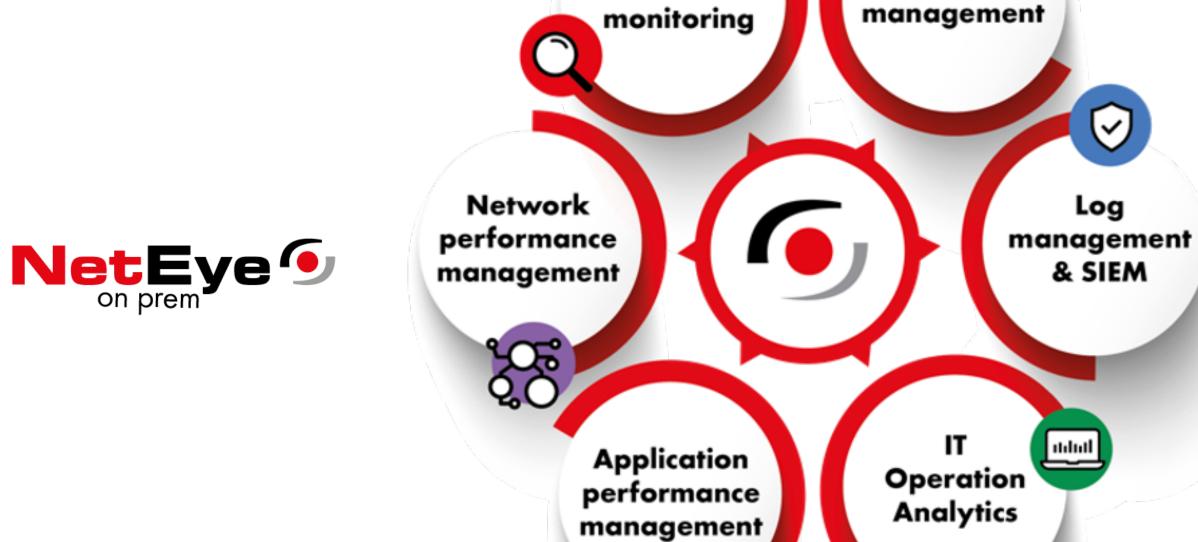


NetEye since 2021





NETEYE DEPLOYMENTS PATH



Unified

Asset

 (\checkmark)

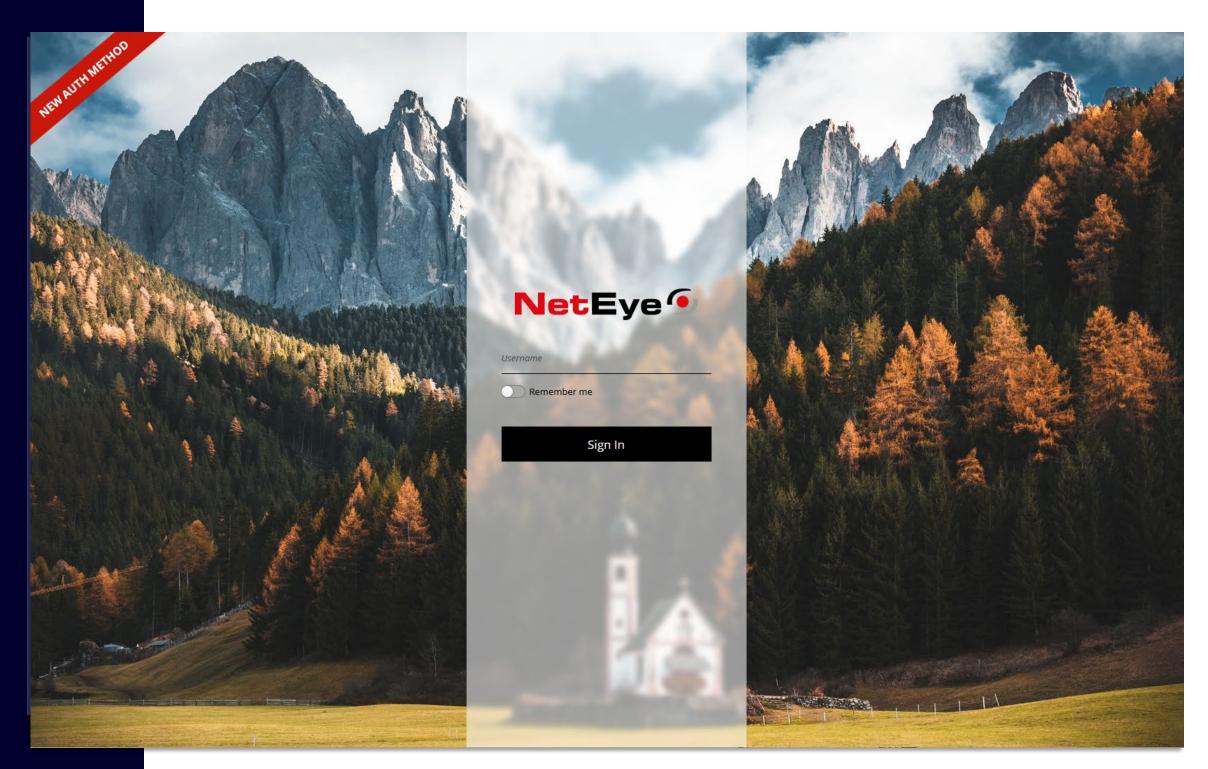
Log



NETEYE AUTHENTICATION

Single Sign On

IdP Integration
OpenID - OAUTH
SAML
LDAP - AD



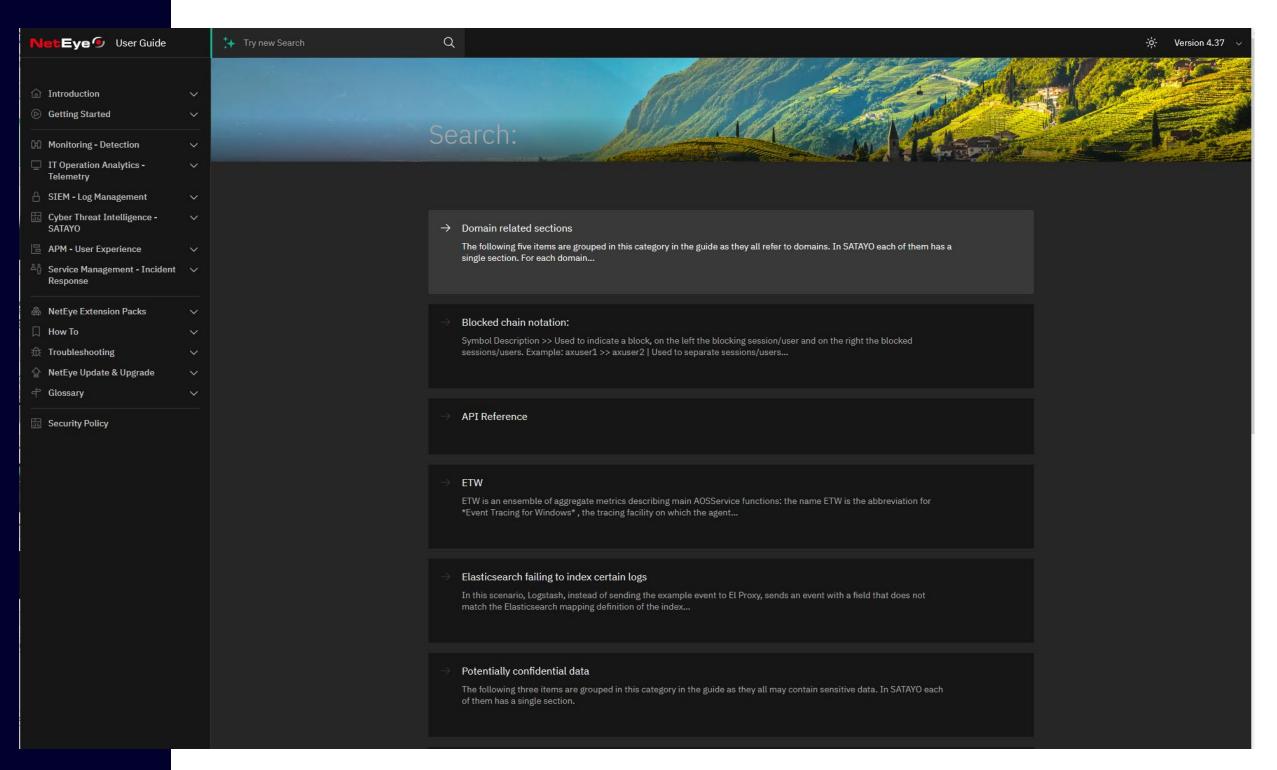
https://www.keycloak.org/



NETEYE GUIDE

Continous improvement

Search
Content
Structure



https://neteye.guide/





NETEYE CORE

Update, Upgrade, Install via Ansible

Parallel execution
Simplified
Maintainability
Log(s) - debug

```
[localhost] => {
    "dnf_result": (
       "changed": true,
       "failed": false,
       "msg": "",
       "rc": 0.
       "results": |
           "Installed: icingaweb2-module-alyvix-configurator-0.55.1-1.noarch",
           "Installed: elastic-stack-configurator-1:8.14.3_neteye3.65.0-1.noarch",
           "Installed: neteye-setup-configurator-1:1.130.2-1.noarch",
           "Installed: elastic-blockchain-proxy-configurator-1.3.0-1.noarch",
           "Installed: icingaweb2-module-tornado-configurator-2.16.4-1.noarch",
           "Removed: elastic-blockchain-proxy-configurator-1.2.5-2.noarch",
           "Removed: elastic-stack-configurator-1:8.14.3_neteye3.64.2-1.noarch",
           "Removed: neteye-setup-configurator-1:1.130.1-1.noarch",
           "Removed: icingaweb2-module-alyvix-configurator-0.55.0-1.noarch",
           "Removed: icingaweb2-module-tornado-configurator-2.15.2-1.noarch"
localhost
                           ok=16 changed=3
                                               unreachable=0
                                                                failed=0
* We are starting the update of NetEye
* This activity can take a non trivial amount of time
 to complete.
* Please do not press ctrl+c or other commands
 until the NetEye update has finished
You can follow the update logs for every service in the following folder: /neteye/local/os/log/neteye_command/update/20240717-140301
icingaweb2
                         [5/5]: Done in 8s
icingaweb2-module-tornado [1/1]: Done in 50s
neteye-setup
                         [1/1]: Done in 14s
snmptrapd-neteye-config [1/3]: Started Playbook

    □ 0:24/00:28
```

https://github.com/ansible/ansible

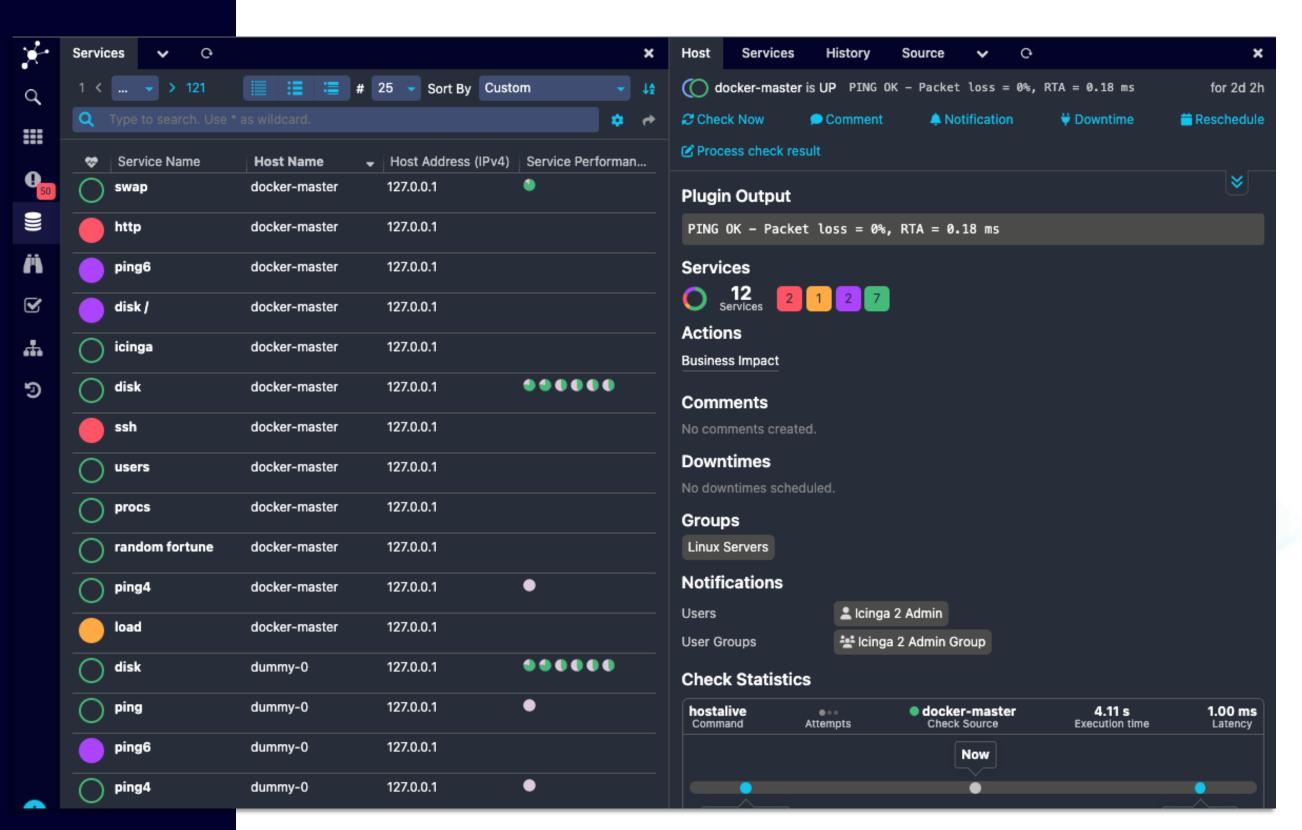




ICINGA DB WEB

Roadmap

Performance
Scalability
Web UX
Filter

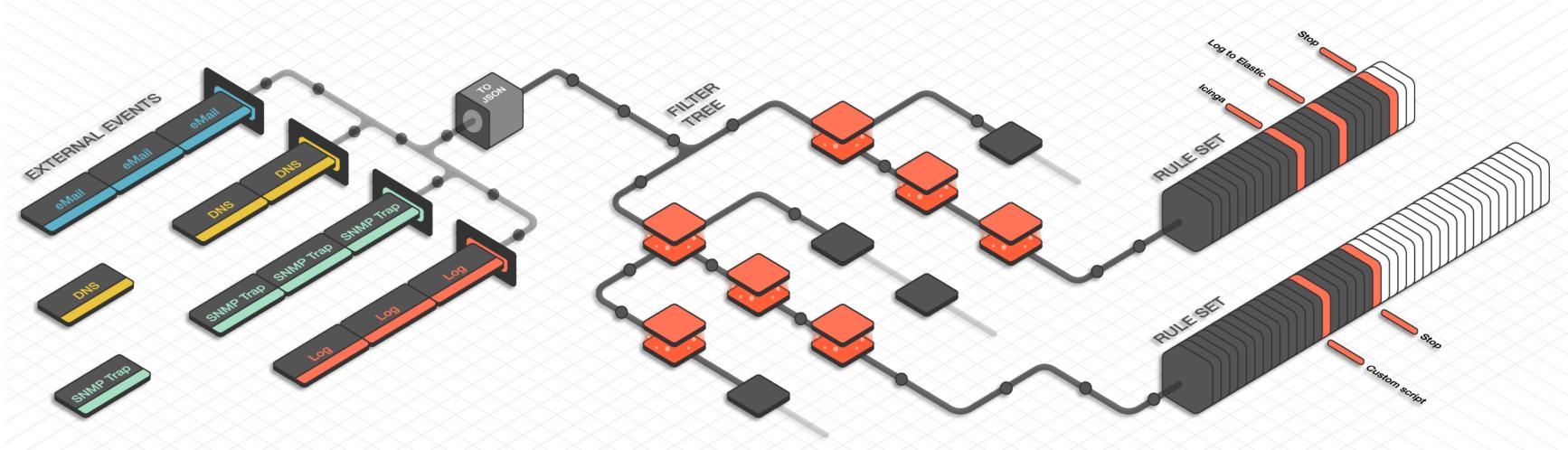






TORNADO

External Event Integration



https://neteye.guide/current/monitoring/tornado/concepts.html

- Webhooks
- SNMP Traps
- Syslog
- Email

- SMS
- •

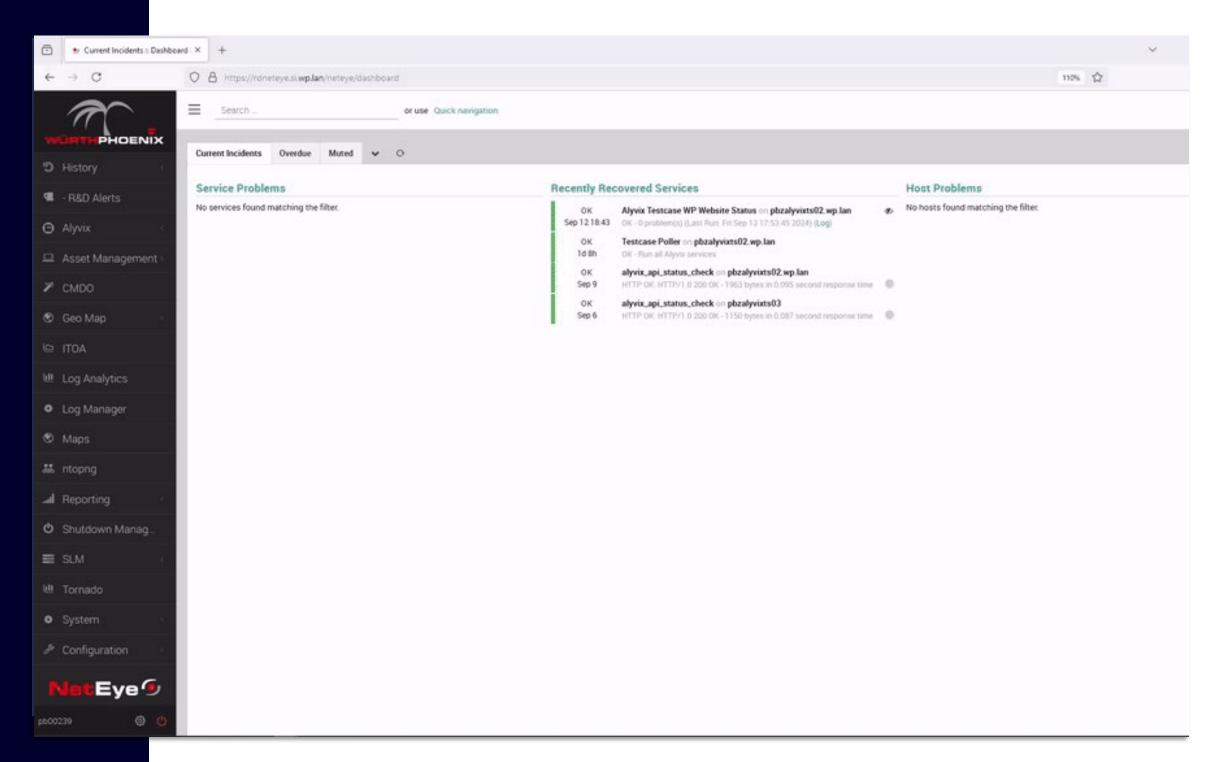


TORNADO

Complex Event Processing

Usability
Event Test
Iterator

• • •



https://neteye.guide/current/monitoring/tornado/concepts.html



SNMP MONITORING AT SCALE

Roadmap (new module)

SNMP MIB Browser
SNMP Inventory
SNMP Polling at a scale
15sec
SNMP Polling in a
distributed way









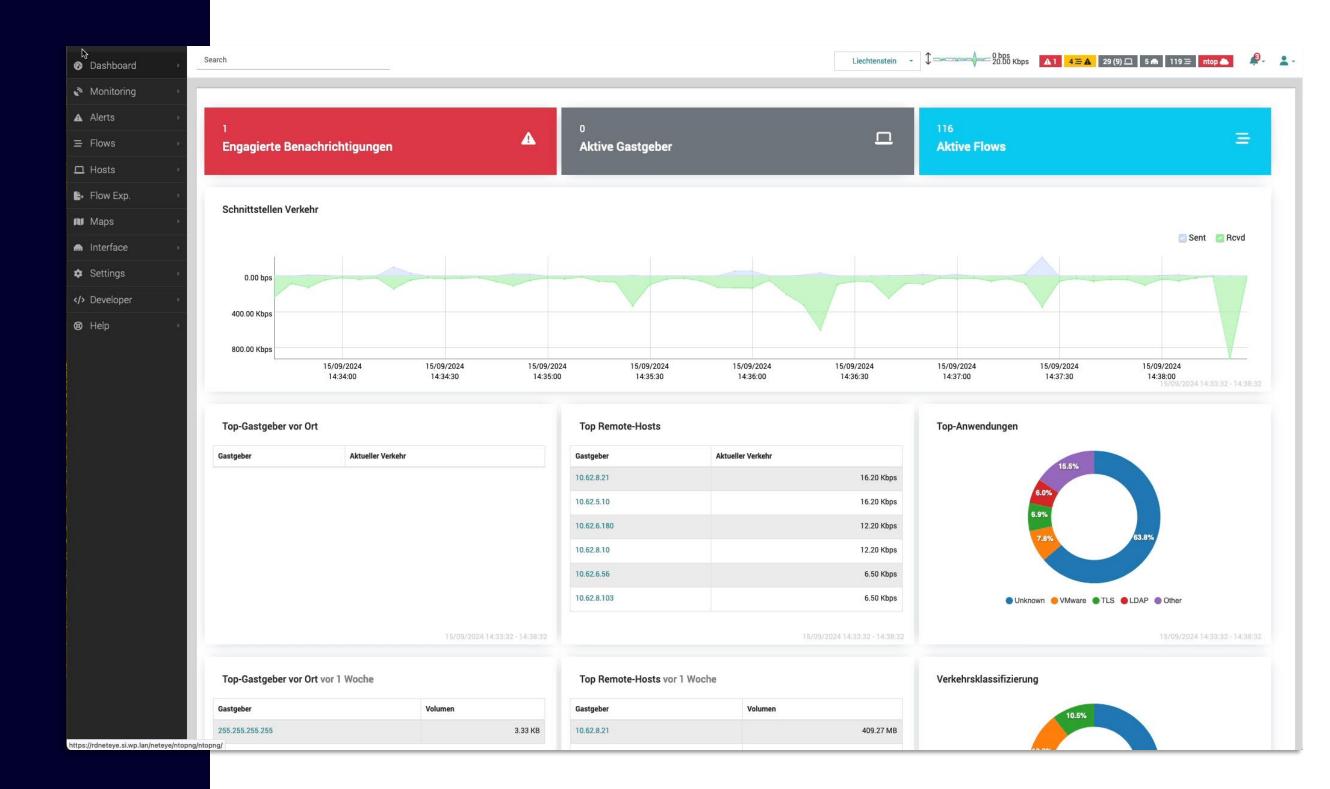




NTOPNG

Release 6.2

UX Improvemtns
Mitre Att&ck
Historical Flow
Replay
Periodic Reports
-60% Memory



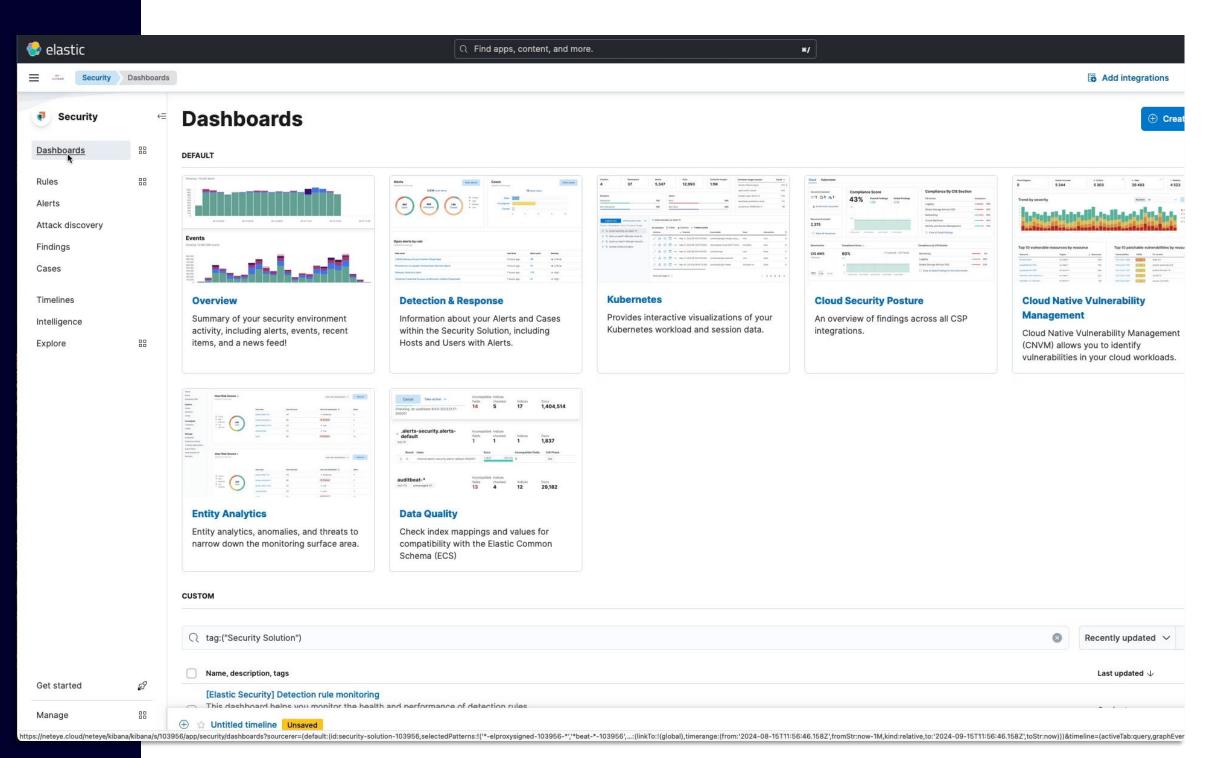




ELASTIC RELEASE 8.15

News

Dashboards
Detection Response
Entity Analysis
Data Quality ECS
Mitre Att&ck



https://demo.elastic.co/

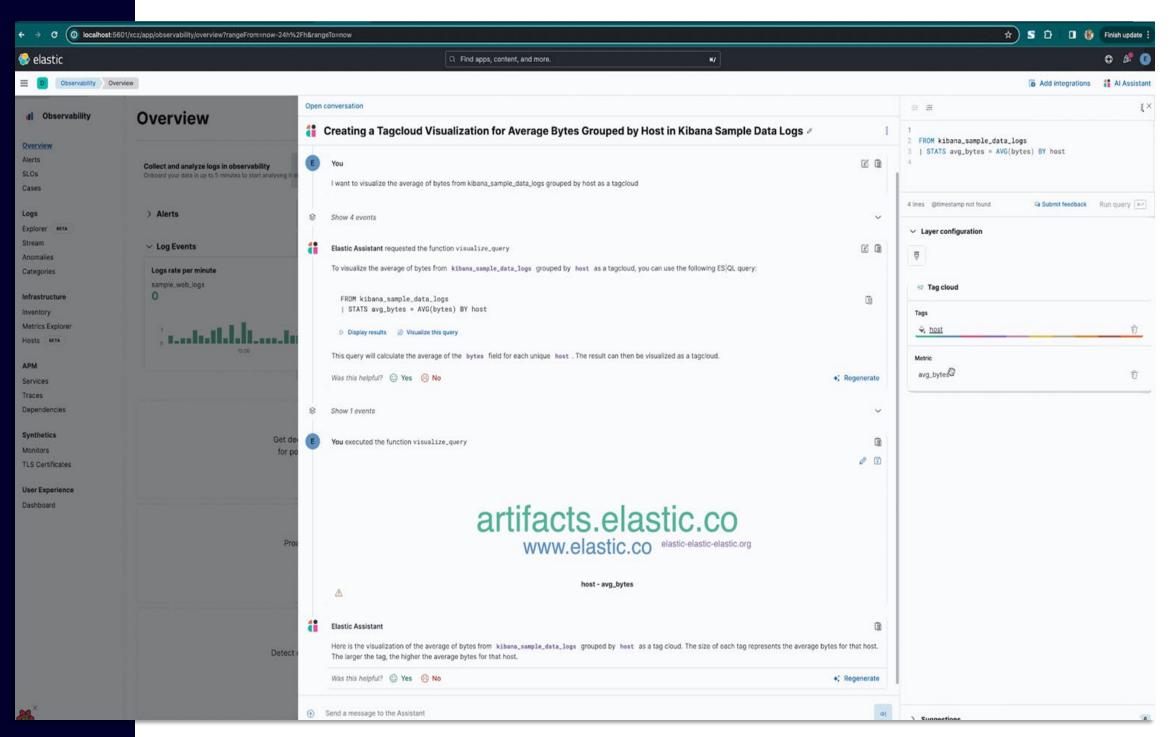




ELASTIC RELEASE 8.15

ES | QL - Security Observability Al assistant

Streamlining the workflow for users when using the Observability Al Assistant



https://demo.elastic.co/

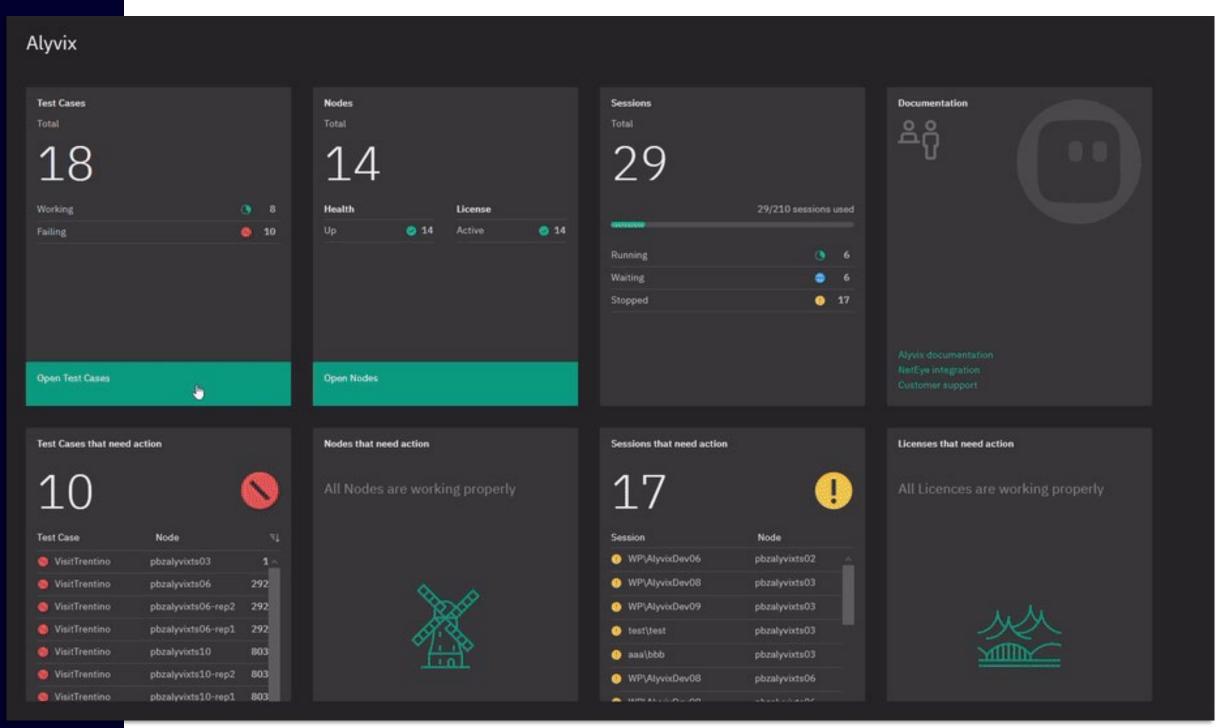




ALYVIX SYNTHETIC MONITORING

Quantify your user experience

Workflow Test case Run Bots Analyze - Insights Actions









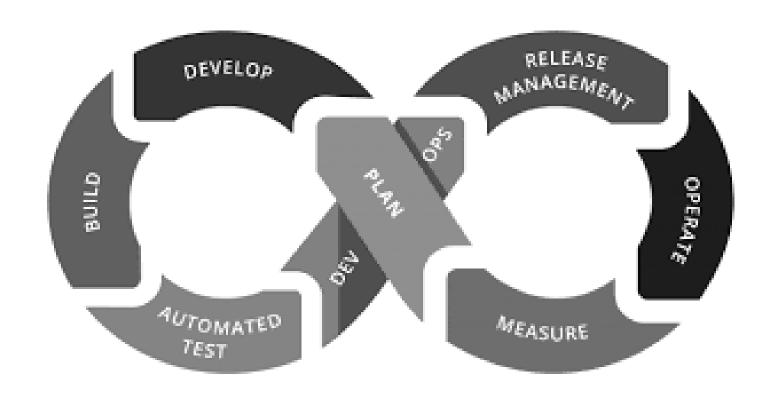


NETEYE

Outlook...

- Introduce two weeks Sprint Release for fast reaction
- Update Upgrade with Ansible without standby node
- Blockchain for SOC ADS GDPR
- OAUTH for all internal modules
- Move from PCS Cluster to Appl. Cluster, no DRBD
- RedHat OS 9
- Integration of all modules
- Tornado
 - Usability
 - Enrichments with Icinga Objects
- Security (external assessments, internal reviews, internal audits)

WITH DEVOPS ADOPTION



THANK YOU.

