

Ceh Practical Exam Questions And Answers

****Mastering CEH Practical Exam Questions and Answers: Your Ultimate Guide**** **ceh practical exam questions and answers** are what many aspiring ethical hackers seek to understand deeply as they prepare for the Certified Ethical Hacker (CEH) practical certification. Unlike theoretical exams, the CEH practical test challenges candidates to demonstrate hands-on skills in real-world scenarios, making it crucial to not only know the concepts but also to apply them effectively. If you're gearing up for this exam, getting familiar with the types of questions and the best ways to approach answers can significantly boost your confidence and performance.

Understanding the CEH Practical Exam Format

Before diving into specific questions and answers, it's essential to grasp how the CEH practical exam is structured. This helps in tailoring your study strategy accordingly. The CEH practical is a fully online, proctored exam lasting around six hours. It presents candidates with a series of simulated cybersecurity environments where they must identify vulnerabilities, exploit systems ethically, and document their findings. The practical exam covers a wide range of domains including network scanning, system hacking, web server attacks, and more.

Why Hands-On Skills Matter More Than Ever

The cybersecurity landscape is constantly evolving, and employers place high value on practical skills. The CEH practical exam tests your ability to perform penetration testing tasks that can't be learned solely from reading books or watching videos. Mastery of tools like Nmap, Metasploit, Wireshark, and Burp Suite is critical, and understanding how to interpret their outputs is just as important.

Typical CEH Practical Exam Questions and How to Approach Them

The nature of CEH practical exam questions requires candidates to think critically and apply techniques under time constraints. Let's explore some common question types and effective strategies to tackle them.

1. Network Scanning and Enumeration Tasks

A frequent question type involves scanning a target network to identify live hosts, open ports, and services running on those ports. For example, you may be asked: - Identify all active hosts on the 192.168.1.0/24 network. - Enumerate services running on the web server located at 192.168.1.100. ****Approach:**** Use tools like Nmap with appropriate flags to perform ping sweeps and port scans. For instance, `nmap -sP 192.168.1.0/24` finds live hosts, while `nmap -sV 192.168.1.100` reveals service versions. Remember to carefully analyze the scan results to report back accurately.

2. Vulnerability Assessment and Exploitation

You might be tasked with identifying vulnerabilities on a target system and exploiting them ethically. The exam could prompt: - Find vulnerabilities on the target web application and exploit a SQL injection vulnerability. - Use Metasploit to gain access to a vulnerable system. ****Approach:**** Start by running vulnerability scanners like OpenVAS or Nessus if allowed, or conduct manual testing with tools such as sqlmap for SQL injection. When exploiting, ensure you understand the payloads and meterpreter commands in Metasploit to maintain control without causing harm.

3. Password Cracking and Privilege Escalation** The CEH practical exam often tests your ability to crack passwords and escalate privileges within a compromised system. A question might look like: - Crack the password hash found in the given file. - Escalate privileges from a normal user to root on a Linux system. ****Approach:**** Use tools like John the Ripper or Hashcat to crack password hashes efficiently. For privilege escalation, analyze system configurations, check for SUID files, kernel exploits, or weak sudo permissions to find an exploit path.

Key Tools You Should Be Comfortable With

To excel in the CEH practical exam, proficiency with certain cybersecurity tools is non-negotiable. Here's a quick rundown of essentials:

1. **Nmap:** For network discovery and port scanning.
2. **Metasploit Framework:** For exploiting vulnerabilities and managing payloads.
3. **Wireshark:** To capture and analyze network traffic.
4. **Burp Suite:** For web application security testing.
5. **John the Ripper / Hashcat:** Password cracking utilities.
6. **Netcat:** For network debugging and banner grabbing.

Be sure to practice using these tools in lab environments so you can navigate them quickly and confidently during the exam.

Tips for Answering CEH Practical Exam Questions Effectively

Success on the CEH practical exam doesn't just come from technical knowledge but also from strategy and exam management.

Manage Your Time Wisely

With limited time, don't get stuck on a single question. If a task seems too complicated initially, move on and return later if time permits. Prioritize questions you find easier to build momentum.

Document Your Findings Thoroughly

Many exam questions require you to submit reports or explain your methods. Clear documentation not only shows your technical abilities but also your communication skills — both valued in cybersecurity roles. Include commands used, outputs, and your interpretation.

Practice Real-World Scenarios

Beyond memorizing commands, engage in hands-on labs, Capture The Flag (CTF) challenges, and virtual penetration testing environments. Platforms like Hack The Box, TryHackMe, and EC-Council's official labs mirror the exam's practical tasks closely.

Common Challenges and How to Overcome Them

Candidates often face obstacles during the CEH practical exam, but foresight can help mitigate these issues.

Dealing With Complex Network Architectures

Sometimes, targets have multiple subnets, firewalls, or intrusion detection systems. Learning how to perform stealth scans or evasion techniques can help you bypass such defenses ethically.

Handling Time Pressure

The exam is lengthy but time-intensive. Developing a checklist for each task type ensures you don't miss critical steps, and practicing under timed conditions improves your speed.

Interpreting Partial or Ambiguous Data

Not all scan results or logs are straightforward. Build your analytical skills to infer potential vulnerabilities even when evidence isn't crystal clear. Cross-referencing multiple tools' outputs often clarifies uncertainties.

How to Use CEH Practical Exam Questions and Answers for Study

Reviewing past exam questions and model answers can be tremendously helpful, but it's vital to use them as learning tools rather than shortcuts. -

****Simulate exam conditions:**** Try solving questions in a timed environment. - ****Understand the why and how:**** Don't just memorize answers—grasp the underlying concepts. - ****Create your own labs:**** Replicate scenarios to practice repeatedly until you gain fluency. - ****Join study groups:**** Collaborate with peers to exchange knowledge and tips. By immersing yourself in both theoretical knowledge and practical application, your preparation will become robust and well-rounded. Mastering CEH practical exam questions and answers is a journey that sharpens your ethical hacking skills and prepares you for real-world cybersecurity challenges. The key lies in consistent practice, understanding tool functionalities, and developing an analytical mindset. As you progress, you'll find yourself not only ready for the exam but well-equipped to protect digital environments ethically and effectively.

Comprehensive Guide to CEH Practical Exam Questions and Answers: Mastering the NCE2-PT Certification Path

Preparing for the Certified Ethical Hacker (CEH) practical exam requires more than theoretical knowledge—it demands mastery of hands-on skills, real-world scenario application, and flawless execution under timed conditions. This article delivers an ultra-deep, search-intent dominant resource designed to dominate top search rankings for “CEH practical exam questions and answers,” serving as the definitive guide for exam aspirants, cybersecurity trainers, and organizational upskilling teams. We explore the exam's evolution, technical mechanisms, structured question architectures, advanced strategy frameworks, and proven error mitigation—all grounded in current NICE Framework and (ISC)² standards.

Introduction to the CEH Practical Exam: Purpose and Landscape

The CEH practical exam, formally known as the NCE2-PT (Certified Ethical Hacker – Practical Skills) assessment, is the capstone evaluation in the CEH certification journey. Unlike the knowledge-based CEH v1, the CEH v2 and v3 exams emphasize demonstrable penetration testing, vulnerability assessment, exploit development, and ethical hacking methodologies. The practical exam simulates real-world red team operations, testing candidates' abilities to identify, exploit, and remediate security weaknesses across diverse IT environments.

This exam is engineered to validate not just theoretical mastery but operational proficiency—requiring candidates to navigate complex systems, use approved tools, document findings, and justify actions ethically. Its structure reflects modern cybersecurity challenges, making it a critical milestone for professionals aiming to secure roles in ethical hacking, red teaming, and security research.

Evolution of the CEH Practical Exam: From v1 to v3 and Beyond

The CEH exam has evolved significantly since its inception. Early versions (v1) focused primarily on conceptual knowledge, with limited practical components. The shift to v2 introduced scenario-based questions requiring deeper technical execution, while v3 deepened complexity with advanced exploitation techniques, automation, and integration with industry frameworks like MITRE ATT&CK.

The v3 practical exam now demands mastery across six key domains: reconnaissance, scanning, system hacking, malware analysis, social engineering, and reporting. Each domain is rigorously tested through simulated environments, ensuring candidates demonstrate not only technical skill but also methodical, ethical, and documented approaches. This evolution mirrors the growing sophistication of cyber threats and the need for hands-on readiness in defense roles.

Core Exam Structure: Question Types and Mechanisms

The CEH practical exam is structured to assess both technical depth and applied problem-solving. Candidates encounter a hybrid format blending scenario-based tasks, tool-based challenges, and open-ended exploitation exercises. The exam is divided into three main phases:

Phase 1: Scenario-Based Tasks—Candidates receive real-world attack scenarios requiring identification of vulnerabilities, exploitation, and mitigation strategies. These tasks test situational awareness and strategic thinking. **Phase 2: Tool-Enabled Challenges**—Using permitted platforms (e.g., Metasploit, Nmap, Burp Suite), candidates perform network scanning, vulnerability scanning, exploitation, and post-exploitation actions. These questions evaluate precision, efficiency, and compliance with ethical boundaries. **Phase 3: Reporting and Remediation**—Beyond exploitation, candidates must document findings, articulate risks, and propose remediation. This phase assesses communication skills and alignment with security best practices.

The mechanisms are designed to mirror authentic red team operations, emphasizing workflow integrity from reconnaissance to reporting. Timed constraints (typically 4–6 hours) simulate operational pressure, requiring candidates to balance speed with accuracy.

Deep Dive into CEH Practical Exam Question Categories

Understanding the granular question types is essential for targeted preparation. Below is a taxonomy of core question categories tested in the CEH practical exam:

1. Network Reconnaissance and Scanning

Questions here test passive and active information gathering, including OSINT techniques, ARP scanning, DNS enumeration, and service fingerprinting. Candidates must identify targets, map network topology, and detect exposed services using tools like Nmap, WHOIS, and Shodan. Key skills include interpreting scan results, identifying misconfigurations, and

avoiding detection.

****Navigating CEH Practical Exam Questions and Answers: An In-Depth Review**** **ceh practical exam questions and answers** represent a critical component for cybersecurity professionals aiming to validate their ethical hacking skills. The Certified Ethical Hacker (CEH) Practical exam, designed to test candidates' hands-on abilities, differs significantly from the traditional multiple-choice CEH exam by emphasizing real-world scenarios and applied knowledge. Understanding the nature of these questions and the corresponding answers is essential for candidates who seek to excel in this rigorous assessment. The CEH Practical exam is structured to simulate realistic hacking environments where candidates must demonstrate competencies in penetration testing, vulnerability assessment, and exploiting security loopholes ethically. Unlike theoretical assessments, this practical exam requires a blend of technical expertise, problem-solving skills, and strategic thinking. As such, the questions presented are dynamic and often multifaceted, reflecting the complexity of modern cybersecurity threats.

Understanding the Structure of CEH Practical Exam Questions

Unlike the CEH multiple-choice format, the practical exam presents candidates with lab-based scenarios that require them to execute a series of tasks within a virtual environment. These tasks are designed to gauge the candidate's ability to conduct penetration tests, analyze security weaknesses, and document findings professionally.

Types of Questions Encountered

CEH practical exam questions typically revolve around:

1. **Network Scanning and Enumeration:** Candidates must identify live hosts, open ports, and running services using tools like Nmap or Netcat.
2. **Vulnerability Analysis:** Tasks include scanning systems for vulnerabilities with tools such as Nessus or OpenVAS and interpreting the results accurately.
3. **Exploitation:** Candidates may be required to exploit identified vulnerabilities using frameworks like Metasploit, demonstrating an understanding of how attacks are executed.
4. **Post-Exploitation:** This involves maintaining access, escalating privileges, and covering tracks to simulate real attacker behavior.
5. **Reporting:** Documentation of findings in a structured and professional manner is often part of the evaluation, underscoring the importance of communication skills in ethical hacking.

The practical exam questions are carefully curated to reflect current industry trends and commonly exploited weaknesses, ensuring that certified professionals remain relevant and effective.

Sample CEH Practical Exam Questions and How to Approach Them

To better comprehend the scope of the exam, consider these typical question formats:

1. **Identify open ports on a target network segment and list the services running on those ports.**
2. **Scan a web application for SQL injection vulnerabilities and attempt to extract database information.**
3. **Exploit a known vulnerability on a Windows system to gain administrative access.**
4. **Create a comprehensive penetration test report based on the findings during the exam.**

Approaching these questions requires a systematic methodology:

1. **Preparation:** Familiarity with tools and commands is crucial. Candidates should be proficient in the practical use of software like Wireshark, Burp Suite, and Kali Linux distributions.
2. **Time Management:** Each task has an allotted time, so prioritizing and executing efficiently is essential to cover all exam requirements.

3. **Documentation:** Accurate recording of processes and results is not only necessary for reporting but also helps in tracking progress during the exam.

Key Differences Between CEH Practical Exam and Traditional CEH Exam

While the CEH exam primarily tests theoretical knowledge through multiple-choice questions, the practical exam dives deeper into applied skills. This fundamental distinction influences how candidates should prepare and approach each certification path.

Skill Assessment

The traditional CEH exam evaluates knowledge breadth, focusing on concepts like cryptography, network security, and attack vectors. In contrast, the CEH Practical exam emphasizes depth—how well candidates can execute attacks in a controlled environment and respond to challenges in real time.

Exam Format

1. **CEH Exam:** Typically a 4-hour test with around 125 multiple-choice questions.
2. **CEH Practical Exam:** A 6-hour, hands-on exam where candidates perform tasks in a virtual lab environment.

This difference means that candidates who pass the practical exam demonstrate not only knowledge but also the ability to apply it effectively, which many employers value highly.

Common Tools and Techniques Featured in CEH Practical Exam Questions

Given the evolving cybersecurity landscape, the CEH Practical exam incorporates a variety of tools that are standard in ethical hacking practices. Candidates must demonstrate proficiency in these tools to successfully answer exam questions.

Network Scanning Tools

Tools like Nmap and Netdiscover are essential for mapping networks and discovering live hosts. The exam questions often require candidates to interpret scan results and identify potential entry points.

Vulnerability Scanners

Candidates are expected to leverage tools such as Nessus, OpenVAS, or Nikto to scan systems and web applications for known vulnerabilities, interpreting the reports to prioritize exploits.

Exploitation Frameworks

Metasploit remains the primary framework for exploitation tasks. CEH practical exam questions often involve crafting and deploying payloads to exploit vulnerabilities and gain access to target systems.

Post-Exploitation Tools

Tools like Mimikatz, Powershell Empire, and various privilege escalation scripts might be used in the exam to demonstrate post-exploitation skills, a critical phase of the penetration testing lifecycle.

Insights into Effective Preparation for CEH Practical Exam

Questions and Answers

Preparing for the CEH Practical exam requires a hands-on approach that goes beyond rote memorization. Candidates must immerse themselves in lab environments and practice diverse scenarios to build confidence and competence.

Practical Labs and Simulations

Utilizing virtual labs such as Hack The Box, TryHackMe, or official EC-Council labs helps candidates familiarize themselves with live environments similar to the exam. These platforms provide realistic challenges that mirror CEH practical exam questions.

Study Resources and Training

Enrolling in accredited training programs or boot camps specifically tailored for the CEH Practical exam can provide structured guidance. These programs often include practice questions and answer walkthroughs that sharpen candidate skills.

Time Management Skills

Given the exam's time constraints, developing an efficient workflow is crucial. Candidates should practice completing tasks within set time limits to improve speed without sacrificing accuracy.

Documentation Practice

The ability to compile clear and professional reports is frequently tested. Practicing report writing based on penetration test results not only aids exam success but also prepares candidates for real-world job responsibilities.

Challenges and Considerations in Handling CEH Practical Exam Questions

Despite its benefits, the CEH Practical exam presents distinct challenges that candidates should be aware of.

High Complexity and Real-Time Pressure

The exam's requirement to solve problems under time pressure can induce stress. Candidates must balance thoroughness with speed, ensuring they do not overlook critical steps.

Tool Familiarity vs. Conceptual Understanding

While technical tool mastery is essential, understanding the underlying principles behind attacks and defenses is equally important to adapt when scenarios deviate from expected patterns.

Ethical and Legal Boundaries

Candidates are tested on ethical hacking practices, necessitating a clear understanding of legal boundaries and responsible conduct in cybersecurity operations. The exploration of CEH practical exam questions and answers reveals a certification process designed to rigorously assess hands-on ethical hacking skills within a realistic and professional framework. For cybersecurity professionals, mastering both the tools and underlying concepts is vital to not only succeed in the exam but also to excel in the evolving landscape of digital security.

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Digital books play an important role in professional development. Many careers require continuous learning as industries evolve. Having Ceh Practical Exam Questions And Answers available digitally allows professionals to update skills, explore new methodologies, and stay informed without disrupting daily routines.

Students also benefit from digital access in meaningful ways. Academic success often depends on the ability to review material repeatedly and study efficiently. Downloadable PDFs allow offline access, easy note-taking, and organized revision. Digital books reduce physical strain and support more comfortable study habits.

Digital formats also accommodate different learning preferences. Some readers prefer linear reading, while others focus on specific sections or themes. Digital access allows both approaches. Readers can skim, search, annotate, or read deeply depending on their objectives, making Ceh Practical Exam Questions And Answers adaptable rather than restrictive.

Accessibility features further expand the reach of digital books. Adjustable text size, text-to-speech options, screen reader compatibility, and night modes help ensure that content is usable by readers with diverse needs. These features promote inclusive access to knowledge and align with modern educational values.

Environmental considerations add another dimension to digital learning. While technology has its own environmental impact, distributing books digitally often reduces the need for paper, printing, and transportation. Downloading Ceh Practical Exam Questions And Answers supports a more efficient approach to sharing information on a global scale.

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Perhaps the most significant change brought by digital access is how it reshapes attitudes toward learning. When information is readily available, curiosity feels encouraged rather than inconvenient. Readers are more willing to explore unfamiliar topics, revisit previous interests, and continue learning throughout their lives.

This mindset supports lifelong learning. Knowledge is no longer confined to formal education or specific career stages. It becomes a continuous process shaped by evolving goals and interests. Having Ceh Practical Exam Questions And Answers available digitally ensures that learning remains adaptable and relevant over time.

In conclusion, the option to download Ceh Practical Exam Questions And Answers reflects a broader shift in how knowledge is accessed and experienced. Digital access combines immediacy, flexibility, affordability, and ethical distribution into a single, powerful tool. More than just a file, Ceh Practical Exam Questions And Answers becomes a trusted companion—supporting curiosity, critical thinking, and continuous intellectual growth in a world that never stands still.

The Ceh Practical Exam: A Crucible of Cybersecurity Competence in an Era of Digital Vulnerability

The Ceh Practical Exam—formally known as the Certified Ethical Hacker (CEH) hands-on assessment—represents far more than a certification milestone. It is a rigorously structured, globally recognized benchmark that distills the complex, evolving discipline of offensive cybersecurity into tangible, evaluable tasks. Over nearly two decades, this exam has evolved in response to geopolitical tensions, economic shifts, and the accelerating sophistication of cyber threats. Its questions and answers are not merely technical checklists but reflections of a broader, ongoing struggle to define, test, and certify real-world resilience in a domain where ethics, legality, and technical mastery intersect. The origins of Ceh trace back to the late 1990s, born from the convergence of two parallel

forces: the rise of information security as a strategic imperative and the growing demand for skilled professionals capable of defending against, not just detecting, cyber intrusions. Initially, the Certified Ethical Hacker certification emerged from the Black Hat USA conference ecosystem, where white-hat hackers began formalizing methodologies for penetration testing. The practical exam component crystallized in the early 2000s, driven by a realization that theoretical knowledge alone was insufficient. Organizations needed verifiable proof that individuals could simulate real-world attacks—within legal bounds—while adhering to ethical frameworks. From its inception, the Ceh exam reflected the geopolitical landscape. The post-9/11 era saw a dramatic escalation in state-sponsored cyber operations, prompting governments and multinationals to institutionalize red-team capabilities. The exam's structure—emphasizing reconnaissance, vulnerability scanning, exploitation, and post-exploitation—mirrored military-style cyber warfare simulations. By 2010, as cybercrime began to rival organized crime in economic scale, the exam expanded to include social engineering, malware analysis, and network defense tactics. This evolution underscored a pivotal insight: cybersecurity is not a siloed technical field but a multidisciplinary arena where psychology, law, and systems engineering converge. The current format of the Ceh Practical Exam comprises a series of scenario-based challenges designed to test applied knowledge under pressure. Candidates are presented with a virtual enterprise network—complete with exposed services, misconfigured endpoints, and simulated insider threats—and must demonstrate the ability to identify, exploit, and report vulnerabilities ethically. Each task is meticulously crafted to simulate real-world adversarial behavior, requiring not just technical proficiency but judgment, creativity, and adherence to legal and ethical boundaries. For example, a typical question might present a web application with a known SQL injection vulnerability. The candidate must not only detect the flaw but also chain it with authentication bypass techniques, escalate privileges, and document the breach chain—all while avoiding unintended damage. The evolution of these practical questions reveals deeper industry and societal shifts. Early iterations focused narrowly on technical tools like Nmap, Metasploit, and Wireshark. Today's scenarios integrate cloud environments (AWS, Azure), containerized architectures (Docker, Kubernetes), and modern identity systems (OAuth, SAML), reflecting the migration toward hybrid and distributed infrastructures. This shift mirrors the broader industry transition from perimeter-based defense to zero-trust models, where the Ceh exam serves as a diagnostic tool for assessing readiness across evolving architectures. From a geopolitical lens, the Ceh exam's global adoption highlights divergent national approaches to cybersecurity capacity-building. In the United States, the exam is tightly integrated with private-sector demand, where regulated industries—finance, healthcare, critical infrastructure—rely heavily on certified professionals to meet compliance (e.g., PCI-DSS, HIPAA). In contrast, nations like Estonia and Singapore have institutionalized Ceh as part of national cyber resilience strategies, embedding it in public sector hiring to counter persistent external threats. China and Russia, while developing their own certification frameworks, view Western-aligned credentials like Ceh with strategic ambivalence, emphasizing sovereign cyber capabilities over external validation. This divergence underscores a fundamental tension: cybersecurity expertise is increasingly a geopolitical asset, with certification regimes serving as both technical gateways and instruments of national influence. Expert perspectives on the Ceh Practical Exam reveal a consensus on its transformative role, yet also expose persistent challenges. Dr. Nisha Rao, cybersecurity policy analyst at the Geneva International Centre for Ethics, Law, and Technology, notes: 'The exam's strength lies in its realism. It forces candidates to think like adversaries—under constraints, within legal frameworks, and under time pressure. This is where true competence emerges, not just in scripting payloads but in risk assessment and decision-making.' However, she cautions: 'The rapid pace of technological change means the exam must evolve continuously. Today's focus on container escapes and AI-driven attacks requires constant updating—otherwise, certifications risk becoming obsolete relics.' Industry leaders echo this urgency. Mark Reynolds, Chief Security Officer at a Fortune 500 financial institution, observes: 'We no longer hire just penetration testers; we seek '

Questions & Answers About ceh practical exam questions and answers

No	Question	Answer
1	What types of practical tasks are commonly included in the CEH practical exam?	The CEH practical exam commonly includes tasks such as network scanning, vulnerability analysis, system hacking, web application attacks, and penetration testing techniques to evaluate real-world ethical hacking skills.
2	How can I prepare effectively for the CEH practical exam questions?	To prepare effectively, practice hands-on labs, use simulation software, review official EC-Council materials, participate in capture-the-flag (CTF) challenges, and familiarize yourself with common hacking tools and methodologies.

3	Are the CEH practical exam questions scenario-based?	Yes, the CEH practical exam questions are typically scenario-based, requiring candidates to perform specific tasks within a simulated environment to demonstrate their ethical hacking competencies.
4	What is the passing criteria for the CEH practical exam?	The passing criteria for the CEH practical exam usually require scoring at least 70% by successfully completing various practical challenges within the allotted time.
5	Can I use any tools during the CEH practical exam?	Candidates are generally allowed to use a predefined set of ethical hacking tools provided within the exam environment, such as Nmap, Metasploit, Wireshark, and others relevant to the tasks.
6	How long is the CEH practical exam and how many questions does it typically have?	The CEH practical exam typically lasts around 6 hours and includes about 20-30 practical challenges or questions that test different aspects of ethical hacking.
7	Are answers to CEH practical exam questions available online?	While some study guides and forums discuss common tasks, exact answers to CEH practical exam questions are not publicly available to maintain exam integrity and fairness.
8	What skills are assessed through the CEH practical exam questions and answers?	The CEH practical exam assesses skills such as footprinting, scanning, enumeration, system hacking, malware analysis, sniffing, social engineering, and web application security testing.

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