EC-Council

CYBER BRIEF

SEP 2021

"In 2021, we have witnessed a series of high-profile cyber incidents making headlines. As firms adapt to the new realities of remote work ushered in by the COVID-19 pandemic, threats have grown in scope, allowing sophisticated exploits and new vulnerabilities to slip in. Consequently, the lack of robust pre-emptive defenses could cost millions. All businesses, large and small, must evaluate their security strategies and strengthen their defenses against cyberattacks. Cybersecurity awareness and training are critical for protecting sensitive data."

- Jay Bavisi, President & CEO of the EC-Council Group

The pandemic has brought with it a surge of cyber incidents and threats. As remote workers access and share more online resources and businesses continue to store an increasing volume of sensitive data on the internet, the threat domain has expanded. Cyberattacks in the form of data theft, ransomware, and more have the potential to bring the operations of any organization to a halt. This raises an important question: How long can we afford to ignore the need to raise our cyber awareness?

Considering how vulnerable people can be in these circumstances, it falls on each of us to be aware of the threat landscape and to safeguard our sensitive data and business assets. Ensuring safe cyber practices is no longer just under the purview of IT personnel. A substantial cyber incident can stem from the simple act of clicking a link, whether it is in an email or text message, or on a webpage. Training employees in cybersecurity and keeping them updated with the latest industry trends, insights, and practices is a significant step in the right direction.

Empower yourself with knowledge and contribute to making cyberspace secure. The September edition of the Cyber Brief offers some critical insights, videos, and infographics for combating cyberthreats. We hope you find these resources valuable, informative, and thought-provoking.

Access EC-Council Cyber Brief Previous Issues »

Network Defenders

Blogs

How Can You Identify Network Security Threats and Vulnerabilities?

Network security threats have become a much bigger issue today...

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Top 10 Common Types of Network Security Attacks Explained

The risk of network security attacks is mounting as businesses transition...

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What Are Network Protocols and How Are They Used?

Network protocols are a set of pre-defined rules and guidelines...

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Blue Team Security Certifications in 2021: Grow Your Career

IT and Security professionals with blue team security certifications can be part

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Success Stories

How Network Defense Can Help You Grow in Your Career with Ivica Gjorgjevsk

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A Career in Network Security with Certified Network Defender with Eric Reed

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Infographic

2024 (Projection)

19 billion USD

Banking

745 million USD

Europe

466 million USD

Blockchain Funding for Startup Companies (2021) [1]

2.6

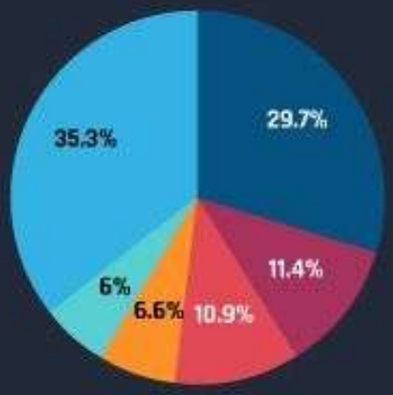
billion USD

Blockchain Funding by Region (2015 - 2019) [1]

USA

China

Distribution of Blockchain Market Value in 2020 (Global) [1]



- Banking
- Process Manufacturing
- Discrete Manufacturing
- Professional Services
- Retail
- Other

Transactions per Day [2]

191,093

Transactions

Potential of Blockchain [3]

Blockchain can Reduce Banks' Infrastructure Costs by 30%

Financial Companies can Save Up to 12 billion USD a Year

Total Blockchain Spending in Healthcare by 2025 [3]

5.61 billion

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www.eccouncil.org

Sources:

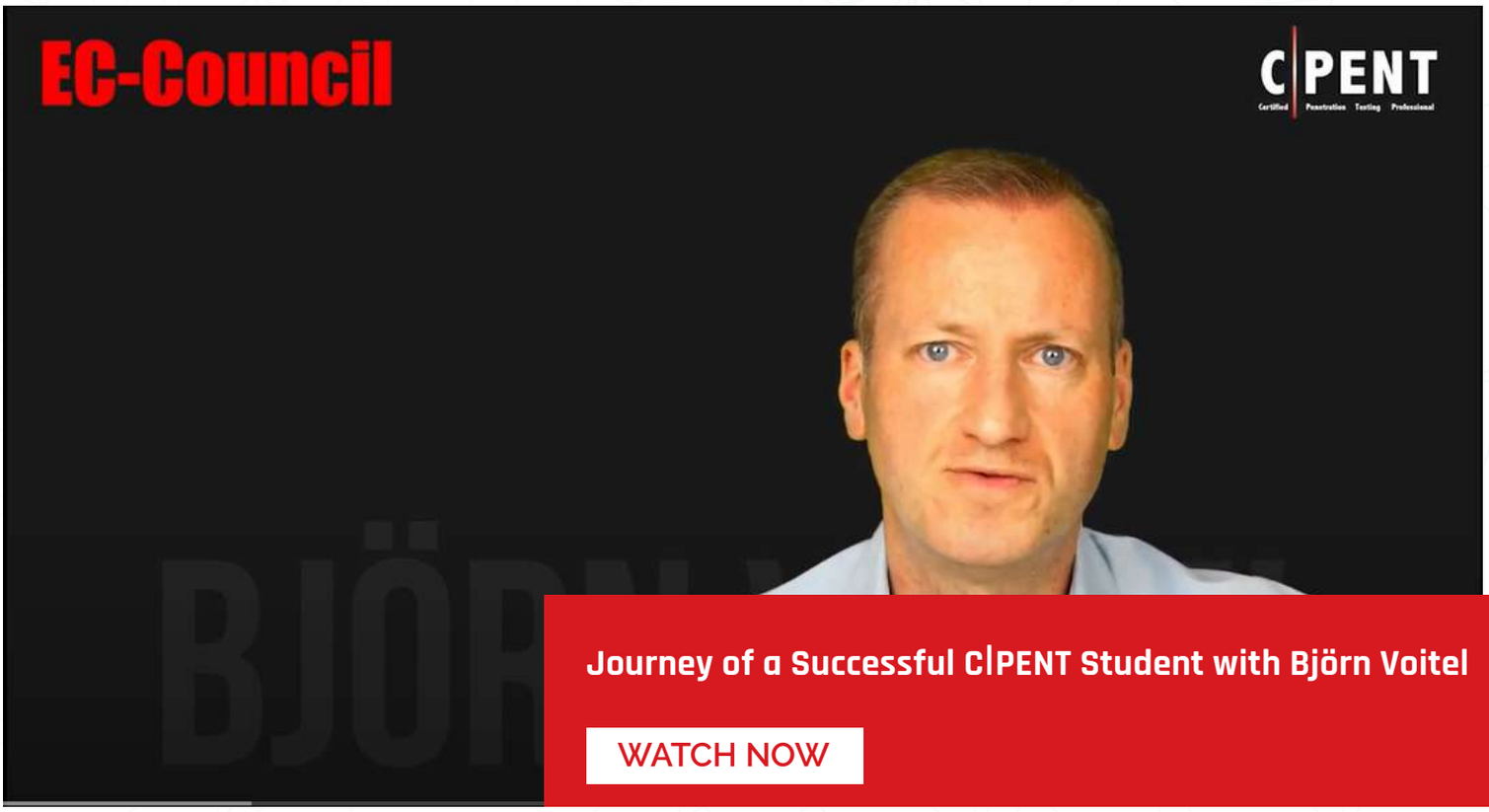
[1] https://www.statista.com/topics/5122/blockchain/

[2] https://www.blockchain.com/charts

[3] https://techjury.net/blog/blockchain-statistics/#gref

Penetration Testers

Success Stories



Journey of a Successful C|PENT Student with Björn Voitel

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Journey of a Successful C|PENT CEI with Belly Rachdianto

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Blogs

What Is Steganography and Its Popular Techniques in Cybersecurity?

The word steganography stems from the Greek origin “steganos” (secret) and...

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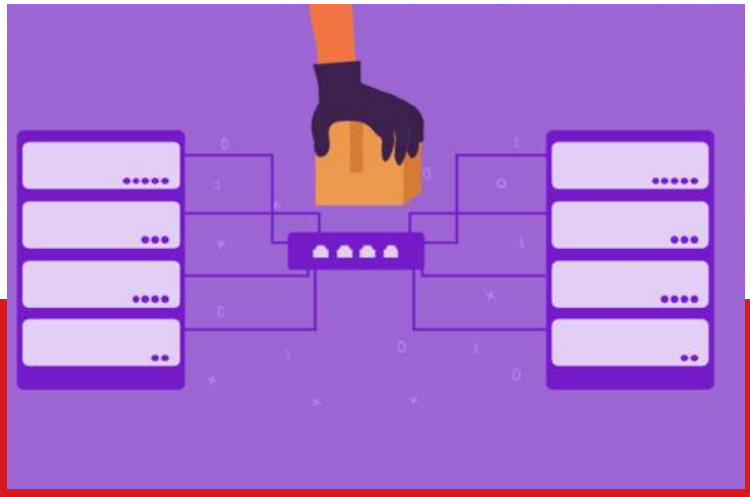

What Are Sniffing Attacks and How to Defend Against Them

Sniffing attacks are gaining prominence among cybercriminals today...

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Success Stories

Career Transition into Penetration Testing with Paul Mahoney

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Transitioning Your Cybersecurity Career: A CIO's Perspective with Rex Crouser

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An Active-Duty Marine's Journey into Penetration Testing with CIEH Practical with Richard Medlin

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W|AHS

Web Application Hacking & Security

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What Is Web Application Security and Why Is It Important?

The emerging and advanced technologies in the digital age create new security challenges...

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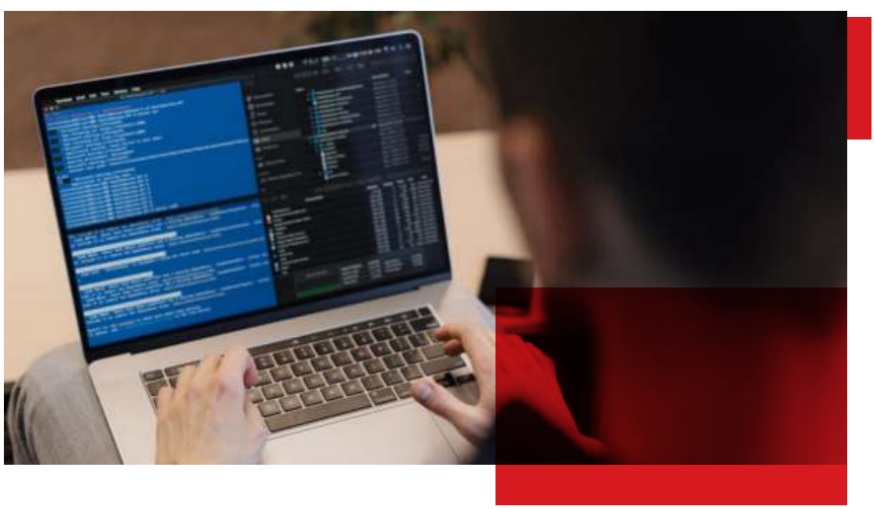

Five Critical Skills You Need to Have as a Web Application Penetration Tester

Two decades back, most of the tasks related to web application security...

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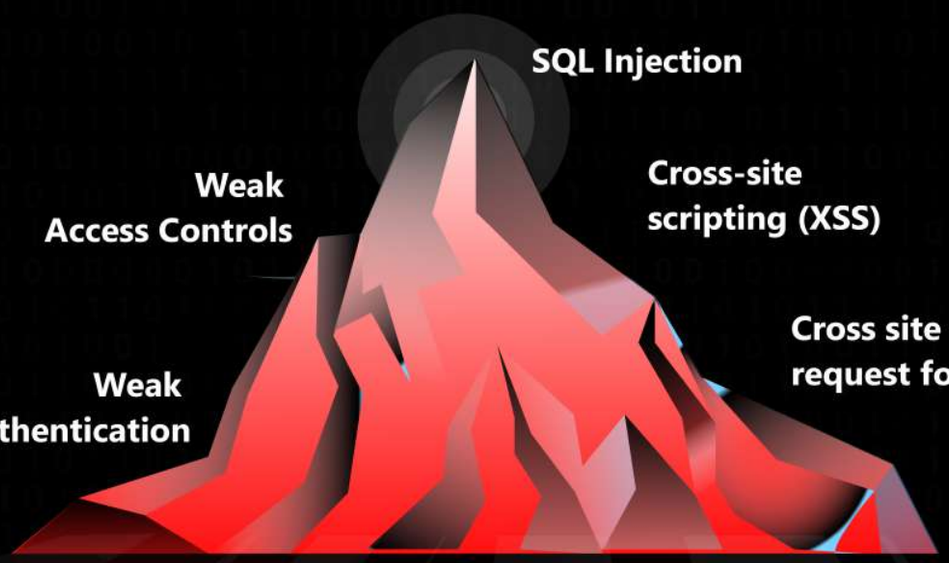
Infographic

Web Application Hacking & Security

Web Application Attacks

The pandemic has pushed organizations to adopt web applications to meet the needs of customers when industries like education, healthcare, and retail shut down. But the rapid development and deployment of apps left security protocols widely ignored resulting in data breaches that caused damaged to both businesses and customers. It's time for damage control and this means being aware of the known risks and preparing for the unknown cyberattacks in order to prevent your application from being hacked.

The Known Risks



The Potential Risks

- Advanced Web Application Penetration Testing
- Dictionary Attack
- Remote File Inclusion (RFI)
- Arbitrary File Download/Upload
- Advanced SQL Injection (SQLi)
- Auth Bypass
- Using Components with Known Vulnerabilities
- Command Injection
- Web App Enumeration
- Reflected, Stored and DOM-based Cross Site Scripting (XSS)
- Remote Code Execution
- Broken Access Control
- File Tampering
- Cross Site Request Forgery (CSRF) – GET and POST Methods
- Privilege Escalation

Server-Side Request Forgery (SSRF)
Security Misconfigurations
Directory Browsing/Bruteforcing
CMS Vulnerability Scanning
Network Scanning
Local File Inclusion (LFI)
Insecure Direct Object Reference Prevention (IDOR)
Log Poisoning
Weak SSL Ciphers
Cookie Modification
Source Code Analysis
HTTP Header modification
Session Fixation
Clickjacking

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Web Application Hacking & Security

Learn to defend applications, become a
Certified Web Application Security Expert

Register Today

Cyber Forensics Investigators

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What Is Digital Evidence and Why Is It Important in 2021?

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6 Fundamental Skills Required to Pursue a Career in Digital Forensics

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What Does a Digital Forensics Investigator Do in an Investigation?

Digital forensics is an essential aspect of tracing computer-based crimes...

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6 Anti-Forensic Techniques That Every Digital Forensic Investigator Dreads

5 High-Paying Computer Forensics Jobs You Need to Know About

Anti-forensics techniques are designed to frustrate digital forensics investigators...

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Computer forensics job prospects are also rising, owing to an unprecedented...

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Success Stories

Boost Your Career in Digital Forensics with C|HFI | Rachel Hawes's Success Story

Rachel Hawes is from the United States and holds a degree in Criminal Justice.

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How Digital Forensics Can Help You Grow Your Career | Jeree Spicer's Journey

Jeree Spicer, CIHFI, CIEH is from the United States and holds a degree in Criminal Justice.

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Incident Handling

YouTube Shorts

Why Incident Handling and Response Is a Great Career Choice for You

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CISO MAG Interviews and Podcasts

Interviews

Data Security: More Than Just Confidential Computing

Sharing sensitive data for

Zero-Trust Is Not a Product or Solution That Can Be Installed

Under the prevailing

processing among...

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circumstances...

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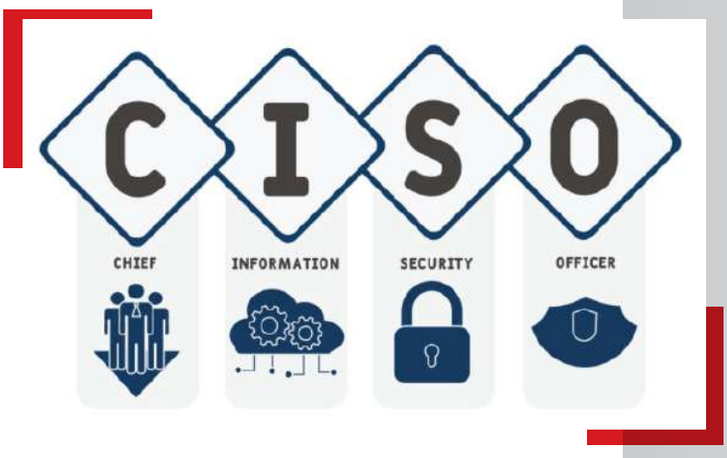
CISO MAG Features

Features



A Day in the Life of a Modern CISO

Over the last two decades, the role of a CISO has gained significant importance for businesses...

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2022 Drifting Clouds: The Security Trend

The future of cloud computing and the corresponding information security...

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Cyber Talks

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Webinars

HOW THREAT INTELLIGENCE IS USED TO REDUCE AN ORGANIZATION'S RISK PROFILE

1st September, 2021

7.30 PM IST / 12.00 AM AEST / 4.00 PM CET

Dr. Erdal Ozkaya
CISO Comodo

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Career Gurus

HOW VISIBILITY AND MACHINE LEARNING MAKES CYBER INCIDENT DETECTION AND RESPONSE RESULTS BETTER

15th September, 2021

11:00 AM CST / 9:30 PM IST

Yuri Diogenes
ECCU Professor / Author / Principal PM for Azure Security Center, Microsoft

Sunil Varkey
VP - Forescout Technologies Inc.

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Career Gurus

HOW TO BUILD A STRONG SECURITY AWARENESS PROGRAM FOR YOUR EMPLOYEES

21st September, 2021

10:00 AM EST / 7:30 PM IST / 2:00 PM GMT

Dave Summitt
CISO, Alpha Omega Advisors

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INCREASING POPULARITY OF WEB APPLICATIONS SECURITY & THE SKILLS REQUIRED TO SUCCEED

29th September, 2021

7:30 PM IST / 7:00 AM PST / 4:00 PM CET

Patric J.M. Versteeg
CISO at Viterra B.V.

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HOW MODERN FORENSICS INVESTIGATION METHODS PROVE HELPFUL IN THE NEW DIGITAL AGE

30th September, 2021

10:00 am EST / 7:30 pm IST / 3:00 pm BST

Robert B. Fried
Senior Vice President and Global Head of Forensics and Investigations, Sandline Global

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HOW CISOs EFFECTIVELY CLOSE SECURITY GAPS WITHIN YOUR ORGANIZATION

23rd September, 2021

8:30 PM IST / 4:00 PM BST / 8:00 AM PST

Dr Asaad Moosa
CISO at BFBS, London, UK

Karl Roberts
Director - Archer IT Limited

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CLOUD SECURITY BEST PRACTICES TO PROTECT DATA IN THE CLOUD

21st October, 2021

10:30 AM BST | 3:00 PM IST

Dr. Wendy Ng
Cloud Security Architect Lead, OneWeb

Satyavathi Divadari
CyberRes Cloud CTO, Micro Focus

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What is the Importance of Operational Technology Cybersecurity in Technological Advancement?

26th October, 2021

10AM EST / 7:30PM IST / 3PM BST

Mirel Sehic
Global Director Cybersecurity
for Honeywell Building Technologies (HBT)

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HOW CAN YOU SECURE THE MODERN API ECOSYSTEM?

20th October, 2021

7:30PM IST / 9:00AM CDT / 7:00AM PDT

Karl Mattson
CISO at Noname Security

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Fundamental Causes of Vulnerabilities and How Incident Handling Can Solve Vulnerability Issues

27th October, 2021

10:00 AM EST / 8:00 AM MST / 7:30 PM IST

Stephanie Domas
Director Strategic Security & Communications, Intel Corporation

Ricoh Danielson
Executive Advisory of Incident Response and Digital Forensics – A Cyber Security Firm

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VULNERABILITY MANAGEMENT BEST PRACTICES: WHAT YOU NEED TO KNOW

28th October, 2021

4:00PM CET / 7:30PM IST / 7:00PM PST

Andrea Pezzotti
Global Head Vulnerability Management and Technical Risks at Novartis

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EQT Private Equity adds to its cybersecurity investments...

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September 29th 2021, Kingdom of Saudi Arabia – Security awareness...

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Summary: The Scholarship aims to encourage skill-building...

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Summary: EC-Council's Global Ethical Hacking Leaderboard for August...

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5 Basic Job Requirements to Kickstart Your Career in Cybersecurity

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Why Do We Need Penetration Testing?

An antivirus can serve as excellent protection against...

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News

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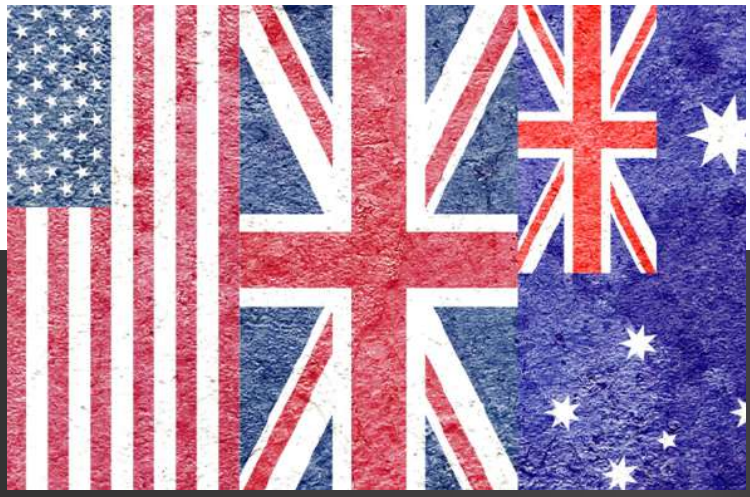

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