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1-Day Simulated OT Penetration Test

Overview

This engagement delivers a 1 day OT penetration test using simulated adversary techniques against your environment. Frenos uses a cyber digital twin to model your network, simulate attacker behavior, and identify attack paths and risk reduction actions. The objective is to show how an adversary could move through your environment and what mitgiations will reduce risk proactively.

Key Differentiators

Built for OT

- No disruption to OT systems
- Environment-specific attack paths
- Focus on real attack behavior
- Actionable outputs tied to controls

What you get In 1-Day

Immediate outcomes

- *Identified attack paths to critical systems*
- *Validation of segmentation effectiveness*
- *Prioritized exploitable risks*
- *Actionable mitigation recommendations*

Key deliverables

- *Attack path summary*
- *Top risk exposures*
- *Prioritized mitigation actions*
- *Executive summary*

The Approach

Step 1

Data Intake

We ingest existing data with no scanning or disruption including firewall configurations, asset inventory, and vulnerability data.

Step 2

Digital Twin Creation

The environment is modeled into a digital twin representing connectivity, segmentation, and control boundaries.

Step 3

Adversary Simulation

We simulate attacker behavior including lateral movement and vulnerability chaining to identify viable paths to critical systems.

Step 4

Results and Readout

You receive validated attack paths, prioritized risks, and recommended mitigation actions.

Scope

- *Selected OT network segments*
- *Relevant IT connectivity*
- *Network infrastructure and controls*

Customer Requirements

- *Network configuration exports*
- *Asset inventory and vulnerability exports*
- *Subject matter expert availability if needed*

No agents, no scanning, and no production impact required.

DATA SOURCE	TYPE	FORMAT
Firewall / Routers	Segmentation	XML, JSON, TXT
Asset / Visibility Platforms	Visibility	XML, JSON, CSV
Vulnerability Scanners	Vulnerability	XML, JSON, CSV
EDR/Sysmon	Endpoint	XML, JSON, CSV

Timeline

Pre-engagment	***Morning - 9a***	***Midday - 12p***	***Afternoon - 3p***	***End of Day - 5p***
Perform data collection	Setup and data ingestion	Create digital twin and simulation	Path analysis and validation	Findings and recommendations