

RunSafe Security proactively protects embedded software for both commercial and defense deployments across critical infrastructure, with comprehensive **risk identification, protection, and monitoring, ensuring robust, continuous security without affecting performance.**

THE PROBLEM

Organizations face critical challenges in managing scarce resources due to the constant need for software patching, minimizing disruptions to customer operations, and enhancing security compliance to remain competitive in the market. Current best practices fall short, as **memory-based vulnerabilities account for 70% of embedded software defects**, leaving these issues unresolved. RunSafe Security directly addresses these challenges, offering solutions to mitigate these persistent problems.

OUR SOLUTION

The RunSafe Security Platform delivers comprehensive cybersecurity solutions for embedded systems deployed across critical infrastructure. It includes capabilities to generate software bill of materials (SBOMs), identify vulnerabilities, and quantify reductions in attack surfaces. Unique memory relocation techniques prevent memory-based exploits while maintaining system performance.

The platform also offers a repository of pre-hardened open-source packages and containers for immediate protection. Our monitoring of runtime crash data distinguishes between bugs and attacks, ensuring precise incident response and enhancing overall software security and resilience.

At RunSafe Security, we are leading the way in advanced cybersecurity solutions to counteract the imbalance in cyber defense and attacker's capabilities. Inspired by the need to shift power back to defenders, our mission is to make it economically inefficient and operationally infeasible for attackers to succeed.

Our innovations disrupt the attacker's status quo by deploying simple yet powerful solutions that create significant economic advantages for defenders. This proactive defense approach is essential in enhancing resilience and security for both commercial and defense sectors, addressing the evolving threats faced by organizations today.

BENEFITS

- **Generate SBOMs**
- **Identify Vulnerabilities**
- **Quantify Attack Surface Reduction**
- **Prevent Exploitation**
- **Monitor Software Crash Events**

RUNSAFE IDENTIFY

RunSafe Identify generates software bill of materials for embedded systems, identifies vulnerabilities present in software, and quantifies available risk reduction technologies for the identified vulnerabilities. By offering insights into software components, vulnerabilities and effective mitigation strategies, RunSafe empowers organizations to enhance the resilience of their software against evolving cyber threats.



RUNSAFE PROTECT



RunSafe Protect mitigates cyber exploits by relocating software functions in memory every time the software is run, resulting in a unique memory layout, preventing attackers from exploiting memory-based vulnerabilities. This approach maintains system performance and functionality without modifying the original software. Additionally, RunSafe offers a repository of pre-hardened open-source packages and containers, providing immediate protection against attacks in open source software commonly used in proprietary software.

RUNSAFE MONITOR

RunSafe Monitor provides real time crash data, along with heuristics to determine whether a crash was a software bug or the result of a cyber attack. This capability enables precise triage, minimizing time and effort wasted on false positives. RunSafe's passive monitoring listens for software crashes, collecting data on stability, reliability, and potential vulnerabilities. When a crash occurs, this data is swiftly directed to incident response teams for accurate and efficient triage, enhancing overall software security and resilience.



ABOUT RUNSAFE SECURITY, INC.

RunSafe Security proactively protects embedded software for both commercial and defense deployments across critical infrastructure, with comprehensive risk identification, protection, and monitoring, ensuring robust, continuous security without affecting performance. Headquartered in McLean, Virginia, with an office in Huntsville, Alabama, RunSafe Security's customers span the aerospace, defense, energy, industrial, and national security verticals. Learn more at: RunSafeSecurity.com.