



SecDevOps - Best Practices für Security und DevOps am Beispiel eines IAM Managed Services

08.10.2019 – Heiko Hütter



Identity and Access Management as a Service

Building a Scalable Platform

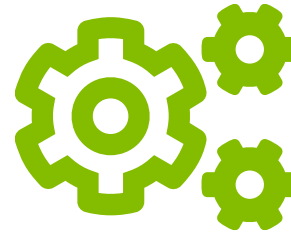
1.



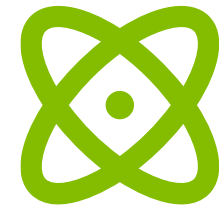
2.



3.



4.



Best of Breed Product

Infrastructure as Code

Configuration as Code

100% Automation



Customers Using Service Layers

High Customer Satisfaction in All Areas of IAM



DAIMLER



SIEMENS



STIHL®

Service Layers is Ready for Production

Best of Breed Tools and Frameworks Ensuring Operational Readiness

BUILD



Docker



Giant Swarm



Gitlab



Helm



OpenShift



Kaniko



Kubernetes



Nexus



Selenium



Swagger

TOOLSET



Elasticsearch



Kibana



Crunchy Data



PagerDuty



PostgreSQL



Prometheus



Status Cake



Grafana

SECURITY



Penetration
Testing



Snyk.io



NeuVector



Mozilla
SOPS

CERTIFICATIONS



DIN EN ISO/IEC
9001:2015



DIN EN ISO/IEC
27001:2017



AICPA SOC II
IN PROGRESS



TISAX
IN PROGRESS

Different Perspectives



Dev



Sec



Ops

Different Perspectives



Dev



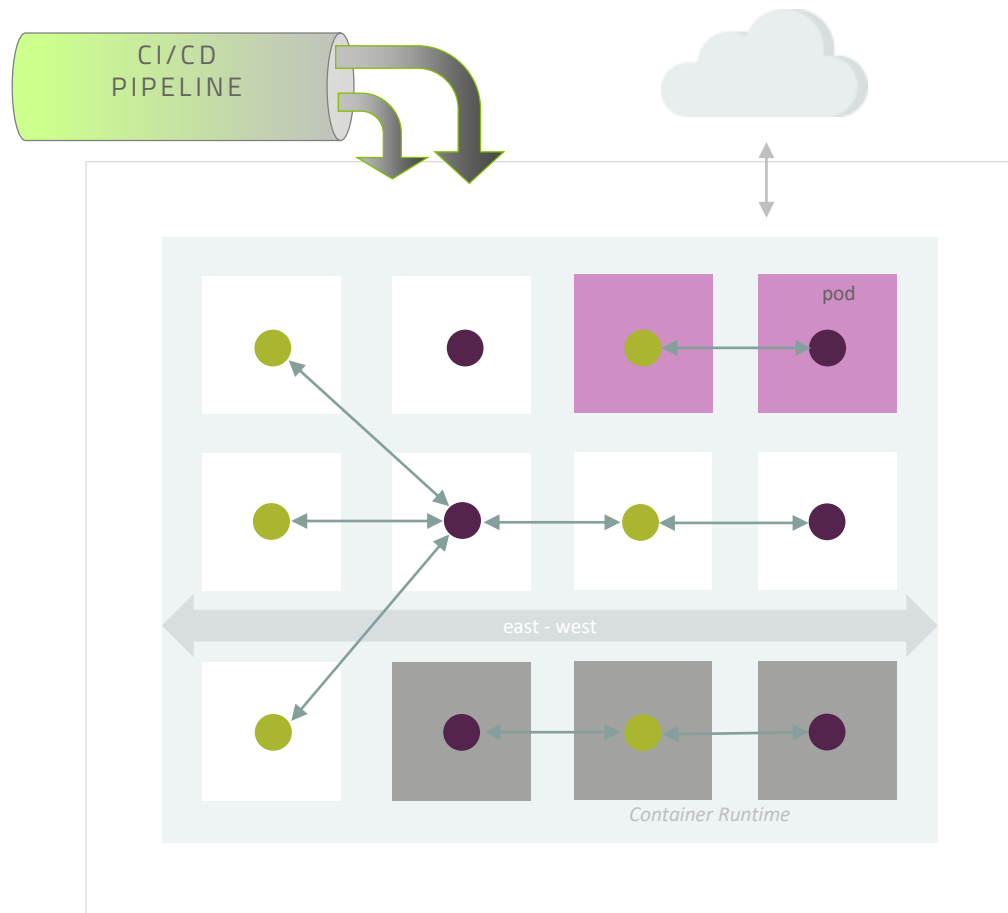
Sec

Shared
Responsibility



Ops

Security Challenges in the Cloud Native World



K8S WORKER NODES



- Hyper Scale
- East-West Traffic Explosion
- Low Visibility
- Open Source Vulnerabilities
- Sophisticated Insider Attacks



Automated Security

Integrated into CI/CD Pipeline **and** Run-Time Environment

Security in DevOps is Security in IT



Static Code Analysis



Mozilla
SOPS

Secret Management



Open Policy Agent

RBAC / SoD

kiam



Dependency Scanning



SIEM Integration



NeuVector



NeuVector

OS / Image Scanning



NeuVector

CIS Benchmarking /
Hardening

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Die IT-Security Messe und Kongress

The IT Security Expo and Congress

