

Why Fileless Attacks Hide in Memory and How to Detect Them

Malware-free attacks are on the rise.

detected by CrowdStrike were malware-free, up from 51%

MINUTES

is the average time before an attack spreads laterally

* Statistics are from July 2021 to June 2022 — for more insights, see the CrowdStrike 2022 Falcon OverWatch Threat Hunting Report.

Fileless attacks like ransomware, advanced persistent threats (APTs) and dual-use tooling are especially difficult to combat since many use legitimate, built-in OS tools. On top of that, threat actors can orchestrate these attacks entirely in memory.

OF FILELESS ATTACKS



Legacy memory scanning approaches use resource-intensive scans that bring business-critical systems to a crawl.

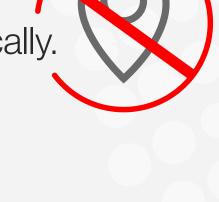
Delayed prevention caused by narrow detection types and arbitrary scan schedules allows threats to potentially advance farther down the kill chain.

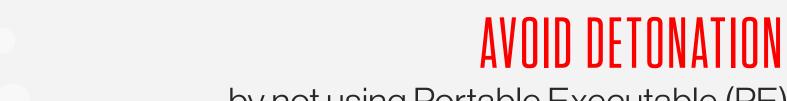
Missed detections can enable a threat actor to move unseen, accessing sensitive data and other high-value assets.

THEY ARE DIFFICULT TO DETECT

NOT TIED TO INDICATORS OF COMPROMISE as they leave little to no trace in memory, and can disappear periodically

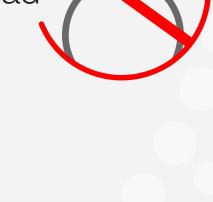
EVADE TRADITIONAL ANTIVIRUS
because they can't be detected by static signatures and file scanning.





by not using Portable Executable (PE) files and instead hijacking legitimate processes to go unnoticed.

EXPLOIT ALLOWLISTING





an attempt to evade detection and prevention.

CROWDSTRIKE GOES BEYOND WITH ADVANCED MEMORY SCANNING THAT DETECTS FILELESS ATTACKS BY

ESOLUIOI

EMPLOYING AUTOMATION to initiate real-time surgical scans through behavior-based



triggers, not tied to arbitrary time intervals.

IMPROVING PERFORMANCE through advanced memory scanning capabilities, developed in partnership

with Intel Corp., eliminating the slog of legacy memory scanning approaches.

ENABLING HIGH-FIDELITY DETECTION and protection across fileless attack types, going beyond

just ransomware and cryptominers.

USING CROWDSTRIKE'S INDICATOR OF ATTACK technology and rapid response team to deliver real-time detection



Register for our CrowdCast

updates enterprise-wide, without the need for sensor updates.

FOR MORE ON ADVANCED MEMORY SCANNING DETE

Visit the CrowdStrike Falcon® Insight XDR webpage

Follow us:











