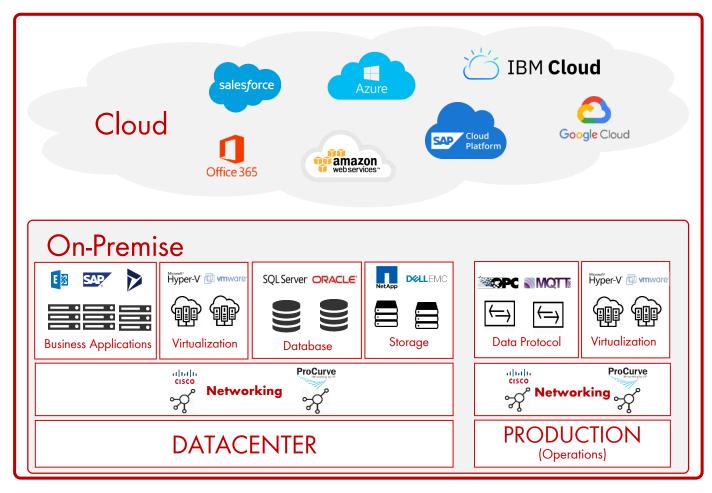




## IT becomes crucial for the business







**USER** 

**BUSINESS** 

**IT OPERATIONS** 





IT Infrastructure events must be addressed **at ever-increasing velocity** 

IT environments **exceeding**human scale

Cyber Security challenges: ransomware, phishing attacks, malware attacks, supply chain

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ITOpSOC

The amount of IT metrics that ITOps needs to check is increasing exponentially

Developers gain more influence on ITOps (DevOps) but the accountability still rests with the core IT

The amount of events and alerts
the SOC needs to keep monitored is
increasing





# IT Operations Analytics Security Operations Analytics

Method that allows to **gather various types of data** from an IT infrastructure and analyzes them to **recognize** patterns and behaviors.



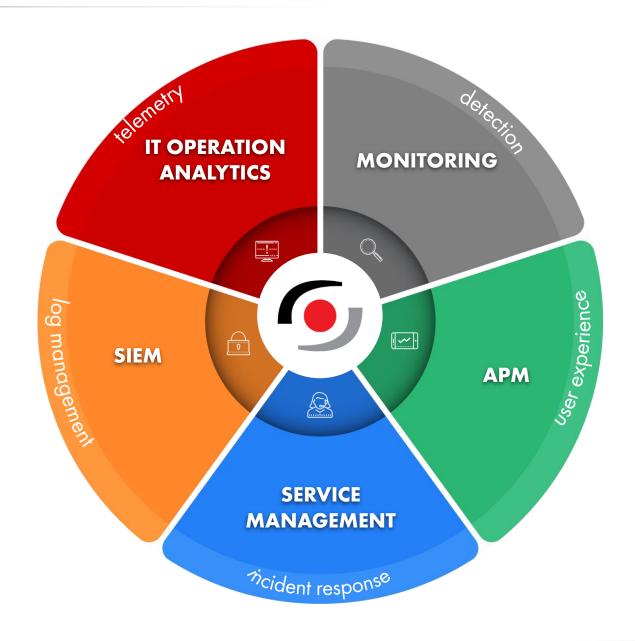




**NetEye** provides modules with the purpose of **gathering**, **processing**, **and analyzing** the full spectrum of IT operational data and **to guide decisions**, understand resource utilization and **predict** potential issues











### Monitoring

Check events to achieve overall health across your IT

#### **Detection**

- Uptime
- End to End
- Correlation
- Visual Synthetic Robot
- Server; Storage
- Network

#### **ITOA**

Observe metrics to identify potential resource saturation

#### **Telemetry**

- Performance
- Scalability
- Cost Management
- Trend Analysis
- Forecast
- Anomaly Detection

#### **APM**

Use trace data to get full application insights

#### Insights

- Identify bottlenecks
- Response time
- Incoming requests
- Queries Errors
- External http(s) request
- Real User Experience

### SIEM LOG

Collect overall log(s) to get full visibility of your IT

#### Visibility

- Event correlation
- Threat Detection
- Anomalies
- Behavior driven alarms

## Service Management

Be smart based on monitoring data to be pro active and automate remediation

# Continuous Improvement

- SLA
- Incident management
- Monitoring data to learn
- Pro Active
- Postmortem report

# NetEye Unified Integrated Approach







# NetEye



### Reliability

- ✓ RHEL8
- ✓ High Availability
- ✓ High Availability cross datacenter

### **Scalability**

- ✓ Distributed
- ✓ Scale out physical node
- ✓ Scale out virtual node

### Usability

- ✓ UX
- ✓ Carbon Design
- ✓ User Guide

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### **IMPROVEMENT**

### Security

- ✓ OWASP Application Security OSS
- ✓ DevSecOps CI/CD Burp Suite Enterprise
- ✓ Supply Chain signing RPM

### **Deployment**

- ✓ On Prem
- ✓ Cloud laaS
- ✓ Cloud SaaS
- ✓ Multi Tenancy

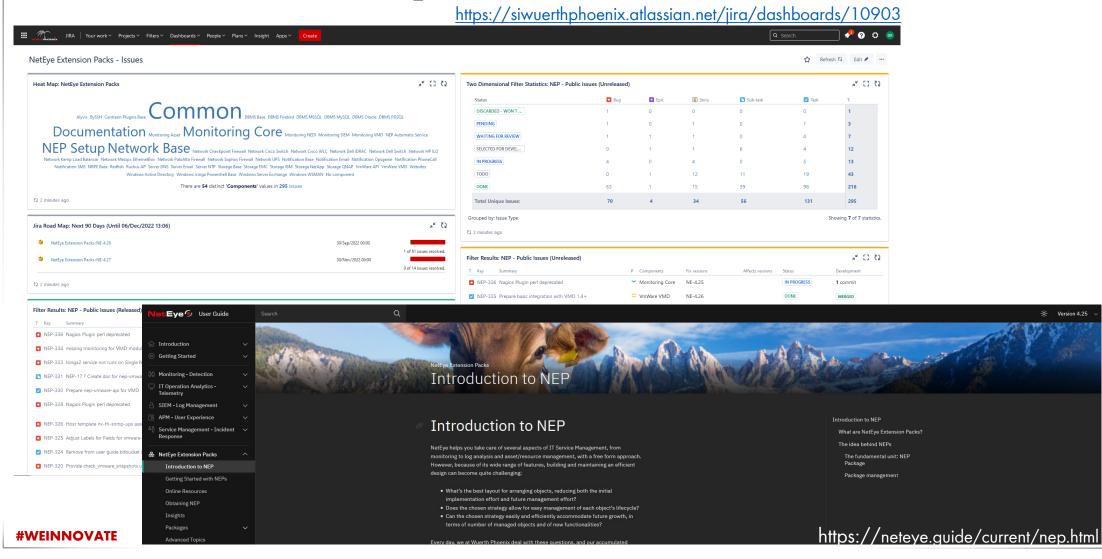
#### **Automation**

- ✓ NetEye Extension Pack
- ✓ Release Upgrade
- ✓ Ansible





# NetEye Extensions Pack







# **Cyber Security**

# OSINT

Discover the attack surface and keep it monitored over time.

#### Exposure assessment

- Monitor the exposed attack surface
- Cyber Threat Intelligence Dark Web
- Collect Indicator of compromise

# SIEM - LOG

Collect overall log(s) to get full visibility of your IT

#### Visibility

- Event correlation
- Threat Detection
- Anomalies
- Behavior driven alarms







#### LOGS

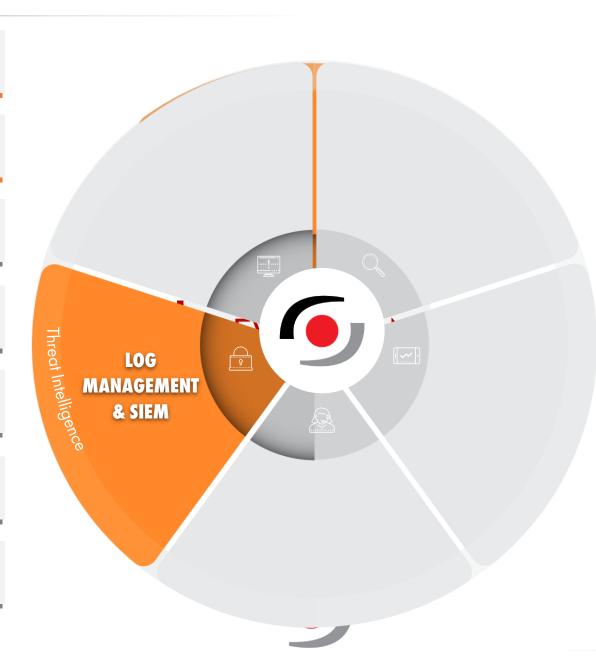
#### FLOWS - EDR

social petwork

exposed buckets

subdomains takeover

loC



loPC

ransomware gangs sites

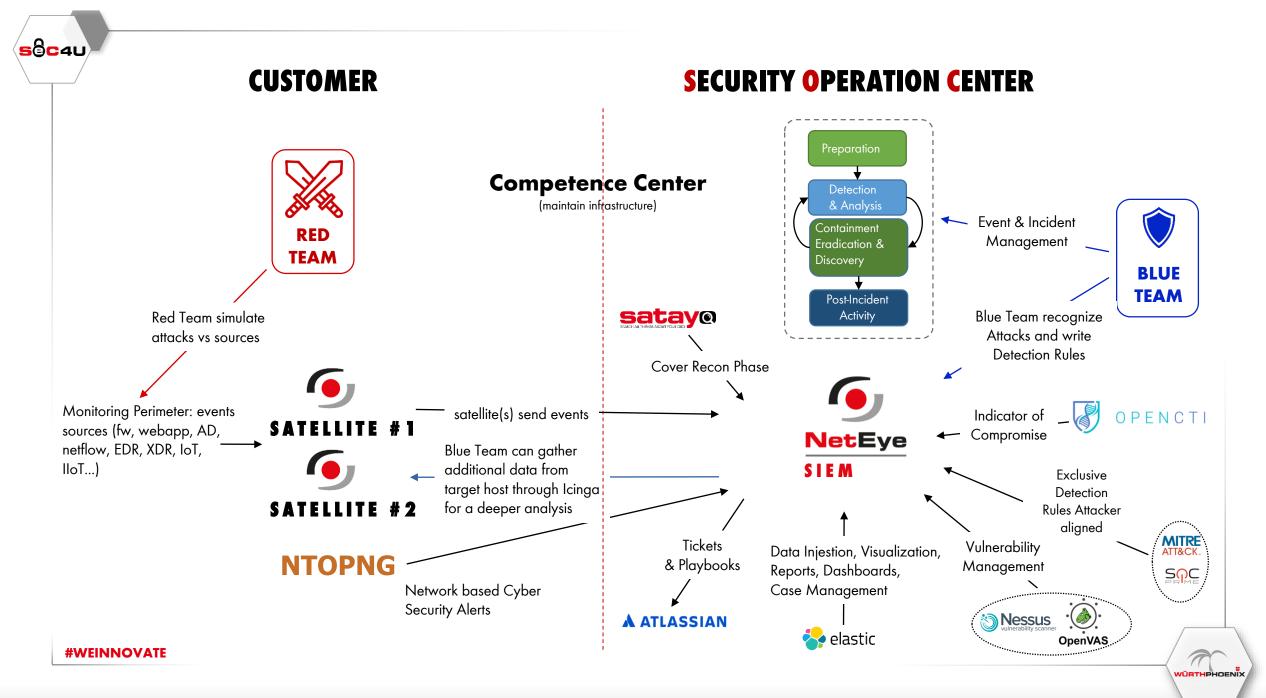
vulperabilities sin a domains

BLUE DEGLOOPK
forums

Telegram groups & channels

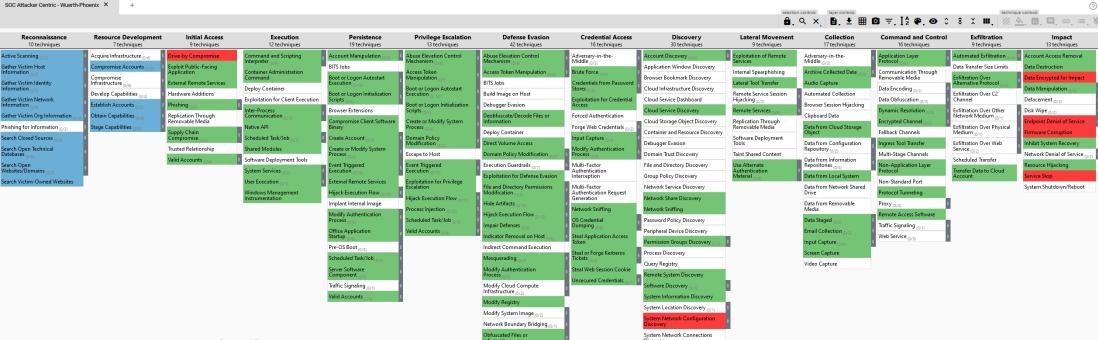
data breaches







SOC Attacker Centric - Wuerth-Phoenix X **Initial Access** Execution Privilege Escalation Defense Evasion **Credential Access** 



Plist File Modification

Virtualization/Sandbox Weaken Encryption

# MITRE ATT&CK MATRIX FOR ENTERPRISE COVERAGE

Pre-OS Boot System Service Discovery System Time Discovery Reflective Code Loading Virtualization/Sandbox Rogue Domain Controller Rootkit vstem Binary Proxy System Script Proxy Execution // Template Injection Traffic Signaling rusted Developer Utilities Proxy Unused/Unsupported Cloud







# Conclusions



Don't build a black box, make the tool interactive

Start with less factors and gradually increase the complexity

Data-driven mindset is as important as data

Feature engineering is as important as model training

Data quality

Prediction is important, so is the explanation

# Data is **gold**

Differentiate real-time and non-real-time analytics

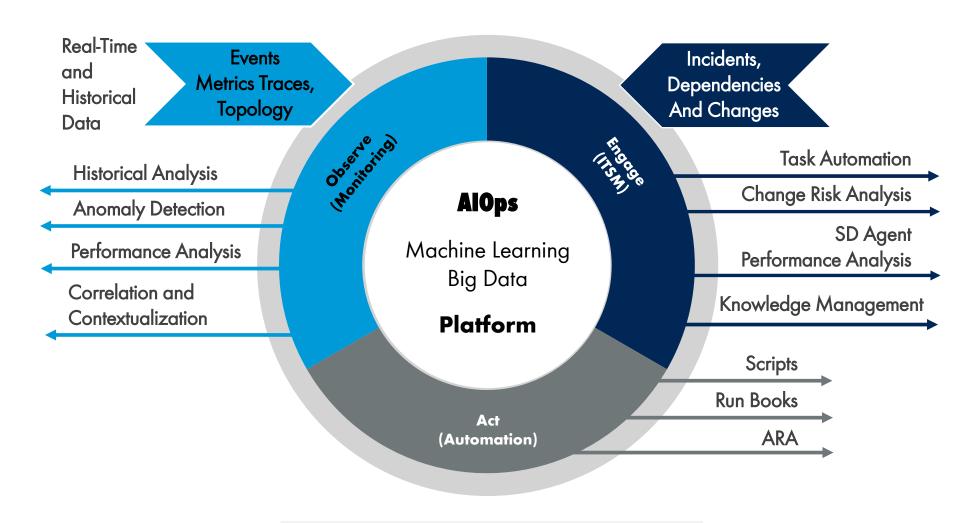
Human experience still matters to look at the right metrics

Human experience needs to be codified





### AIOps Platform Enabling Continuous Insights Across IT Operations Monitoring (ITOM)



Recommended by Gartner



















