

THE 2023 C|EH HALL OF FAME ANNUAL REPORT

LEADING THE
ETHICAL HACKING
COMMUNITY IN 2023

MEET THE TOP

100

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ACKNOWLEDGEMENT AND FOREWORD

The Certified Ethical Hacker community is known for the willingness of its members to share the key experiences that mark every stage of their professional development. Both the newcomer's contagious enthusiasm and the veteran's wisdom benefit countless individuals, some who are already in the cybersecurity field and others who are considering entering it. This report is a direct outcome of that sharing attitude. It is based on a multitude of data points gathered from a detailed survey of more than 3,300 C|EH Hall of Fame applicants. Their candid responses shed light on many practical aspects of career advancement through EC-Council's C|EH certification program. They also illustrate the real-world applications of specific ethical hacker skills. The personal narratives of these hackers at widely varying points along their professional journeys provide windows into an exciting and meaningful field. The world needs more capable and dedicated cybersecurity defenders like these standout individuals, and we are grateful for their participation.

The 2023 C|EH Hall of Fame Annual Report is a comprehensive and in-depth examination of the Certified Ethical Hacker (C|EH) community. This report is based on a detailed survey of more than 3,300 C|EH Hall of Fame applicants, providing Valuable insight into the practical aspects of career advancement through the

C|EH certification program and the real-world applications of ethical hacking skills.

The report also includes personal narratives of these hackers at different stages in their careers, offering a glimpse into the dynamic and rewarding field of cybersecurity and career highlights of the Hall of Famers, as well as statistics and insights from surveys of C|EH participants. Overall, this report serves as a valuable resource for anyone interested in the ethical hacking community and the role of the C|EH in advancing the field of cybersecurity.

This report provides an overview of the state of the cybersecurity industry in 2023, highlighting key challenges and achievements. It also examines the impact of the C|EH program on the careers and professional development of those in the community, including the 1,000 finalists and 100 awardees of the C|EH Hall of Fame honor.

C|EH HALL OF FAME



OVER
3000
APPLICANTS
GLOBALLY

1000
AMAZING SUCCESS
STORIES

100
C|EH HALL OF
FAME AWARDEES

50
COUNTRIES

26
INDUSTRIES

1
CERTIFICATION

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KEY TAKEAWAYS

WHAT THE RESPONDENTS SAID:

Over
50%

Of Professionals
Received
Promotions after
C|EH

97%

Of Professionals
Stated That Skills
Acquired in C|EH
Helped Safeguard
Their Organizations

97%

Of Professionals
Found C|EH Labs
to Accurately
Mimic Real-World
Cyber Threats

95%

Chose C|EH
for Career
Growth.

93%

Of Professionals
Stated That C|EH
Skills Improved
Their Organizational
Security

92%

Of Hiring Managers
Prefer Candidates
with C|EH For Jobs
That Require Ethical
Hacking Skills.

92%

Of Professionals
Reported that C|EH
Boosted Their
Self Confidence

88%

Considered C|EH
to be the Most
Comprehensive
Ethical Hacking Program
In the Industry

85%

Of Professionals Credited
C|EH to Helping Them
Give Back to the
Cybersecurity
Community

80%

Started their
cybersecurity careers
with the C|EH.

KEY TAKEAWAYS

HOW BECOMING A CERTIFIED ETHICAL HACKER POSITIVELY IMPACTS YOUR CYBER CAREER



The C|EH equips professionals with skills to combat ransomware.



C|EH certification opens doors to cyber careers.



The C|EH builds a versatile skillset that is applicable across



The C|EH enhances employment opportunities in the field of cybersecurity.



The C|EH fosters a sense of social responsibility and enables professionals to give back to the community.

INTRODUCTION

In the cybersecurity world, it is safe to assume that things will get worse before they get better and that it is necessary to continuously ramp up offensive and defensive strategies to combat predictably growing threats. That general assessment remains true in 2023, but the good news is that many professionals are able to score significant wins on behalf of their organizations, reaping both personal fulfillment and substantial career rewards. Certified Ethical Hackers are responsible for many of those bold moves, and EC-Council recognizes thousands of them in its annual C|EH Hall of Fame award program.

We began this process by inviting people who scored 90% or higher on the C|EH certification exam to apply to the C|EH Hall of Fame. More than 3,300 answered the call, and EC-Council promoted 1,000 of them, representing 50 countries from almost every region in the world (see figure 1) to the final round. Then we evaluated each individual's unique set of career accomplishments and community contributions and selected 100 stellar Certified Ethical Hackers for induction into the C|EH Hall of Fame.

This report highlights both the overall characteristics that

distinguish ethical hackers as a group and the personal journeys of the Hall of Famers who made an indelible mark within the cybersecurity community. Their stories point to the C|EH program's openness, diversity, adaptability and, most of all, effectiveness in delivering positive outcomes for the organizations that rely on ethical hackers' expertise. Their success provides ample fuel for the ambitions of those who are thinking of joining the C|EH ranks.

The cybersecurity landscape is constantly evolving and becoming increasingly challenging, with new threats emerging on a regular basis. In order to combat these threats, organizations need to continuously improve their offensive and defensive strategies. This was true in the past year, and the trend is expected to continue in the future. However, many professionals have been able to achieve significant successes on behalf of their organizations, earning both personal fulfillment and substantial career rewards. A large number of these successes can be attributed to the efforts of Certified Ethical Hackers (C|EH). To recognize these individuals, the EC-Council has an annual C|EH Hall of Fame award program.

2023 C|EH HALL OF FAME – PARTICIPATION BY REGION

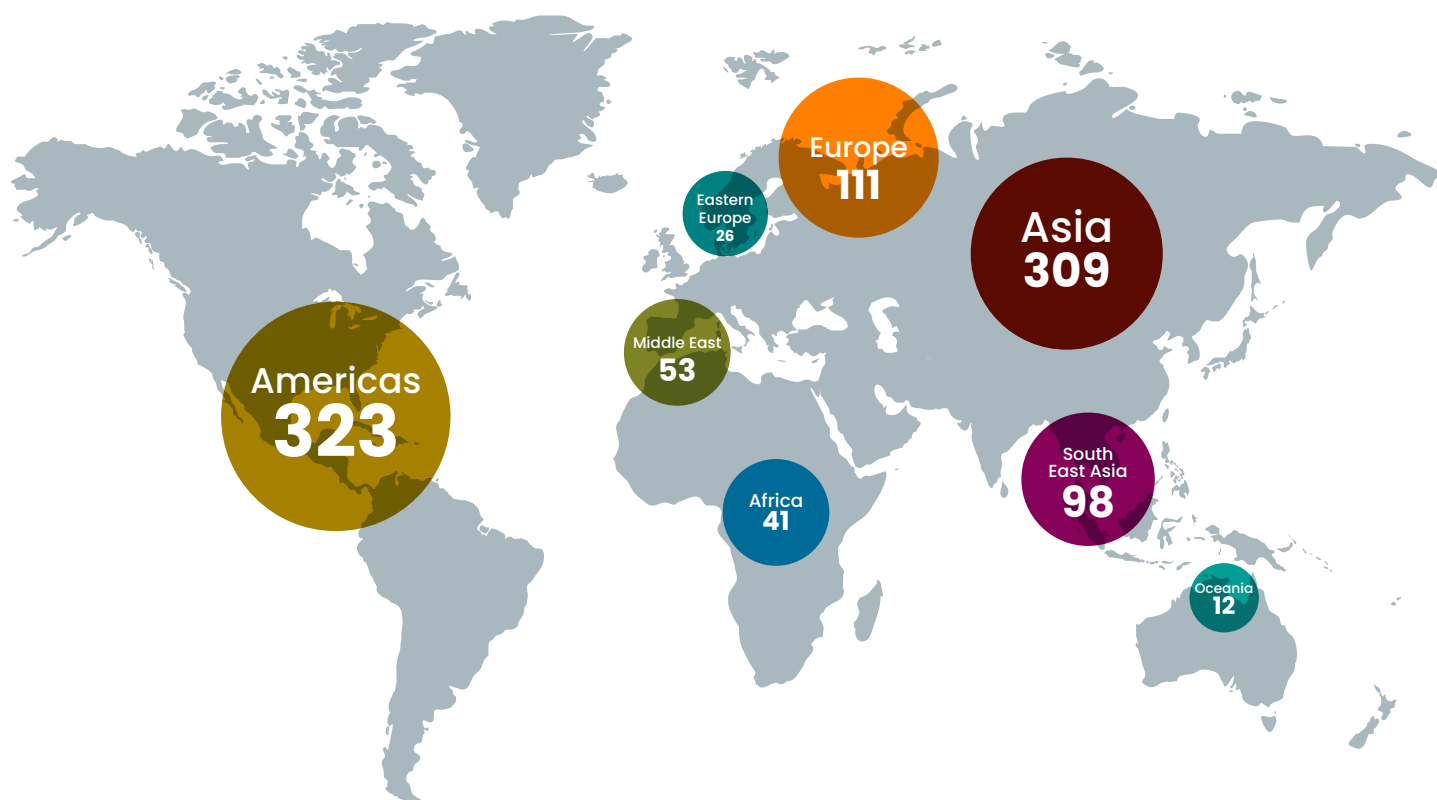


Figure 1: 2023 C|EH Hall of Fame Participation by Region (Awardees and Finalists)





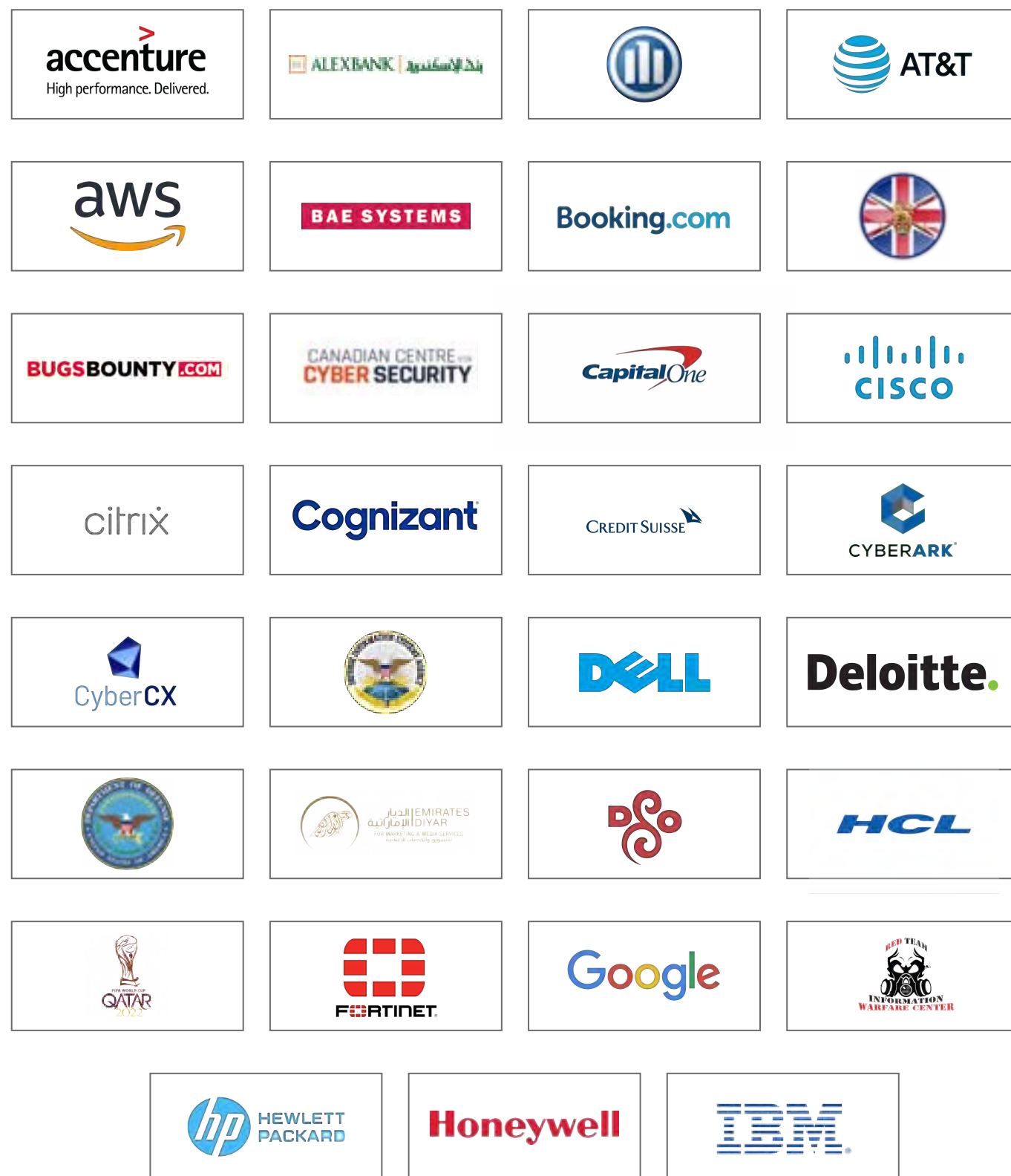
HALL OF FAME

2023

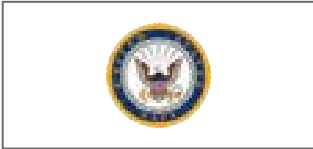
Read about the inspirational achievements of this year's Certified Ethical Hacker Hall of Fame Awardees.

[Click Here](#)

The 2023 C|EH Hall of Fame Awardees are employed at the following organizations:







C|EH HALL OF FAME

2023 AWARDEES

(in alphabetical order by region)

Americas (North and South)



Adam Hardinger,
Department of Defense,
USA



Adriano Guarato,
Via, Brazil



Andrew Marsh,
AWS, USA



Farzan Karimi,
Google, USA



Brett Riddle,
US Army, USA



Brian Cochran,
U.S. Army, USA



Bruno Odon,
ISH Tecnologia, Brasil



Chris Bush,
Defense Information
Systems Agency (DISA),
USA



Cinderella Almond,
Department of the Air
Force, USA



Dan White,
U.S. Department of
Veterans Affairs, USA



David Bifulco,
Nokia, USA



David Formato,
DoD, USA



Dwayne Hodges,
AT&T, USA



Eduardo Tovar Angulo,
Tata Consultancy
Services, Mexico



Edward LaBarge,
US Army, USA



Felipe Munoz,
Oracle America, USA



Frankie Grullon,
US Air Force, USA



George Garcia,
Department of Defense,
USA



Henderson Jones,
National Geographic
Society, USA



Jason Harlow,
US Army, USA



Jason Lee,
Deloitte, USA



Jeremy Martin,
Information Warfare
Center, USA



Jeromy Caldwell,
DOD, USA



Jessica Partin-Sawyers,
Microsoft, USA



John Packiaraj,
Visa, USA



Josue Negron,
U.S. Navy, USA



Kabiru Atta
Texas Capital Bank, USA



Kevin Daily,
Warner Bros Discovery,
USA



Kojo Donkor,
Cisco Systems, USA



Lawan Cancer II,
Morgan Stanley, USA



Marcelo Da Silva,
Microsoft, USA



Masoud Shahsavari,
Fortinet, Canada



Mauricio Fernandes,
Cisco, USA



Michael Brainard,
SP Richards, USA



Michael Hildebrand,
Microsoft, USA



Nealum Veal,
U.S. Army, USA



Noel Nicolas,
US Air Force, USA



Omar Galban,
U.S. Navy, USA



Omar Zaman,
United Airlines, USA



Patrick Gladney,
U.S. Army Corps of
Engineers, USA



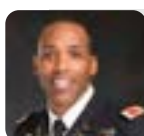
Pierre Boisrond,
Hewlett Packard
Enterprise, USA



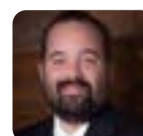
Rajkumar Balachandar,
Cognizant, Canada



Ramin Nafisi,
Microsoft, USA



Reginald Harris,
U.S. Military, USA



Robert Weber,
Booz Allen Hamilton, USA



Roy Davis,
Zoom, USA



Sally Shamon,
DOD/DIA, USA



Samuel Kwaw,
Leidos, USA



Scott Russo,
Capital One, USA



Sofia Nicholson,
Microsoft, USA



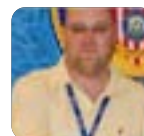
Stephanie Loyd,
Department of Defense,
USA



Stephen Reid,
U.S. Army, USA



Steve Vaillancourt,
Canadian Centre for
Cyber Security, Canada



Thomas Aldrich,
Lockheed Martin, USA



Timothy Amerson,
U.S. Department of
Veterans Affairs, USA



Tyree Scott,
Department of the Navy,
USA



Victor Toeh,
Northrop Grumman, USA



Mark Sweet,
Department of
Defense, USA



Marouane Balmakhtar,
T-Mobile, USA



Marvin Soto,
Grupo Babel and LCI
Education, USA

Europe



Adam Bieniasz,
British Army, United
Kingdom



Ali Karakoc,
IBM, Netherlands



Bjoern Voitel,
DSO Datenschutz
Osnabrueck, Germany



Daniel Robbertse,
Skillsoft, UK



Daniele Belluccio,
Italy



Gerard Aroquianadin,
Orange, France



Guerrino Mazzarolo,
NATO, Belgium



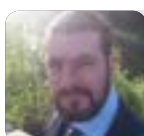
Ilyass Soussi,
EY Consulting, France



Javier Caverro,
TÜV Rheinland, Spain



Joao Rafael,
Credit Suisse, Poland



Luca Porrini,
Unicredit, Italia



Massimo Biagi,
Liveperson,
Germany



**Mirko Messia, Italian
MoD,**
Italian Air Force, Italy



Mostafa Mohsen,
Booking.com,
Netherlands



Nicola Bressan,
Yarix SRL, Italy



Ravi Gupta,
Sony Europe BV, United Kingdom



Steven Wright,
Citrix, United Kingdom



Tudor Ionut Urdes,
CyberArk, Netherlands



Valerio Severini,
EY, Italy

Middle East



Elie Khoury,
Qatar Airways, Qatar



Mohamed Abdalla,
National Aviation Services,
Kuwait



Mohammad Dwairi,
FIFA World Cup Qatar 2022,
Qatar



Phillip Charles,
Diyar Middle East, Qatar



Mohamed Mostafa,
Alexbank, Egypt

Africa, Asia, and Australia



Aarti Jha,
Lemongrass Consulting,
India



Aden Chuen Zhen Yap,
BAE Systems Digital
Intelligence, Malaysia



Amber Spence,
CyberCX, Australia



Anthony Dayrit,
Allianz Singapore,
Singapore



Arinze Okeke,
Dell Technologies, Nigeria



Beekah Jonah,
Nigerian Air Force, Nigeria



Harish Shankar,
GS Schneider Electric, India



Heena Rawal,
Accenture, India



Himanshu Sharma,
Bugsbounty.com, India



Kunal Malhotra,
HCL, India



Nick Schoeffler,
Google, Australia



Shiv Kataria,
Siemens, India



Srivatsa Shashikumar,
LTI, India



Sumanta Haldar,
PricewaterhouseCoopers,
India



Swapnil Sonawane
Reserve Bank Information
Technology, India



Vishal Sheelwant,
Maharashtra cyber digital
crime unit, India

CYBERSECURITY CHALLENGES AND GAINS IN 2022

Although all the data for 2022 are not yet compiled, a picture can be inferred from the incident reports and research findings that emerged throughout the year. To cite just a few examples:

- Cyberattacks against Ukraine's government took place prior to Russia's invasion early in 2022. Hackers also targeted the communications and defense systems of Ukraine's sympathizers, including the U.S. and NATO (NSA, 2022).
 - Ransomware grew by 41% in the year prior to March 2022, according to an IBM study (IBM, 2022).
 - Multiple ransomware attacks threw Costa Rica into disarray in the spring, impacting businesses and healthcare systems. The U.S. government and Microsoft stepped in to combat the cyberterrorism (Sayegh, 2022).
- Cybersecurity authorities in the U.S., Australia, Canada, and UK issued a joint advisory in September, highlighting ongoing advanced persistent threat (APT) activity related to ransomware operations originating in Iran. The threat actors were exploiting known Fortinet, Microsoft Exchange, and VMware Horizon Log4j vulnerabilities (CISA, 2022).

These accounts may seem to suggest that the situation is dire and getting worse, but that level of pessimism is not warranted. In fact, ethical hackers and other cybersecurity professionals took bold, fast action to repudiate many of the threats their organizations encountered in 2022 and to reinforce their defenses against future attempts.

Organizations broadened their recruitment efforts, resulting in more diversity and flexibility in their staffs. Many found the means to offer higher wages and to improve workplace culture and working conditions. For many organizations, adequate training and onboarding of staff were no longer viewed as luxuries (Coker, 2022).

While organizations worked to bolster their cybersecurity ranks, many individual professionals made personal contributions beyond the call of duty, mentoring newcomers to the field and volunteering for projects to better secure their communities.

For C|EH Hall of Fame finalists and awardees, the evolution of challenges in the past year is part of a continuum that extends across the entire span of their careers. Many have long been active combatants in the cybersecurity trenches, while others are relative newcomers offering fresh infusions of energy. Their combined experiences are reflected in this report

In 2022, organizations recognized the importance of having a diverse and flexible staff to deal with the ever-evolving cybersecurity landscape. They broadened their recruitment efforts, resulting in more diversity and flexibility in their staffs. Many organizations also found ways to offer higher wages and to improve workplace culture and working conditions, recognizing the importance of investing in the training and onboarding of their staff.

Individual professionals also played a crucial role in ensuring the security of their organizations and communities. They went above and beyond their job duties, mentoring newcomers and volunteering for projects to better secure their communities.

For the C|EH Hall of Fame finalists and awardees, the challenges of the past year are a continuation of the ongoing fight in the field of cybersecurity. Many have long been active in this fight, while others are newer to the field and bring fresh perspectives and energy. The experiences and insights of all these individuals are reflected in this report.

WHERE ETHICAL HACKERS TRAINED THEIR FOCUS IN 2022

To gain insight into the endeavors and accomplishments of top-performing Certified Ethical Hackers in 2022, EC-Council conducted an in-depth survey of 3,318 applicants for the C|EH Hall of Fame awards. All of these professionals had already proven their mettle by scoring 90% or better on the C|EH certification exam.

The survey respondents represented scores of industries, with their numbers concentrated heavily in the information technology, consulting, financial services and government fields (figure 2).



Figure 2: 2023 C|EH Hall of Fame Representation by Industry (Awardees and Finalists)

In addition to providing their personal data for the purpose of statistical analysis, participants offered a wealth of commentary on their cybersecurity-related experiences and career journeys. A sampling of their remarks is included in this report.

SECURING ORGANIZATIONAL ASSETS

The top priority for many security professionals is to improve security at their organizations, whether that means implementing new strategies and systems or optimizing those that are already in place. The skills developed in the C|EH program proved helpful in carrying out that responsibility for more than 92% of survey respondents (see figure 3), indicating that those skills have wide applications for defending organizational assets across multiple industries.

Securing organizational assets is a top priority for many security professionals, and the skills developed in the C|EH program are instrumental in achieving that goal. More than 92% of those polled found the skills they learned in the C|EH program helpful improve security at their organizations, either through implementing new strategies and systems or optimizing existing ones. The C|EH program's comprehensive curriculum covers a wide range of topics—such as penetration testing, vulnerability assessment, and incident response—that are essential for the identification and mitigation of security threats and the protection of organizational assets across a broad range of industries.

93% OF PROFESSIONALS STATED THAT C|EH SKILLS IMPROVED THEIR ORGANIZATIONAL SECURITY.

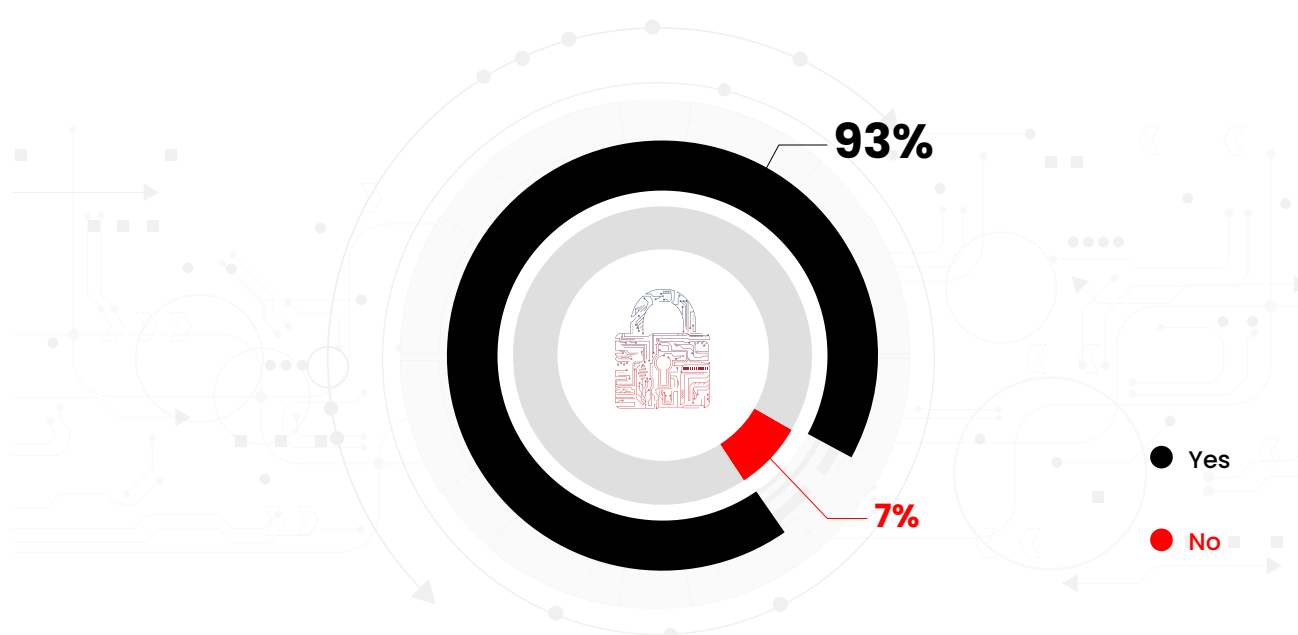


Figure 3: Value of C|EH Skills for Organizational Security

Hall of Fame awardee Sofia Nicholson, a security engineer at Microsoft in the U.S., was able to quantify one of her contributions toward improving organizational security. "**I created** detection filters that reduced false positive security alerts," she said. "This enabled the Security Operations Center to minimize attention on known activity and focus on real threats, saving the team a total of 1,784 hours of unnecessary work per month."

Thomas Aldrich, newly inducted to the Hall of Fame, neutralized an insider threat in his work on a classified project as a security officer at Lockheed Martin in the U.S. "**I monitored** and captured logs and images and successfully identified the perpetrator, which led to a successful court martial and jail time," he said.

"**I resolved** a ransomware incident in just a few hours without making any ransomware payment," reported new Hall of Fame finalist Tso Ejoe, an IT security educator at the Vocational Training Council in India.

C|EH skills helped Hall of Fame finalist Bajirao Vijaya Amol, an IT security manager for an IT managed services provider in India, strengthen his organization's security. "**I reviewed** my organization's security posture and operations from the perspective of an attacker, reconsidered the techniques for offense and defense, and contextualized pre-existing incident handling processes and procedures. Also, [these skills] helped me train my [SOC] team on the techniques explained in the C|EH training," he recalled.

"I established a formal penetration testing program in my organization. With this, I identified a lot of vulnerabilities and remediated all of them," said Hall of Fame finalist Akinosi Abiola, IT director at a telecommunications firm in the UAE.

C|EH alums can point to a wealth of specific contributions to their organizations, such as these examples:

- **"My team performed** over 800+ cybersecurity missions while achieving a 99.8% operational readiness rating." – Hall of Fame awardee Stephen Reid, security engineer in the U.S. Army
- **"I redefined** the security assessments service catalog and grew its business revenues to 1.2M euros from 600k." – Hall of Fame awardee Nicola Bressan, chief information officer for Yarix SRL in Italy
- **"I automated** the resolution of over 1,000 CAT II STIG vulnerabilities." – Hall of Fame awardee Brian Cochran, IT manager in the U.S. Army
- **"I conducted** a DoD Cyber Tabletop with attendance from the Office of the Undersecretary of Defense." – Hall of Fame finalist Daniel Reyes, a security engineer at Raytheon Technologies in the U.S.
- **"I led** the establishment of the Public Sector Directorate resulting in a Total Contract Value of over \$21M in revenue in one year." – Hall of Fame finalist Darryl Mosley, director of the Public Sector Group at Silotech Group in the U.S.

Comprehensive Curriculum

One of the main reasons ethical hacker skills have broad applications for such a wide variety of organizations across the globe is that the C|EH curriculum is exceptionally comprehensive. In fact, more than 88% of survey respondents considered it the most comprehensive in the industry (see figure 4).

The C|EH program is widely recognized for its comprehensive curriculum, which is one of the reasons ethical hacker skills have broad applications across a wide range of organizations globally. More than 88% of survey respondents considered it the most comprehensive in the industry. The curriculum covers a wide range of topics, including penetration testing, vulnerability assessment, and incident response. It also provides hands-on experience through C|EH Labs, which allows participants to apply the knowledge and skills they have acquired in a simulated environment. The comprehensive nature of the C|EH curriculum ensures that professionals have a well-rounded understanding of the cybersecurity landscape and are equipped with the necessary skills to identify and mitigate security threats.



88% CONSIDERED C|EH TO BE THE MOST COMPREHENSIVE ETHICAL HACKING PROGRAM IN THE INDUSTRY.

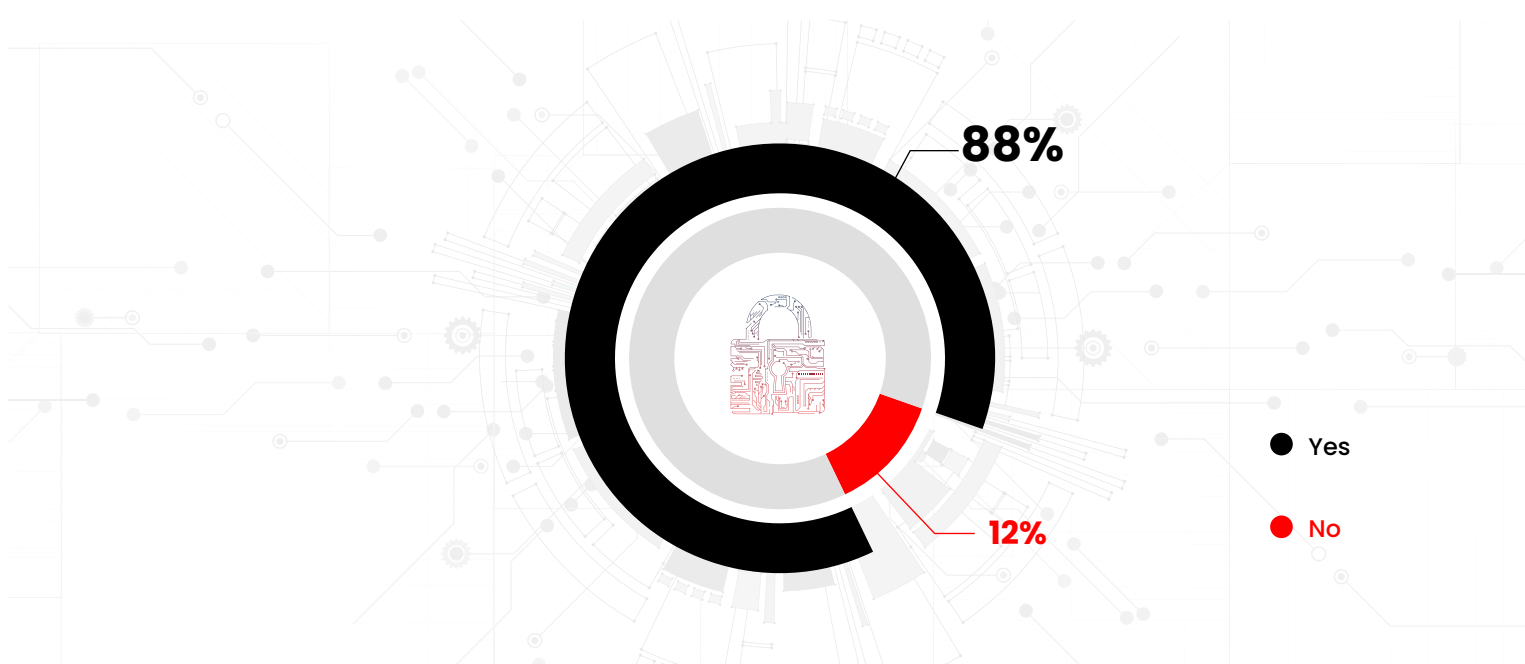


Figure 4: Comprehensiveness of C|EH Program

"C|EH is a foundational course for offensive and defensive security professionals," noted newly inducted Hall of Famer Ramin Nafisi, a security researcher at Microsoft in the U.S. "It covers a broad range of comprehensive, fundamental, and relevant security assessment topics possessed by computer and network security practitioners."

"I have not come across another certification body that offers such a broad variety of specializations," commented Hall of Fame awardee Steve Vaillancourt, a professor, educator, and trainer at the Canadian Centre for Cyber Security. "The amount of training one can leverage from EC-Council is tremendous."

One of the key ingredients in the C|EH training curriculum is C|EH Labs, which gives participants a way to safely gain hands-on experience that closely parallels the high-stakes experiences of cybersecurity professionals engaged in active combat (see figure 5).

C|EH Labs provides participants with a safe and controlled environment to gain hands-on experience. These labs are crucial in training and preparing cybersecurity professionals for the field, as they allow them to practice and apply the knowledge and skills they have learned in a safe environment that simulates high-pressure events. C|EH Labs help participants to develop their problem-solving and critical thinking skills, as well as their ability to apply their knowledge in real-world scenarios. C|EH Labs enable participants to develop a deeper understanding of the cybersecurity landscape and the many types of threats they may encounter in their careers. Overall, the hands-on experience gained through C|EH Labs is an essential component of training for cybersecurity professionals and helps to ensure they are well-prepared to meet the challenges of the field.

97% OF PROFESSIONALS FOUND C|EH LABS TO ACCURATELY MIMIC REAL-WORLD CYBER THREATS

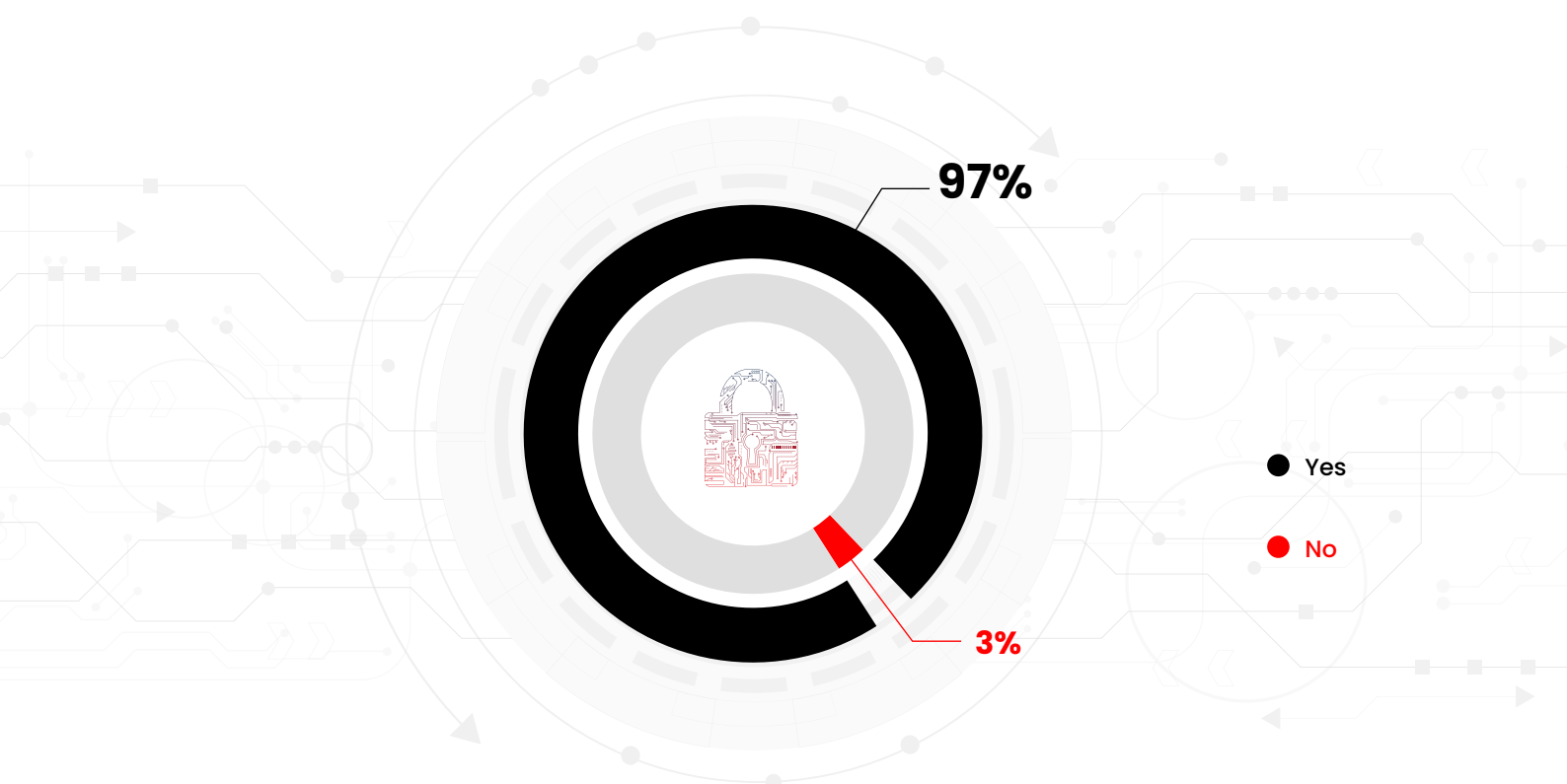


Figure 5: Simulation Accuracy of C|EH Labs

Which Sectors Need Ethical Hackers?

Certified Ethical Hackers can be found in all industry sectors, and their numbers are increasing across the board. Their specific contributions vary according to

the sector's needs, but what is particularly noteworthy is that a staggering 97% of the professionals polled found the skills they acquired through their C|EH programs were relevant to their organization (see figure 6).



97% OF PROFESSIONALS STATED THAT SKILLS ACQUIRED IN C|EH HELPED SAFEGUARD THEIR ORGANIZATIONS

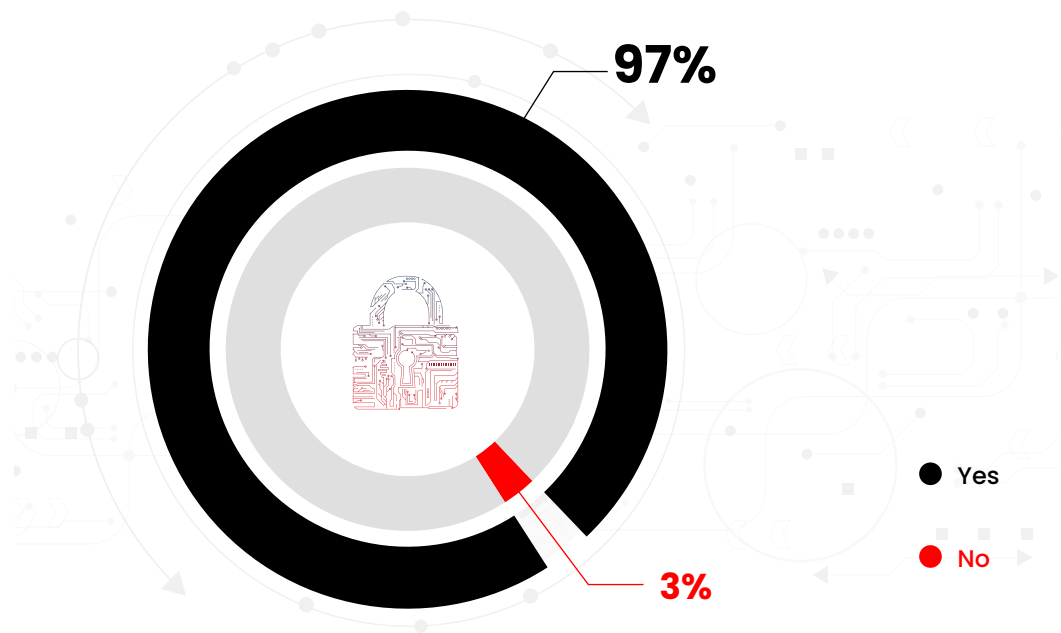


Figure 6: Relevance of C|EH Skills

Just as there are many different sectors that Certified Ethical Hackers work in, there are also many different jobs that they are hired to do. Currently, C|EH skills are in high demand and are a good fit for dozens of roles in cybersecurity including the following:

- Mid-level Information Assurance Security Auditor
- Cybersecurity Auditor
- System Security Administrator
- IT Security Administrator
- Cyber Defense Analyst
- Vulnerability Assessment Analyst
- Warning Analyst
- Information Security Analyst I
- Security Analyst LI
- Infosec Security Administrator
- Cybersecurity Analyst level 1
- Cybersecurity Analyst level 2
- Cybersecurity Analyst level 3
- Network Security Engineer
- SOC Security Analyst
- Security Analyst
- Network Engineer
- Senior Security Consultant
- Manual Ethical Hacker
- Information Security Manager
- Junior Penetration Tester
- Senior SOC Analyst
- Solution Architect
- Cybersecurity Consultant
- Security Compliance Analyst
- Technology Risk and Cybersecurity Auditor

This list of job titles and responsibilities is not exhaustive and does not cover all the specialized niche roles within the field of cybersecurity. Additionally, as the cybersecurity field is constantly evolving, new roles are constantly emerging. However, there are certain capabilities that are consistently required in the field, and the C|EH program covers all of them. As one can see in figure 7, the highest percentages of survey participants reported regularly engaging in vulnerability assessment (76%), application security (62%), and penetration testing (58%) as a regular part of their work. The fewest (17%) reported working regularly on mobility security. The C|EH program provides the knowledge and skills needed for essential cybersecurity roles and prepares professionals for the COI

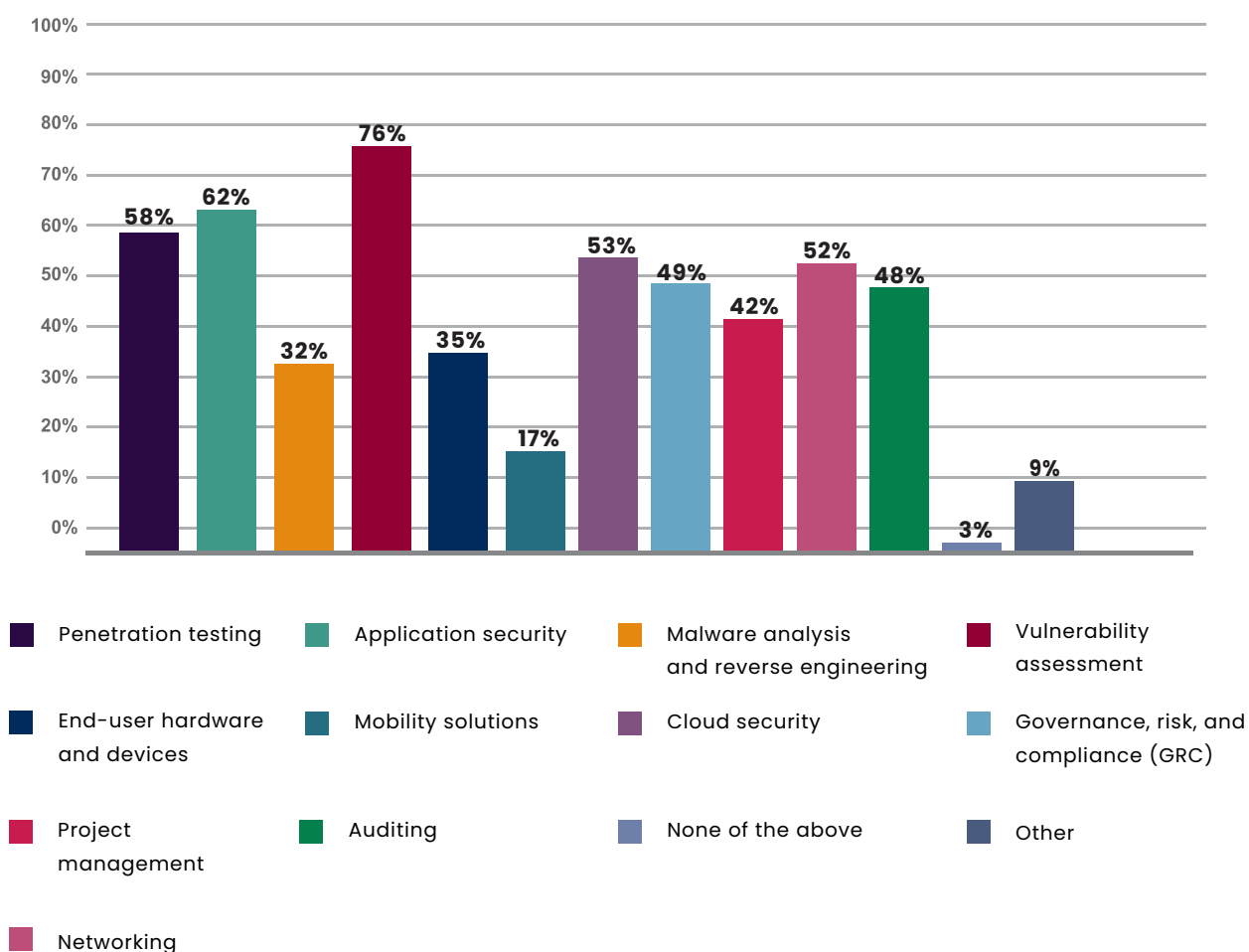


Figure 7: Application of C|EH Skills on the Job

Major Accomplishments of Certified Ethical Hackers

One of the things that drives ethical hackers to keep striving day after day is the ability to see the differences they are making—to their organizations, their communities, and the wider cybersecurity world—through very specific, concrete accomplishments. Here are just a few high points from the 2023 C|EH Hall of Famers:

I developed and implemented organizational security strategies and frameworks that reduced insider security-related breaches by 20% compared to the last three-year reports.” – Hall of Fame awardee Guerrino Mazzarolo, an IT security manager for NATO in Belgium.

I developed a solution for the satellite networks to mitigate DoS and spoofing-based attacks.” – Hall of Fame awardee Ali Karakoc, a security architect for IBM in the Netherlands.

I assisted our homeowners association to better secure our infrastructure. This has helped to increase the overall security for our area and residents.” – Hall of Fame awardee Adam Hardinger, an IT specialist for the Department of Defense in the United States.

I spoke at DEFCON and was overwhelmed when the conference room was standing room only for my talk, with well over 1,000 people. It was a privilege to give back to the security community by researching for several months and presenting my findings, which ultimately received the attention of ATM manufacturers and effected positive change.” – Hall of Fame awardee Roy Davis, a security engineer for Zoom in the United Kingdom.

I volunteered for seven years, mentoring and coaching Cyber Patriot high school and college teams, resulting in numerous awards, grants and accolades for the schools and the students, including the following: national and state level first- and second-place awards; a mayoral letter of proclamations; HEB \$100,000 grants; school board recognitions; an (ISC)² \$3,000 scholarship; a Naval Academy four-year scholarship, and other college scholarships.” – Hall of Fame awardee Timothy Anderson, an IT security manager for the U.S. Department of Veterans Affairs.

I won the Cyberlympics tournament in South America in 2014, one year after I got my C|EH.” – Hall of Fame awardee Marcelo DaSilva, a security engineer for Microsoft in the United States.

Career Building With C|EH

All of the achievements of these ethical hackers can be traced back to one important decision: to enter the field of cybersecurity as a professional. Nearly 80% of survey respondents stated that the C|EH program was instrumental in launching their cybersecurity careers. The C|EH certification program is widely recognized as a valuable asset for professionals in the field, providing them with the knowledge and skills necessary to

identify and mitigate security threats. Many professionals with C|EH certification have reported that it advanced their careers, increased their credibility and value as cybersecurity professionals, and opened doors to greater opportunities in the field. The C|EH certification is an essential step in building a successful career in cybersecurity (see figure 8).



80% OF THE HALL OF FAME FINALISTS STARTED THEIR CYBERSECURITY CAREERS WITH C|EH CERTIFICATION.

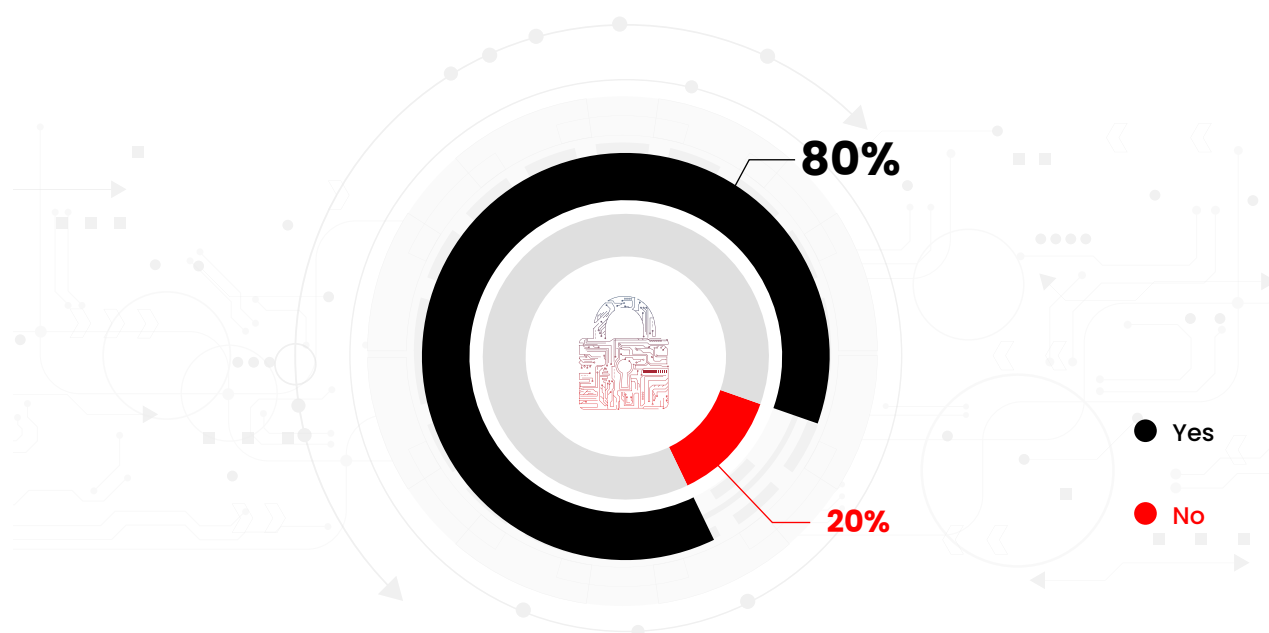


Figure 8: C|EH as Cybersecurity Career Starter

The C|EH program is a popular choice for those looking to start a career, change career direction, or advance in their chosen field in the cybersecurity industry. The decision to pursue the C|EH certification can be driven by a variety of factors. For some, the decision was handed to them by employers who recognized the value of ethical hacker skills within their organizations. However, an overwhelming number of survey respondents (95%) chose the C|EH program to advance

their careers based on their own personal interests. They recognized the importance of ethical hacking skills in the field and the potential career opportunities that the certification could provide. The C|EH program is seen as a valuable asset for professionals in the field, providing them with the knowledge and skills necessary to identify and mitigate security threats and advance their careers in the cybersecurity industry (see figure 9).



95% CHOSE C|EH FOR CAREER GROWTH.

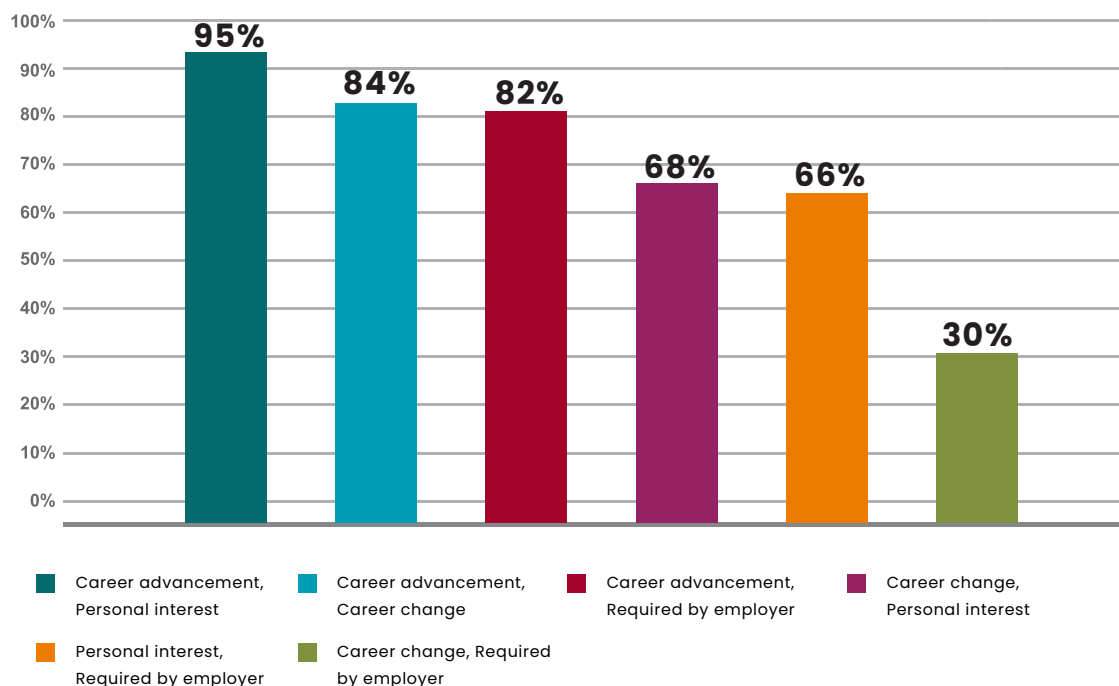


Figure 9: Reasons for Choosing the C|EH Program

One crucial requirement for anyone starting fresh in an industry or transitioning into a new career or role is confidence. C|EH Hall of Famers found that their experiences with the program helped them not only talk

the talk, but walk the walk with faith in their newly-acquired capabilities. 92% of survey respondents felt that infusion of confidence, thanks to earning their C|EH credentials (**see figure 10**).



92% OF PROFESSIONALS REPORTED THAT C|EH BOOSTED THEIR SELF CONFIDENCE

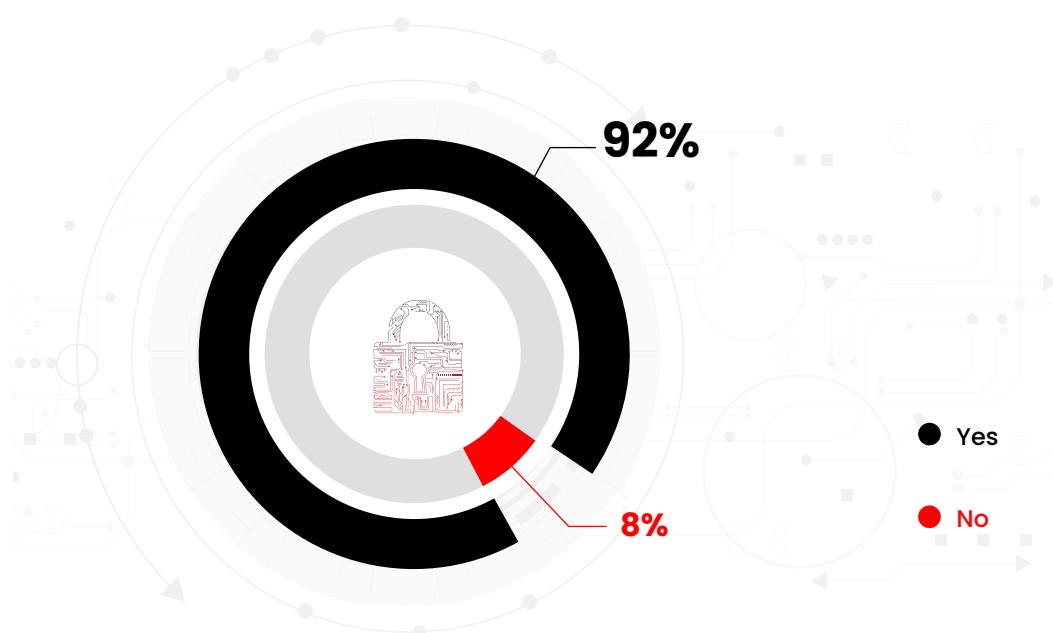


Figure 10: C|EH Impact on Confidence

The knowledge and skills gained through the C|EH program helped Hall of Fame awardee Noel Nicolas, a threat hunter for the U.S. Air Force, to speak the same language as other professionals. "It helps conversations and meetings go much faster. I can speak with confidence at these meetings to talk at a high level and a very technical level," he said.

"I can handle tasks with greater confidence, and also my colleagues are confident with my decisions," said Hall of Fame finalist Anthony Dayrit, chief information security officer at Allianz Singapore. "They also expressed keen interest to take up C|EH."

The Importance of Continuously Upgrading Skills

Few fields are as volatile as cybersecurity when it comes to major shifts due to crafty new exploits. It is critical to choose the right program when entering the

cybersecurity field or changing roles. However, those major career milestones are not the only times to work on professional development. It is important to hone one's skills continuously, because threat actors are working nonstop to devise new schemes.

Successful cybersecurity professionals, including C|EH Hall of Fame awardees and finalists, are well aware of the need to maintain their positions on the leading edge of the industry through constantly deepening their expertise. A majority of survey respondents (56%) reported working on building skills on a daily basis (see figure 11). Nearly 30% sharpened their skills weekly, and about 12% made time for skill development on a monthly basis. Only about 2% of those polled polished their skills once a year or less.

85% OF PROFESSIONALS SHARPEN THEIR SKILLS AT LEAST ONCE PER WEEK.

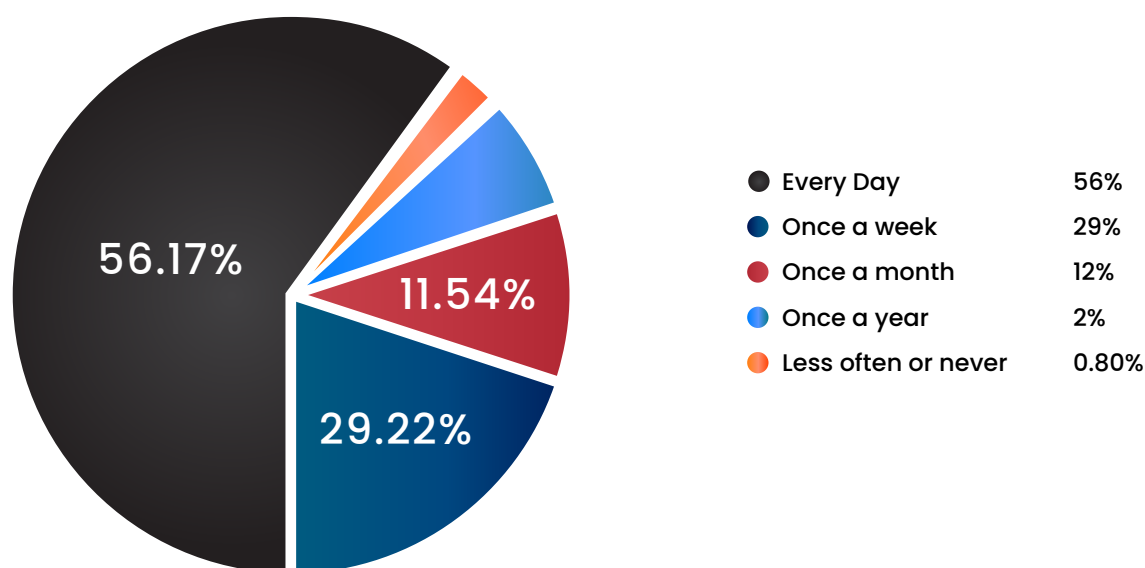


Figure 11: Time Devoted to Building Cybersecurity Skills

That relentless attention to refining their skills has paid off handsomely for C|EH Hall of Fame finalists and awardees. Many of them have risen to positions that include responsibility for making hiring decisions for their organizations. An overwhelming majority of the

hiring managers among survey respondents acknowledged that they would give preference to job applicants with the C|EH certification when filling positions that require ethical hacking skills (see figure 12).



92% OF HIRING MANAGERS PREFER CANDIDATES WITH C|EH FOR JOBS THAT REQUIRE ETHICAL HACKING SKILLS.

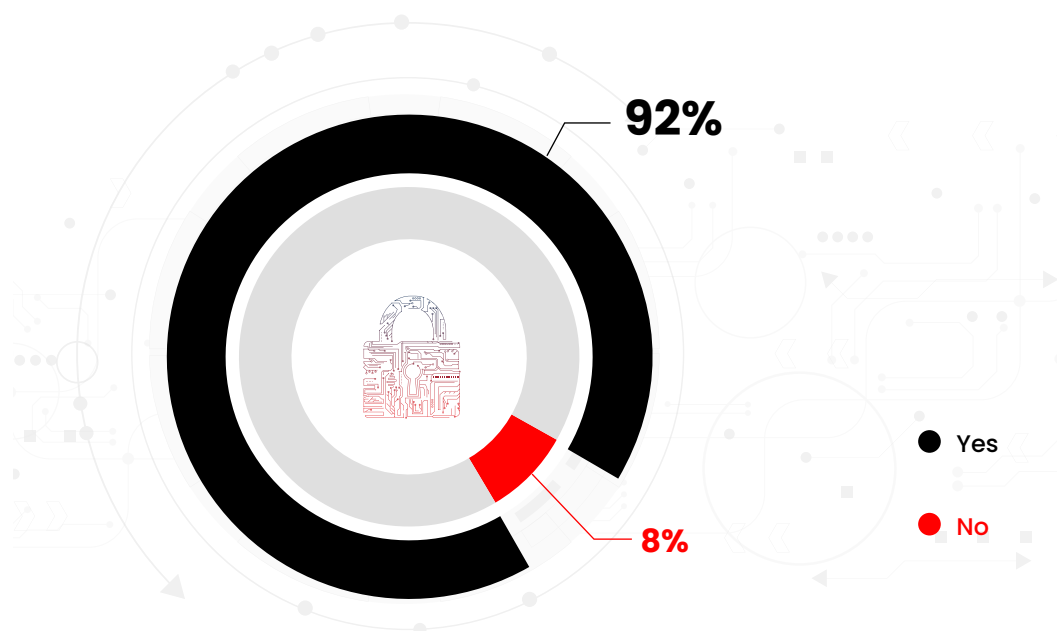


Figure 12: Preference for Job Applicants With C|EH

Impact of C|EH on Hall of Fame Awardees and Finalists

For the 1,000 professionals who were named as finalists and the 100 who were inducted into the 2023 C|EH Hall

of Fame, obtaining a Certified Ethical Hacker (C|EH) certification had a significant impact on their careers. It led to advancements in their positions, increased responsibilities, and opportunities for growth, as well as recognition as leaders in the industry



Here are a just a few of their stories:

“

I started six year ago as a junior IPS/IDS admin and then got promoted to escalations engineer within the same department," recalled Hall of Fame awardee David Gomez, a security specialist for IBM in Costa Rica. "After four years on that team, I decided to continue my professional path with the threat monitoring team—first as a TM analyst. I was then promoted to TM escalation engineer."

“

I am the chief of training and military advisor to the 16th numbered Air Force, A6IC division, under Air Combat Command for the United States Air Force," said Hall of Fame awardee Frankie Grullon, a cybersecurity professor, educator, and trainer for the U.S. Air Force. "I am responsible for the curriculum development, instruction, and management of the AF intelligence community's training division program. I also provide senior leaders with strategic and tactical employment of Air Force resources for specialized cyber and intelligence mission sets. I am fully qualified in the domain of cyberspace and information operations. I have over 21 years of experience, starting as a humble help desk administrator and eventually working my way to becoming a director of information technology and chief cyber information security officer. My experience has ranged from the medical and education fields to government sectors in both contractor and public servant roles. I also run my own nonprofit cybersecurity firm that teaches cyber dangers to underprivileged and disadvantaged communities."

“

I have spent my career across different domains. I started out in the helpdesk, working my way through system administration," said Hall of Fame awardee Jason Lee, a security consultant for Deloitte in the U.S. "I pivoted into networking and ultimately went into network security. I have spent the last 10 years as a network security professional, with a focus on network pentesting and remediating findings to develop secure infrastructure."

“

I'm managing alliance partners focusing on expanding security offerings available on the Google Cloud Platform—working closely with companies including Palo Alto Networks, Exabeam, and Elastic to deliver end-to-end security offerings for Google's customers," said Hall of Fame awardee Nick Schoeffler, technology partnerships lead, security, for Google in Australia. "I worked for almost 20 years at Microsoft in their consulting and sales businesses—providing solutions, consulting, and architecture to all industries with a focus on modern workplace technologies and securing their environments. My last three years have been with Google, managing one of their key businesses and being a regional spokesperson for security in the workplace."

“

I remember when I read my first book named Hacking University. It was my first trigger, and then I fell in love with cybersecurity," said Hall of Fame finalist Ciro Jesus, IT security director at Oiti, a financial services firm in Brazil. "So, I decided to direct my hacking studies in 2013. In 2018 I started planning the Cyber Security Labs development strategy at Logicalis and it motivated me a lot. I received a challenge in Bogota, Colombia—I spent three months developing a SOC and cyber processes for a financial customer. I used the NIST Incident Handling Guide a lot to structure the incident response processes. I recently joined Oiti, and we are evolving the cybersecurity program, building more security controls. I am very happy to be here and to increase cybersecurity maturity in a company that places security as a strategic pillar. I'm really excited about everything around here and I hope that C|EH will also help me on this path."

MANY C|EH HOLDERS CREDITED CERTIFICATION AS A MAJOR FACTOR IN GETTING PROMOTED AND ACHIEVING CAREER SUCCESS.

“

Promotion within 6 months...”

Ahmar Rizwan, Tata Consultancy Services

”

“

I received a promotion to the top tier in the government...”

Ahmar Rizwan, Tata Consultancy Services

”

“

Promoted as head of red team after one year as specialist...”

Nicola Bressan, Yarix SRL

”

“

Promotion to the position of a Senior Consultant after one year of joining KPMG...”

Boluwarin Aremu, KPMG, Nigeria

”

“

Achieving the rank/promotion of E-8 in the USAF as a cyber professional...”

Krystal Hughes, USAF

”

“

I was promoted to the next level after showing the security control implementation to protect the organization's ICT environment with learning from C|EH.”

Boluwarin Aremu, KPMG, Nigeria

”

“

After taking the C|EH program, I am getting promoted because of thinking out of the box and addressing the issues very well and mitigating the risk at an acceptable level.”

Vaibhav Pandya, Etek International

”

“

I started in my current company as cybersecurity analyst for three years. Then I was promoted to cybersecurity manager last year and this year I have been promoted to CISO.”

Jesus Abascal, ClarkeModet

”

“

Being promoted to L2 level in SOC operations...”

Sidhartha Priya, EY

”

“

C|EH helped me to advance my career by looking into a more senior role and getting an early promotion in my professional life...”

Muhammad Taha, CanadianCyber

”

“

Got promoted to SOC supervisor...”

Hussam Bokhari, Saudi National Bank

”

“

Being promoted to a team lead role after working for a year in a Big 4 firm...”

Neil Kendall, Nuclear Decommissioning Authority

”

“

Consistent growth and promotions and building world class teams in cybersecurity...”

Sakthiswaran Rangaraju, VMware

”

“

Got promoted as assistant manager...”

Rayudu Babu, Standard Chartered Bank GBS

”



The Influence of C|EH on the Cybersecurity Community

From their accounts, it is clear that possessing cybersecurity skills—and, in particular, ethical hacking opens countless doors to career success and personal fulfillment. As great as raises, promotions, and increased professional recognition are, they are not the only objectives for C|EH top performers.

A great many Hall of Fame finalists and awardees make meaningful contributions to strengthening the cybersecurity field overall through mentoring, training, educating the public, and many other activities. Of those surveyed, 85% expressed their satisfaction in being able to share their expertise in volunteer capacities and credited the C|EH program with making it possible (see figure 13).



85% OF PROFESSIONALS CREDITED C|EH TO HELPING THEM GIVE BACK TO THE CYBERSECURITY COMMUNITY

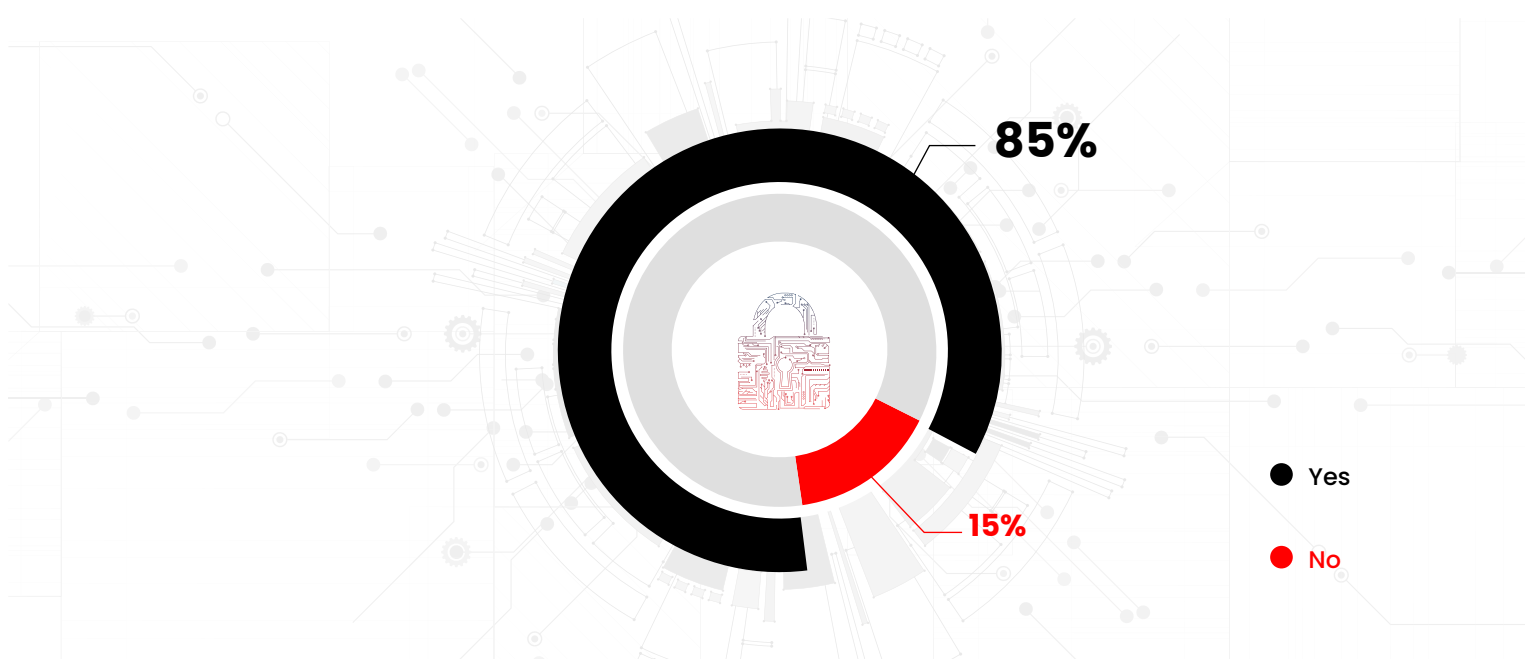


Figure 13: C|EH as Facilitator of Community Contributions

By providing glimpses into their world, C|EH Hall of Fame awardees and finalists have contributed much more than information about their career trajectories. They have communicated the driving force that propels

them toward achieving their organizations' objectives and reaching their own personal goals: a passionate interest in making the world safer and more secure.



BLAST FROM THE PAST

100

Certified Ethical
Hacker Hall of fame
Awardees
2021-2022

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C|EH Hall of Fame Report
2021-2022: Leaders of
the Ethical Hacking
Community 2021-2022

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ABOUT EC-COUNCIL

The International Council of E-Commerce Consultants, also known as EC-Council, is the world's largest cybersecurity technical certification body. It operates in 145 countries globally and is the owner and developer of the world-famous Certified Ethical Hacker (C|EH), Computer Hacking Forensics Investigator (C|HFI), and License Penetration Testing (Practical) programs, among others. EC-Council has trained and certified more than 200,000 information security professionals who have influenced the cybersecurity mindset of countless organizations worldwide.

EC-Council was founded by Jay Bavisi in 2001, in the aftermath of the 9/11 attacks in the United States. Its mission is "to validate information security professionals who are equipped with the necessary skills and knowledge required in a specialized information security domain that will help them avert a cyberconflict, should the need ever arise" (EC-Council, About Us, n.d.). The organization is committed to upholding the highest level of impartiality and objectivity in its practices, decision making, and authority in all matters related to certification.

EC-Council's certification programs are approved under the United States government's Montgomery GI Bill®. Furthermore, the US Government National Security Agency (NSA) and the Committee on National Security Systems (CNSS) have certified EC-Council's Certified Ethical Hacking (C|EH), Certified Network Defender (C|ND), Computer Hacking Forensics Investigator (CHFI), Disaster Recovery Professional (EDRP), and Licensed Penetration Tester (LPT) programs for meeting the training requirements for information security professionals set forth in standards 4011, 4012, 4013A, 4014, 4015 and 4016). EC-Council is also accredited by the American National Standards Institute (ANSI).

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