# Modern Cyber Range vs. Traditional Cyber Range

With increasingly sophisticated cyber threats, organizations need more than theoretical knowledge to stay secure—they require hands-on, real-world training and testing. Traditional cyber ranges have long provided such environments, but the modern cyber range takes this a step further. It offers a dynamic, scalable platform that mirrors real-world networks, allowing cybersecurity professionals to train and test their skills in a controlled, safe setting.

## What Is a Modern Cyber Range?

A modern cyber range is a highly realistic virtual environment where individuals and teams can train, test, and assess their cybersecurity defenders, tools, and processes. Testing is a critical differentiator of modern cyber ranges, allowing organizations to simulate advanced threats, validate their security stack, and identify gaps in real-world conditions. These environments enable continuous testing of tools, processes, and team readiness, ensuring that defenses remain robust against emerging attack techniques.Unlike traditional ranges, which often rely on static environments and limited scenarios, modern cyber ranges are:

**Dynamic and Scalable:**
Capable of simulating an organization's entire IT, OT, and cloud infrastructure with real-time updates.

**Customizable:**
Tailored to mirror specific environments and threats unique to the organization.

**Advanced in Threat Simulation:**
Featuring real-world attack scenarios, from ransomware to insider threats, in a controlled, repeatable environment.

| Feature | Traditional Cyber Range | Modern Cyber Range |
|---|---|---|
| *Environment* | Static, pre-defined setups | Dynamic, customizable, mirrors real networks |
| *Scalability* | Limited | Scalable, supports small teams to entire organizations |
| *Threat Scenarios* | Basic simulations | Complex, real-world attack simulations |
| *User Behavior Emulation* | Limited or no emulation of realistic user behavior | Advanced emulation of user behaviors to mirror real-world activities |
| *Customization* | Fixed environments | Fully customizable, adaptable to unique needs |
| *Automation* | Manual Setup Required | Automated environment setup through APIs and IaC |

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## The SimSpace Platform: Leading the Modern Cyber Range Landscape

SimSpace is the premier cyber range platform trusted by top organizations, including government agencies and Fortune 500 companies, to enhance their cyber defenses. Our platform provides an unparalleled blend of realism, scalability, and customization, enabling organizations to simulate their exact environments and train their teams to respond to evolving threats.

## Key Features of SimSpace's Modern Cyber Range:

**Realistic Environment Modeling:**
SimSpace models your organization's infrastructure, replicating real-world conditions so your team can train in an environment that mirrors their day-to-day operations.

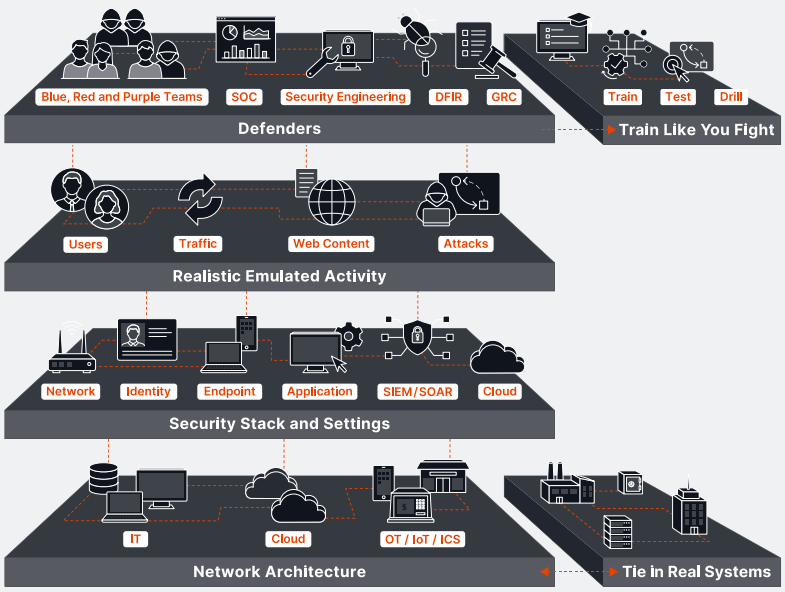
**Advanced Threat Emulation:**
From phishing attacks to zero-day vulnerabilities, SimSpace offers scenarios that reflect the most current and dangerous threats, providing hands-on experience in identifying and mitigating cyber risks.

**Scalability and Flexibility:**
Whether a small team or a global enterprise, the SimSpace platform scales to meet your organization's unique needs, with flexible deployment options on-premises or in the cloud.

**Customizable Training and Testing:**
With SimSpace, everyday users can use our intuitive graphical interface to design tailored environments, while power users can leverage APIs and infrastructure as code (IaC) for deeper customization and automation.

**Comprehensive Reporting and Insights:**
SimSpace's reporting capabilities provide in-depth analytics and actionable insights into team performance, tool effectiveness, and procedural gaps. Detailed dashboards and advanced reporting tools allow organizations to track progress over time, benchmark against industry standards, and generate compliance-ready documentation.

### The Modern Cyber Range




### Why Choose SimSpace?

SimSpace sets the standard for cyber ranges by offering a comprehensive, flexible platform that evolves with your security needs. Our platform enables organizations to train their teams, test their tools, simulate advanced threats, and refine their defensive strategies, all within a realistic, safe, and customizable environment.

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SimSpace | info@simspace.com | 617-237-6223