CyCognito and SimSpace

Knowing that your security team has the experience and expertise to manage advanced cyber threats doesn't have to be a pipe dream. To realize this level of confidence, security leaders need to take the guesswork and uncertainty out of managing their growing attack surface and ensure their teams are prepared to handle all forms of incident response. Continuous attack surface management coupled with performing team training exercises on a high-fidelity cyber range platform is a great way for your security organization to understand its level of readiness and practice defending against advanced threat actors and attack methods.

Together, CyCognito and SimSpace empower companies to take control of their attack surface by identifying critical security risks and performing more effective red team vs. blue team exercises. With CyCognito's attacker's perspective and SimSpace's hyper-realistic simulations, red, blue and purple teams can develop the skills needed to go up against today's most advanced cyber threats.

31%
Total increase in cyberattacks from 2020 to 2021[1]

57%
Number of organizations impacted by the cybersecurity skills crisis[2]

10.5 trillion
The predicted cost of cybercrime by 2025[3]

SimSpace delivers hyper-realistic training environments

SimSpace's open and secure cyber range environments allow you to optimize your cybersecurity posture through real-world attack simulations, product evaluations, specialized training content and individual- and team-based assessments.

- Improve incident response
- Optimize your security stack and vendor selection
- Maintain and document regulatory compliance
- Train against APTs, zero-days and other threats
- Learn to identify malicious and negligent insiders with user emulation
- Leverage pre-built industry-specific network templates

[1]State of Cybersecurity Resilience 2021. (2021). Accenture.
https://www.accenture.com/_acnmedia/PDF-165/Accenture-State-Of-Cybersecurity-2021.pdf.

[2]ESG Research Report: The Life and Times of Cybersecurity Professionals 2021 Volume V. (2021). ESG.
https://www.esg-global.com/research/topic/cybersecurity-skills-shortage

[3]2022 Cybersecurity Almanac:100 Facts, Figures, Predictions and Statistics. (2022). Cybercrime Magazine. https://cybersecurityventures.com/cybersecurity-almanac-2022/

CyCognito accelerates
cyber risk reduction

CyCognito provides automated, continuous discovery of organizational business structure and issues on external-facing assets, presenting reconnaissance results from an attacker viewpoint and unparalleled visibility into risk.

CyCognito proactively identifies vulnerable assets so you can remediate issues before they become incidents. With insight into the business context and exposure of your digital assets, you can better understand the approaches a threat actor would take and help your purple and blue teams defend more effectively.

Optimize your security stack

Key features of CyCognito External Risk Management

▶ **Graphs business and asset relationships** - Finds all of your exposed assets and easily determines which business unit or team owns them

▶ **Provides business context** - Evaluates risk by determining the business purpose and data residing in each asset

▶ **Continuous multi-factor security testing at scale** - Automatically detects and validates potential attack vectors across your entire external IT ecosystem

▶ **Security issue identification** - Commercial-grade vulnerability scanning, pen test maneuvers, DAST (dynamic application security testing), weak credentials, authentication bypass, configuration issues and more

▶ **Evidence collection** - Automated, comprehensive evidence collection empowers validation, work justification and helps satisfy auditor requirements

▶ **Testing at scale** - Measures risk across all internet-exposed assets: SaaS, subsidiaries, interconnected third parties and even IaaS

▶ **Risk prioritization** - Reduces the inherent risk of leaving critical gaps exposed by identifying top issues and the path to remediating them

▶ **Faster remediation** - Closes the window of attack in days versus months, which reduces breach likelihood
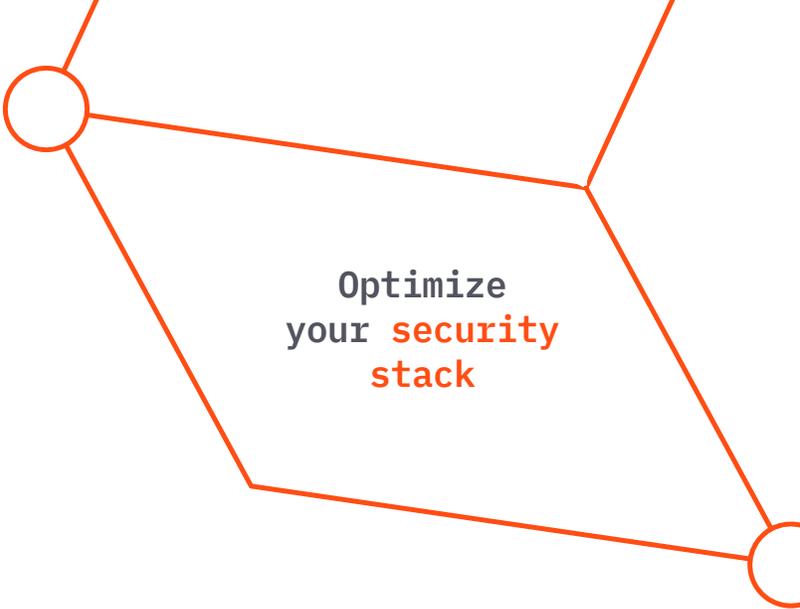
CyCognito and SimSpace: Better together

Our integrated solution provides rapid, continuous red team vs. blue team exercises within a high-fidelity simulation of your production environment. By practicing against advanced threats in a realistic testing environment, your teams gain hands-on experience responding to cyberattacks with the same tools they use on the job — without risk to your systems and networks.

▶ Advanced red-team tactics based on CyCognito's attack surface reconnaissance provide deeper training for blue and purple teams

▶ Advanced user and threat emulation create realistic background noise and user behavior that will challenge your defenders to distinguish between normal and malicious activity

▶ Built on the SimSpace Cyber Risk Management Platform's flexible, high-fidelity cyber range, which allows you to simulate your unique environment and security tools

▶ Leverages real-world, attack-based training scenarios based on years of cybersecurity experience and incident response engagements

CyCognito and SimSpace

Discover security issues with CyCognito

Ingest CyCognito data into SimSpace

Replicate environment with SimSpace cyber range

Test fixes within SimSpace range

Deploy changes to production

Validate production fixes wtih CyCognito
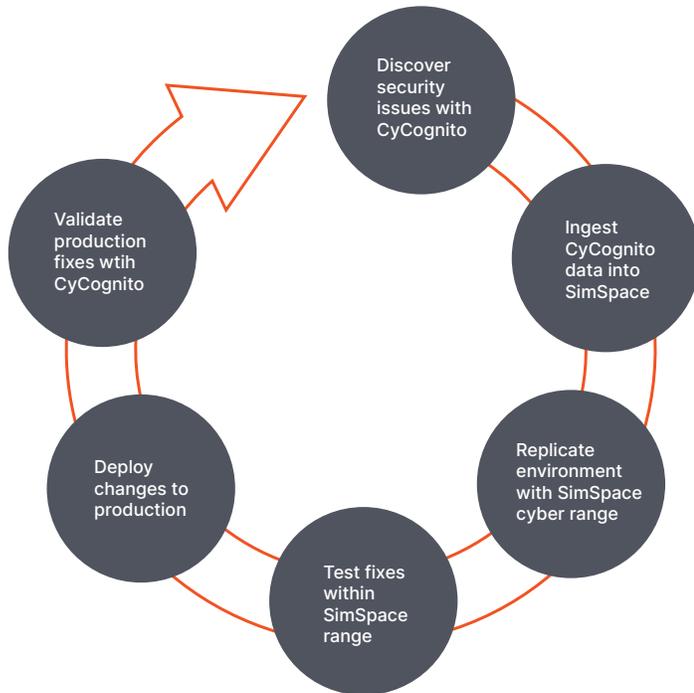
When leveraging CyCognito to identify risks and vulnerabilities in your production environment, the SimSpace Platform can be used to deploy replicas of the identified systems in a cyber range for further testing. This allows you to test any configuration changes or security patches against real-world attacks to ensure they work as intended — prior to making changes to production systems.

About SimSpace

The SimSpace Corporation launched in 2015 with a singular purpose — to help organizations reduce cyber risk. Featuring the most advanced commercially-available cyber range, the SimSpace Cyber Risk Management Platform allows users to conduct hands-on training and data-driven technology evaluation and optimization within a high-fidelity simulation of their production environment. By providing advanced cyber range capabilities, performance metrics and reporting functions, the SimSpace platform enables a full spectrum of security and compliance operations.

About CyCognito

CyCognito believes all organizations should be able to protect themselves from even the most sophisticated attackers. That's why we created the CyCognito platform, putting nation-state level cyber reconnaissance techniques into the hands of every organization. When their business risks are no longer in the shadows, companies operate more confidently, safely and freely.

Learn more

Ready to learn more about how SimSpace and CyCognito can help your security team gain the real-world experience and skills to defend against advanced cyber threats? **Contact** partners@simspace.com

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