

Zscaler Business Update

05. März 2024

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Cyber Defense – Teil 2

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Agenda

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- 1 Bezug zu Bewältigungsstrategie
- 2 Zscaler Integration Ecosystem
- 3 Zscaler Integrationsmöglichkeiten
- 4 XDR - Extended Detection & Response
- 5 XDR - Requirements

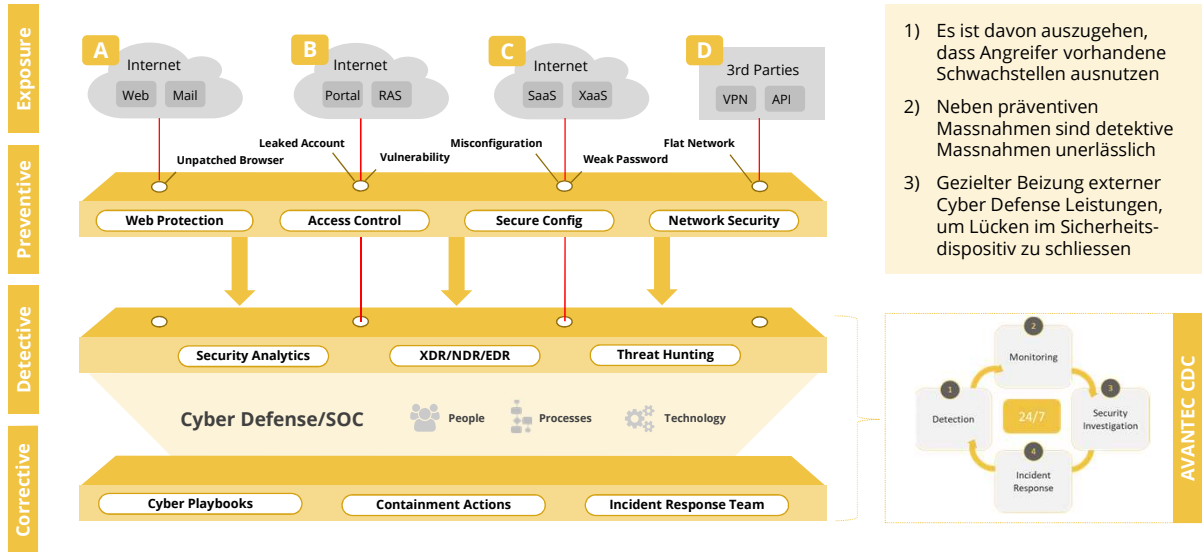
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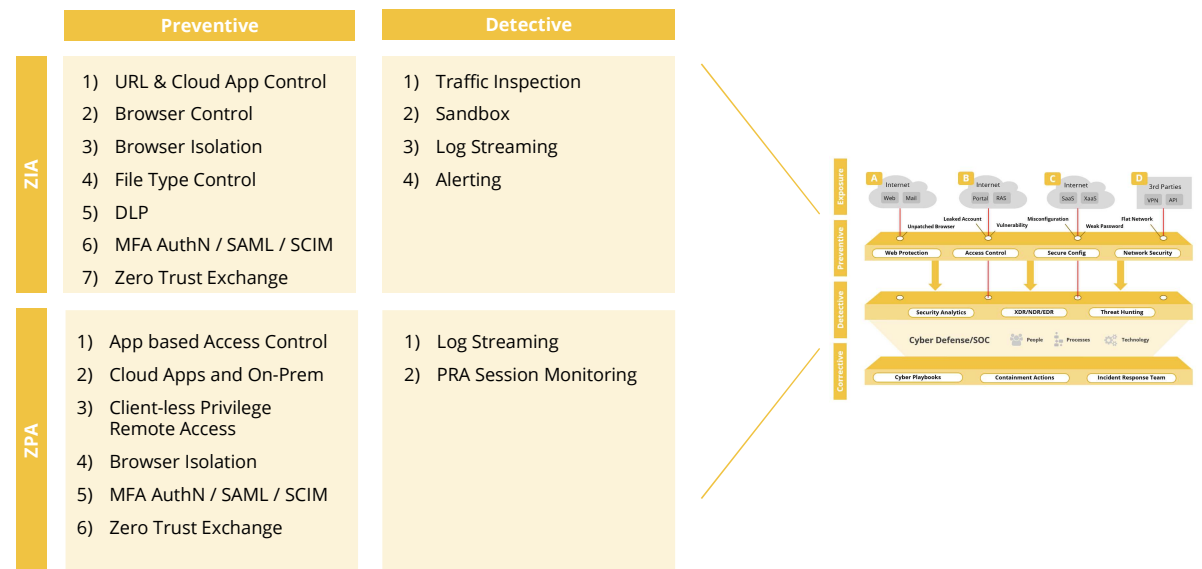
Bewältigungsstrategie

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Einordnung Zscaler - Bewältigungsstrategie

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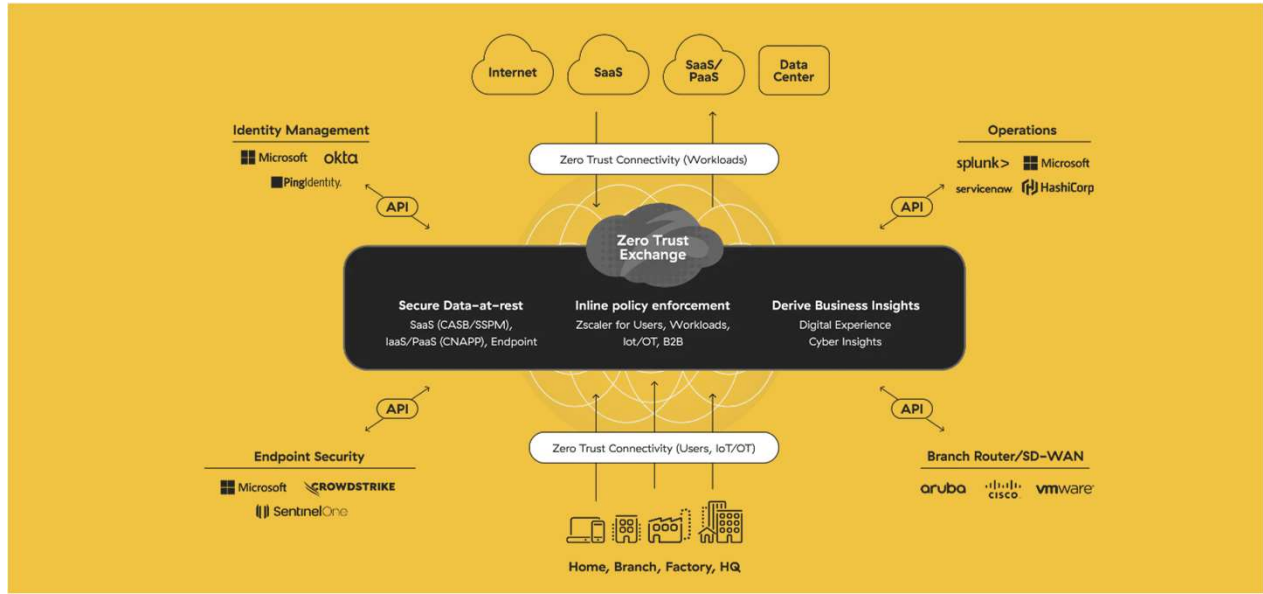


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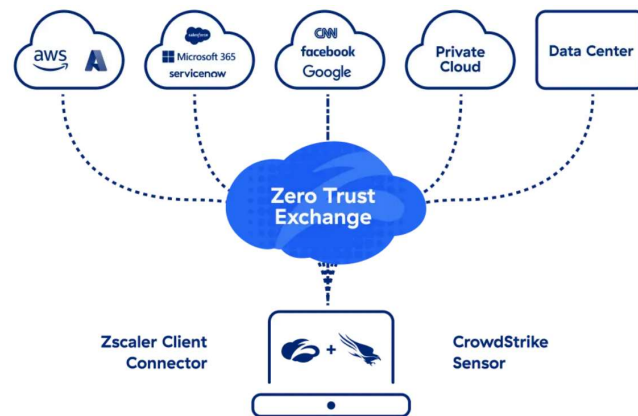
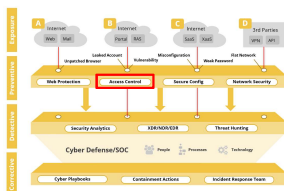
Zscaler Integration Ecosystem

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Integration #1 – Zero Trust mit Device Posture

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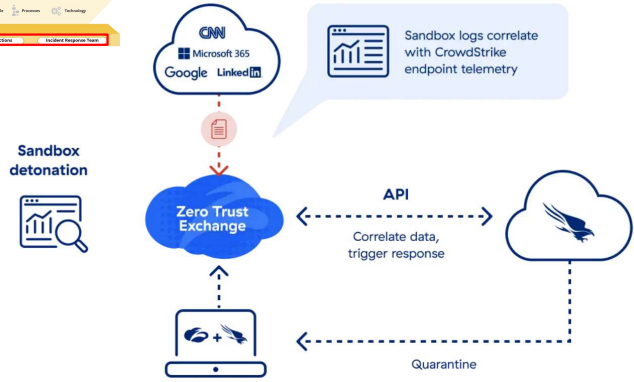
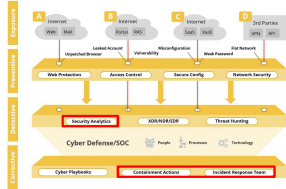
Zscaler ZIA und ZPA ermöglicht die Nutzung von CrowdStrike's ZTA (Zero Trust Assessment) Score, um den Zugang zu definierbaren Ressourcen zu kontrollieren.

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Integration #2 – Advanced Threat Detection mit ZIA Sandbox

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Zscaler Sandbox Logs werden mit den gesammelten CrowdStrike Telemetriedaten abgeglichen. Das ermöglicht eine schnelle Übersicht über betroffene Hosts und eine Host Isolation direkt aus dem Zscaler Admin UI.

Integration #2 – Advanced Threat Detection mit ZIA Sandbox

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Sandbox Detail Report
Report ID (MD5): 8FC3813C25D012BAEA0F0287E68BEF Analysis Performed: 9/20/2019 4:43:50 PM

CLASSIFICATION
Class Type: Malicious
Sandbox Score: 74
Machine Learning Analysis: Malicious - High Confidence
Category: F00Kspgmsizer
Malware & Botnet Detected: Win32/Agent.HZ Trojan

SECURITY BYPASS
• Tries to detect sandboxes and other dynamic analysis tools
• Launches processes in debugging mode
• All process strings found
• Uses tasksid to terminate processes
• Binary may include packed or encrypted data
• Checks for kernel debuggers

NETWORKING
• Uses ping.exe
• Checks the public IP address of the machine
• Downloads files
• Found strings which match to known social media URLs
• Performs DNS lookups
• URLs found in memory or binary data

STEALTH
• Creates files inside the volume of volume information
• Detaches itself after installation
• Disables application error messages

SPREADING
• Shows file infection information gathering behavior

INFORMATION LEAKAGE
• Overrides MacOs FileFix settings
• Enumerates the file system
• Steals IE cookies

EXPLOITING
• May try to detect the Windows Ex

PERSISTENCE
• Creates an autorun registry key
• Creates an undocumented autorun registry key
• Creates a start menu entry
• Creates temporary files
• Drops PE files
• Stores files to the Windows startup directory

SYSTEM SUMMARY
• Spawns drivers
• Creates files inside the user directory
• Creates guard pages
• Creates mutexes
• Enables driver privilege
• PE file contains an invalid checksum
• Queries a list of all running processes

CROWDSTRIKE ENDPOINT HITS

Affected Users (38)

User Name	User ID	Location	Endpoints
Derek Byrd	derek.byrd@yahoo.com	Quentinland	Derek's iPhone XS Max
Annie Collier	annie.collier@hotmail.com	North Reuben	Annie's Pixel 3
Clyde Sandoval	clyde.sandoval@hotmail.com	South Marianatown	Clyde's iPhone XR
William Holt	william.holt@hotmail.com	Fredside	William's Samsung S10
Patrick Warren	patrick.warren@yahoo.com	North Milton	Patrick's iPhone 8 Plus

Affected Endpoints (72)

Endpoint Name	Endpoint ID	Hostname	IP Address	OS	Action	User ID
Derek's iPhone XS Max	0544CE8B	z32-sp452-eme	240.187.123.151	iOS 12.4.1	Quarantine	derek.byrd@yahoo.com
Annie's Pixel 3	200E260E	z11-sp442-eme	99.172.93.114	Android 10	Quarantine	annie.collier@hotmail.com
Clyde's iPhone XR	5F795F795F79	z13-sp442-eme	146.103.87.19	iOS 12.4.1	Quarantine	clyde.sandoval@hotmail.com
William's Samsung S10	BA75BA75	z11-sp442-eme	192.19.176.140	Android 9	Quarantine	william.holt@hotmail.com
Patrick's iPhone 8 Plus	AF841557582E	z32-sp442-eme	160.148.120.47	iOS 12.3	Quarantine	patrick.warren@yahoo.com

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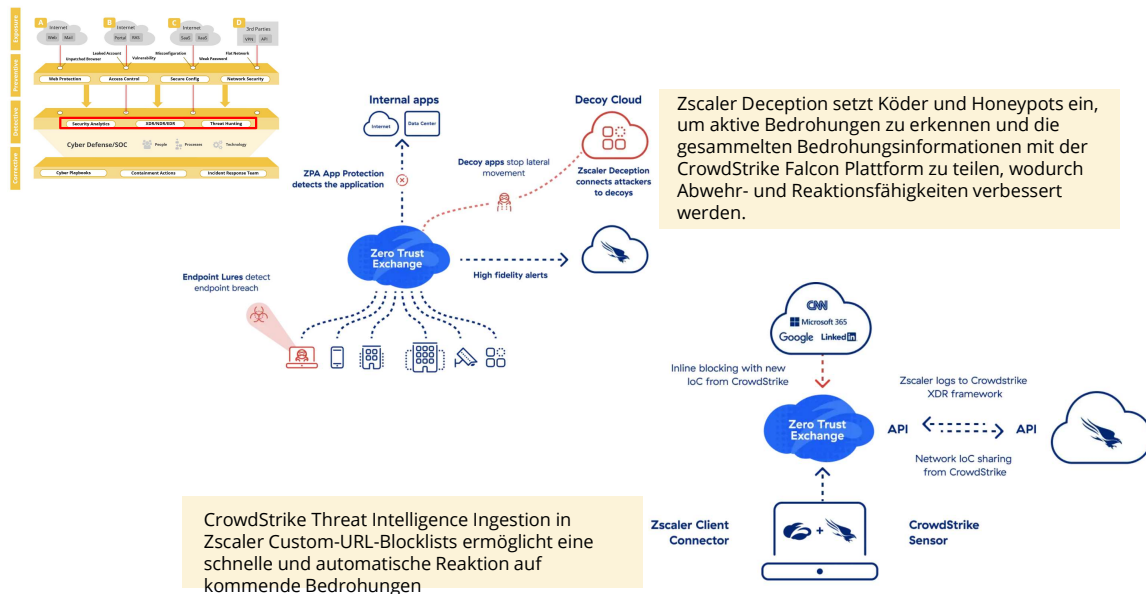
Integration #2 – Advanced Threat Detection mit ZIA Sandbox

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The screenshot displays the AVANTEC ZIA interface. On the left, a sidebar menu includes 'Insights', 'Logs', 'Dashboard', 'Analytics', 'Policy', and 'Administration'. The main area shows 'Insights Logs' for the period of Feb 19, 2020. A table lists log entries with columns for 'N...', 'Event Time', 'User', 'Policy Action', and 'MD5'. One entry is highlighted with a red box: 'Sandbox block inbound r...' with MD5 '4e2c0cb9d709d9...'. Below this, the 'Investigate Host' section shows 'Agent ID' '464ae5077de04600701737dfa45c' in a red box, labeled 'Auto-populated'. A 'Host Info' table lists details for host 'W10CLIENT03', including IP addresses and OS version. At the bottom, a 'Detect History' table shows a record for 'CrowdStrike Agent ID' '464ae5077de04600701737dfa45c9a99' with a status of 'Detected' and a 'Contain' button highlighted in red.

Integration #3 – Threat Intelligence sharing

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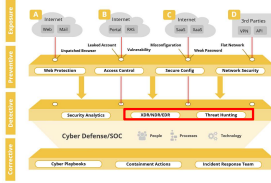


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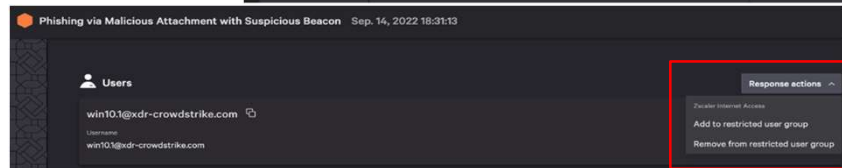
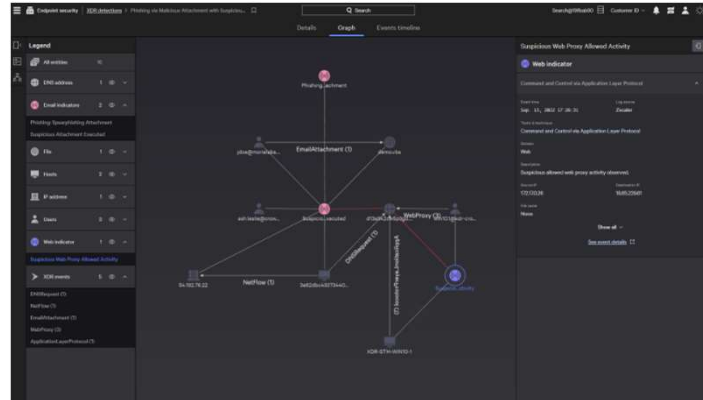
Integration #4 – XDR Detection

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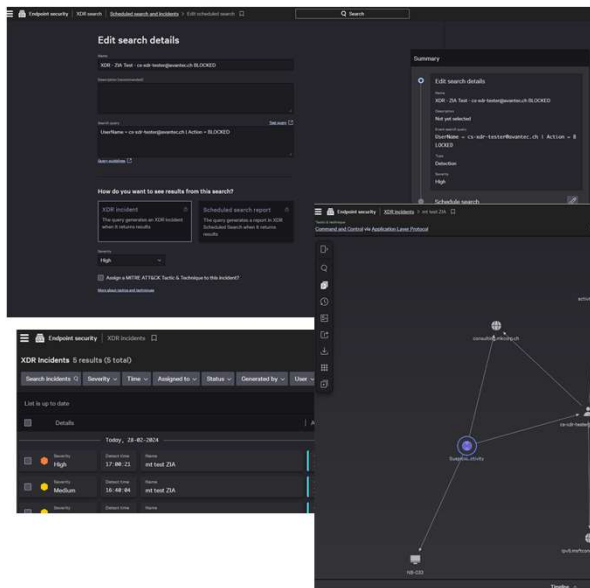
XDR bietet Detection Handling und Log Analyse über eine einzige zentrale Konsole. Zscaler Logs werden über Cloud NSS zu CrowdStrike transferiert.

Schnelle Reaktion bei Detection durch die Nutzung von Response Action.

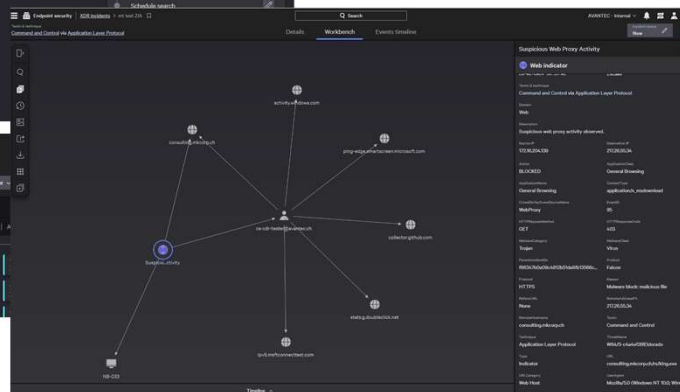


Integration #4 – XDR Custom Incidents

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XDR Custom Incidents über Scheduled Searches.
Erlaubt es eigene Use Cases abzubilden und bei entsprechenden Vorkommnissen alarmiert zu werden.



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XDR Integration - Requirements



Lizenzen

- Zscaler Cloud NSS Feeds (nicht in standard NSS Lizenz enthalten)
- CrowdStrike XDR Connector - SSE (SWG & CASB)
- CrowdStrike Falcon Insight XDR

Technische Voraussetzungen

- Zscaler User AuthN über IdP mit SCIM (für XDR Response Action)



DANKE