S|H|E Immer eine IT voraus.

Cloud, aber sicher!

Security-Herausforderungen in hybriden Szenarien meistern

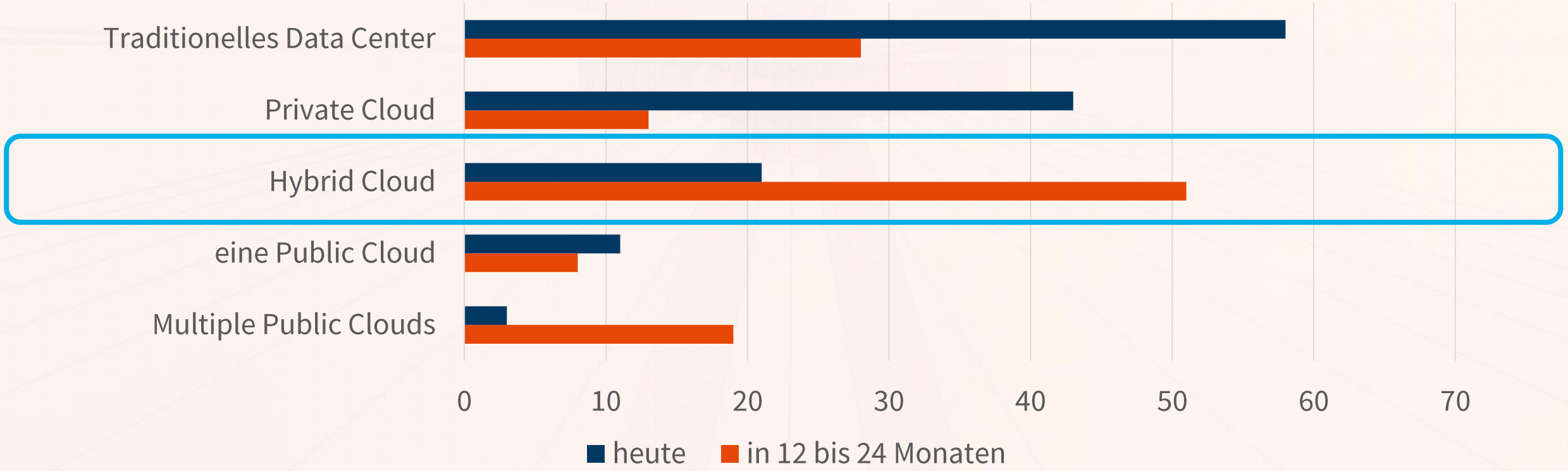
it-sa 2019, 09.10.2019

Marc Buchmann
Leiter Delivery

www.she.net

© SHE Informationstechnologie AG 2019

Workloads in Deutschland



Angaben in Prozent, Mehrfachnennungen möglich, Quelle: Vanson Bourne / Nutanix

© SHE Informationstechnologie AG 2019

Das Management von Hybrid Clouds wird zur Standardaufgabe für die IT

Marc Buchmann
Leiter Delivery

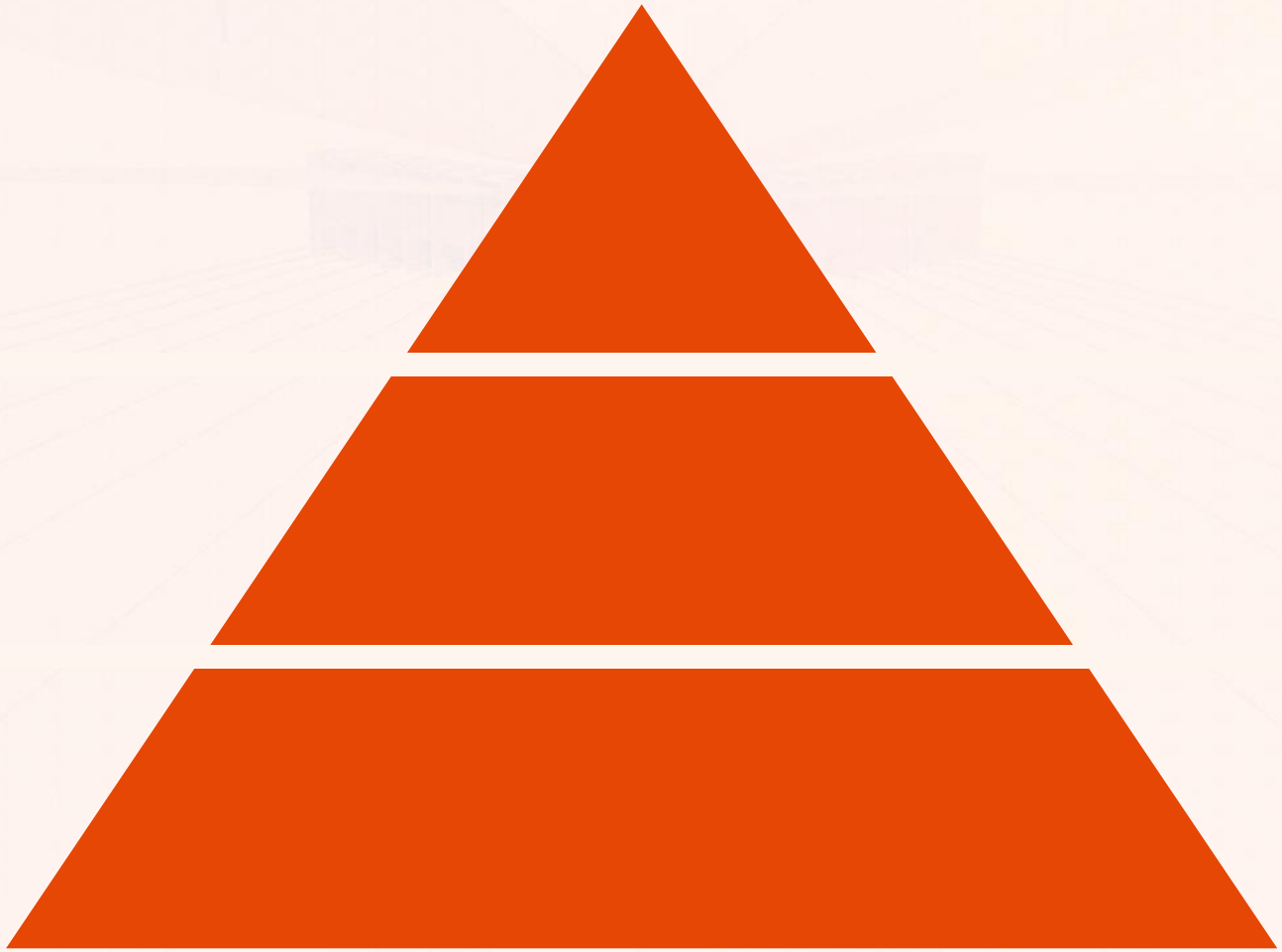
© SHE Informationstechnologie AG 2019

Das Management von Security in Hybrid Clouds wird zur Standardaufgabe für die IT

Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

IT-Security in Hybrid-Cloud-Umgebungen



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

IT-Security in Hybrid-Cloud-Umgebungen

Marc Buchmann
Leiter Delivery

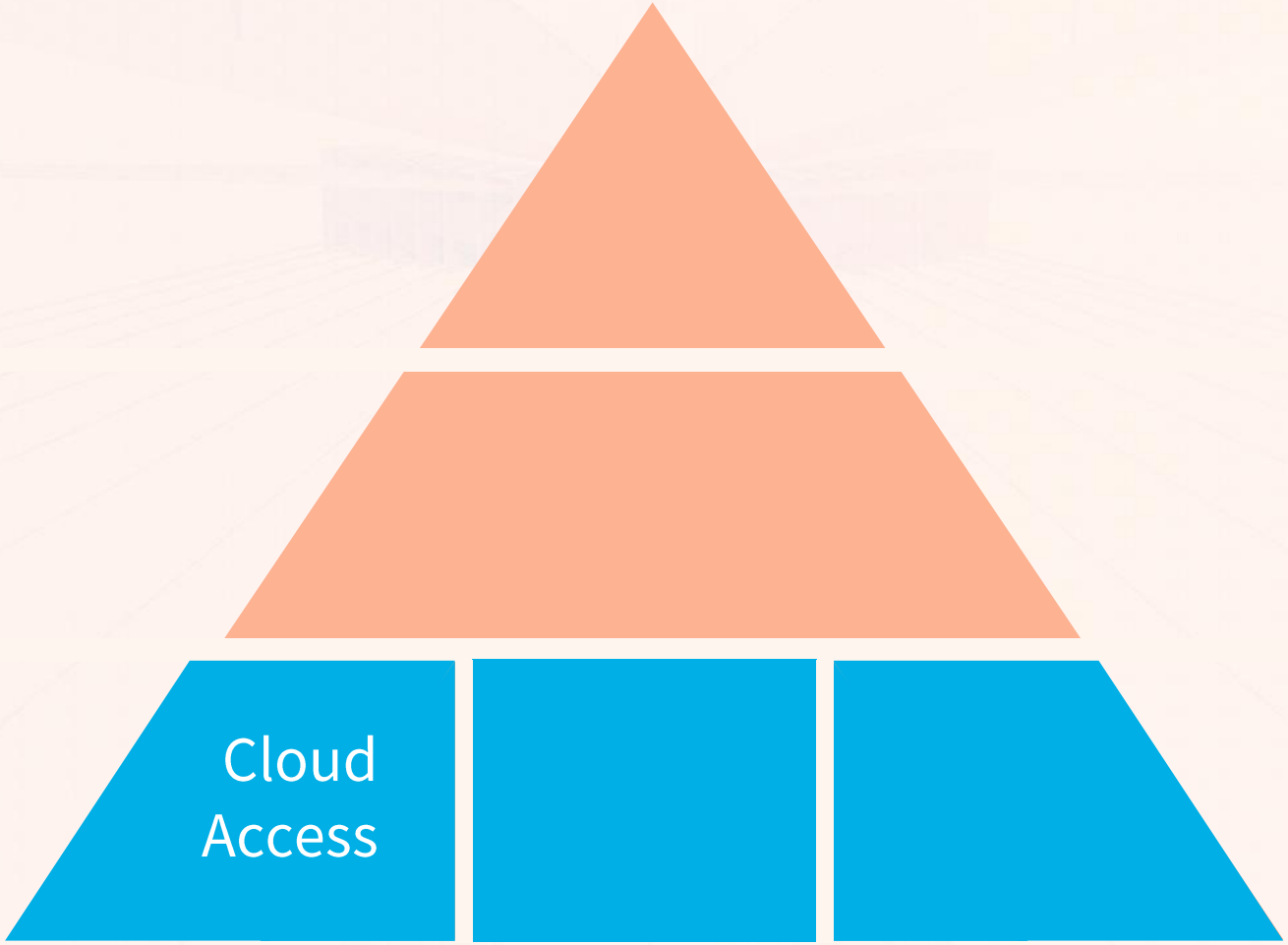
© SHE Informationstechnologie AG 2019

IT-Security in Hybrid-Cloud-Umgebungen

Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

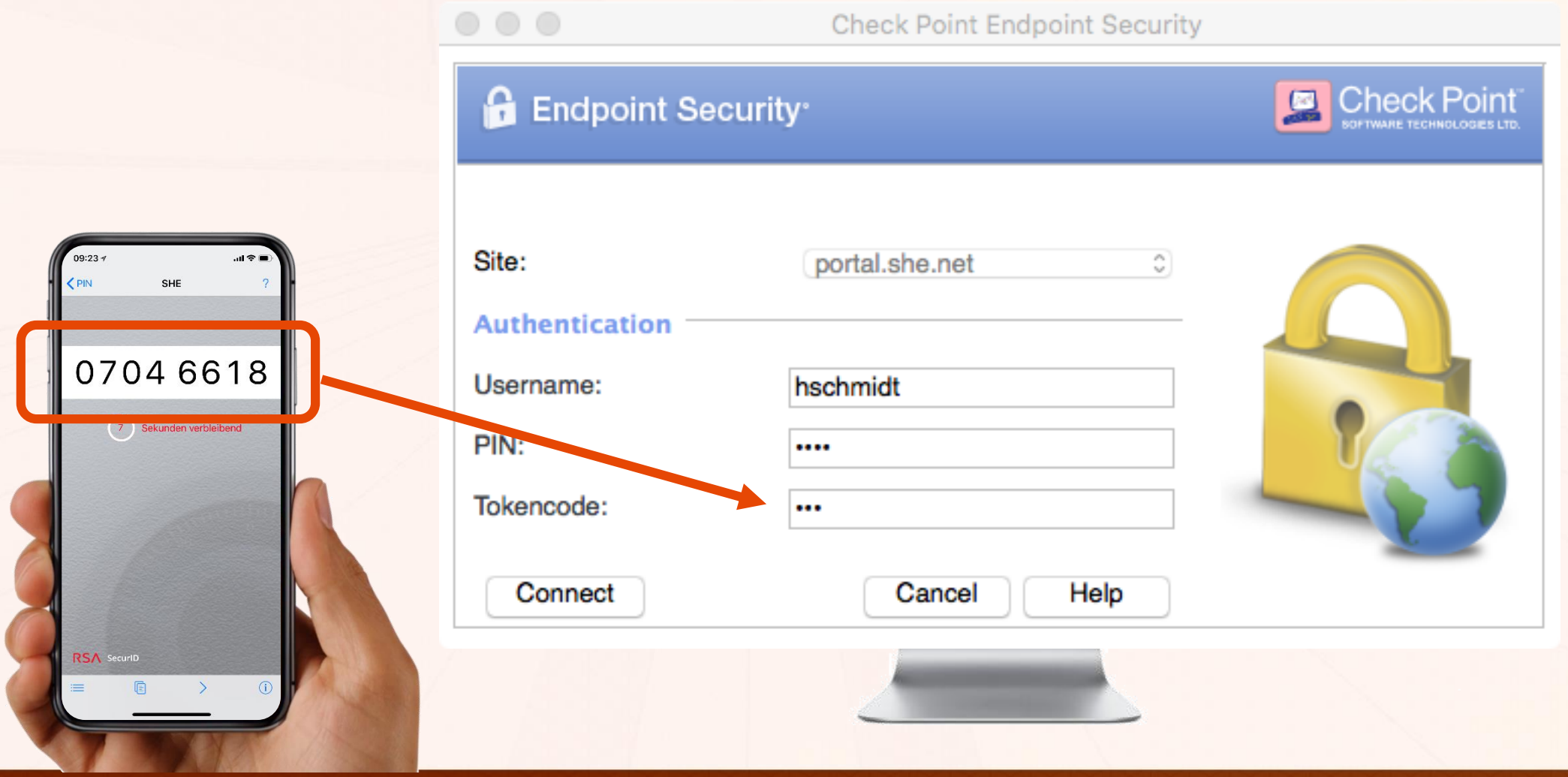
Analogien zur klassischen Welt



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

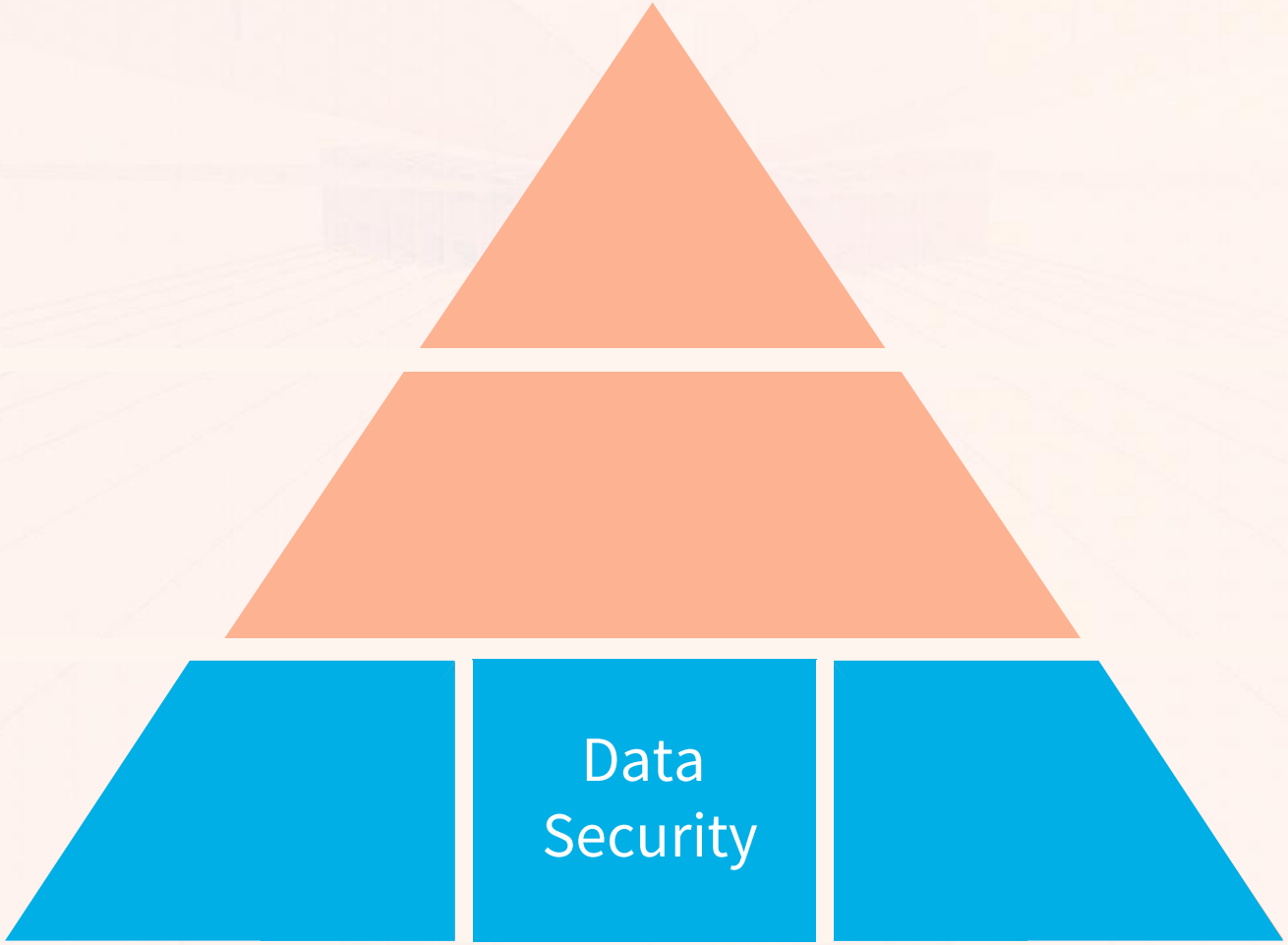
2-Faktor-Authentifizierung



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

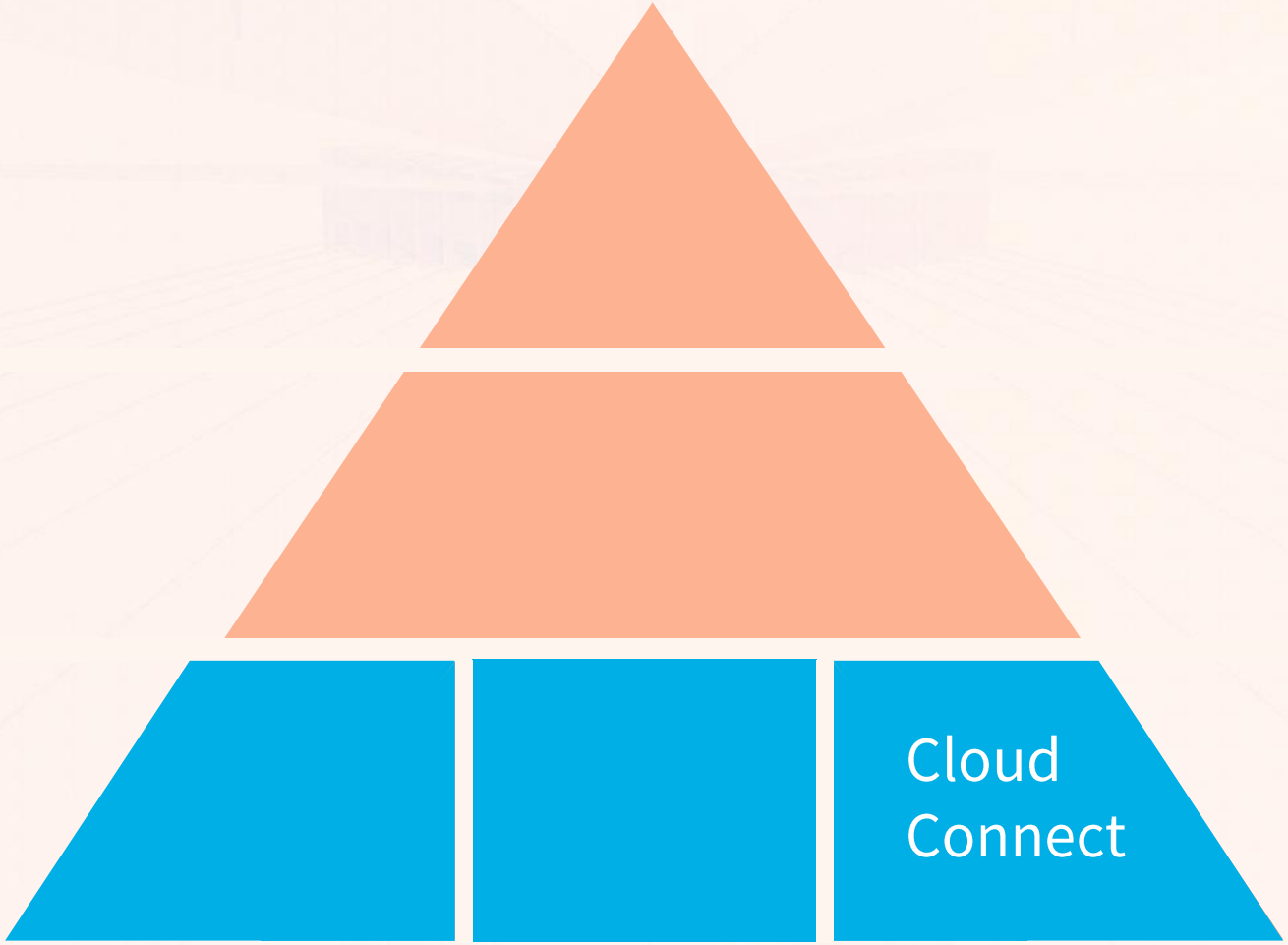
Analogien zur klassischen Welt



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

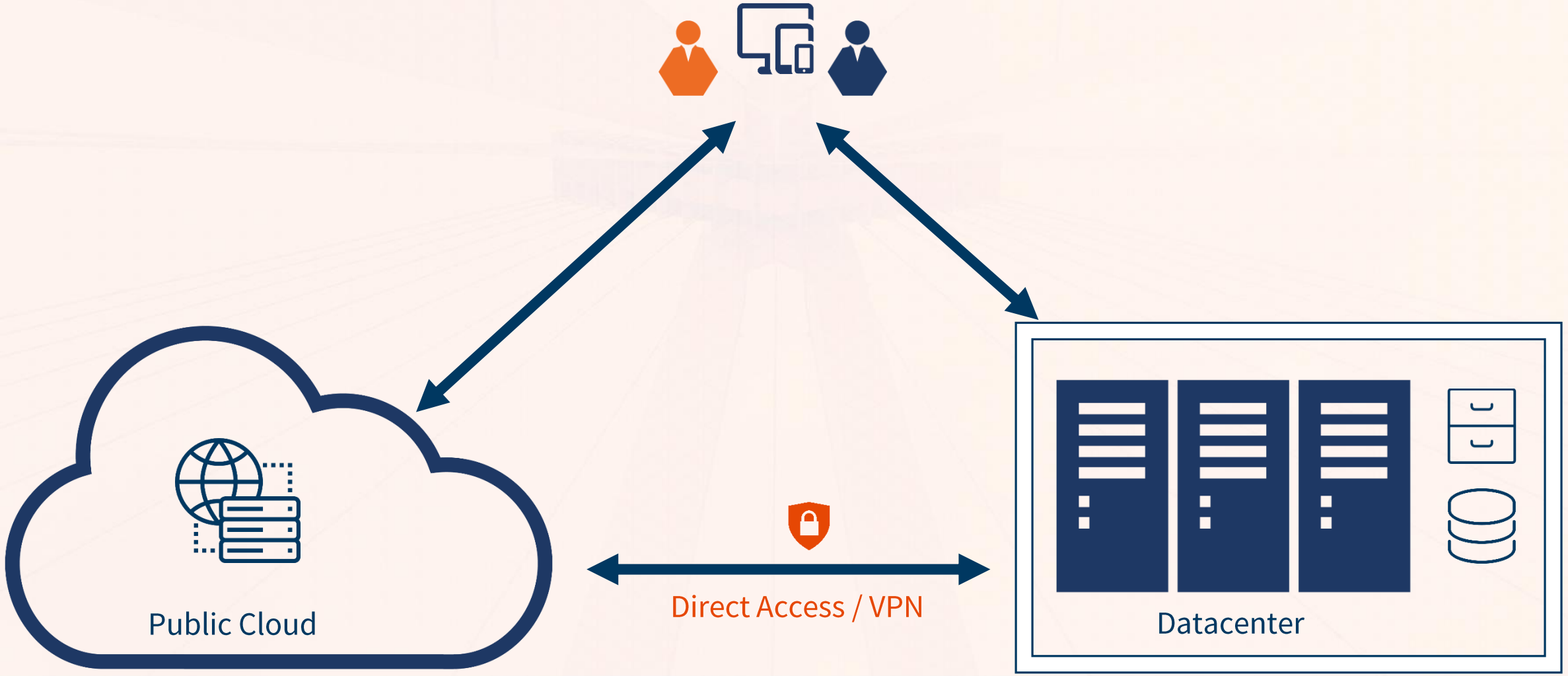
Analogien zur klassischen Welt



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

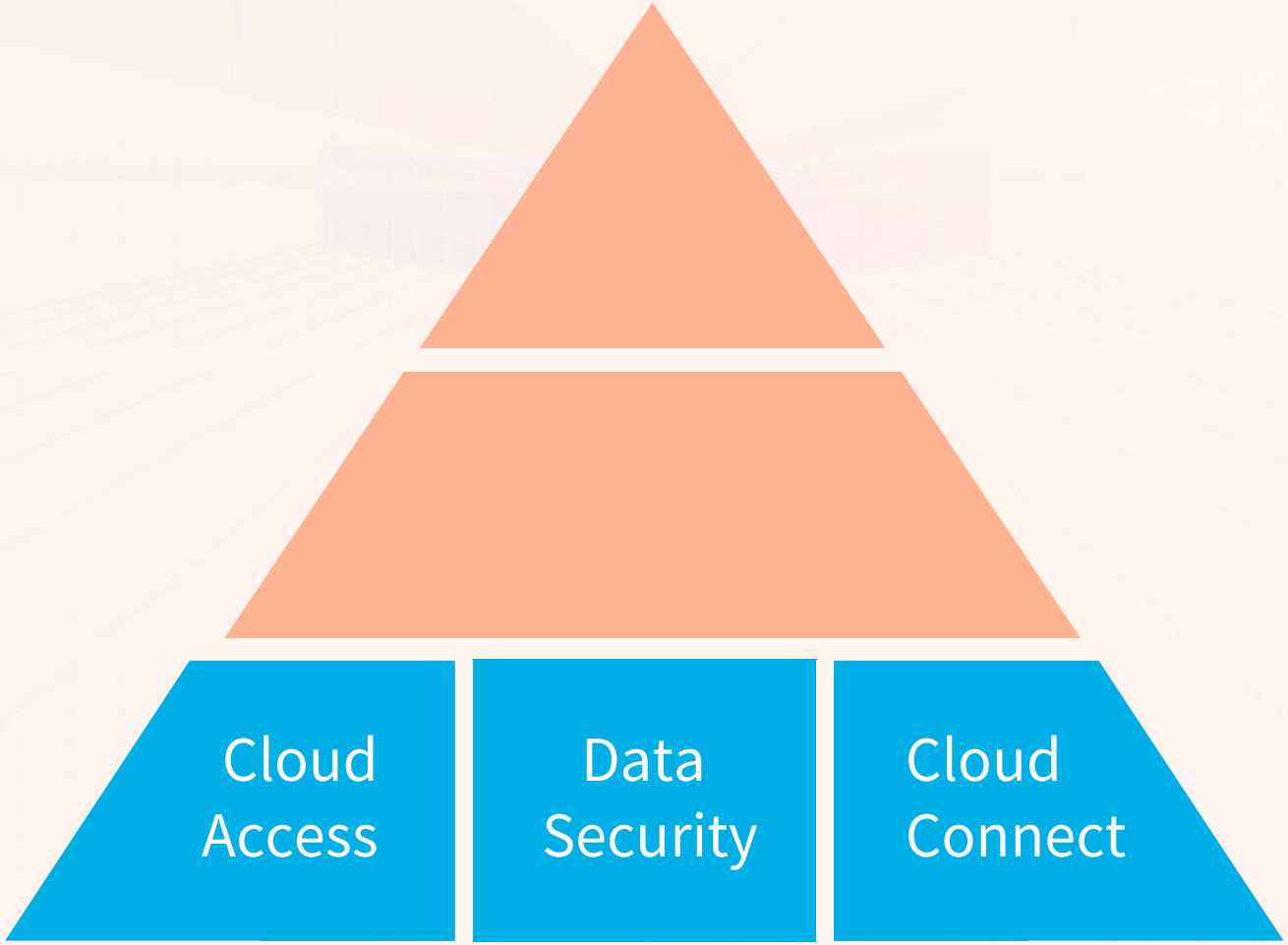
Cloud Connect



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

Analogien zur klassischen Welt



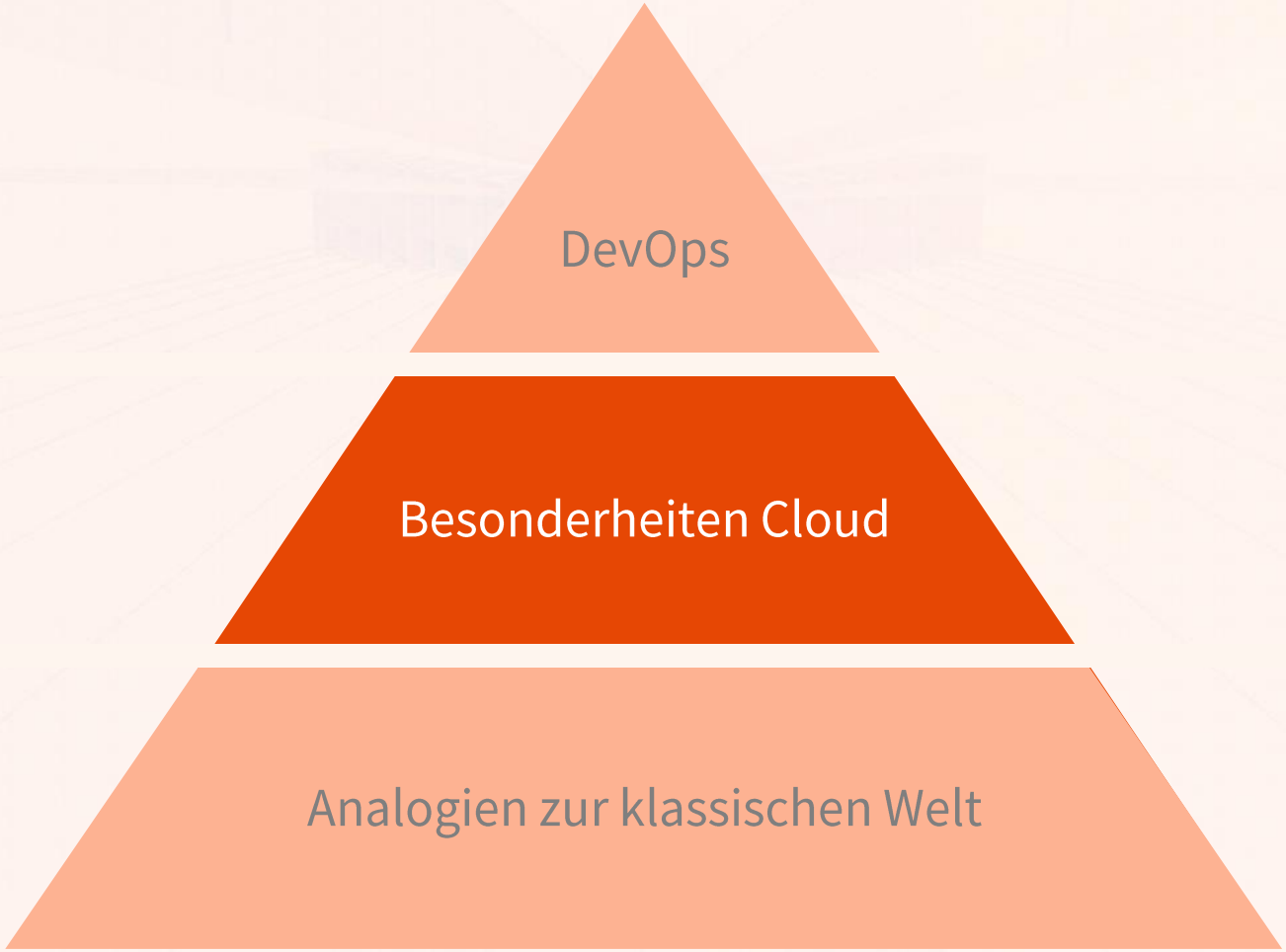
Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

Analogien zur klassischen Welt

© SHE Informationstechnologie AG 2019

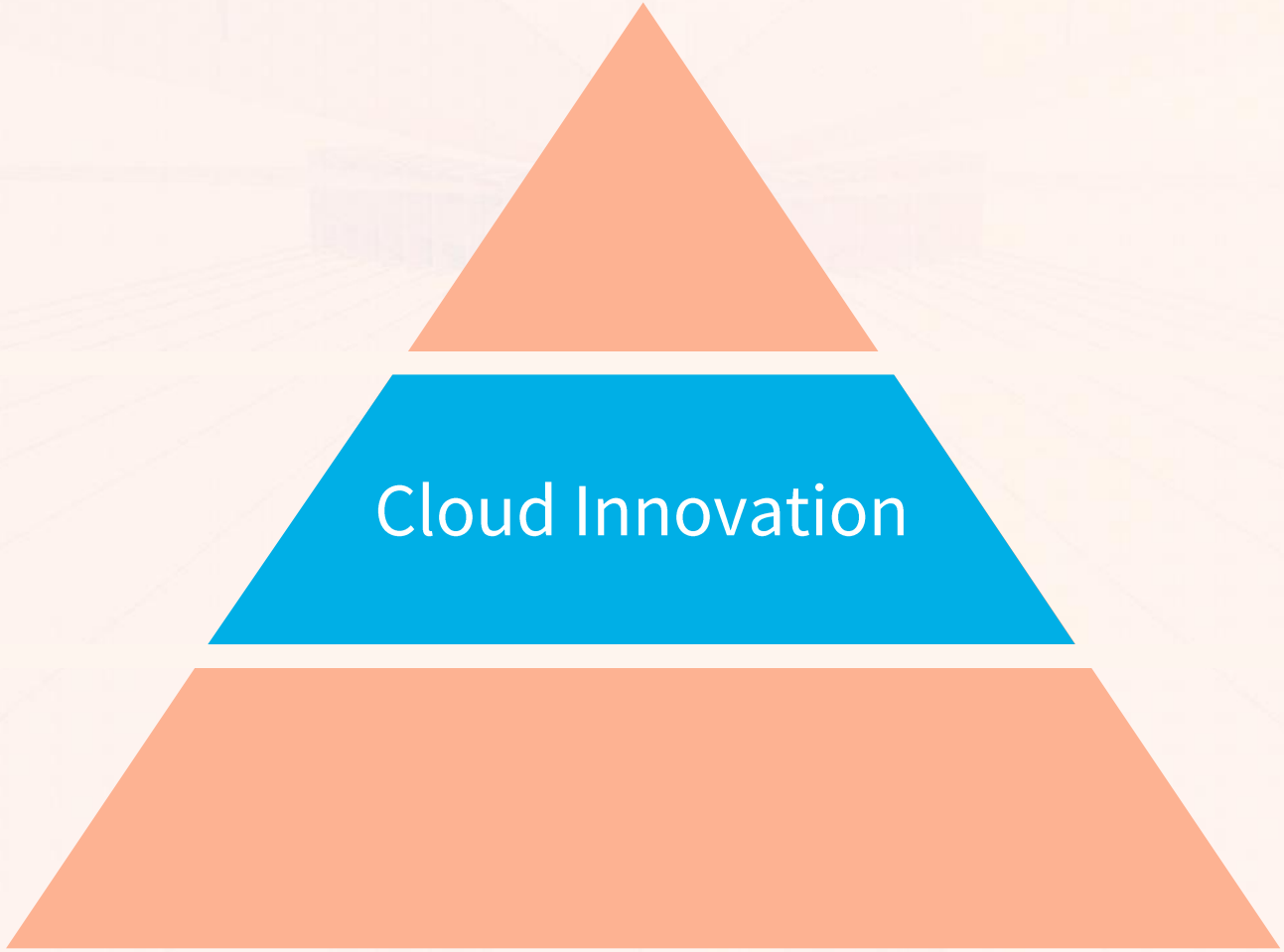
IT-Security in Hybrid-Cloud-Umgebungen



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

Besonderheiten in Cloud-Umgebungen



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

Create a resource
Home
Dashboard
All services
FAVORITES
All resources
Resource groups
Azure Active Directory
Virtual networks
SQL databases
Virtual machines
Storage accounts
Monitor
Advisor
Security Center
Cost Management + Billing
Help + support
Azure Cosmos DB
Function Apps
Load balancers
App Services

All resources

Add | Edit columns | More

Filter by name...

NAME

- ApplicationGatewayWAF
- ApplicationGatewayWAF-ip
- Automate
- AzurefileSync
- BackupVault
- ChangeTracking(defaultworkspac···
- DefaultWorkspace
- InfrastructureInsights(defaultwor···
- Mailrelay
- AzureNetzwerk01
- diagnostic
- fileshareservice
- Monitoring
- SecurityCenterFree(DefaultWorks···
- ServiceMap(defaultworkspace-c5···
- SHE-Mgm
- SHE-SoC
- Updates(DefaultWorkspace

Network security group

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

Settings
Inbound security rules
Outbound security rules
Network interfaces
Subnets
Properties
Locks
Automation script

Monitoring
Diagnostic settings
NSG flow logs

Support + troubleshooting
Effective security rules
New support request

Move | Delete | Refresh

Resource group (change) : AzureActiveDirectory
Location : West Europe
Subscription (change) :
Subscription ID :
Tags (change) : Click here to add tags

Custom security rules : 4 inbound, 0 outbound
Associated with : 1 subnets, 0 network interfaces

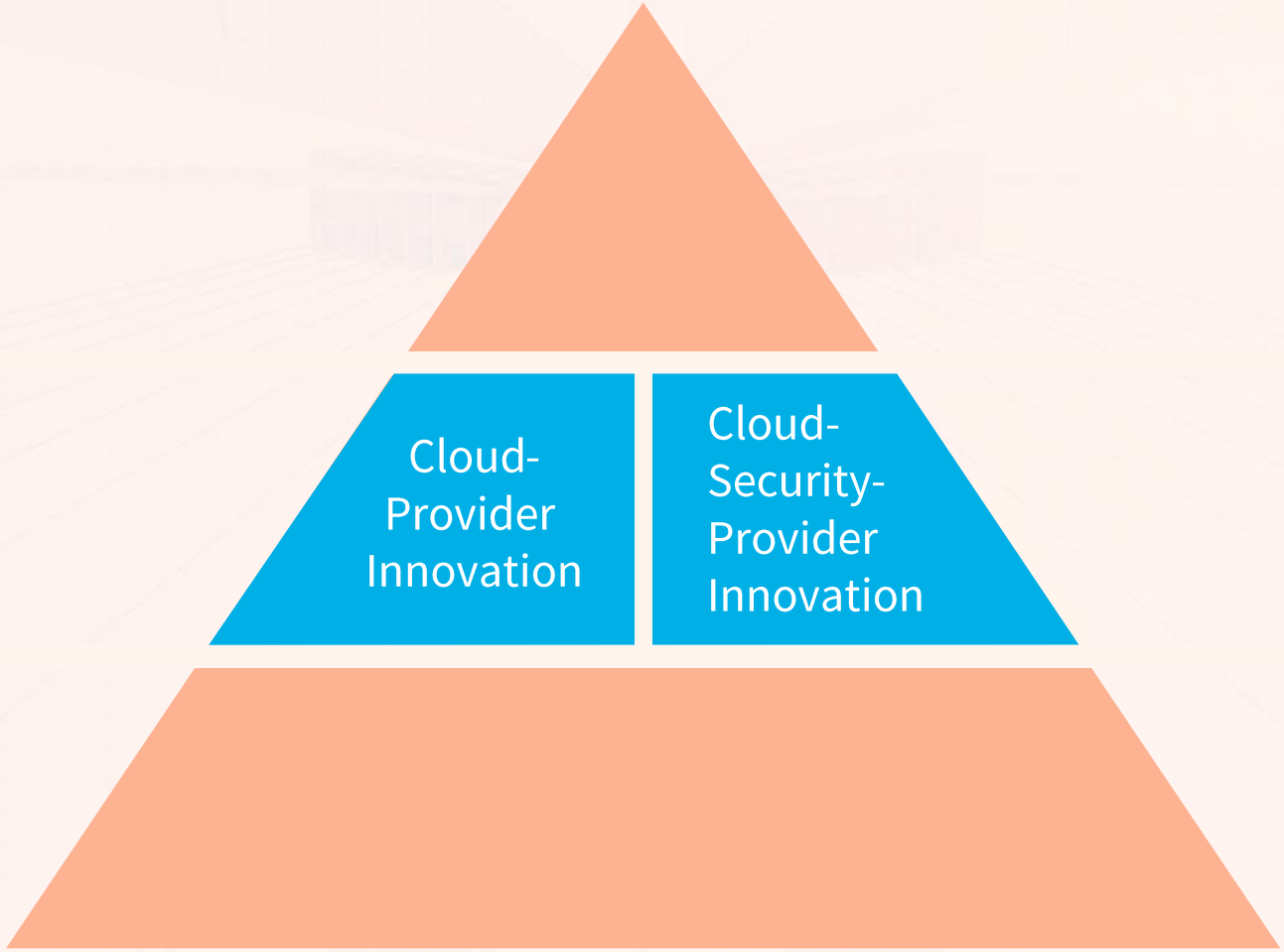
Inbound security rules

PRIORITY	NAME	PORT	PROTOCOL	ACTION
101	AllowSyncWithAzureAD		TCP	Allow
201	AllowRD		TCP	Allow
301	AllowPSRemotingSliceP		TCP	Allow
302	AllowPSRemotingSliceT		TCP	Allow
65000	AllowVnetInBound	Any	Any	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	Allow
65500	DenyAllInBound	Any	Any	Deny

Outbound security rules

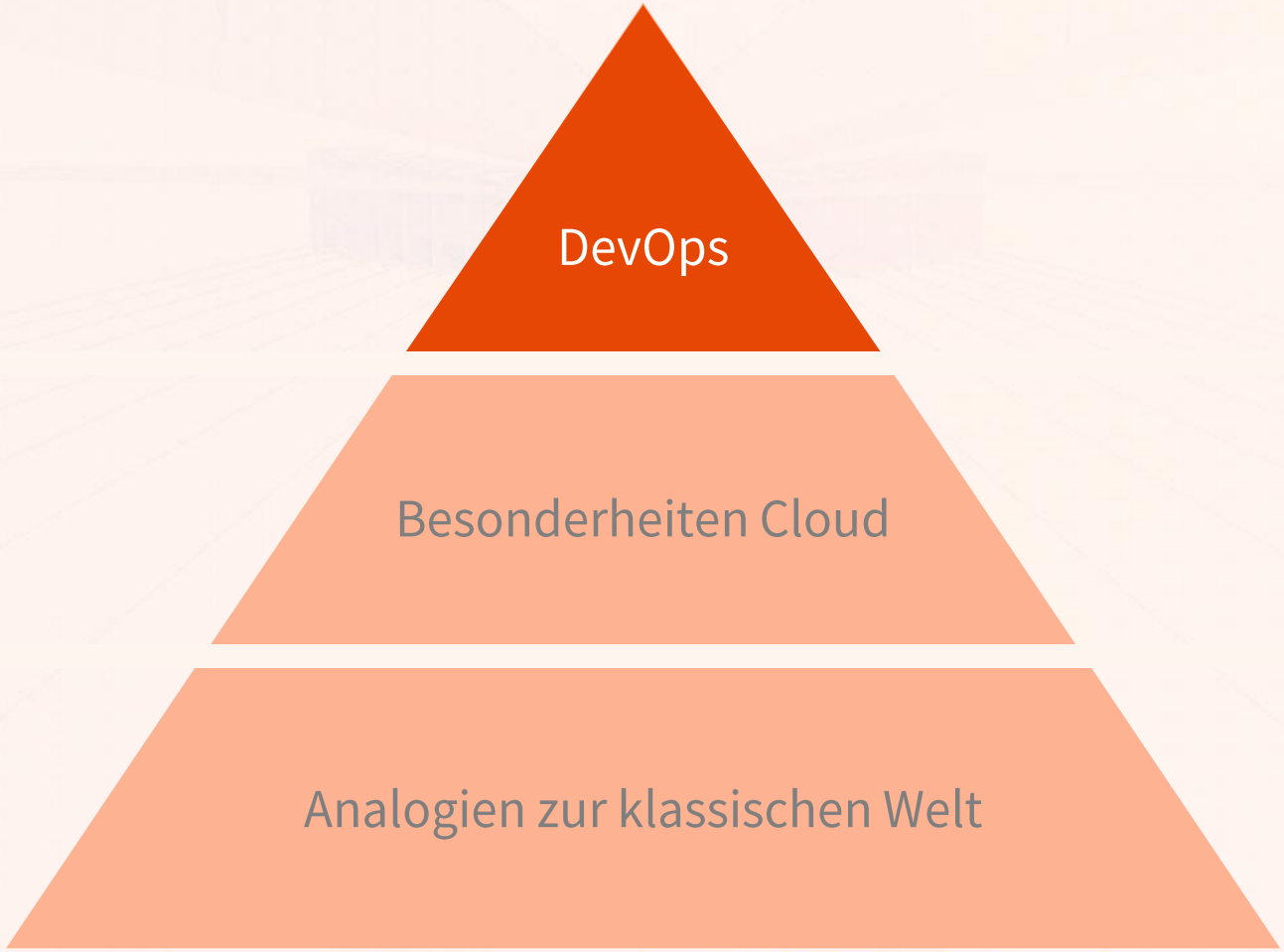
PRIORITY	NAME	PORT	PROTOCOL	ACTION
65000	AllowVnetOutBound	Any	Any	Allow
65001	AllowInternetOutBound	Any	Any	Allow
65500	DenyAllOutBound	Any	Any	Deny

Besonderheiten in Cloud-Umgebungen



© SHE Informationstechnologie AG 2019

IT-Security in Hybrid-Cloud-Umgebungen



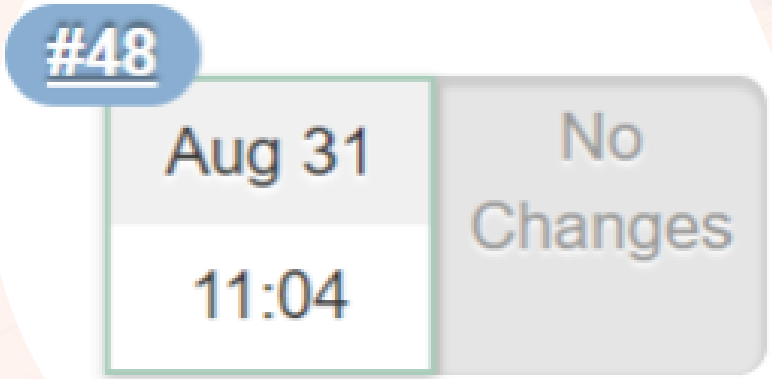
Marc Buchmann
Leiter Delivery

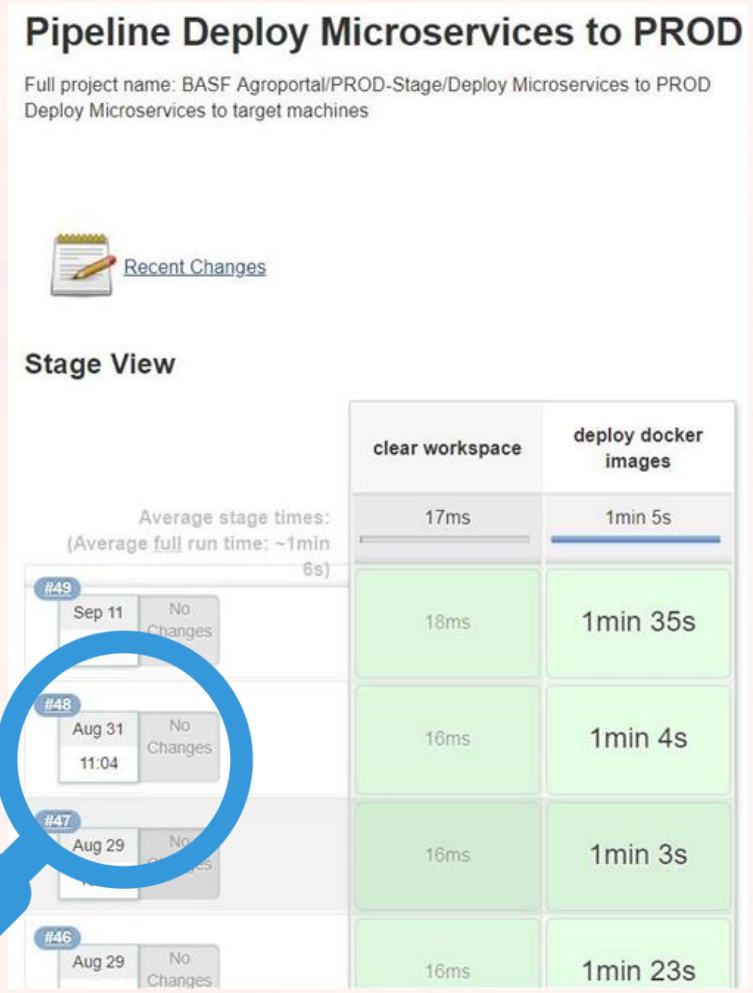
© SHE Informationstechnologie AG 2019

Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

Geschwindigkeit + Flexibilität





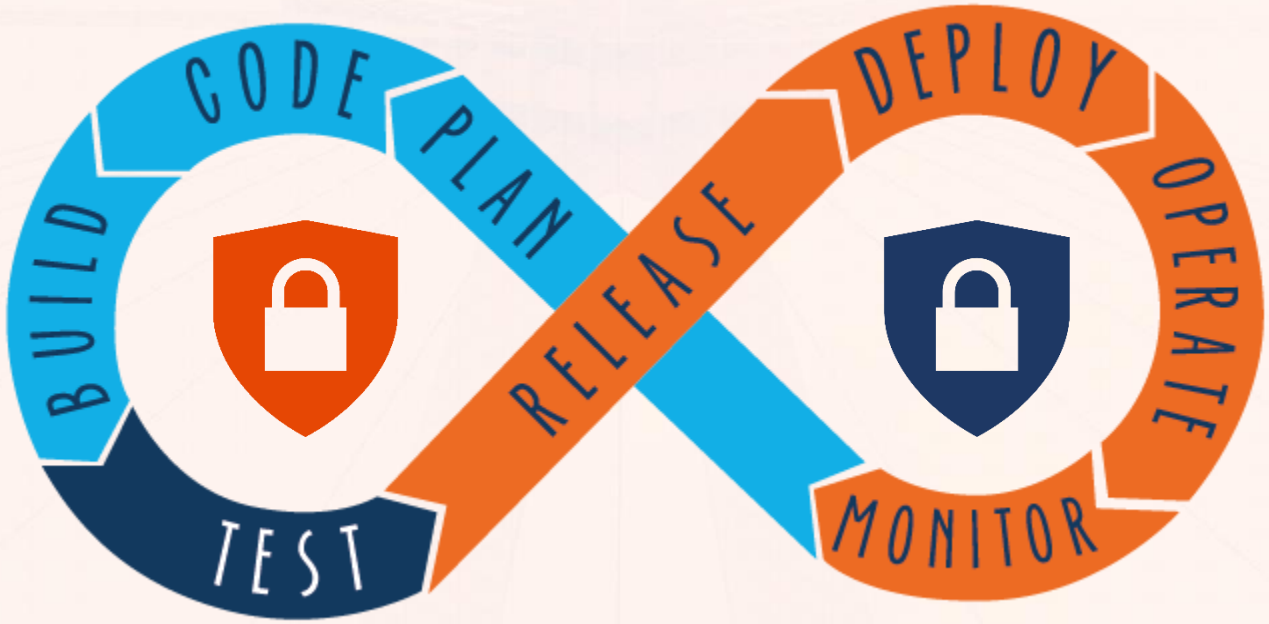
© SHE Informationstechnologie AG 2019

Microservices & Containerisierung

Marc Buchmann
Leiter Delivery

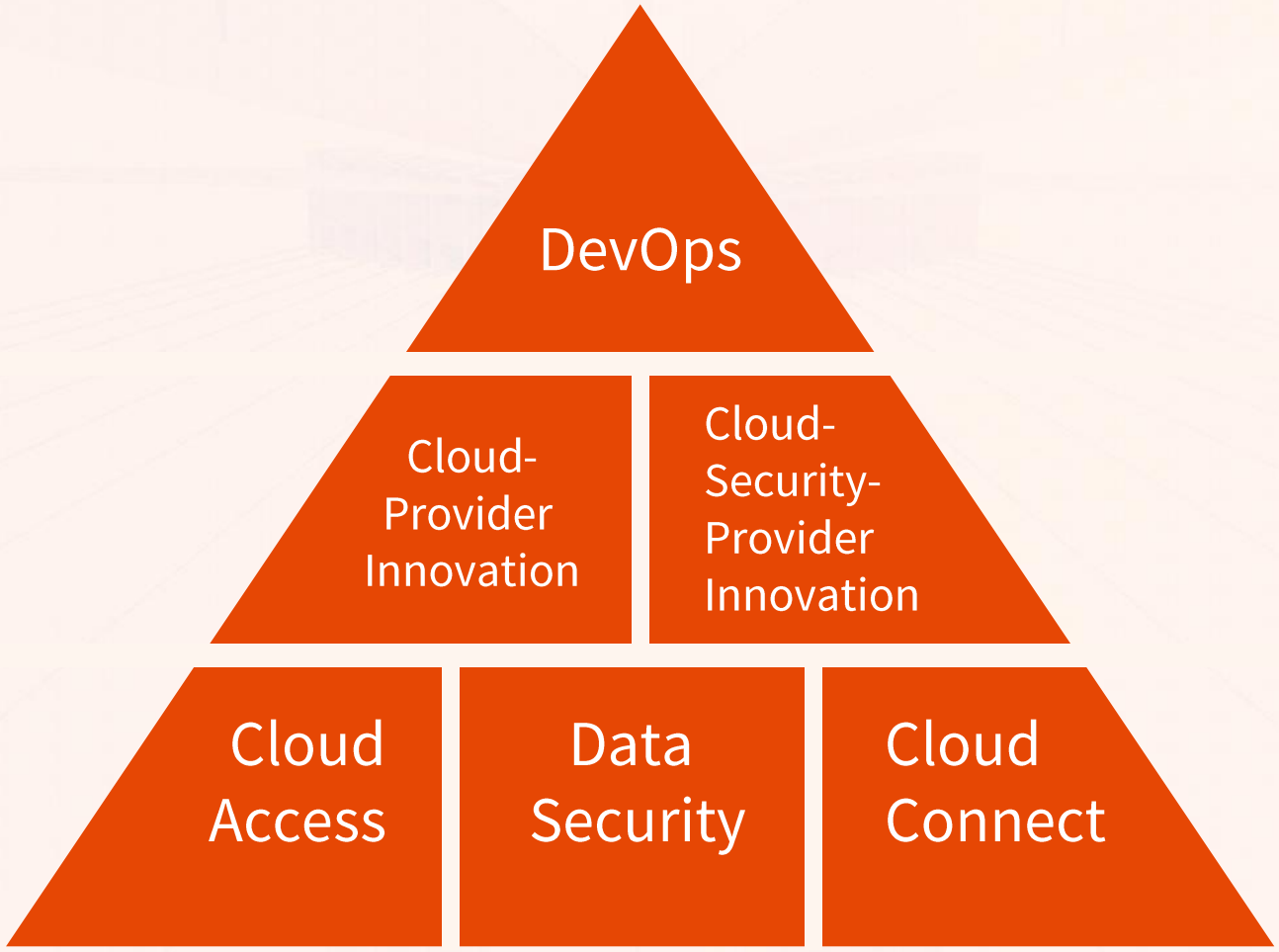
© SHE Informationstechnologie AG 2019

DevSecOps



© SHE Informationstechnologie AG 2019

IT-Security in Hybrid-Cloud-Umgebungen



Marc Buchmann
Leiter Delivery

© SHE Informationstechnologie AG 2019

SHE Immer eine IT voraus.

IT-Dienstleistungen und digitale Lösungen aus einer Hand - kompetent, effizient, menschlich.

SHE. Immer eine IT voraus.

Marc Buchmann
Leiter Delivery

www.she.net

© SHE Informationstechnologie AG 2019