CYCOGNITO



Scale Your Pen Test and Red Team Operations with CyCognito

Automated Reconnaissance and Active Testing across your full External Attack Surface

Black box penetration tests ("pen tests") are a staple of IT security teams. Tasked with identifying flaws and weaknesses across your digital infrastructure, pen testers and red teamers closely follow the approach of an unprivileged attacker, from reconnaissance, initial access, and even execution.

Unfortunately, the size of an organization's external attack surface coupled with pen test cost and delivery time forces many organizations to reduce test scope to known "crown jewel" assets – typically web applications and infrastructure – for quarterly or annual investigation. Even so, enterprise pen test costs are high, often over USD\$100K annually and exceeding USD\$1M for large organizations.¹

Despite the rich insight they provide, today's rapidly changing risk landscape means a short shelf life for these point-in-time tests. Long gaps between tests and low coverage result in wasted opportunity and excessive risk.

Today's security teams can do more with pen testing resources

Reconnaissance is labor and time-intensive

Asset attribution, classification, and other context can take 5-10 hours per asset

Infrequent tests extend remediation times

Point-in-time tests on a subset of assets (often only 5-10%) lead to long remediation times, 12 months+

Manual data sharing is ineffective

Results shared manually through spreadsheets and email increase latency and reduce effectiveness Designed by reconnaissance leaders from a globally recognized intelligence agency,

CyCognito built the discovery and active testing engines in its external attack surface management (EASM) platform to replicate an attacker's thought processes and reconnaissance workflows.

THE RESULT: a unique platform that automates the first phase of offensive cyber operation with deep, nation-state grade reconnaissance and active testing.

With CyCognito, organizations can effortlessly increase testing coverage from ~5% to ~100% and test cadence from quarterly/ annually to weekly.

Scale your offensive security teams with CyCognito

Reconnaissance and attribution information when they need it

Replace time-consuming scanning/ recon work with focused activities such as exploit chaining and lateral movement

Automated, continuous, active security testing delivers confidence

Over 25,000 high-quality security tests, across your full asset inventory

Reduce burnout and focus on meaningful issues

Automated workflows reduce manual tasks and allow teams to showcase personal value and efficiency



Help your pen test operations teams do more in less time

CyCognito automates many activities in the end-to-end pen testing process, enabling pen testing staff to focus on meaningful issues that require human decision.

The table below outlines what may be found in a US\$50K-\$100K standard pen test operation and how it compares to CyCognito's automated insight. A standard pen test scope is limited by time and asset numbers – CyCognito insight covers the full asset inventory.



Any enterprise that has to fulfill regulatory requirements or is required to do pen testing will see tremendous value after adopting the CyCognito platform"

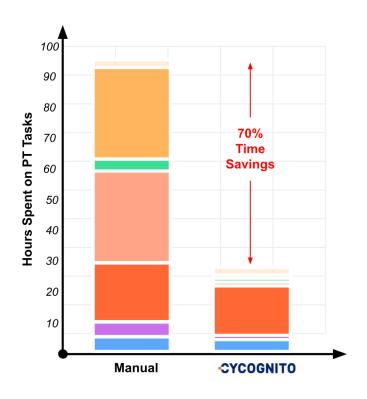
Fortune 500/Global 2000 CISO

Pen Test Phase	Activity	Standard PT	CyCognito
Scoping	Typical test scope	Partial (5-10%)	Full
	Uncover and map global organizational structure		\otimes
Reconnaissance/ Attribution/ Vulnerability Analysis	Uncover IP ranges	Manual	Automatic
	Build asset inventory	Partial	Global
	Investigate assets (OSINT, other tools)	\odot	\otimes
	Classify and fingerprint assets	\odot	\odot
	Add business context to assets		\otimes
	Add attribution context to assets		\otimes
	Identify CVEs through software versions	\odot	\otimes
Prioritization	Based on severity (CVSS)	\odot	\odot
	Based on asset discoverability		\odot
	Based on asset attractiveness		\odot
	Based on threat intelligenc		\odot
Testing	Active Tests/DAST	\otimes	\odot
Testing	High-risk exploitation activities	\odot	
Reporting/ Recommendations	Evidence collection, findings, executive summary	\odot	\odot
	Remediation planning and prioritization		\odot
	Frequency	Qtr/Annual	Weekly
	Complexity	Manual	Automatic
	Data Access	Manual	UI, API

Reduce a status quo pen test from weeks to days

It is not uncommon for a typical pen test to take two weeks. CyCognito's automated reconnaissance, prioritization, and low-risk active testing enable faster pivot to human-led active tests and a shorter completion time.

Typical PT Phase	Manual* 25% auto, 75% manual	Automated 99% automated
Scoping	1-2 hours	Same (Not Automated)
Reconnaissance / Attribution / Vulnerability Analysis	20-30 hours	~0 hours
Prioritization	1-3 hours	~0 hours
Testing - Low-risk DAST/Active Tests	20-30 hours	~0 hours
Testing - High-risk DAST/Active Tests	15-20 hours	Same (Not Automated)
Evidence collection, documentation	3-5 hours	~0 hours
Consuming information, building report	3-5 hours	Same (Not Automated)
Total	63-95 hours	19-27 hours



Find out more

CyCognito exceeds the external risk requirements of the largest and most complex organizations. Contact us to learn more about how CyCognito can increase the power of your pen testing program.

To learn how the CyCognito platform uniquely helps you identify and prioritize the paths of least resistance into your IT ecosystem, so that you can eliminate them, visit **cycognito.com**.



