„one portal to rule them all“

Simplify and accelerate IT service delivery with automation

COP by Telekom Security – 15.01.26

Heinz Stampfli, Productowner,
Telekom Security

Mehrdad Varzandeh, Pojectmanager,
T-Systems Schweiz AG

Agenda

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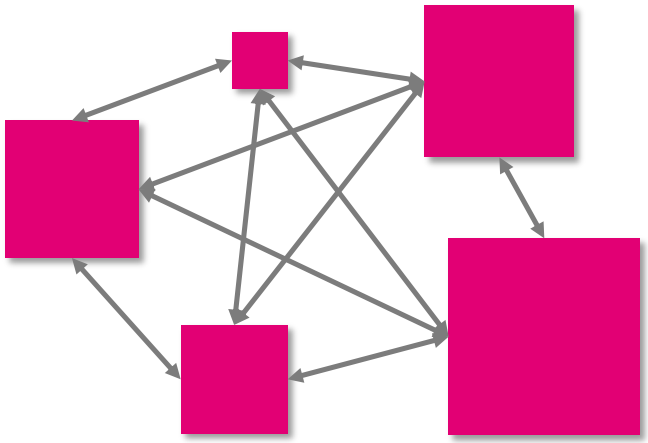
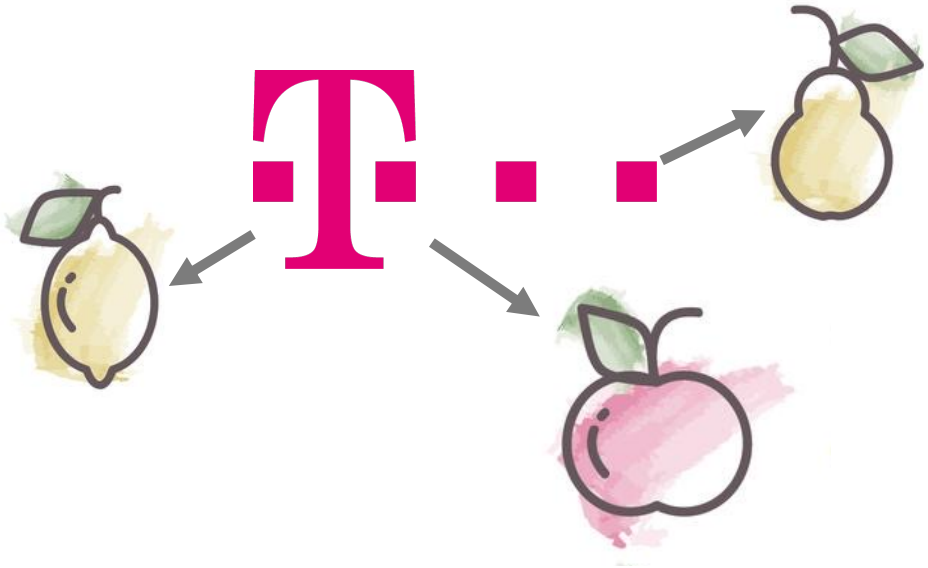
Our vision started in 2017…

Application & Communication visibility and documentation



One Portal for our Customers to manage their Firewalls in a multi vendor and multi supplier environment



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Why listen to us?

Heinz Stampfli, Deutsche Telekom Global Business & Security Schweiz AG

- 30 years experience in Network and Security
- Infrastructure Security @ Telekom Security
- Productowner: COP FWaaS

Mehrdad Varzandeh, T-Systems Schweiz AG

- 20 years experience in Project Management
- Customer Success & Project Management @ T-Systems Schweiz AG

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COP - Network Security Policy Management

Typical Challenges

- Continuous adjustment of configuration objects
- Stakeholder approval management
- Audit-proof documentation of changes
- Time-consuming risk assessment and technical verification of requests

The Solution

A **central platform** for managing infrastructure and network components across the entire company, **independent** of firewall products.

Requests are prepared based on topology, risks, zones, and approvals, then implemented **automatically** or sent to partners for manual execution. Automated changes use **microservices** for product APIs.

Your Benefits

1. Centralized control
2. Vendor-independent
3. Minimization of workload

- Automated order validation (e.g., topology)
- Security risk and compliance policies
- Approval, risk-based, and customer-specific workflows
- Automated implementation and manual task assignment
- Application visualization and Documetation

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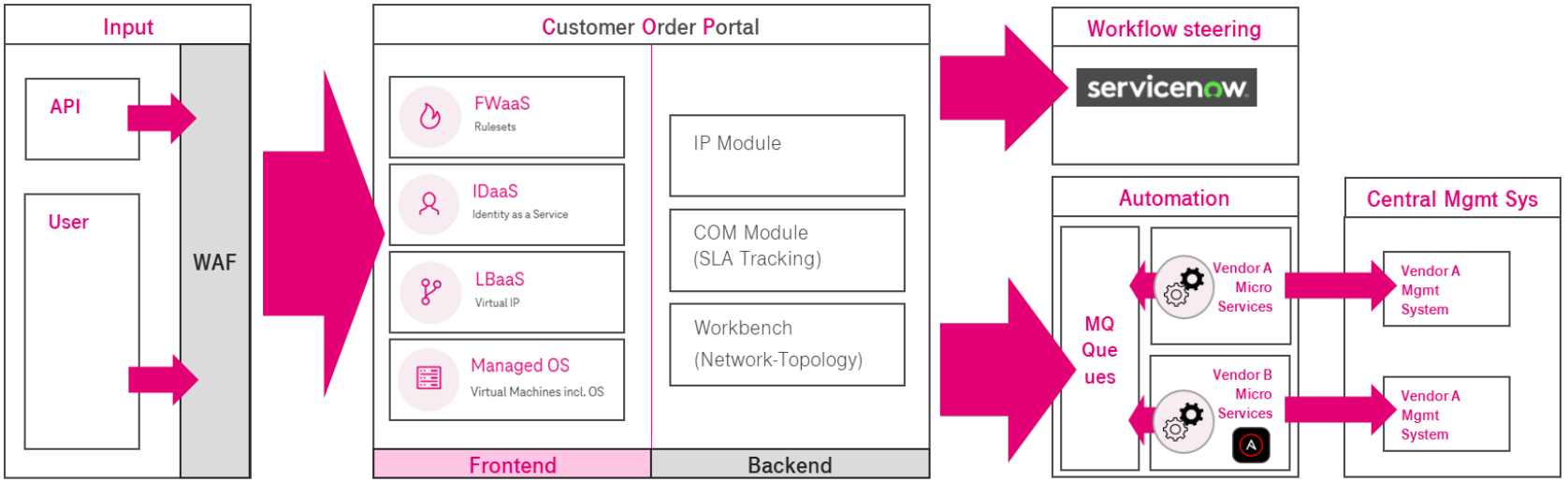
Our Solution - modularized & containerized



Rule Documentation

Rule Lifecycle Review

Self Defined Security Risks

Traffic Query

Approvals

- Application owner
- Zone owner
- 4 Eyes Principle

Use Cases Workflows

- add_ruleset
- edit_ruleset
- delete_ruleset
- verification_ruleset

Red Hat

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Architecture of the COP Portal

Key Components

- COP Webinterface: Central user interface for managing automation tasks and request
- Workbench: Network topology calculation tool.
- MicroServices: Specialized services for automation and API integration with individual products.
- API: Interface for integrating external systems and automating processes.

Automation Components

- In/Out Queues: Controls data flow between modules.
- Vendor specific Workers based on Ansible
  - Checkpoint
  - Fortinet
  - Palo Alto
  - Versa
  - HP Aruba
  - pfSense
  - OPNsense
- Mail Server.

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Benefits for your organisation

- Utilize firewalls-as-a-service (FWaaS) capabilities to automate firewall rule deployment and lifecycle management.
- Self-service provisioning of VMs and databases.
- Enable employees to self-manage their identities and groups via integration with ActiveDirectory (AD) or Lightweight Directory Access Protocol (LDAP) systems.
- Deploy load balancer-as-service (LBaaS) to standardize and streamline service delivery by automating the creation of load balancer VIPs.
- Access security compliance reporting and topology visualization.

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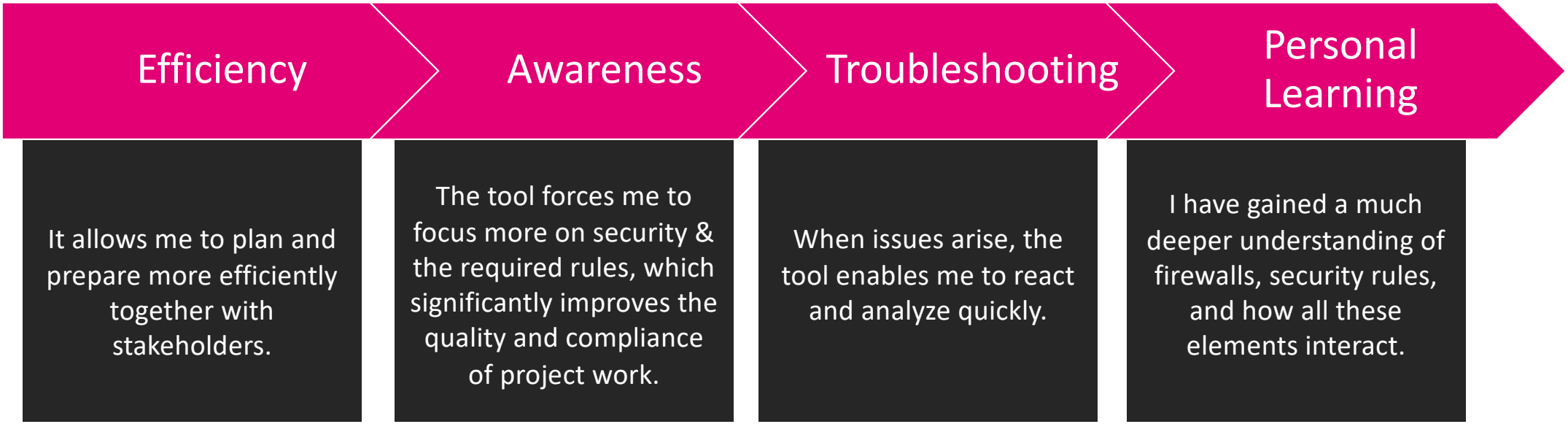
The Projectmanager’s view

- Initially, I was skeptical about using such a tool as project manager!
- After working with COP in several migration projects, my perspective changed completely.
- Today, I genuinely appreciate and enjoy using the tool.



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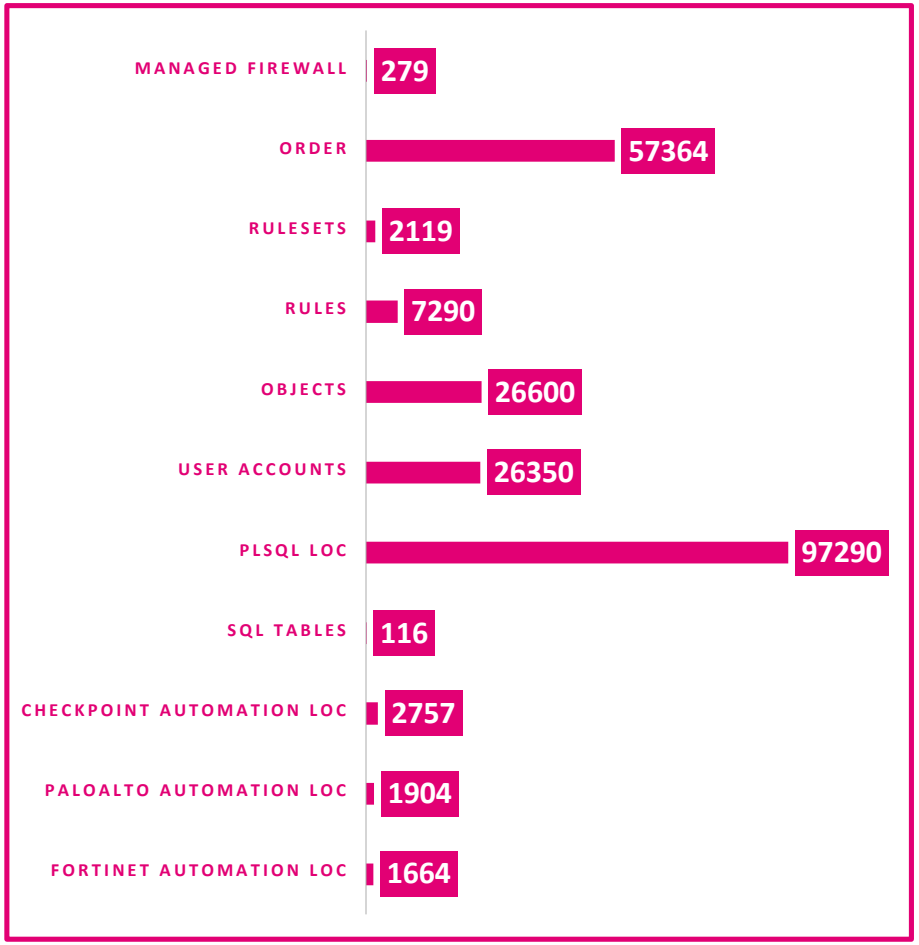
Some Facts & Figures



USED TECHNOLOGIES

elasticsearch

ORACLE DATABASE

ORACLE APPLICATION EXPRESS

RabbitMQ

MariaDB

podman

python

ANSIBLE

Grafana

servicenow

SUPPORTED VENDORS & TOOLS

CHECK POINT

paloalto NETWORKS

FORTINET

tcm

Open Telekom Cloud

pfsense

OPNsense

Service Manager hp

VERSA

HPE aruba networking

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Thank you very much!

Mehr Infos?
Einfach hier entlang!