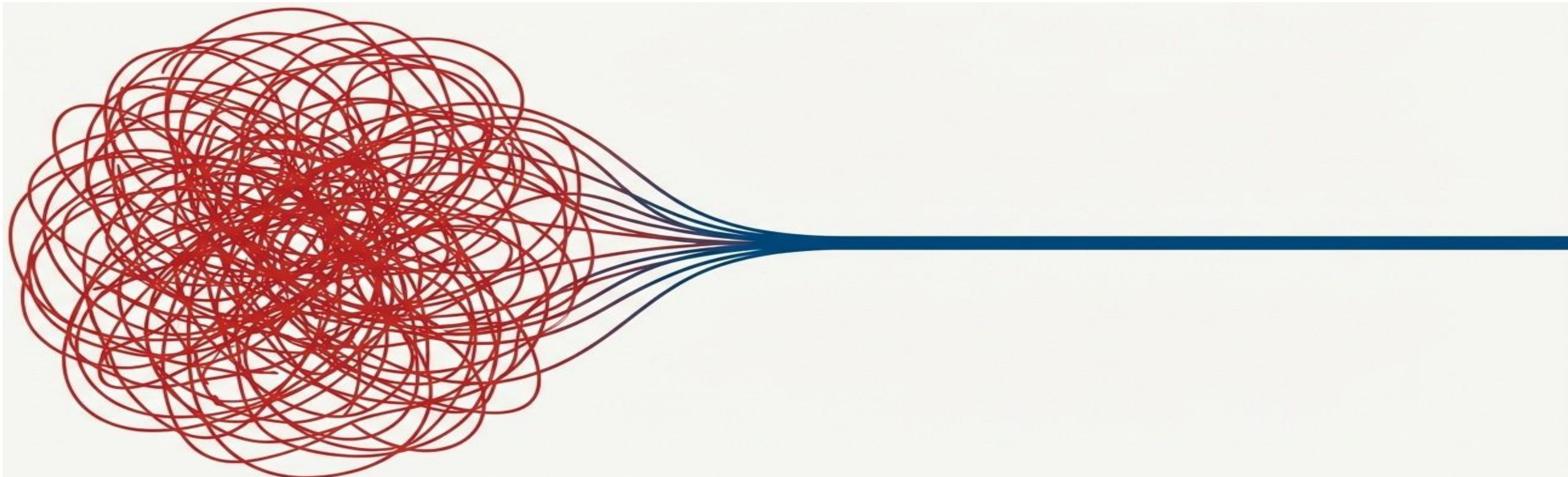


# OnSystemLogic™



## Security is an Infinite Problem, Until Now.

***OnSystem Defender***: From Probabilistic Detection to Deterministic Enforcement.



# Modern Security is Built on a Losing Premise: Chasing Infinite “Bad.”

Traditional solutions assume an effectively infinite attack surface, leading to a predictable set of failures.



**Trusted Software Becomes a Weapon:** Signed and trusted applications are routinely abused to bypass defenses.



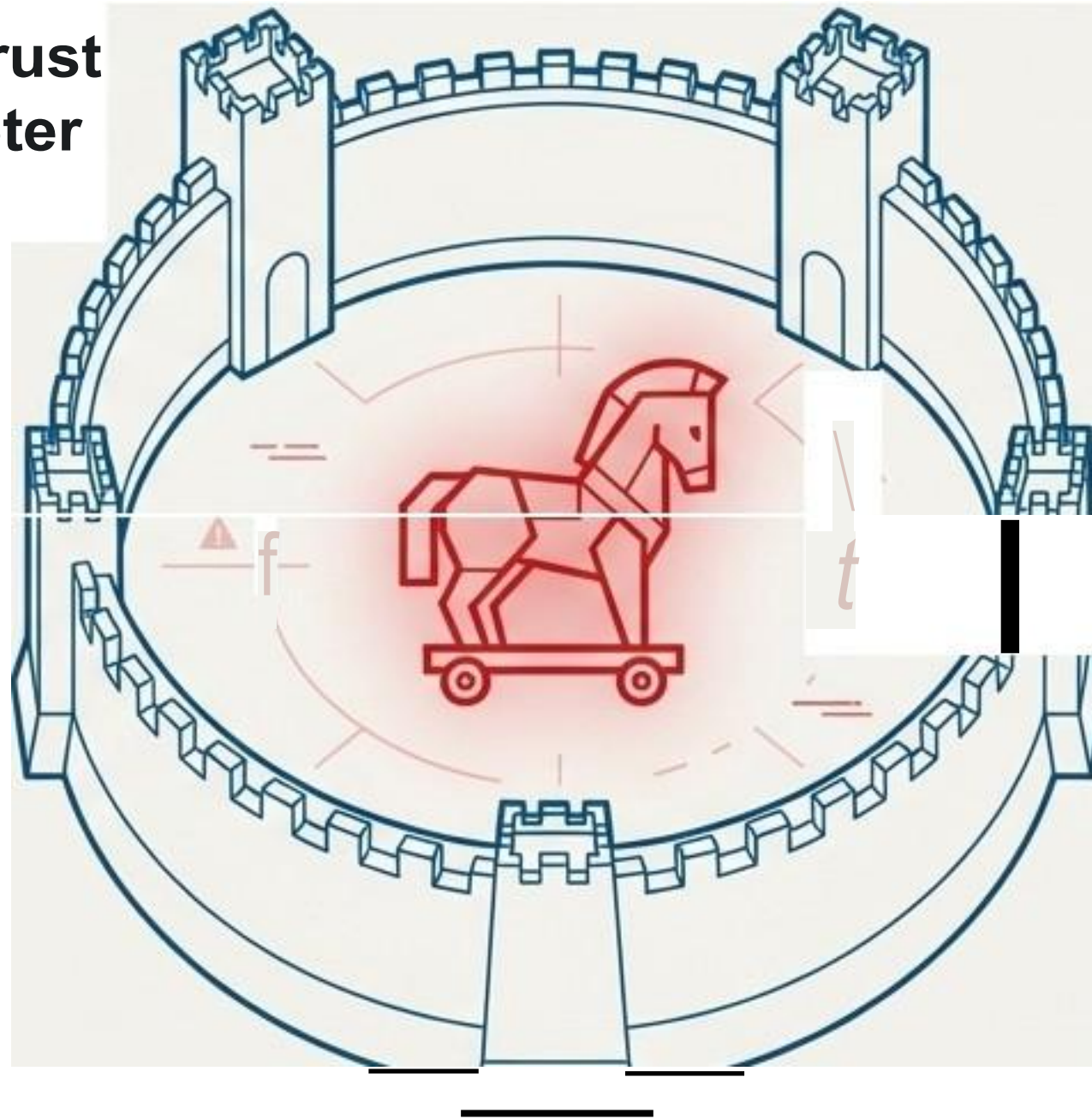
**Memory is the True Battlefield:** Fileless and memory-only attacks bypass conventional file-based controls.



**Alerts Create Noise, Not Clarity:** Security teams are overwhelmed by low-confidence alerts, replacing prevention with detection, response, and cleanup.

# Zero Trust Governs *Authorization*, Not *Execution*.

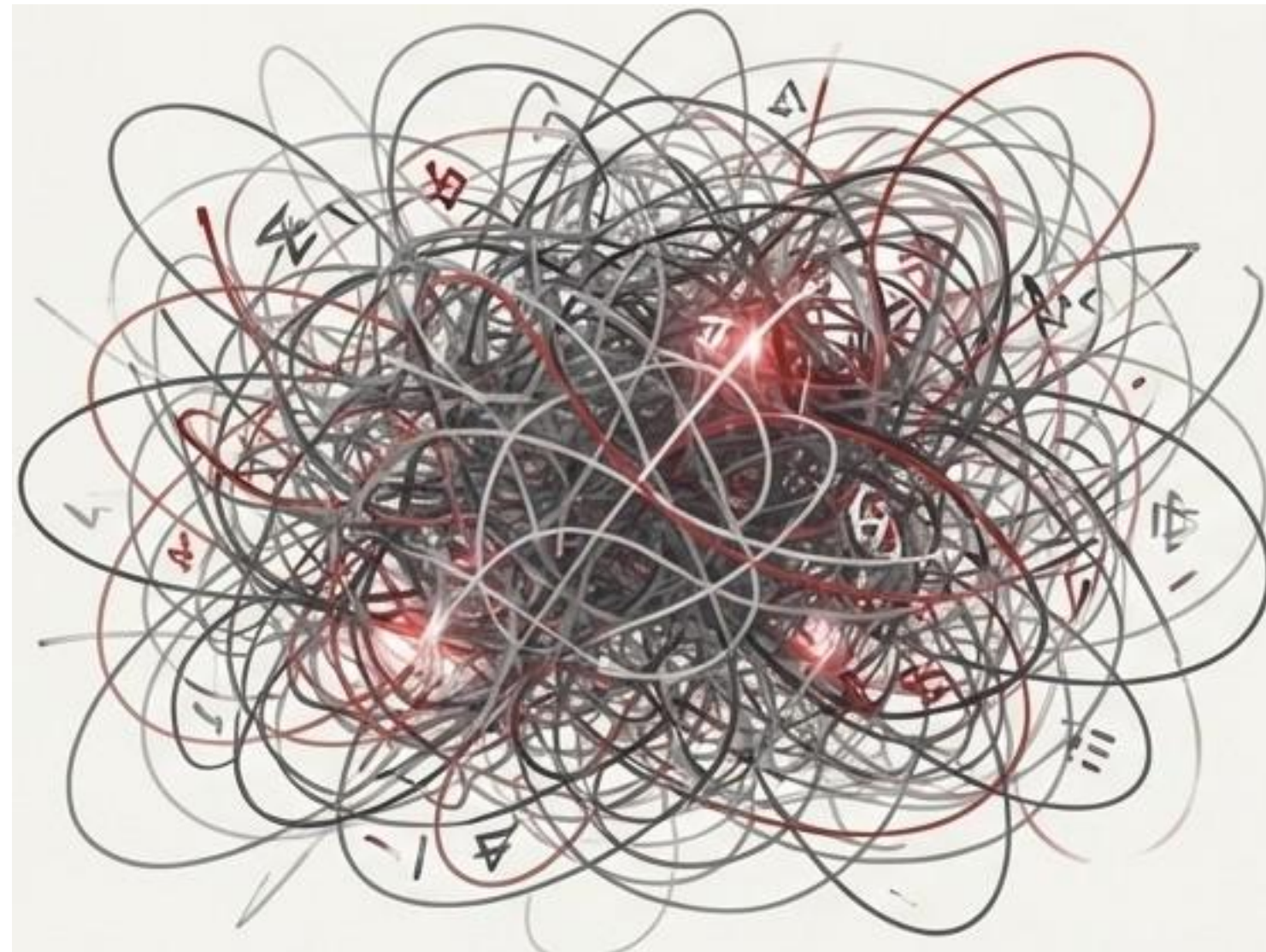
Zero Trust  
Perimeter



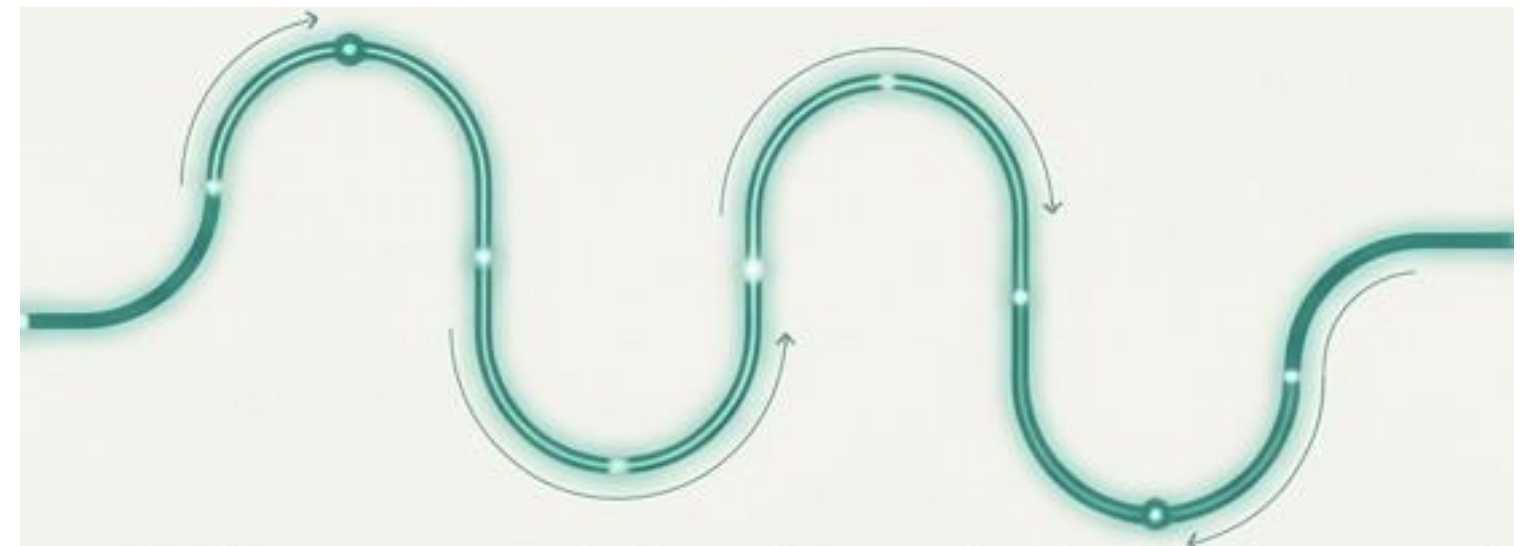
A compromised endpoint renders identity and access controls irrelevant. The device itself is the last line of defense.

- Any data that device can access becomes accessible to the attacker.
- The device becomes a launch point for lateral movement, fully compliant with identity controls.

# Legitimate Software Follows a Finite Number of Paths



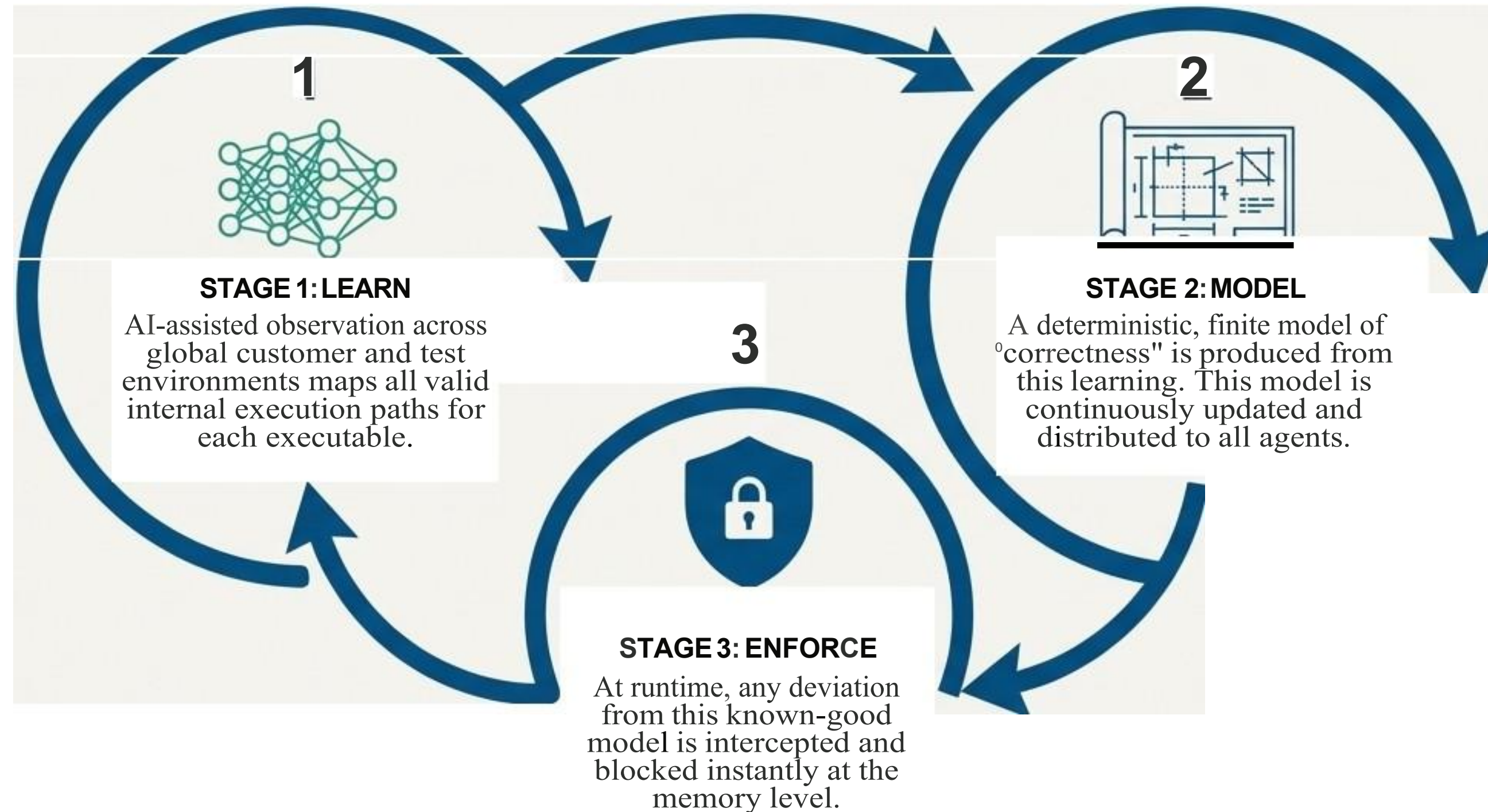
INFINITE ATTACK VECTORS



FINITE EXECUTION PATHS

While there are infinite ways to attack software, legitimate software only executes through a finite set of correct internal code paths. What if security wasn't about finding a needle in a haystack, but simply ensuring the needle stays on its known thread?

# We Learn and Enforce the Finite "Good."



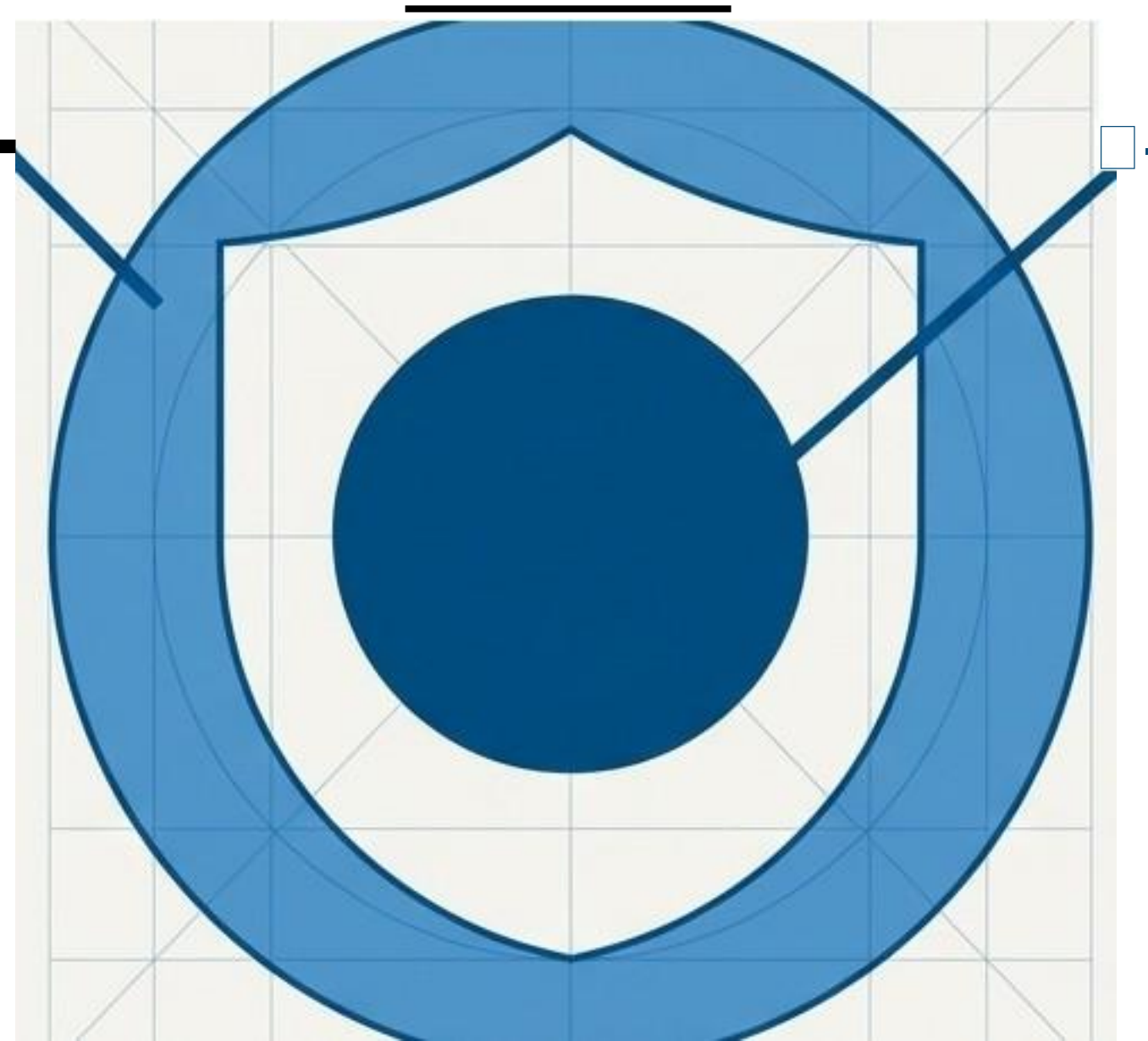
**This process reduces the attack surface from infinite to a small, known, and enforceable set.**

# Two Layers of Deterministic Control

## Outer Layer: Simple Application Control

Controls *what starts*.  
Drastically reduces the initial attack surface with minimal admin effort.

- Relies primarily on digital signatures and software publishers, not manual rules.
- Allows routine updates to work without constant tuning.
- Low operational overhead.



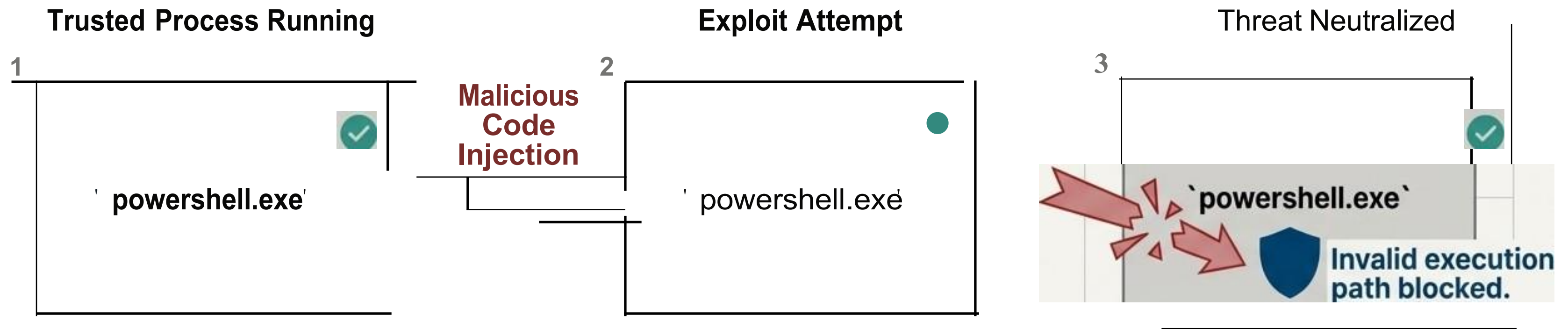
## Inner Core: Deterministic Memory Protection

Controls *how it runs*. Stops exploits inside trusted applications that Application Control has already allowed.

# Stopping Attacks *\*Inside\** the Process

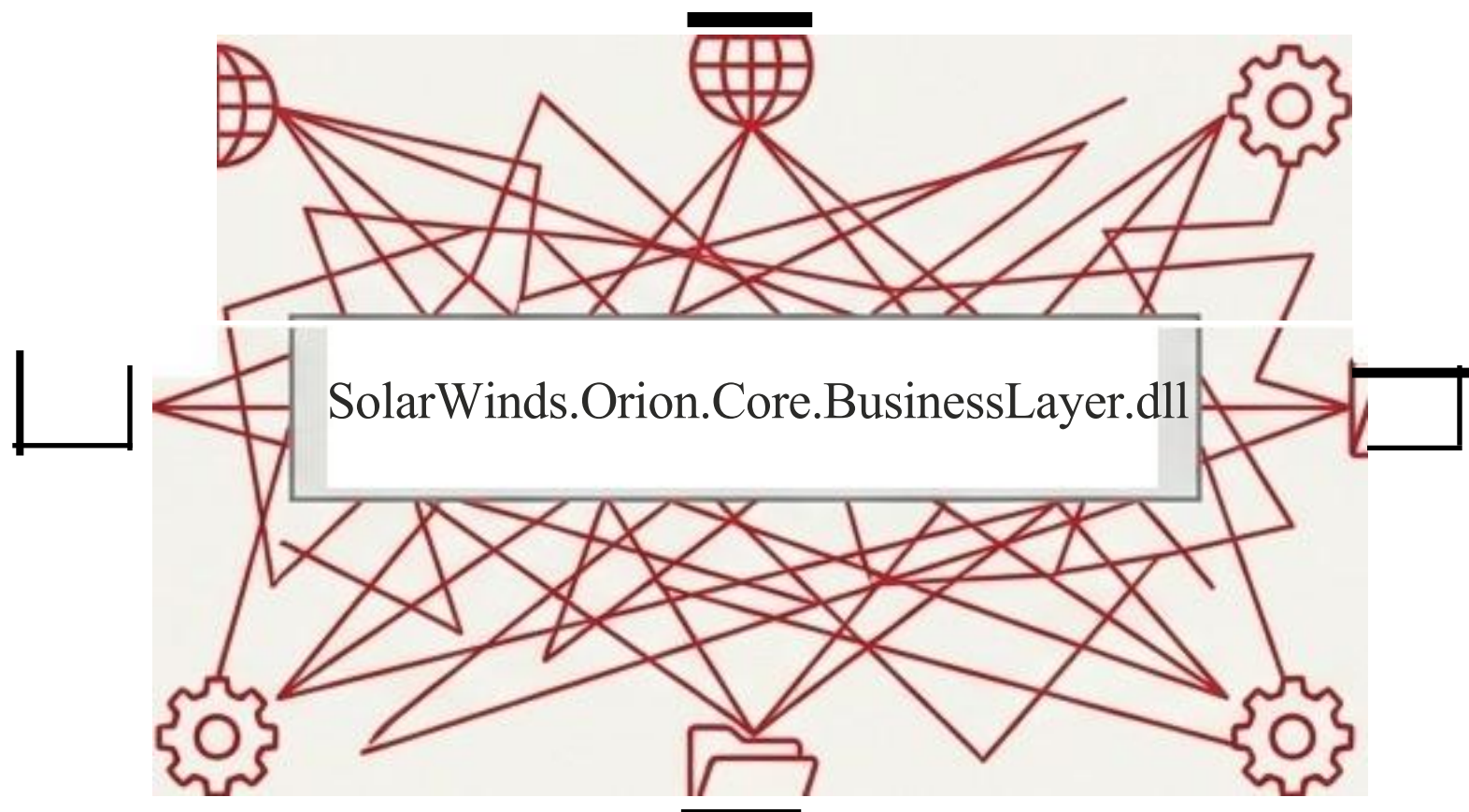
Allow-listing only controls *what starts*. It does not control *what happens next*.

OnSystem Defender closes this critical gap by enforcing deterministic memory protection across **all processes**, including trusted, signed applications. If a trusted application is exploited, OSD neutralizes the threat by blocking the invalid execution path within its memory.



# The SolarWinds Case: Why Ring-Fencing Fails and Internal Enforcement Succeeds.

## Ring-Fencing “Old Way”



Requires predicting all future external behavior.  
Brittle, complex, and doesn't scale operationally.

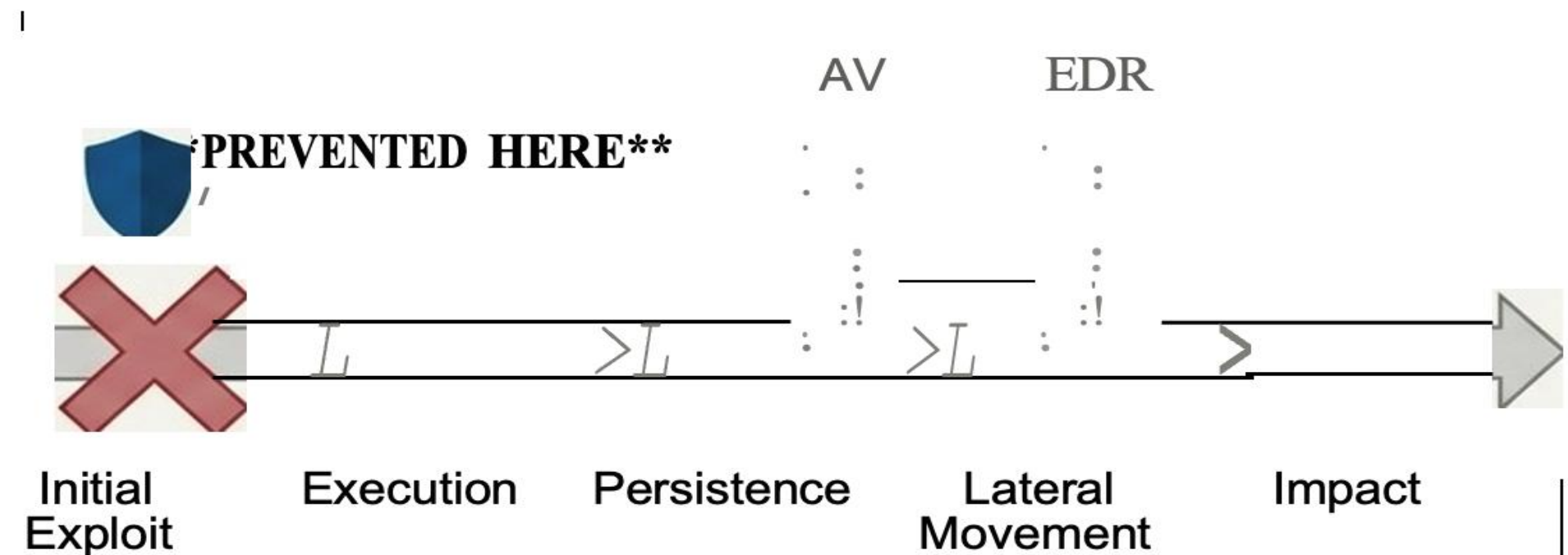
## OSD Internal Enforcement “New Way”



Stops the malicious code at its source, independent of external behavior. Protection is automatic and absolute.

# The Result: An Attack Stopped at the First *Invalid Instruction*.

- Zero-Day & N-Day Exploits (including unpatched vulnerabilities)
- Fileless & In-Memory Attacks
- Software Supply-Chain Attacks (like SolarWinds)
- Living-off-the-Land (LotL) Techniques & Abuse of Trusted Software



# Block with Confidence or Detect with Certainty



## Prevention Mode

Instantly blocks any invalid execution.

The attack never progresses.

**Result: No damage, no cleanup, no incident response cycle.**



## Detection-Only Mode

Generates extremely high-confidence attack indicators.

Confirms *actual exploitation*, not just theoretical risk.

**Result: Ends alert fatigue and provides SOC/MDR teams with zero-noise, actionable intelligence.**

# Powerful Security, Designed for Enterprise Reality.



## Effortless Rollout

Deploy in detection-only mode first to ensure seamless integration and verify no system incompatibilities.



## Negligible Footprint

Minimal impact on system resources. (Negligible CPU/memory usage, 360 MB storage requirement).



## Automated Protection

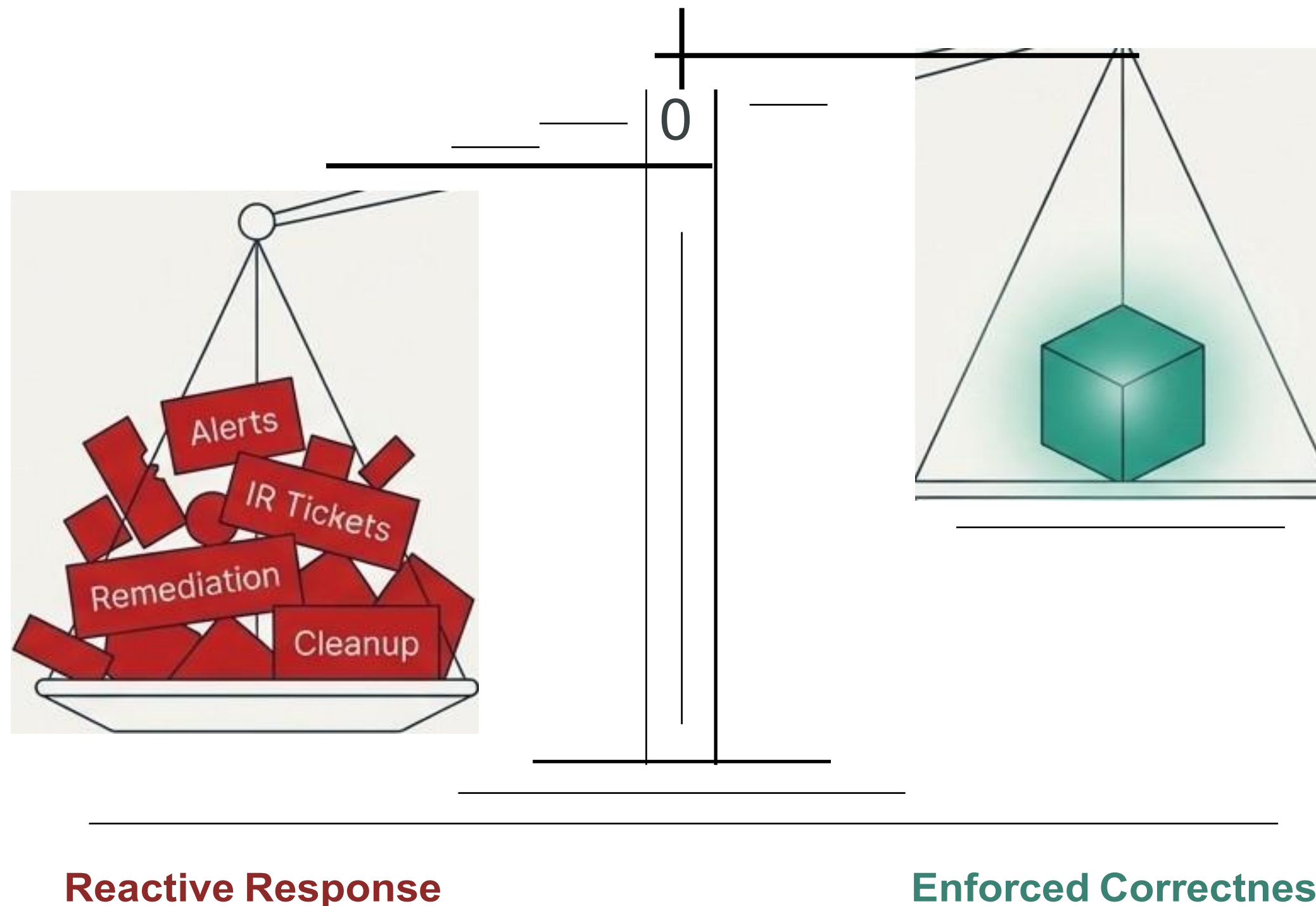
Centralized learning by OnSystem Logic for memory events means no manual rule authoring is required from administrators.



## Flexible Architecture

Natively supports both connected and fully air-gapped environments.

# Move from Probability-Based Detection to Enforced Correctness



## The Strategic Benefits:

Dramatically reduced risk from novel and zero-day attacks.

Increased operational efficiency for security teams.

A fortified Zero Trust architecture where execution is as trusted as identity.

# The OnSystem Defender Difference.

1. **The Premise:** Enforce the finite set of 'good' execution paths, don't chase an infinite list of 'bad' behaviors.
2. **The Technology:** A simple, publisher-centric Application Control layer combined with deterministic Memory Protection that secures trusted processes from within.
3. **The Result:** True prevention of modern attacks, zero-noise detection signals, and minimal operational overhead.

# See Deterministic Enforcement in Action.

[Request a Live Demo](#)

[Start a Proof of Concept \(POC\)](#)

[info@onsystemlogic.com](mailto:info@onsystemlogic.com)

[www.onsystemlogic.com](http://www.onsystemlogic.com)

# OnSystemLogic™



## A Final Perspective.

- Zero Trust without runtime enforcement leaves the endpoint exposed.
- Traditional Application Control limits what runs, but not how trusted software is abused.
- *OnSystem Defender* uniquely enforces correct execution *inside* every process, preventing modern attacks while allowing legitimate software to operate normally.

**This is deterministic security, built for real enterprise environments.**