Security Automation with Check Point and Smart Console Management

Presented by Kamil Kolodziejski

Agenda

- Challenges Presented
- Automation Benefits with Architecture Deployments
- Automation Benefits with Check Point Resources
- Maintenance and Management after Implementation
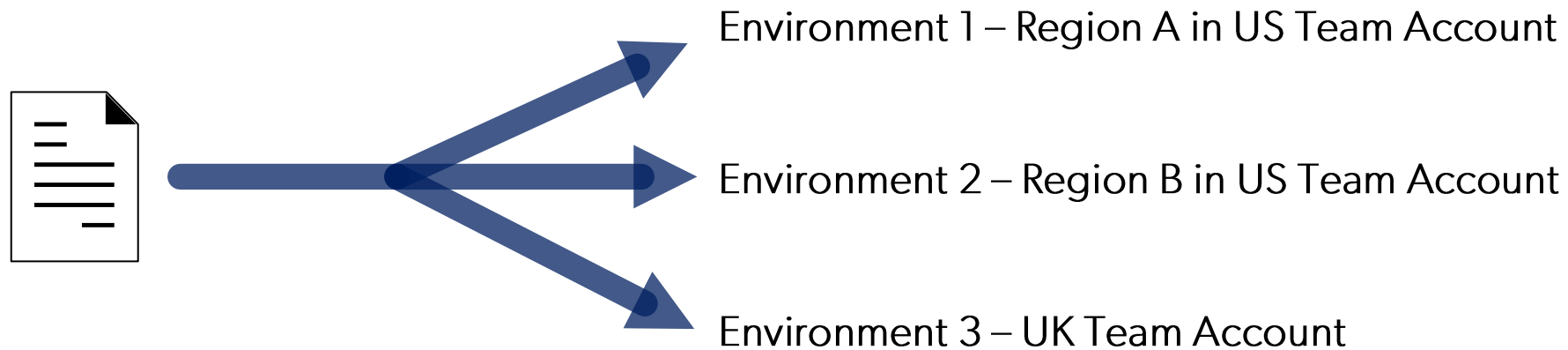
VILLA
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Automation Benefits with Architecture Deployments

- Create the template once and replicate
- Development, Stage, and Production variables
- Maintain architecture changes with code

STRUCTURA.IO

Check Point®
SOFTWARE TECHNOLOGIES LTD

Terraform

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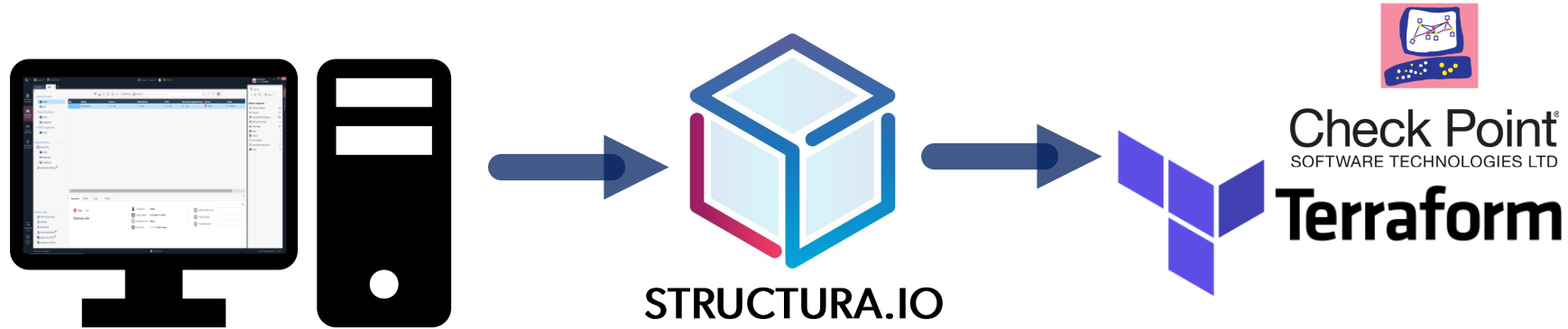
Automation Benefits with Architecture Deployments

- Architecture template that can be replicated for multiple different environments and accounts

Environment 1 – Region A in US Team Account

Environment 2 – Region B in US Team Account

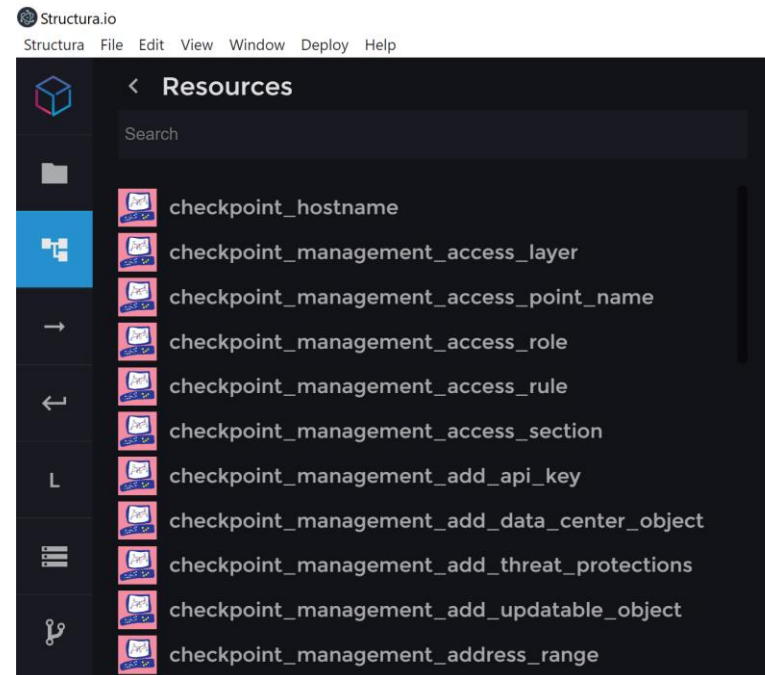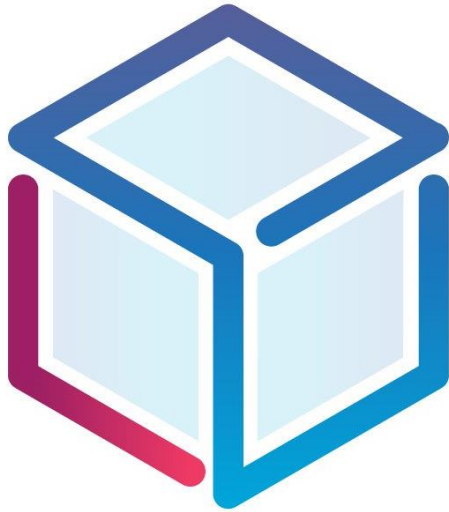Environment 3 – UK Team Account

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Automation Benefits with Architecture Deployments

- Creating separate variables for Development, Stage, and Production deployments
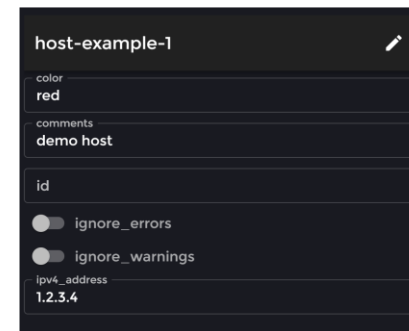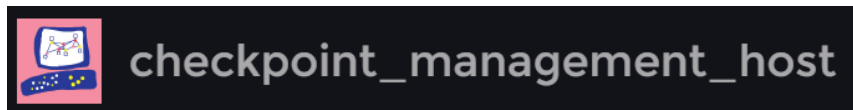- Infrastructure as Code
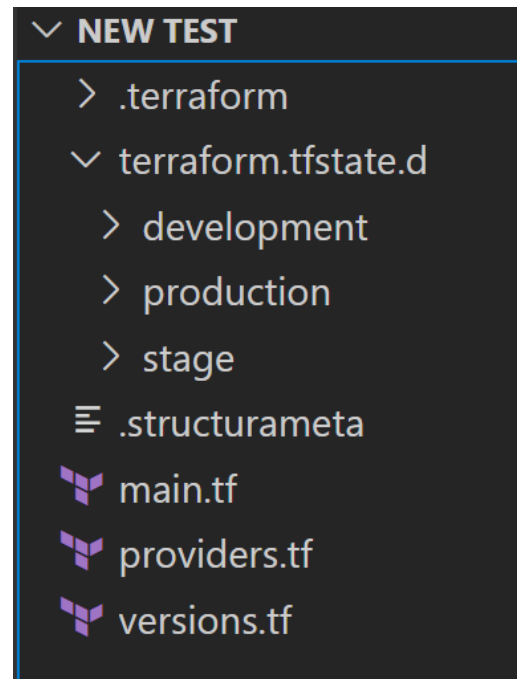
Automation Benefits with Check Point Resources

- Creation of large number of hosts, network groups and other objects
- Migration of policy rules

Automation Benefits

- Source/Version control (for versioning, history, potential rollbacks)
- Monitoring configurations (drift detection)

DEMO EXAMPLE

Unified Policy Creation

No.	Name	Source	Destination	VPN	Services & Applications	Content	Action
1	Outbound Access	🌐 production_net	☁ Internet	✳ Any	✳ Any	✳ Any	🟢 Accept
2	Social Media for Marketing	▦ Marketing Role	☁ Internet	✳ Any	🔗 LinkedIn 🐦 Twitter 📷 Instagram	✳ Any	🟢 Accept
3	Access Sensitive Servers	✳ Any	✳ Any	✳ Any	✳ Any	✳ Any	🟢 Accept
4	Developer Access	▦ Developer Role	☁ Internet	✳ Any	🅱 Box 📦 Dropbox	⬍ Any Direction ⚠ Source Cod...	🟢 Accept
5	Mobile Access	▦ Mobile Devices	🖥 MailUS	✳ Any	📧 Gmail	✳ Any	🟢 Accept
6	Access to Web Server	✳ Any	🖥 Web Server	✳ Any	🌍 http 🌍 https	✳ Any	🟢 Accept
7	Cleanup rule	✳ Any	✳ Any	✳ Any	✳ Any	✳ Any	🔴 Drop

Automation Benefits with Check Point Resources

- Utilization of Check Point Management API
- Checking whether rules or objects exist
- Maintaining MDS environment Globally
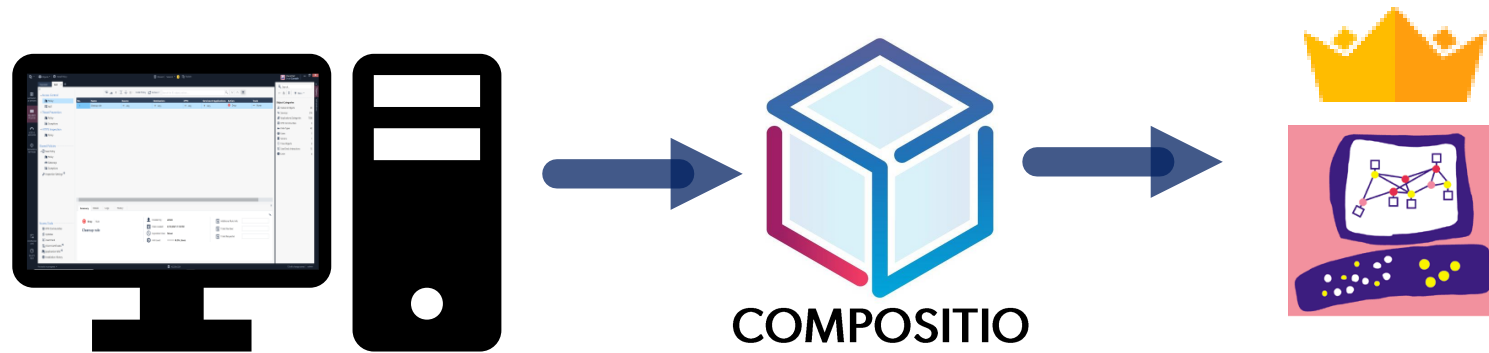
COMPOSITIO

Submit a Request for Firewall Changes or Managing Objects

Compositio

✓ Contact Information	✓ demo	③ Create Request

#	Sources	Destinations	Services	Notes

⊕ REQUEST RULE CHANGE

Manage Objects   [HOST ▾]

Create, modify or remove objects from Check Point

Network Form

Name *
net-demo

CIDR Block *
192.168.5.0/22

⚠ Suggested CIDR Block   [UPDATE]
192.168.4.0/22

Subnet Mask: 255.255.252.0
Supports addresses 192.168.4.1 to 192.168.7.254

Comments

[CANCEL] [SUBMIT]

Assistance on creating objects such as Network Subnets

Submit Change Requests for Approval

Service Desk ID	Configuration Item	Issuer	Last Updated	Status
e08cfda0-dfdb-43f3-b651-eac7bb6469c0	demo	Kamil Kolodziejski	a minute ago	🟡 In Review
3edaccd6-7530-49e4-8427-635093b6abf4	demo	Kamil Kolodziejski	a day ago	🟡 In Review
958800cc-5543-469a-92f6-af5e9ba745cb	test	Kamil Kolodziejski	2 days ago	🟡 In Review

Change Request Approval with Live Feed from Management

DEMO EXAMPLE

Thank you for watching!

Demos or any questions?
demo@structura.io

Check us out at villa-tech.com and Structura.io!