ThreatTrace360 vs. Traditional Scanning: Mapping the Modern Attack Surface

Author – Andrew Smith

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To understand the difference between a vulnerability scan and a ThreatTrace360 scan, it's helpful to first clarify what each does.

Vulnerability Scan:

A vulnerability scan, or vulnerability assessment, is a foundational part of cybersecurity. It's an automated process that uses tools to systematically check systems, networks, and applications for known security weaknesses.

- **What it does:** A vulnerability scanner works by comparing your IT assets (like servers, websites, and firewalls) against a database of known vulnerabilities, such as Common Vulnerabilities and Exposures (CVEs). It identifies things like:
  - Outdated or unpatched software.
  - Misconfigurations.
  - Weak passwords.
  - Unnecessary open ports.
- **Perspective:** Vulnerability scans can be performed from both an "inside" perspective (credentialed) and an "outside" perspective (non-credentialed). A credentialed scan is more thorough because it has access to the system's credentials, while a non-credentialed scan simulates an external attacker.
- **Result:** The output is typically a report listing potential vulnerabilities, often with a severity rating (e.g., high, medium, low). This helps an organization prioritize which issues to fix first.
- **Limitations:** Vulnerability scans are excellent at finding known vulnerabilities, but they may not always provide context on how a vulnerability could be exploited in a real-world attack. They can also produce "false positives," where an issue is flagged but isn't a genuine threat.

ThreatTrace360 Scan:

ThreatTrace360 is powered by CyberMindr which is a platform that goes beyond a traditional vulnerability scan. It's described as a "Threat Exposure Management" or "Attack Path Discovery" platform. While it includes vulnerability scanning, its primary focus is on a more comprehensive, attacker-centric view.

- **What it does:** ThreatTrace360 doesn't just list vulnerabilities; it actively works to validate them and discover potential "attack paths." It combines passive and active techniques, including:

- **Open-Source Intelligence (OSINT):** It gathers data from a variety of public and semi-public sources, including the dark and deep web, hacker forums, and public repositories.
- **External asset discovery:** It looks for a company's "digital footprint" from the outside, just like a hacker would. This includes finding things like exposed APIs, misconfigured cloud services, or "shadow IT" (unauthorized systems).
- **Vulnerability validation:** Instead of just reporting a potential vulnerability, ThreatTrace360 active engine runs "proof-of-concept" exploits (in a safe manner) to confirm if the vulnerability is actually exploitable and eliminate false positives.

❖ **Perspective:** ThreatTrace360 focuses on an "outside-in" perspective, simulating the actions of a real-world attacker to understand what they see and how they might breach a system.

❖ **Result:** The platform provides a more refined, actionable report. It focuses on validated threats and prioritizes them based on their exploitability and potential impact. This helps security teams focus on the issues that matter most.

Key Differentiator: The core difference is the emphasis on **threat exposure and attack path discovery**. It moves from simply identifying weaknesses to demonstrating how those weaknesses could be chained together to form a successful attack.

Summary Table

Feature	Vulnerability Scan	ThreatTrace360 Scan
Primary Goal	Identify known security weaknesses.	Identify and validate exploitable threats and attack paths.
Methodology	Compares systems against a database of known vulnerabilities (e.g., CVEs).	Uses OSINT, asset discovery, and active validation to simulate an attacker.
Perspective	Can be internal (credentialed) or external (non-credentialed).	Primarily external ("outside-in"), mimicking a hacker's view.
Output	A list of potential vulnerabilities, often with severity ratings.	A prioritized list of validated, exploitable vulnerabilities and attack paths.
False Positives	Can be a common issue, requiring manual verification.	Eliminate false positives through active validation.