

# THE HUMAN CYBER READINESS PLATFORM

*Cybersecurity has evolved into more than just a technology problem. It now dictates share price, customer loyalty, brand reputation, litigation and can even threaten human life.*

For this reason, the solution also needs to be more than just technology. It requires finely tuned humans capable of making nuanced judgements about complex technical, social, and political issues, sometimes under intense pressure and always at pace. Investing in your organization’s human capital is every bit as crucial as investing in your technology. Continuously upskilling, tracking, and understanding this expertise pays huge dividends when it comes to mitigating risk, responding to crises and building resilience.

## BUILDING HUMAN CYBER READINESS ACROSS THE ENTERPRISE

*Immersive Labs delivers enterprise-wide human cyber capabilities to impact and support every part of your security strategy:*

**For business leaders**, building human cyber capability means senior teams can play a more effective role in incident response and create better people strategies focused on protecting company value. Strategically, business leaders embracing Human Cyber Readiness can govern based on telemetry and insight on their human assets and invest accordingly. The result: a more resilient organization capable of better crisis response.

**For security hiring teams**, it means being able to test potential talent to ensure they have relevant expertise. In a complex space awash with certifications, accreditations, and specialisms, being able to demystify technical skills and quickly ascertain a candidate’s suitability for a role creates a more efficient hiring cycle, improves long-term planning and encourages diversity.

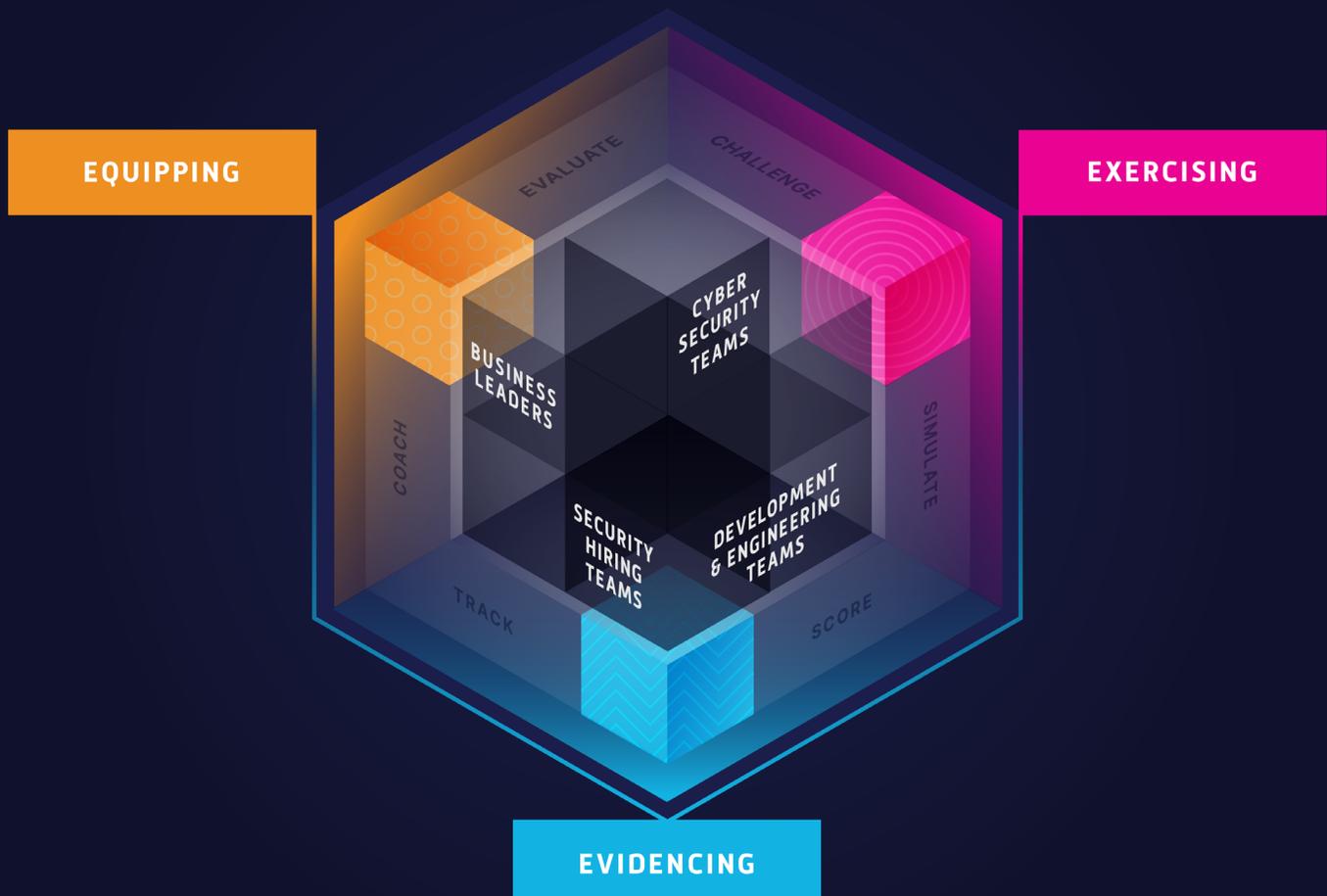
**For development and engineering teams**, creating an effective human cyber capability means infusing any digital initiative with security from the outset. Teams who understand the context and practice of security will build secure applications, creating a powerful alternative to segregated silos where security can be an expensive handbrake on innovation.

**For entire organizations**, integrating these elements into a single platform provides a unified picture of human cyber capability across every organizational touchpoint. This empowers businesses by giving them a complete picture of their Human Cyber Readiness and tying it into a set of simple steps to improve resilience across the board.

**For cybersecurity teams**, it means filling the gaps left by legacy training and equipping people with the skills to defend against the latest attacks, remediate more efficiently and prepare in advance. This requires rapid, iterative skills development based on the latest threat intelligence and delivered in a way that engages the unique mindset of cybersecurity professionals.

## HOW IMMERSIVE LABS ENABLES HUMAN CYBER READINESS

Immersive Labs breaks Human Cyber Readiness into three parts: Equipping, Exercising and Evidencing. With our platform organizations can bring these elements together and put them at the center of an ongoing strategy to improve the effectiveness of teams:



## EQUIPPING

### Problem:

Traditional training is expensive, unengaging, and continuously being outpaced by the evolving threat landscape.

### Solution:

We understand that skills development never ends. It is a capability that needs to be constantly improved to keep pace with the ever-changing nature of cyber risk. Immersive Labs aligns skills to specific threats and recognized frameworks with a continually updated set of gamified content.

### Benefits:

- Build and develop cyber expertise matched to risk, role and frameworks such as MITRE and NIST NICE
- Develop all levels of cyber skills, from basic to highly specialized
- Guide application security teams through building secure code from the outset.

The image displays a collage of screenshots from the Immersive Labs platform. The top left screenshot shows a 'Python: Stored XSS' deployment interface with a 'Live Application View' of a 'D&D Forum' login page. The bottom left screenshot shows a 'Stored-XSS Vulnerability' detail card. The center and right screenshots show a 'Filters' panel for 'Offensive Reconnaissance' and 'Offensive Infrastructure Hacking' categories, listing various skill series like OSINT, Scanning, Infrastructure Hacking, CVEs, Persistence, and Privilege Escalation with their respective difficulty levels and durations.

## EXERCISING

### Problem:

Aptitude in cybersecurity decays fast unless it's kept relevant and fresh. Traditional training is not capable of addressing this, as it can only build static, short-term capabilities which are inflexible in the face of change. With cyber being an issue across organizational silos, this also needs to take into account a wide range of stakeholders, something particularly true of incident response.

### Solution:

We help organizations build a broad base of cognitively agile, resilient people who can think on their feet when faced with complex cyber problems. Our platform can run short, regular battle-tests powered by real-world intelligence and capable of building muscle memory relevant to today's myriad cyber threats.

### Benefits:

- Test and refine organizational decision-making and incident response against the latest scenarios for everyone from technical teams to PR and legal
- Exercise appsec, infrastructure and defensive teams against emerging threats within hours of them appearing in the wild
- Run dynamic, repeatable, cost-effective exercises relevant to large, remote workforces

The image displays two screenshots from the Immersivelabs platform. The top screenshot shows a 'Crisis Sim' interface for a 'Practice Exercise Hospital Ransomware' scenario. It includes a timeline, a decision point with two options ('Pay the ransom' and 'Rebuild from backups'), and two line graphs showing 'Operational Capacity' and 'Organization Reputation' over time. The bottom screenshot shows a 'Netwalker Ransomware: Identifying IoCs' lab overview, including a 'Start Lab' button, 'Prerequisites' (Yara - Episode 1), and 'Learning outcomes' such as 'Know how to generate IoCs' and 'Know how to perform safe OSINT on IoCs'.

# EVIDENCING

## Problem:

They might have access to a wealth of data on their technical assets, but organizations have traditionally operated in the dark when it comes to their people. This makes it difficult to effectively set cybersecurity strategies and budgets – and it makes hiring even more complicated. The result: reactive approaches that negatively impact team culture and heighten risk.

## Solution:

With Immersive Labs, organizations can track the cybersecurity skill levels of their teams in real time. Our platform provides metrics so you can visualize the strengths and weaknesses in your human capability and map these against widely used frameworks. We also bring clarity to the hiring cycle so organizations can test and hire based on proven skills.

## Benefits:

- Understand, for the first time, a full picture of cyber skills across your entire organization and map this to recognized frameworks for more relevant strategies, benchmarking and budgeting
- Highlight weak spots in your human cyber capabilities and instantly fix these gaps
- Screen candidates to hire people with more relevant skills and eliminate unconscious bias

**MITRE ATT&CK® Framework Mapping**

We have mapped our labs to techniques within V6 of the MITRE ATT&CK® framework. The framework below shows your progress through the mapped labs.

**Organisation View**

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Command and Control	Exfiltration
Drive-by Compromise	AppleScript	bash_profile and .bashrc	Access Token Manipulation	Access Token Manipulation	Account Manipulation	Account Discovery	AppleScript	Audio Capture	Commonly Used Port	Automated Exfiltration
Exploit Public-Facing Application	CMSTP	Technique: DLL Search Order Hijacking			Bash History	Application Window Discovery	Application Deployment Software	Automated Collection	Communication Through Removable...	Data Compressed
External Remote Services	Command-Line Interface	Most Recent Completions: Paul Thomas, Mat Rollings, Rae Jeffries-Harris, Taylor Mowat, Stefan Apostol			Brute Force	Browser Bookmark Discovery	Distributed Component Object Model	Clipboard Data	Connection Proxy	Data Encrypted
Hardware Additions	Compiled HTML File				Credential Dumping	Domain Trust Discovery	Exploitation of Remote Services	Data from Information Repositories	Custom Command and Control Prot...	Data Transfer Size Limits
Replication Through Removable M...	Control Panel Items				Credentials in Files	File and Directory Discovery	Logon Scripts	Data from Local System	Custom Cryptographic Protocol	Exfiltration Over Alternative P...
Spearpishing Attachment	Dynamic Data Exchange	Recently Mapped Labs: ALPC - File Delete Zero-Day, Windows: DLL Hijacking			Credentials in Registry	Network Service Scanning	Pass the Hash	Data from Network Shared Drive	Data Encoding	Exfiltration Over Command and C...
Spearpishing Link	Execution through API	Authentication Package	DLL Search Order Hijacking	Code Signing	Exploitation for Credential Access	Network Share Discovery	Pass the Ticket	Data from Removable Media	Data Obfuscation	Exfiltration Over Other Network...
Spearpishing via Service	Execution through Module Load	BITS Jobs	Dylib Hijacking	Compile After Delivery	Forced Authentication	Network Sniffing	Remote Desktop Protocol	Data Staged	Domain Fronting	Exfiltration Over Physical Medium
Supply Chain Compromise	Exploitation for Client Execution	Bootkit	Exploitation for Privilege Esca...	Compiled HTML File	Hooking	Password Policy Discovery	Remote File Copy	Email Collection	Domain Generation Algorithms	Scheduled Transfer
Trusted Relationship	Graphical User Interface	Browser Extensions	Extra Window Memory Injection	Component Firmware	Input Capture	Peripheral Device Discovery	Remote Services			

**Benchmark**

Bar chart showing scores for Organisation (612), Industry (146), and All (176).

We've included you in the Technology industry.

**Participant responses**

Based on 5 responses

- Alert the incident response team: 40.0% (Good Answer)
- Refer to the incident response plan: 20.0% (Great Answer)
- Release a statement: 20.0% (Okay Answer)
- Provide an update to internal staff: 20.0% (This is a weak answer)

## DON'T JUST TAKE OUR WORD FOR IT.

We have a network of customers, including some of the world's biggest names cross finance, defense, military, government, and more.



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**Immersive Labs is the world's first human cyber readiness platform.**

Our technology delivers challenge-based cybersecurity content developed by experts and powered by the latest threat intelligence. Our unique approach enables businesses to battle-test and evidence their workforce's preparedness to face emerging cyber threats.