SimSpace Stack Optimizer "StackOp" Datasheet

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Your security stack isn't fully optimized, resilient, or ready for what's next.

Your security tools should work for you—not against you. Stack Optimizer empowers you to test, optimize, and validate your entire security stack in a hyper-realistic replica of your IT/OT/Cloud environment. Identify inefficiencies, eliminate redundancies, and fine-tune your defenses with precision—before threats or changes impact production.

Overview

Stack Optimizer, or "StackOp", is a security and technology performance benchmarking and optimization capability that utilizes SimSpace's advanced cyber range infrastructure to provide a hyper-realistic environment for testing, benchmarking, and optimizing security tools and IT infrastructure. Organizations can evaluate tool performance, refine security workflows, enhance detection engineering, and validate compliance—all without disrupting production environments.

Why StackOp?

Realistic Simulation Testing

Test under real-world attack conditions using real-world network infrastructure, operating systems, and security tools.

Holistic Security Validation

Benchmark performance across SIEM, EDR, firewalls, IDS/IPS, SOAR, cloud security, and network infrastructure.

Actionable Optimization

Reduce unnecessary security spend, refine security controls, and eliminate redundant capabilities.

Continuous Improvement

Align security strategies with industry best practices through ongoing testing and adaptation.

Capabilities

Tech Stack Benchmarking

- Assess security tool inventory and baseline performance.
- Test security tools under simulated threats and operational stress.
- Analyze detection and response effectiveness.
- Evaluate tool integration and workflow efficiency.
- Benchmark performance against industry standards.

Detection Engineering

- Integrate security tools and data sources for enhanced detection.
- Develop and refine detection rules and signatures.
- Simulate adversary tactics to test rule effectiveness.
- Evaluate rule performance through automated and manual testing.
- Continuously tune and improve detection capabilities.

Process Optimization

- Map current workflows & identify bottlenecks.
- Assess security tool integration and process efficiency.
- Review incident response and escalation pathways.
- Enhance automation and orchestration for faster response.
- Test operations under simulated stress conditions

How Does It Work?
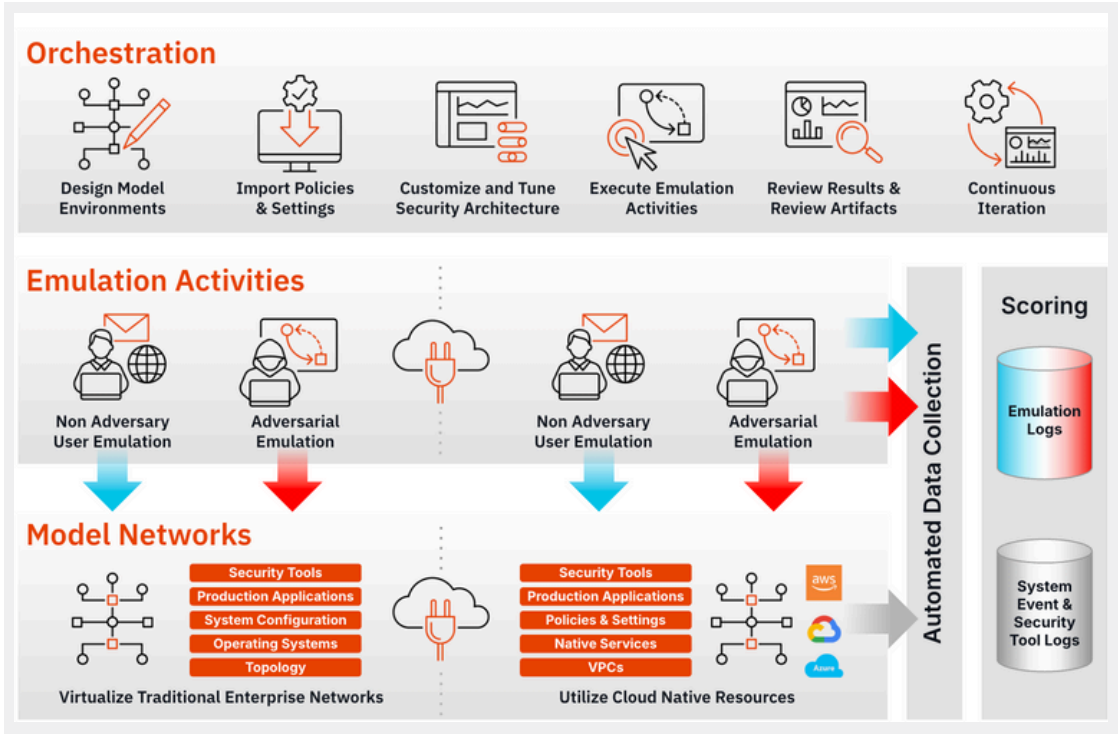
- **Seamless Single Experience to Orchestrate All Testing Activities**

- **Model Traditional and Cloud Enterprise Environments**

- **One Click Blueprints for Rapid Testing**

- **Turn Key Emulation Services**

- **Automated Data Collection and Scoring**

Build Fast

Quickly deploy security environments using prebuilt templates or custom networks, seamlessly integrating existing policies and security tools for immediate evaluation.

Flexible Configuration

Customize, scale, and refine security architectures with user activity emulation and threat simulations to ensure real-world readiness.

Optimize

Continuously stress-test, analyze, and optimize security configurations with detailed emulations and actionable insights for peak performance.

Enhance Your Cybersecurity Readiness

Discover how StackOp helps organizations optimize security tool performance, streamline SOC workflows, and validate compliance—all within a controlled, risk-free environment.

SCHEDULE A **DEMO** WITH OUR TEAM

TECH STACK BENCHMARKING

DETECTION ENGINEERING

PROCESS OPTIMIZATION

✓ **Enhanced Threat Detection & Response Accuracy**

✓ **Reduced Alert Fatigue & SOC Operational Overhead**

✓ **Optimized Tool Performance & Workflow Efficiency**

✓ **Strategic Justification for Security Investments**