siberSIM

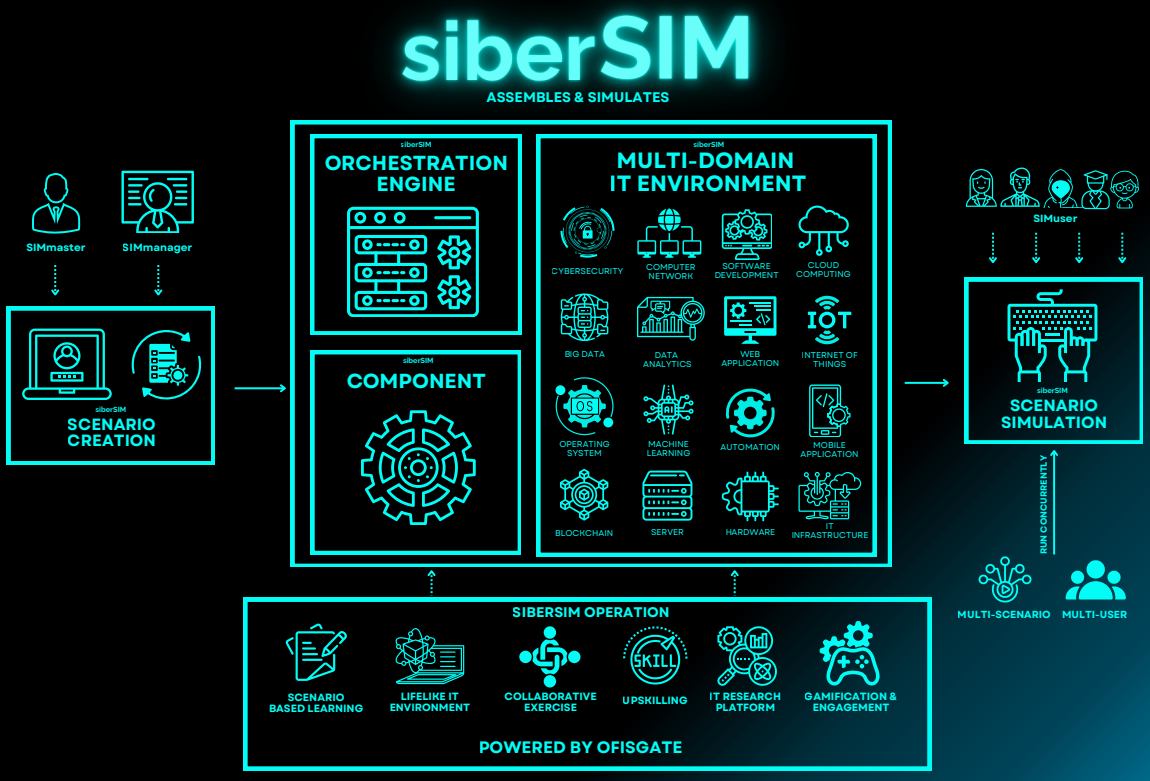
Revolutionize Your Cyber Readiness

Assembles & Simulates

PEOPLE. PROCESS. TECHNOLOGY - THE GAPS siberSIM IS CLOSING

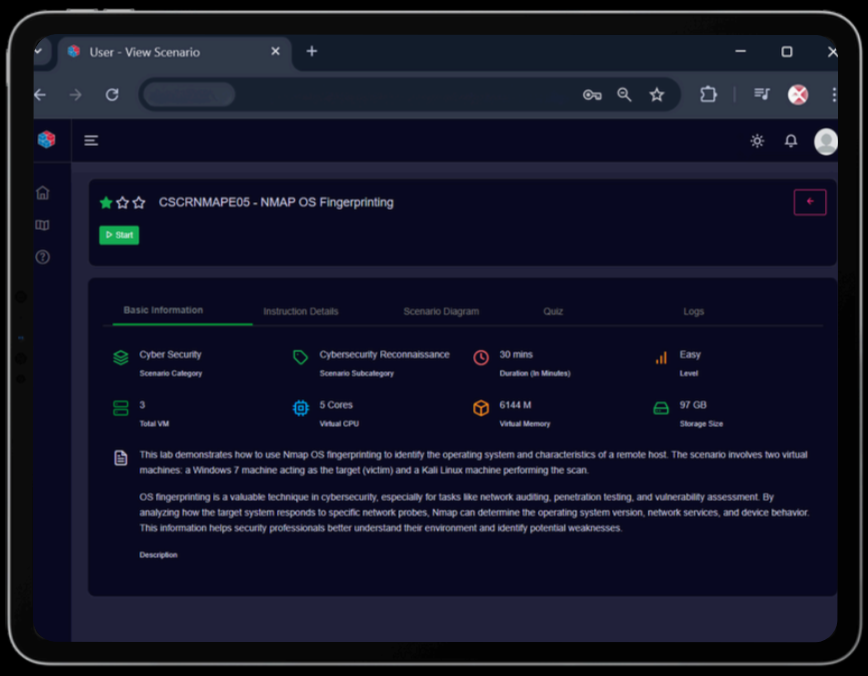
Across IT industries, organizations face the ongoing challenge of enhancing readiness, validating capabilities, and driving innovation within complex digital environments. Traditional training approaches, static labs, and product-specific simulation platforms often lack the realism, flexibility, and cross-domain integration needed to replicate true IT ecosystems.

siberSIM bridges this gap with a lifelike, scenario-driven simulation platform that enables users to design, test, and experience realistic IT and cyber operations across multiple domains—including network, system, application, database, and security layers. By transforming theory into practice, siberSIM empowers teams to strengthen operational resilience, accelerate learning, and foster continuous innovation.



siberSIM Core Features

Scenario-Based Learning



siberSIM transforms IT and cybersecurity simulation into impactful, scenario-based learning experiences that replicate real-world challenges. Each scenario is carefully designed to align with global IT and cybersecurity frameworks such as MITRE ATT&CK, NIST NICE, ISO/IEC 27001, NIST Cybersecurity Framework (CSF), ITIL, COBIT, and ISO/IEC 20000 — ensuring users develop competencies that are practical, measurable, and aligned with industry best practices.

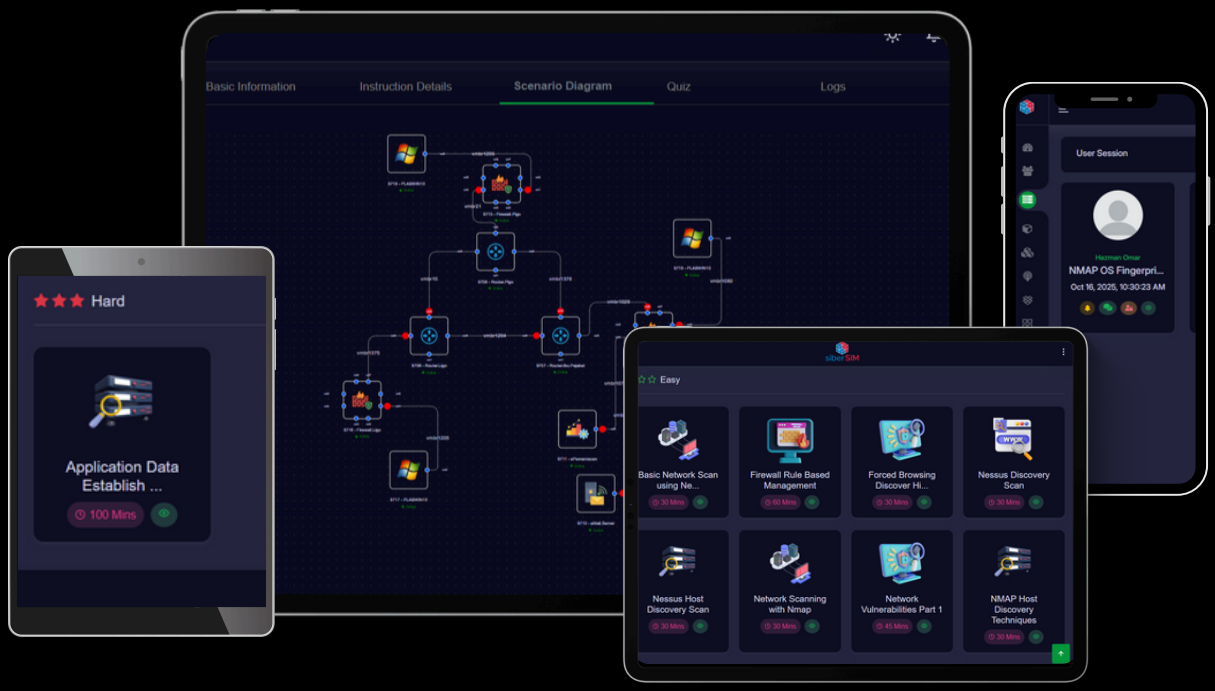
Through guided scenario modules, users progress from fundamental to advanced scenarios — building technical mastery, decision-making, and problem-solving skills in realistic environments. Every scenario includes structured objectives, expected outcomes, and performance metrics, enabling measurable competency development for individuals and teams.

To enhance engagement, **siberSIM** integrates gamification elements such as hackathons, team competitions, and challenge-based exercises, motivating users through collaboration, innovation, and achievement recognition.

Key Benefits

- Encourages hands-on skill building by allowing users to learn through direct interaction with real IT systems, networks, and tools rather than through theoretical practice.
- Provides a structured learning path with progressive difficulty levels from Easy to Medium to Hard and guiding users through increasing stages of complexity and realism.
- Users can develop and upload their own custom scenarios, enabling full flexibility for organization-specific challenges, systems, and frameworks.
- Empowers engaging and realistic scenarios that enhance retention, teamwork, and decision-making skills.

Lifelike IT Environment Simulations



siberSIM delivers lifelike IT environment simulations that mirror real-world infrastructures down to the network, system, and application level. Built on an IP-driven, real-stack simulation engine, it enables users to replicate true enterprise ecosystems where every system, device, or service interacts naturally, just as it would in production.

siberSIM stands out for its ability to go beyond tool-specific or single-purpose simulations by integrating diverse components across multiple IT domains such as network, system, application, database, and security, bringing them together into one cohesive and interoperable simulation platform.

Through its hybrid simulation capability, siberSIM connects virtual environments with external hardware and systems enabling realistic, end-to-end testing and validation across both digital and physical infrastructures.

Key Benefits

- Users experience realism without risking live systems
- Provides real-world end-to-end simulation and realistic behavior modeling across enterprise, education, government, and research settings.
- Eliminates the need for separate, tool-specific simulators and promotes holistic training and system validation.
- Simplifies management, improves efficiency, and supports scalability for enterprise, academic, and R&D use.

Unified Web-Based Platform

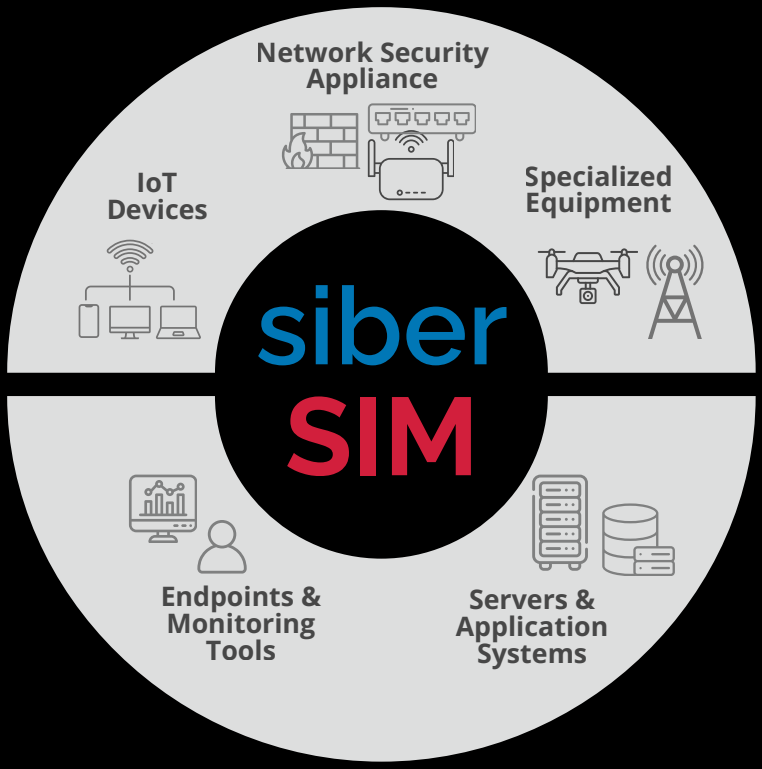
siberSIM is a fully web-based simulation platform accessible from any device, offering an intuitive and centralized interface for effortless scenario creation, deployment, and monitoring. With no VPNs, no RDPs, and no complex installations required, users simply log in through a browser to access, control, and manage their entire simulation environment.

Its drag-and-drop architecture simplifies complex infrastructure design, allowing instant configuration of networks, systems, and tools through a clean visual interface. Administrators can monitor, intervene, assist, or reset simulations in real time, all from a single pane of glass.

Key Benefits

- Access simulations anytime, anywhere, using only a web browser.
- No client installation or remote access required; instant login and operation.
- Manage multiple users, teams, and simulations from one centralized dashboard.
- Visually create and adjust simulation topologies within minutes.
- Users can quickly build and deploy complex simulations through an intuitive web interface, enabling rapid scenario provisioning, instant environment setup, and faster training or testing cycles.
- Administrators (SIMmaster), instructors (SIMmanager), and users (SIMuser) can collaborate seamlessly with defined permissions and visibility.
- Compatible with diverse IT and cybersecurity tools across network, system, application, and security domains.
- Delivers a smooth user experience and unified interface for all users, enhancing productivity and collaboration.

Support Hybrid Simulation



siberSIM enables seamless integration between virtual simulations and real physical devices, systems, or external environments. This hybrid capability bridges the gap between virtualized learning environments and real-world infrastructure, allowing organizations to train, test, and validate their IT or cybersecurity systems in true end-to-end scenarios.

By combining real hardware and software with emulated networks, systems, and applications, siberSIM creates a realistic, secure, and controlled environment for experimentation without disrupting production operations.

Key Benefits

- Reduces the need for full physical testbeds by allowing organizations to blend virtual environments with selected real devices, resulting in significant cost efficiencies.
- Expand simulations progressively starting from virtual-only labs to complex hybrid infrastructures.
- Enables end-to-end validation of processes, SOPs, and technical readiness in realistic conditions.
- Ideal for R&D and product testing as it supports rapid prototyping and safe experimentation.

Multi-Tenant

siberSIM is designed to support multi-tenant architecture, enabling multiple departments, faculties, or organizations to share a single platform instance securely and efficiently.
Each tenant, whether a faculty, department, or team able to operates within its own isolated environment with unique user logins, access controls, and data segregation, ensuring privacy and autonomy while benefiting from shared infrastructure resources.

Key Benefits

- Multiple teams can operate independently within one centralized platform, maintaining data separation and security.
- Cost effective by eliminating the need for multiple simulation servers as a single siberSIM platform isupports multiple user groups, reducing hardware and licensing costs.
- Supports a large user base with custom roles, credentials, and permissions per tenant.
- Ideal and flexible deployment for universities, enterprises, and government agencies where multiple departments require separate learning or testing environments.
- Administrator can monitor usage, performance, and tenant activities from a unified dashboard.
- Encourage cross collaboration where tenants can share or collaborate on scenarios when authorized, promoting knowledge exchange and teamwork.

Scalable - Built to Grow With You

siberSIM is built on a highly scalable architecture that allows organizations to start small and expand effortlessly. Users can begin with a limited number of scenarios and participants, and later scale up to support larger, more complex simulations as your needs evolve. This scalability ensures long-term flexibility, making it suitable for both small teams and enterprise-level multi-tenant deployments.

Key Benefits

- Support flexible growth where users can begin with minimal configurations and easily scale up to hundreds of scenarios or users and complex multi-domain simulations.
- Scale progressively based on actual usage and budget availability, avoiding unnecessary upfront investment.
- The modular architecture ensures easy upgrades, scenario additions, and integration with new technologies.

What siberSIM Can Simulate

By supporting more than 100+ of industry-recognized open source and commercial tools and platforms, **siberSIM** delivers unmatched flexibility to build realistic and end-to-end IT environments

Operating Systems & Platforms

Databases & Storage Systems

Network & Security Tools

DevOps, Automation & Application Stacks

SOC, SIEM & Monitoring Systems

Network Services & Directory Systems

Web & Applications Security Platforms

AI, ML & Data Analytics

Note:
The tools and platforms listed above represent only part of the extensive ecosystem that siberSIM is capable of simulating. siberSIM also supports the integration of additional open-source and commercial components, subject to the requirements of each scenario package and the available simulation resources allocated within the platform. For commercial tools, any required software licenses or subscription may incur additional charges. All tool inclusions, custom integrations, and scenario-specific configurations can be discussed and tailored based on project needs, and are subject to applicable terms and conditions.

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Experience Endless Possibilities for Realistic, Skill-Based IT Simulations

Cybersecurity Operations

- Red and Blue Team Exercises
- Incident Response & SOC Analysis
- Threat Hunting & Forensic Investigation
- Malware Analysis
- Security Monitoring & Alert Correlation

IT Infrastructure

- Enterprise Network Design
- System Integration & Interoperability Test
- Virtual Data Center Deployment
- Multi-Vendor Device Configuration Test
- Connectivity Test

System Performance

- Database Replication & Failover
- System Load and Stress Test
- Backup and Restoration
- Disaster Recovery Drill
- Performance Benchmarking

Research, Development & Innovation

- Product Prototyping
- Real Environment Replication
- Proof-of-Concept
- IoT SimulationDevice Behavior Modeling
- Research & Development (R&D) Studies

Education, Training & Skill Development

- Scenario-Based Learning Labs
- Technical Skill Development & Assessment
- Competency Tracking & Performance Analytics
- Industry-Aligned Framework Scenarios

Gamification & Competitive Learning

- Hackathons
- Capture-the-Flag (CTF)
- Team-Based Competitions and Challenges
- Instructor-Led Challenge
- Performance Analytics and Progress Tracking

Contact Us

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