




A spin-off from **Illinois ARCS** and
Singapore University of Technology and Design (SUTD)



This research is supported by the National Research Foundation, Prime Minister's Office, Singapore under its Campus for Research Excellence and Technological Enterprise (CREATE) programme.

This research is funded by the National Research Foundation, Singapore (NRF) through the National Cybersecurity R&D Programme (NCRP) administered by Cyber Security Agency of Singapore (CSA) and is in collaboration with GovTech and Singapore University of Technology and Design (SUTD).

Find Us

 1 Create Way, CREATE Tower,
#14-02, Singapore 138602

 www.overarx.com

 www.illinois-arcs.edu.sg

SMARTER THREAT MODELING

Stronger Security Investments

Strategic threat modeling to power business-aware cyber security

Problem Statement

Threat modeling complex systems is costly, inefficient, and challenging to scale.

Huge financial losses when cyberattacks succeed



Increased spending on risk assessments to build trust in security



Excessive manpower and effort invested in implementing security controls



ThreatMirror SOLUTION

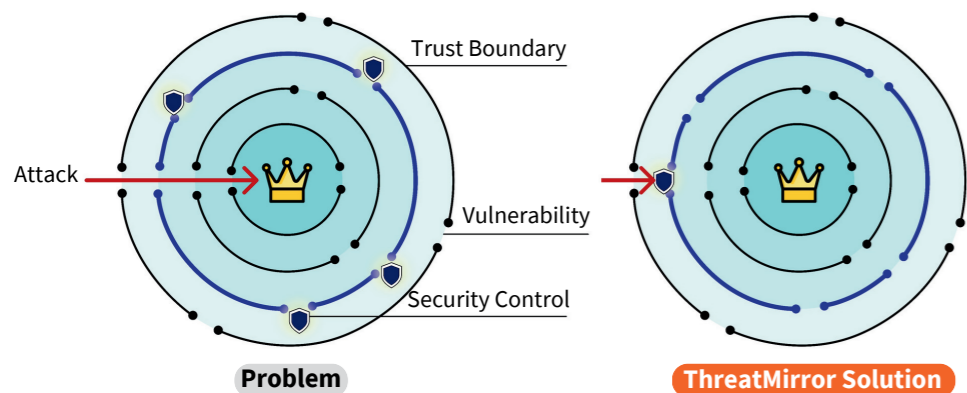
AI-Enabled Threat Modeling Consultant

ThreatMirror offers accessible threat modeling by providing customer-specific insights that increase the security health of the customer's system. The product applies AI-assisted algorithms to:

- Identify the most critical threats to a system, and
- Recommend targeted countermeasures that optimize protection per cost

Unlike checklist-based approaches, ThreatMirror builds threat models on real-world attack behavior and adapts them to each system, providing contextualized and relevant insights.

CONCEPT: Stopping the attacker in their tracks



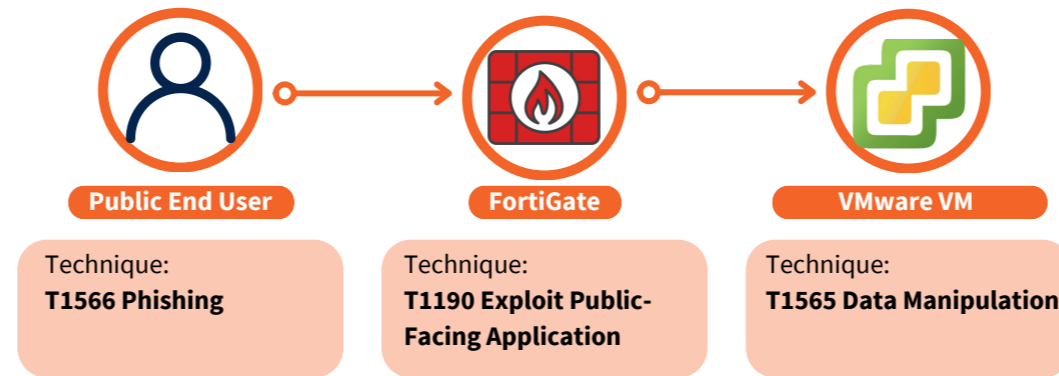
The Threat Modeling Lifecycle

Integrating security as the core component in the system

HOW IT WORKS

- 1 Project owner uploads existing system documentation.
- 2 Project owner asks **ThreatMirror** to run threat assessment.
- 3 Developers and architects implement **ThreatMirror's** recommended security controls.
- 4 Developers and architects update implementation progress.
- 5 Project owner and CISOs/CTOs view the residual system risk.

WHAT WE PROVIDE



- Upload system diagrams or Infrastructure-as-Code.
- View attack campaign details (i.e., expected business impact, exploited vulnerabilities, attack path).
- Export threat modeling results in *.csv*, *.pdf*, or *.json* format.
- Generate compliance reports based on implementation progress of countermeasures.



Product Key Features



Seamless Project Onboarding

Save time and reduce errors by automatically reusing existing system documentation.



Behavior-driven Threat Analysis

Improve threat fidelity by grounding abstract threats in real attack workflows.



Pinpointed Defence Strategy

Drive smarter security decision by ranking mitigations according to business risk.



Continuous Threat Modeling

Maintain system security health by updating threat models during all phases of system lifecycle.



Connected Security Ecosystem

Boost productivity by integrating with existing security and project management tools.

Benefits of Adopting ThreatMirror



5x Faster Threat Modeling



Actionable Top 10 Countermeasures



Reliable, Reproducible Results