„NETworking SummIT Online“ 16-18 Juni 2020

HERZLICH WILLKOMMEN! Wir starten in Kürze!

Bitte wählen Sie Ihren Audio-Mode in Ihrem Fenster ganz rechts aus. Wir empfehlen „Mikro + Lautsprecher“ zu verwenden, wenn Sie ein Headset am PC haben.

Falls sie keinen Ton hören, wählen Sie sich bitte per Telefon ein. Die Rufnummern und den Zugangscode entnehmen Sie bitte Ihrem Bildschirm ganz rechts.

NETworking SummIT Online-Agenda

16. Juni 2020

- 10-11 Uhr Riverbed – SaaS Accelerator Schneller Zugriff auf SaaS Anwendungen
- 14-15 Uhr Aternity – der End-User im Fokus

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- 14-15 Uhr A10 Network SSL-Visibility & DDoS-Detection – Sicherheit im Highspeed-Netz

18. Juni 2020

- **10-11 Uhr IXIA Threat Simulator Breach and Attack Defense –Hack yourself before they do!** ⬅
- 14-15 Uhr ExtraHop - Sicherheitslücken mit High Speed Anomalie-Erkennung identifizieren

riverbed Aternity zscaler A10 ixia A Keysight Business ExtraHop

ixia
A Keysight Business

IXIA Threat Simulator Breach and Attack Defense
Hack yourself before they do!

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GERNE STEHEN WIR IHNEN FÜR EINEN BERATUNGSTERMIN ZUR VERFÜGUNG!

INTRODUCING THREAT SIMULATOR

YOUR BEST DEFENSE IS A GOOD OFFENSE

Keysight Threat Simulator is a Breach and Attack Simulation (**BAS**) product, simulating real attacks in an AUTOMATED, CONTINUOUS and safe manner and PROVIDING REMEDIATION with actionable intelligence.

How Do You Measure Security Posture?

HACK YOURSELF, BEFORE THEY DO

GAPS IN YOUR COVERAGE
Can a certain type of attack get in?

MISCONFIGURATIONS
“Are all my tools working properly?”

OVERLAPPING TOOL COVERAGE
“Am I overspending on redundant tools?”

THREAT REMEDIATION
"How do I fix the gaps in my coverage?"

RISK AND EXPOSURE
“How do I prioritize security fixes?”

– Security is difficult to measure -

If you can’t measure it, you can’t improve it !

Preventing Breaches is Challenging

Key Use Cases we want to address:

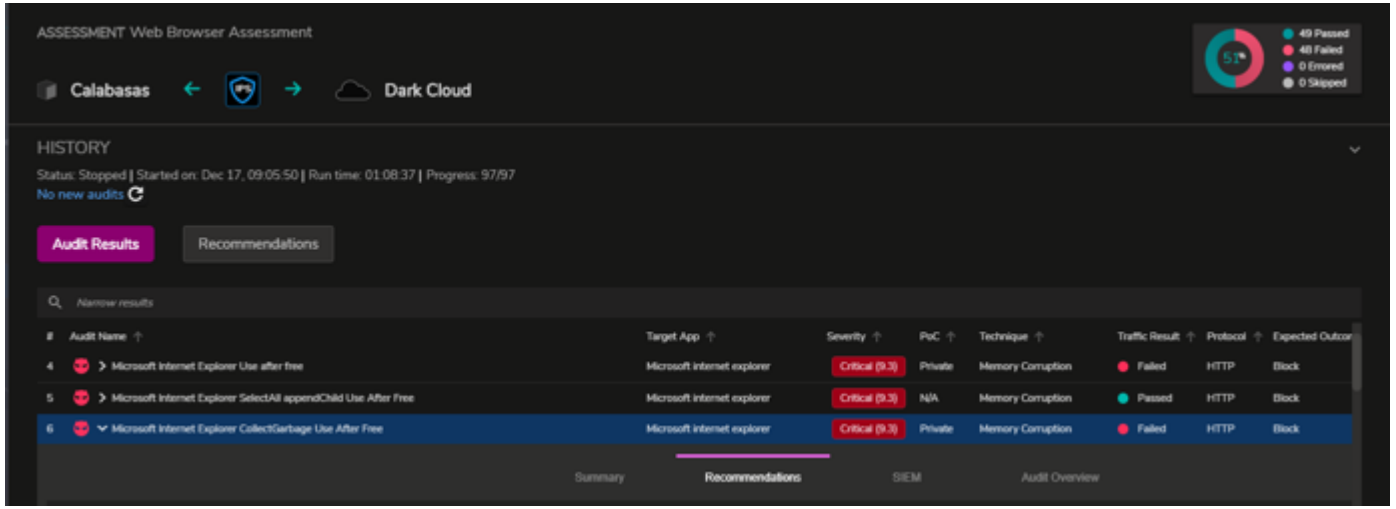
- Right security tools
- Security tools misconfiguration
- “Temporary” policy exceptions
- IT skills shortage
- Bad user behaviors
- Emerging Threats (Malware)
- Insider threats

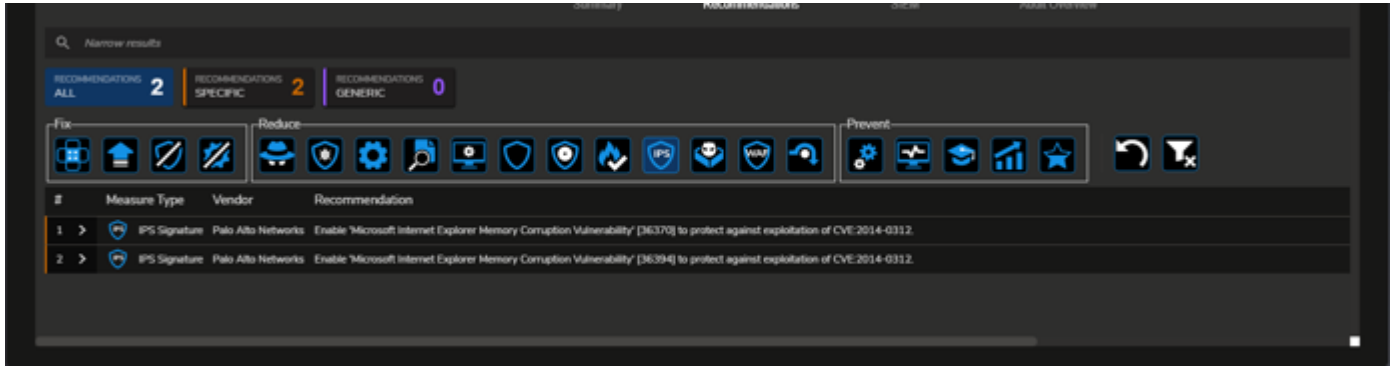
Misconfiguration + Security Updates

FIREWALL/IPS

Opportunity
Immediate Security Remediation; Proof of Effectiveness

- Threat Simulator Kill Chain Assessment shows NGFW is allowing a Internet Explorer Memory Corruption attack to pass through; internal systems would be vulnerable
- Threat Simulator not only identifies the CVE of the attack, but tells you exactly how to remediate that vulnerability on your NGFW, in this a Palo Alto Firewall





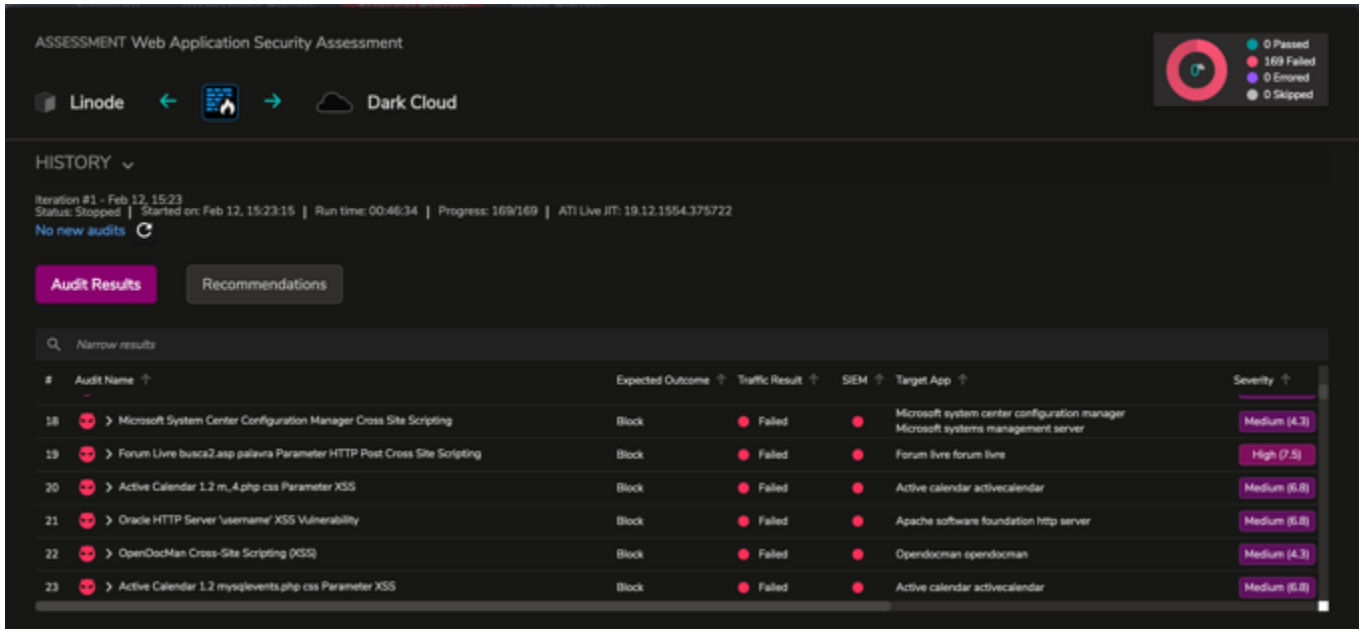
Misconfiguration + Policy Exceptions

WEB APP SECURITY

Opportunity

Remediation services of misconfigurations and updated policy exception.

- Sometimes there's not a simple product fix; Threat Simulator gives you information about the threat and best practices to remediate it
- Threat Simulator provides specific, tailored steps to fix common misconfigurations
- Also shows topology-specific steps to change settings and gain additional protection for web applications



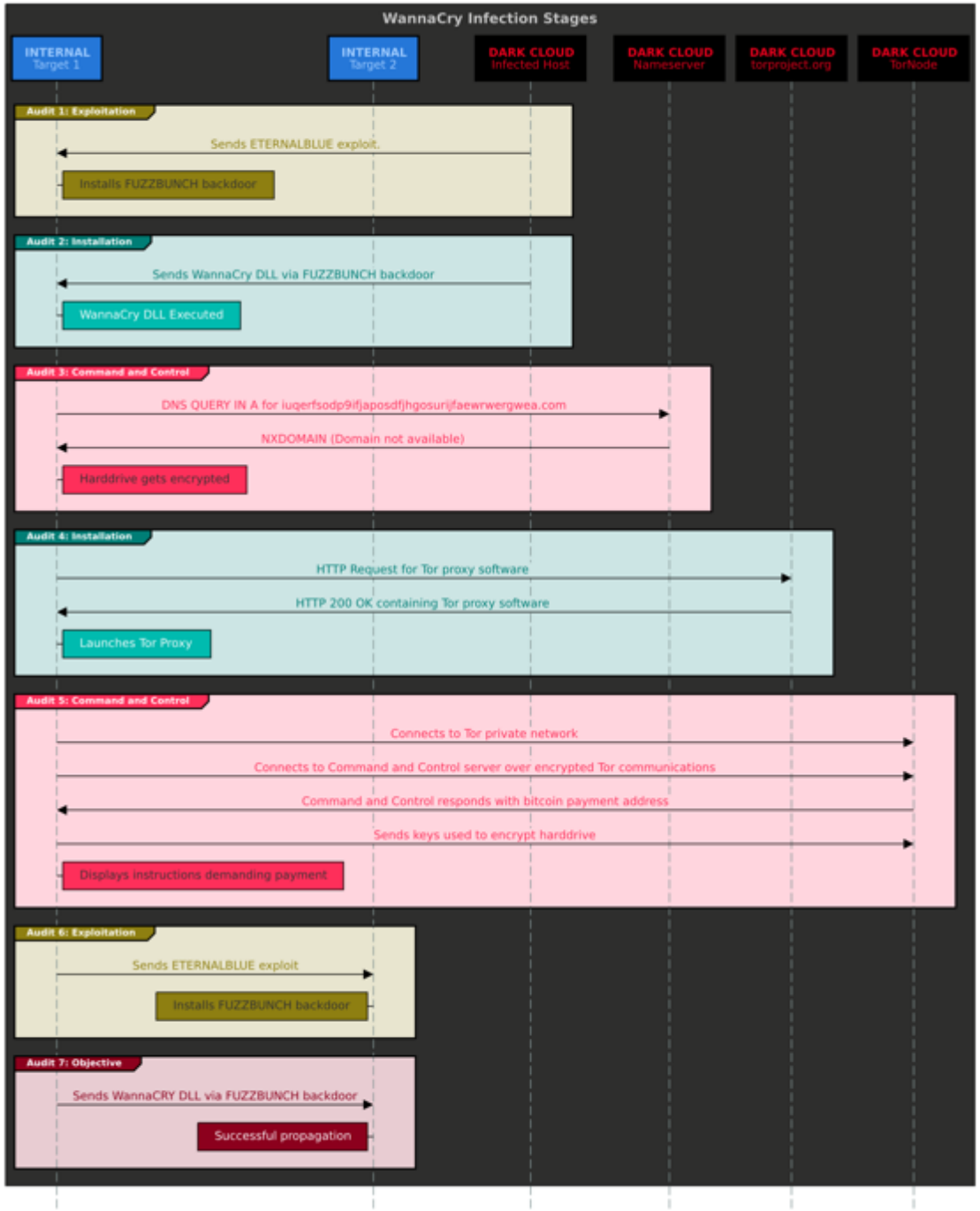
Malware Detection

CAN YOU CATCH THE LATEST THREATS?

Opportunity

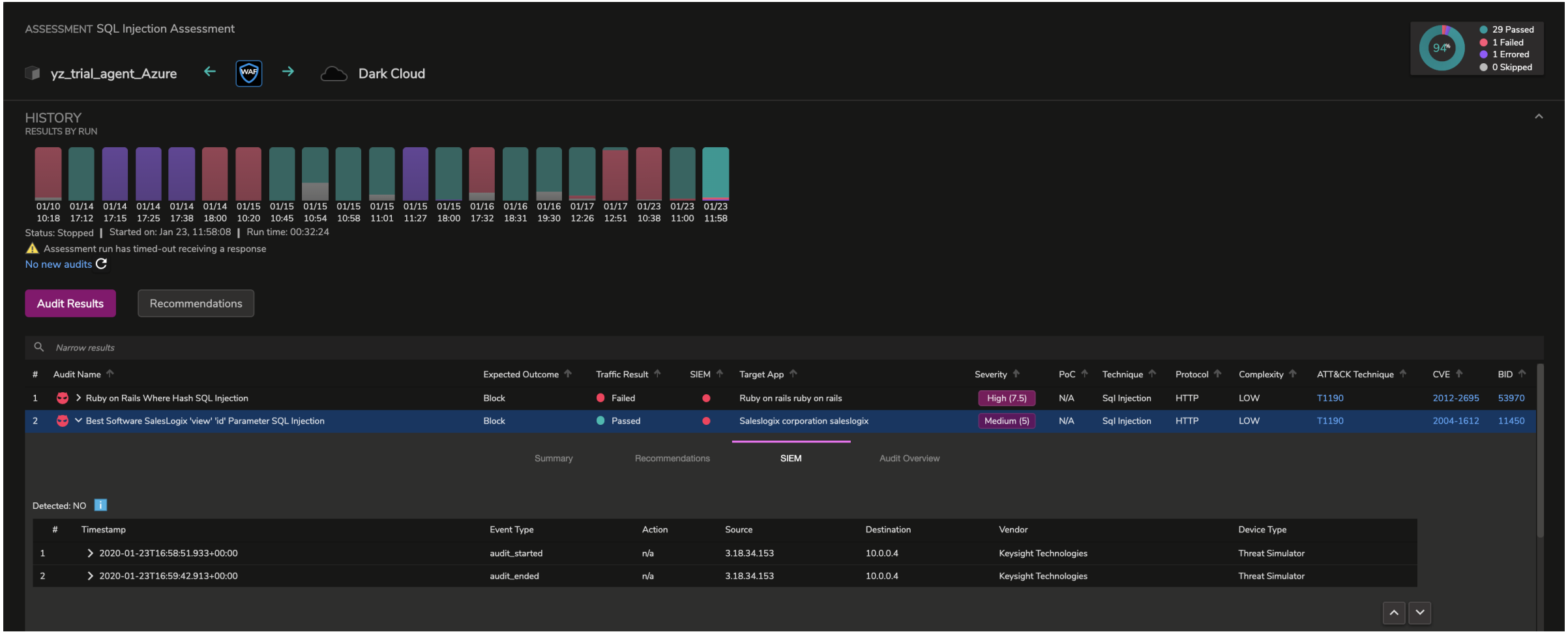
Security operations strategy;
Managed detection services;
Additional detection solutions.

- Run 'Kill Chain Security Assessment'
  - Simulates WannaCry, Mirai, etc.
  - Includes entire kill chain, including exploitation, installation, command & control, and propagation
- Threat Simulator summarizes exactly what happened at every step in the Kill Chain, including how to remediate any gaps



KEYSIGHT TECHNOLOGIES

SIEM Integration



Keysight Threat Intelligence

STAY AHEAD OF ATTACKERS WITH INDUSTRY-LEADING INTELLIGENCE

Global Team of Security Researchers and Application Protocol Engineers

- 15+ years of security intelligence, research, and application protocol development.
- Manage a continuously-updated database, cataloguing millions of known and emerging threats
- Trusted partner of top NEMs, service providers, governments, and enterprises.

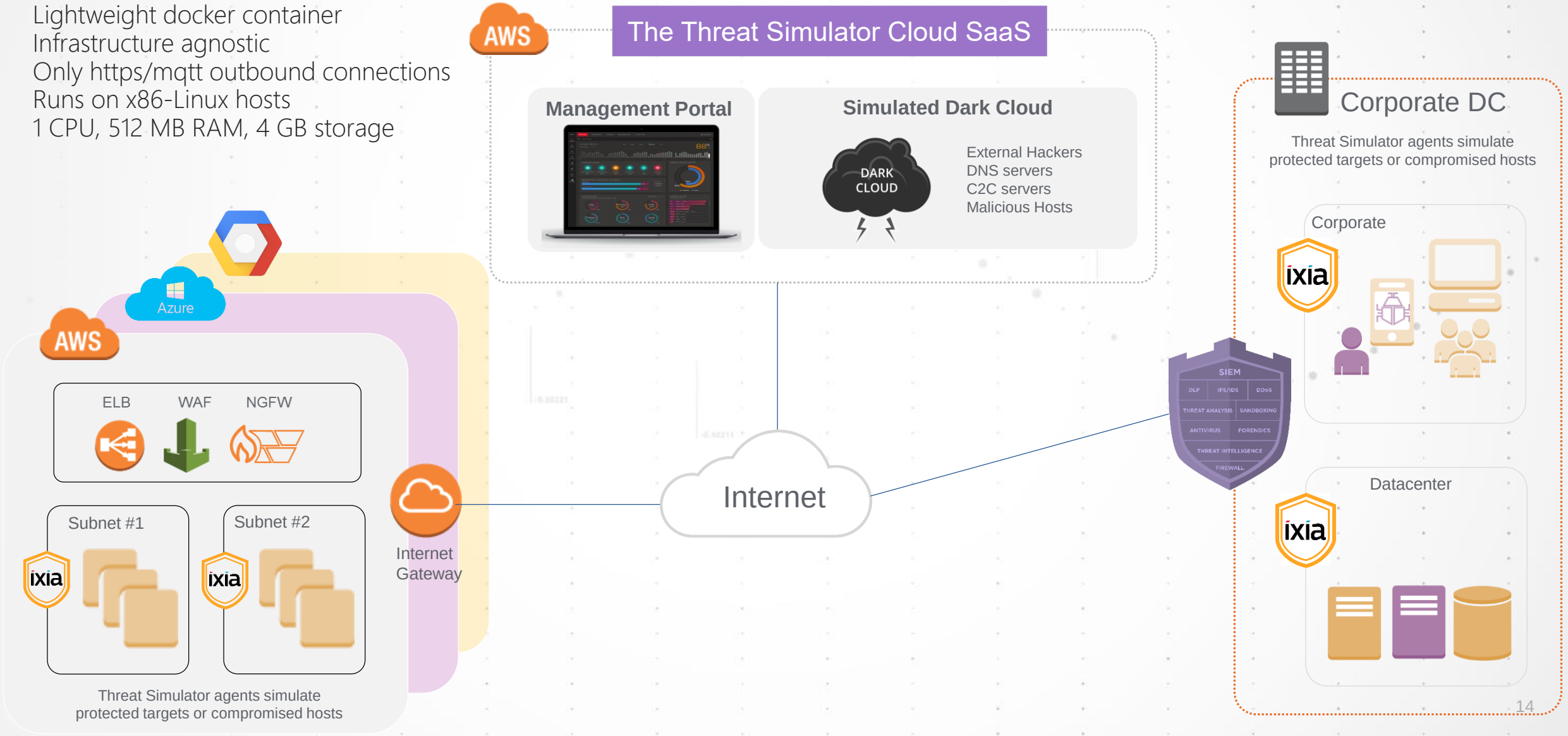
REAL-WORLD: Keysight Security Intel team release WannaCry audit 17days before the attack!

Threat Simulator Overview

THREAT SIMULATOR'S ARCHITECTURE

Agent Architecture

Lightweight docker container
Infrastructure agnostic
Only https/mqtt outbound connections
Runs on x86-Linux hosts
1 CPU, 512 MB RAM, 4 GB storage



INSTRUMENTATION AND POLICY ASSESSMENTS

Web Application Security

-- Cross Site Scripting
-- SQL Injection
-- Remote File Inclusion
-- Local File Inclusion
-- Server Side Script Injection
-- OS Command Injection
-- Reflected XSS Efficiency
-- Stored XSS Efficiency
-- SQL Injection Efficiency

LAN Perimeter

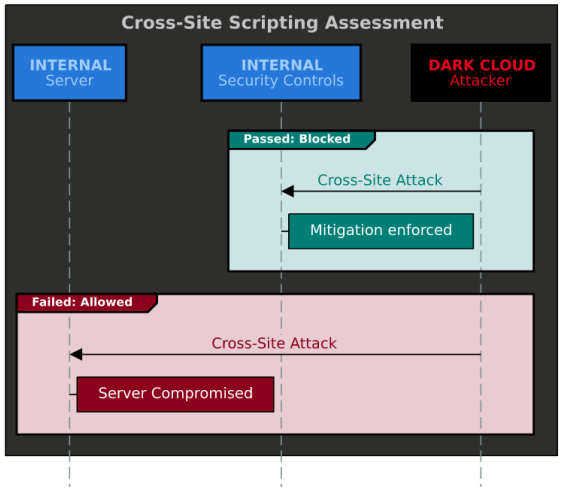
-- web browser vulnerabilities
-- file format vulnerabilities
-- malware file transfer
-- command and control

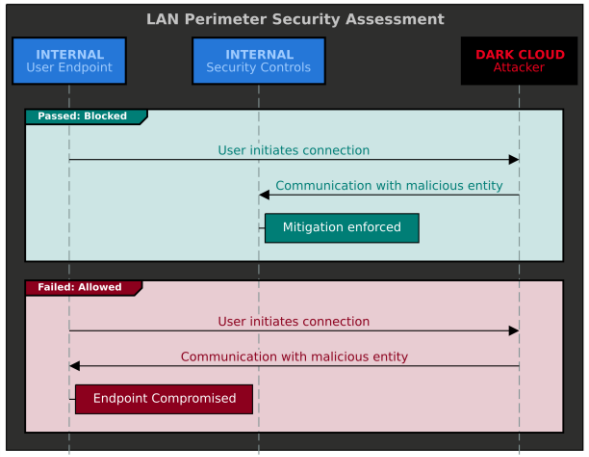
Data Exfiltration

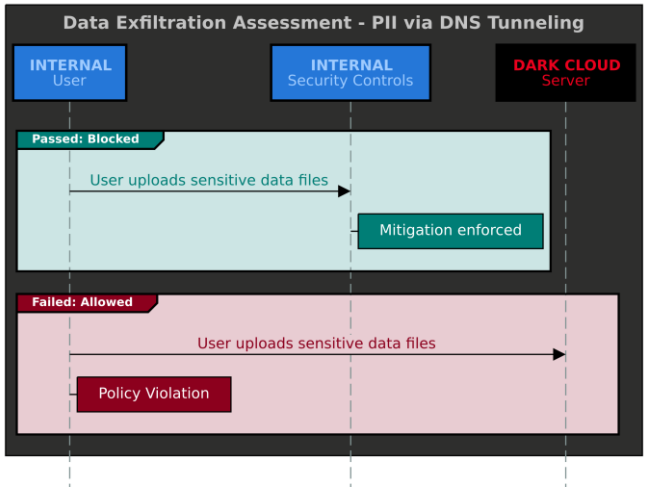
-- PII Exfiltration via DNS Tunneling
-- PII Exfiltration via HTTP POST
-- PII Exfiltration via Pastebin
-- PII Exfiltration via SMTP
-- PII Exfiltration via WebDAV
-- PII Exfiltration via Dropbox
-- PII Exfiltration via Twitter

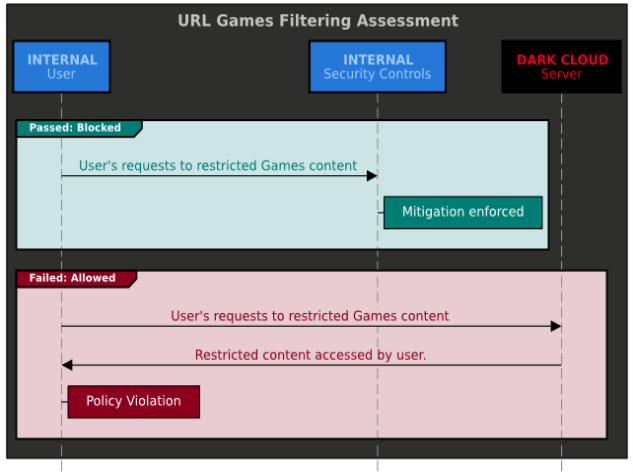
URL FILTERING

-- Entertainment
-- Social Networking
-- Streaming Media
-- Hacking
-- Gambling
-- Games
-- Pornography
-- Proxy Avoidance
-- Religion
-- Shopping
-- Weapons







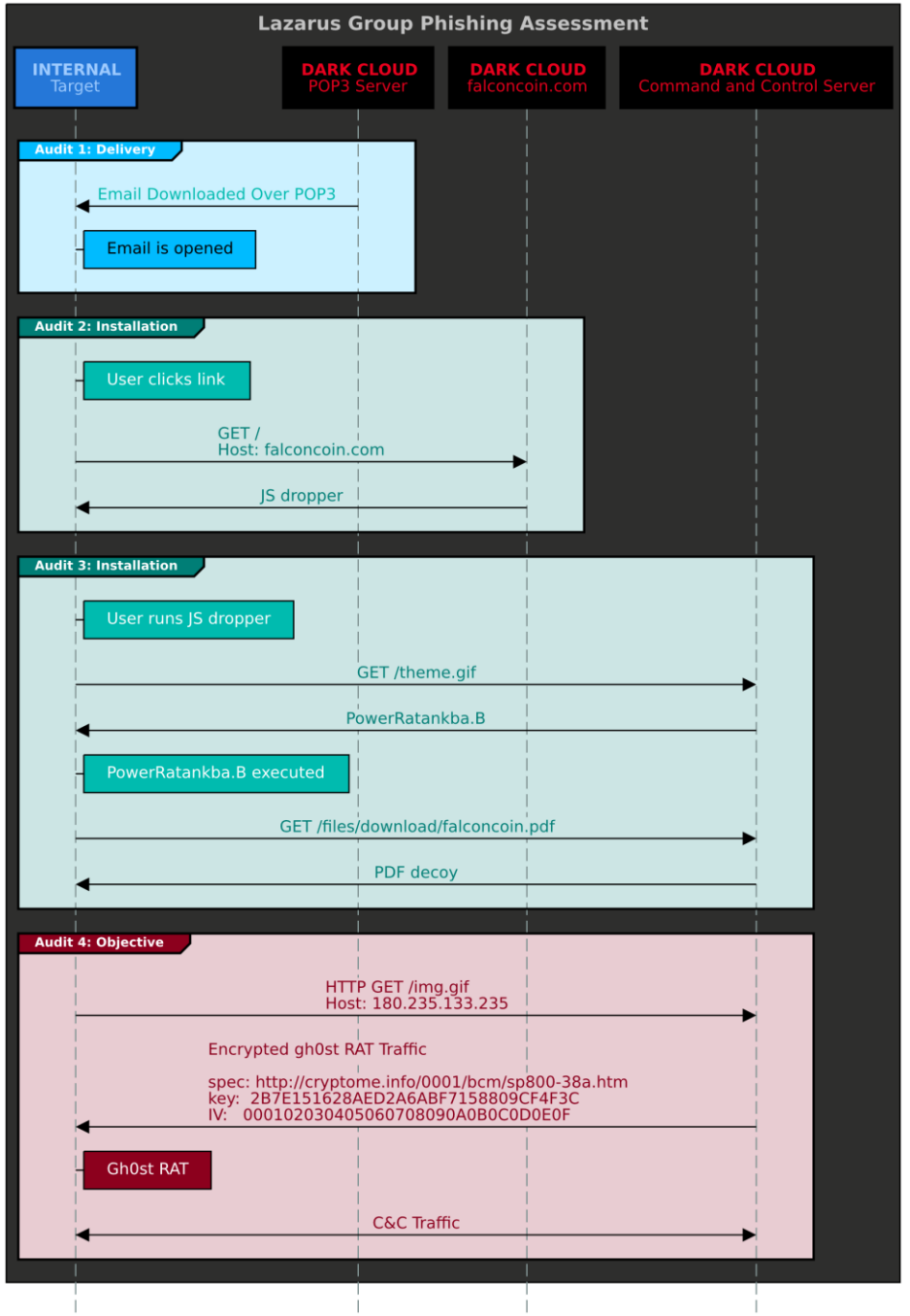


Kill Chain Example

Lazarus Group APT (Finance Industry Attack)

Example of adversary tactics, tools and procedures used against financial organizations

Objectives	Lazarus
Reconnaissance	-
Weapons	Malicious Adobe PDF document
Delivery	Spear phishing email advertising fantastic returns on Falconcoin, a "new" type of crypto coin advertised as an Initial Coin Offering, or ICO
Exploitation	-
Installation	The JavaScript dropper downloaded first then downloads a PDF that is displayed to the user advertising Falconcoin, the other one is an obfuscated PowerShell script known as PowerRatankba.B.
Command	The PowerShell script enables the malware to establish a persistent connection to a command and control server, while the PDF is used a visual decoy to prevent suspicion. It registers itself with the malicious network to facilitate exfiltration and remote code execution on the now infected host. After registration the bot is instructed to download and execute a variant of the Gh0stRAT malware.
Objective	The Gh0st RAT allows the attacker to take full control of the infected endpoint, log keystrokes, provide live webcam and microphone feeds, download and upload files, etc.



Threat Simulator DEMO

OUR APPROACH

Automated Breach and Attack Simulation for Live Networks

MEASURE

Measures the cyber security efficacy

Identifies security gaps

Data to communicate how security works and justify IT investments

OPTIMIZE

Identifies opportunities to remediate security gaps

List of remediation actions to improve the security effectiveness

MONITOR

Monitors for environment drifts using automated, continuous validations

Opportunities to take proactive actions to maintain optimal security posture

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DANKE FÜR IHRE TEILNAHME!

Haben Sie Interesse am IXIA Threat Simulator?

Dann kontaktieren Sie uns

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