

I'm not a bot



























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The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. You cant perform that action at this time. Computer security qualification This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed. Find sources: "Certified ethical hacker" news newspapers books scholar JSTOR (January 2016) (Learn how and when to remove this message)Certified Ethical Hacker (CEH)Issuing Organization EC-CouncilValidity duration3 yearsSubjectFocusEthical hackingRequirements2 years of experienceTypeMultiple choiceDuration4 hoursCertified Ethical Hacker (CEH) is a qualification given by EC-Council and obtained by demonstrating knowledge of assessing the security complex systems by looking for vulnerabilities in target systems, using the same knowledge and tools as a malicious hacker, but in a lawful and legitimate manner to assess the security posture of a target system. This knowledge is assessed by answering multiple choice questions regarding various ethical hacking techniques and tools. The code for the CEH exam is 31250.[1]This certification has now been made a baseline with a progression to the CEH (Practical), launched in March 2018, a test of penetration testing skills in a lab environment where the candidate must demonstrate the ability to apply techniques and use penetration testing tools to compromise various simulated systems within a virtual environment.Ethical hackers are employed by organizations to penetrate networks and computer systems with the purpose of finding and fixing security vulnerabilities. The EC-Council offers another certification, known as Certified Network Defense Architect (CNDA). This certification is designed for United States Government agencies and is available only to members of selected agencies including some private government contractors, primarily in compliance to DOD Directive 8507.01-M.[2] It is also ANSI accredited and is recognized as a GCHQ Certified Training (GCT).Certification is achieved by taking the CEH examination after having either attended training at an Accredited Training Center (ATC),[3] or completed through EC-Council's learning portal, iClass. If a candidate opts to self-study, an application must be filled out and proof submitted of two years of relevant information security work experience. Those without the required two years of information security related work experience can request consideration of educational background.[4] The current version of the CEH is v12, released in September 2022.[5] The exam, which uses the same EC-Council exam code (312-50) as the earlier versions, has 125 multiple-choice questions and a 4-hour time limit.[6][7]The EC-Council and various ATCs administer the CEH examination.[8]Members holding the CEH/CNDA designation (as well as other EC-Council certifications) must seek re-certification under this program every three years, for a minimum of 120 credits.[9]The CEH focuses on the latest malware attacks, the latest hacking tools, and the new emerging attack vectors in cyberspace. It includes hacking challenges at the end of every module and is built 100% in compliance to the NICE 2.0[10] Framework to ensure a systematic job role mapping. ^ The All-New CEHv12" (PDF). EC-Council. 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With the steady rise of cybercrime and ransomware attacks such as the recent Kaseya example, companies must upgrade their hack-preventing tactics by adopting innovative technologies to protect their systems instead of falling victim to hackers.What is Ethical Hacking? Ethical hacking is an authorized attempt to gain unsolicited access to a computer system, data, or application in order to identify security vulnerabilities before malicious attackers can exploit them. Ethical hackers, also known as white hats, are security experts who perform these assessments to help improve a companys security posture. They often work with the approval of the organization before accessing and performing any security assessment. Additionally, an ethical hacker defines the scope of the assessment to ensure that work remains legal and within the clients approved boundaries. Afterward, they notify the organization of any vulnerability discovered during the assessment and provide remediation advice for mitigating these vulnerabilities. Depending on the data sensitivity, an ethical hacker may have to sign a non-disclosure agreement and any other terms and conditions set by the assessed organization.How to Perform Ethical HackingEthical hacking is performed in six basic steps. They include:1. ReconnaissanceReconnaissance is the principal step where the hacker gathers data about the objective. It involves identifying the target, figuring out the objectives IP address range, network, DNS records, and other relevant information.2. ScanningThe scanning stage is where the ethical hacker begins to effectively test the objective machine or organization for vulnerabilities that can be exploited. Scanning incorporates the utilization of tools such as network mappers, dialers, port scanners, sweepers, and weakness scanners to gather information.3. Gaining AccessAt this stage, the ethical hacker utilizes the information gathered from the checking and scanning stages to outline the organizations security structure. Its where the hacker concludes that there are alternatives to accessing the organizations system.4. Maintaining AccessThis is the stage where the ethical hacker has gained access to your framework and now introduces other secondary passages to gain access to the framework in the future. Most ethical hackers use Metasploit in this cycle.5. Clearing TracksClearing tracks is basically an unethical activity that involves erasing logs of the multitude of exercises that happened during the hacking interaction. ReportingThe final step of concluding the ethical hacking process is aggregating a report with discoveries made during the hacking interaction. It includes details about the instruments utilized, weaknesses uncovered, the achievement rate, and the mitigation measures.Benefits of Ethical HackingCybercrime is skyrocketing amid rising international conflicts. Multiple terrorist organizations fund black hat hackers to promote their illicit grudges with financial motivations or with the aim to compromise national security. The need for ethical hacking has therefore become a necessity. Its a great way to equip your organization with foolproof defense against evolving threat actors. Primarily, ethical hacking enables you to identify potential cyber attack surfaces before your adversaries do, protecting sensitive data from being misused or stolen. Benefits of ethical hacking include:1. Identifying VulnerabilitiesEthical hackers perform vulnerability scanning to pinpoint security gaps in an IT infrastructure that malicious hackers could exploit in the real world. They may also use fuzzing to intentionally interfere with your program and its input to crash it, which ultimately reveals any security issues.2. Preventing Unauthorized Data AccessData security threats and vulnerabilities might extend beyond the firewall guarding your IT infrastructure. To establish an effective data security regime, you may need to challenge your own security construct through critical assessment and testing. Ethical hacking can imitate a criminal hackers techniques to help identify and fix the issue. 3. Implementing a Secure NetworkThrough ethical hacking, you can improve your network infrastructure by analyzing and prodding the right architecture to detect vulnerabilities. It helps your organization to build a stronger technical infrastructure by configuring firewalls, protecting network ports, and identifying and implementing the latest network security policies.4. Preventing a Cyber AttackA successful cyber attack can make your business lose colossal amounts of money, not to mention dented reputation. You may also incur hefty fines due to failure to adhere to safety compliance standards such as GDPR, HIPAA, PCI DSS, etc. Ethical hacking prevents cyber attacks by informing you about evolving threat vectors and techniques and enabling security professionals to safeguard your IT infrastructure better.5. Types of Hackers?Ethical hacking isnt the only kind of hacking, of course, there are other types of hackers with different intentions. Depending on the intent of hacking a computer system, hackers can be classified into different categories, including white hat, black hat, and grey hat.Here are the most common types of hackers:White Hat HackersAlso referred to as Ethical Hackers, white hat hackers never intend to harm a system but instead try to find weaknesses in a computing system or a network infrastructure. White hat hackers typically perform penetration testing and vulnerability analysis.Black Hat HackersBlack hat hackers (or crackers) usually hack in order to gain unauthorized access to a computer system and sabotage its operations or steal critical information. Black Hat hacking typically has a bad intent, such as stealing corporate data, damaging the system, violating privacy, blocking network communication, and more.Grey Hat HackersThis type of hacking is a blend of both white hat and black hat hacking techniques. They act for fun and without malicious intent to exploit a security weakness in a system or network without the clients permission or knowledge. The intent of a grey hat hacker is to bring the weakness to the business owners attention and get appreciation or a bounty from the owner.Now that weve answered what is ethical hacking? youve probably realized the importance of cybersecurity, something Electric takes seriously. As the world continues to navigate the complexities of the hybrid workforce, Electric is here to support your organization. While were not ethical hackers, Electric can work closely to help you push security policies and configurations that adhere to industry best practices across your entire company. Explore the platform Having everything in one place is essential. In the past, I've worked with MSPs that required different logins for every piece of software they didnt offer the visibility and control that we have with Electric. The Electric IT Hub brings together everything we need in one location. From MDM to malware prevention, its all integrated and easily managed by E Chief Technology Officer | Fame Techno Protect your business from cyber attacksAutomatic remediation of common security issuesUnified visibility of security posturePersonalized security planAccess to best-in-class security solutions such as mobile device management, email security, data protection, password management, and more.Start now Gain visibility and control over your IT environmentAutomated application managementStreamlined device managementCentralized device procurementLearn more Integrate your IT with the rest of your organizationIntegration with your HR systemSmooth employee on and offboardingIncreased team productivitySee how Affordable IT and security built for SMBs budgetPay per user and adjust as your business evolvesCustomized solution based on your business needExplore more Not sure how Electric compares to traditional MSPs? IT solutions matched to your evolving needs Electric partners with industry-leading technology providers to help you manage and secure your business. Mobile device managementAnti virus/password managementMulti-factor authenticationEmail securityNetwork securityData backup and recovery/Security educationHR systemsLearn more So, youre thinking about jumping into the world of ethical hacking, huh? Awesome choice! In todays fast-paced, tech-crazy world, CEH v13 (Certified Ethical Hacker) is the ultimate way to start your cybersecurity career. But lets break it down firstwhat exactly is CEH v13? Why does it matter, and most importantly, how can YOU get it? Overview:The Certified Ethical Hacker (CEH v13) remains the gold standard for penetration testing certifications. Updated for 2025, it includesnew moduleson AI-driven cyberattacks, cloud security (AWS/Azure), and IoT vulnerabilities.125 multiple-choice questions | 4-hour duration | \$1,199 (discounts forEC-Council partners). New Domains:AI & Machine Learning in Cybersecurity Zero Trust Architecture MITRE ATT&CK Framework Integration 1. Official CEH v13 Study Materials Free Downloads From Telegram:CEH Handbook 2025(Downloadhere) EC-Councils CEH Practical 2025 Notes Download Link 2. Free Practice Labs & Tools TryHackMe CEH Path (Free Tier): Hands-on labs for network scanning and malware analysis. Hack The Box(OpenVPN Setup): Practice real-world scenarios. 3. YouTube Channels for 2025 Updates Cyber Mentors CEH Playlists(Watch Here): CEH Official Channel: Exam walkthroughs, 4. Free CEH Practice Tests PDF File Download These resources? Theyre gold, and theyll help you save 1000\$ while learning the core skills needed to pass the CEH v13 exam. Getting CEH v13 certified isnt that difficult you think, but it does take a solid plan. Heres how you can get your CEH v13: Phase 1 (Weeks 1-4):Master core domainsFootprinting, Scanning, Cryptography Phase 2 (Weeks 5-8):Focus on 2025 updates AI threats Cloud PenTesting Phase 3 (Weeks 9-12):Practice withHack The Box Mock exams. Tips to Pass CEH v13 in 2025 Join Reddit Communities:r/CEH and r/cybersecurity (ask for 2025 exam experiences). Use Anki Flashcardsfor memorizing Nmap/Payload commands. Time Management:Allocate 60 seconds per question during the exam. In my research I find cybersecurity job market in 2025 is gonna be HOT. Heres how you can boost your chances of finding that dream job once youve CEH v13 certified: Build Your Portfolio: Show off your skills by creating a portfolio or a GitHub repository of your ethical hacking projects. Employers love seeing your hands-on experience. Stack Certifications: Combine CEH v13 with other certs like CompTIA Security+ or CISM for more job options. Networking: Join cybersecurity forums, attend webinars, and engage on platforms like LinkedIn. Connections matter. Resume Optimization: Tailor your resume to emphasize the CEH v13 skills youve gained, like penetration testing, network security, and incident response. Make sure those keywords stand out! If you follow these tips, youre already ahead of the pack. Whats so special about CEH v13? Its all about the skills youll learn. Heres just a few: Footprinting & Reconnaissance: How to gather info about a target network. Scanning Networks: Finding vulnerabilities, like a pro. System Hacking: Legally, of course! Learning to exploit weaknesses. Trojan & Malware Analysis: Understand how malware works and how to stop it. Social Engineering: Learn how hackers manipulate humanscarry stuff, right? These arent just skillstheyre superpowers in the world of cybersecurity. What does the future look like for you, a soon-to-be CEH-certified professional? Heres a roadmap for success: Stay Updated: Cybersecurity evolves FAST. Subscribe to newsletters, read blogs, and keep up with cybersecurity trends. Specialize: Think about specializing in cloud security, or incident response, or incident response, or incident response. Keep practicing: The more real-world problems you solve, the better. Soft Skills: Dont forget to hone your communication and problem-solving skills. Theyre just as important as technical knowledge. CEH v13 is more than just a certits your ticket to the future of cybersecurity. With the right prep, free resources, and dedication, youll be able to pass the exam and land some of the most in-demand jobs in 2025. .the free encyclopedia that anyone can edit.117,185 active editors 7,001,773 articles in EnglishThe English-language Wikipedia thanks its contributors for creating more than seven million articles! Learn how you can take part in the encyclopedia's continued improvement.Members of the victorious Blondie crew The Boat Race 2018 took place on 24March. Held annually, The Boat Race is a side-by-side rowing race between crews from the universities of Oxford and Cambridge along a 4.2-mile (6.8km) tidal stretch of the River Thames in south-west London, England. For the third time in the history of the event, the men's, the women's and both reserves' races were all held on the Tideway on the same day. The women's race saw Cambridge lead from the start, eventually winning by a considerable margin to take the overall record to 4330 in their favour. In the women's reserve race, Cambridge's Blondie (crew pictured) defeated Oxford's Osiris by nine lengths. The men's reserve race was won by Cambridge's Goldie, who defeated Oxford's Isis by a margin of four lengths. The men's race was the final event of the day and completed a whitewash as Cambridge won, taking the overall record to 8380 in their favour. The races were watched by around 250,000 spectators live, and broadcast around the world. (Fullarticle...)Recently featured: Radar, Gun Laying, Mk.I and Mk.IIAndrea NavageroNosy KombaaArchiveBy emailMore featured articlesAboutKitty Marion... that Kitty Marion (pictured) was force-fed over 200 times during a hunger strike?... that the North Korean destroyer Cheo Hyon is the largest ship constructed for the Korean People's Navy?... that after the release of High and Low, director Akira Kurosawa received telephone calls imitating his film that threatened to kidnap his daughter?... that May Bradford Shockley is why Silicon Valley is where it is?... that the conservation of a goat might endanger the survival of Aquilegia paui?... that Joy Laking predicted in a school writing assignment that within ten years she would be making a living as an artist?... that the Taiwanese restaurant chain Formosa Chang drew inspiration from McDonald's for its non-greasy atmosphere and corporate practices?... that Haridas Mitra had his death sentence commuted after the intervention of Mahatma Gandhi?... that "Steve's Lava Chicken" recently became the shortest song to enter the UK Top 40?ArchiveStart a new articleNominate an articleNcWang Thiong'oKenyan writer and activist Ngũ wa Thiong'o (pictured) dies at the age of 87.In sumo, nosato Daiki is promoted to yokozuna.In association football, Liverpool won the Premier League title.In motor racing, Iqbal Palou wins the Indianapolis 500.In basketball, the EuroLeague concludes with Fenerbahçe winning the Final Four Playoff.Ongoing: Gaza warM23 campaignRussian invasion of UkraineTimelineSudanese civil warTimelineRecent deaths: Harrison RufflerPhil RobertsonMary K. GaillardPeter DavidAlan YentobGerry ConnollyNominate an articleMay 31: Dragon Boat Festival in China and Taiwan (2025); World No Tobacco DayBessarion455 Petronius Maximus, the ruler of the Western Roman Empire, was stoned to death by a mob as he fled Rome ahead of the arrival of a Vandal force that sacked the city.1223 Mongol invasion of Kievian Rus': Mongol forces defeated a Kievian Rus' army at the Battle of the Kalka River in present-day Ukraine.1468 Cardinal Bessarion (pictured) announced his donation of 746 Greek and Latin codices to the Republic of Venice, forming the Biblioteca Marciana.1935 A magnitude-7.7 earthquake struck Balochistan in British India, now part of Pakistan, killing between 30,000 and 60,000 people.2013 A tornado struck Central Oklahoma, killing eight people and injuring more than 150 others.Albertino Mussato (d.1837)Dina Boluarte (b.1962)Mbaye Diagne (d.1994)More anniversaries: May 30May 31June 1Archivedby emailList of days of the yearAboutCucumis metuliferus, the African horned cucumber, is an annual vine in the cucumber and melon family, Cucurbitaceae. Its fruit has horn-like spines, hence the name "horned melon". The ripe fruit has orange skin and lime-green, jelly-like flesh. It is native to Southern Africa, where it is a traditional food. Along with the gembok cucumber and the citron melon, it is one of the few cucurbits of water during the dry season in the Kalahari Desert. This photograph, which was focus-stacked from 25 separate images, shows two C. metuliferus fruits, one whole and the other in cross-section. Photograph credit: Ivar LeidusRecently featured: Ignace TönenAustralia white ibisHell Gate BridgeArchiveMore featured picturesCommunity portal The central hub for editors, with resources, links, tasks, and announcements.Village pump Forum for discussions about Wikipedia itself, including policies and technical issues.Site news Sources of news about Wikipedia and the broader Wikimedia movement.Teahouse Ask basic questions about using or editing Wikipedia.Help desk Ask questions about using or editing Wikipedia.Reference desk Ask research questions about encyclopedia topics.Content portals A unique way to navigate the encyclopedia.Wikipedia is written by volunteer editors and hosted by the Wikimedia Foundation, a non-profit organization that also hosts a range of other volunteer projects: CommonsFree media repository MediaWikiWiki software development Meta-WikiWikimedia project coordination WikibooksFree textbooks and manuals WikidataFree knowledge base WikinewsFree-content news WikiquoteCollection of quotations WikisourceFree-content library WikispeciesDirectory of species WikiversityFree learning tools WikivoyageFree travel guide WiktionaryDictionary and thesaurusThis Wikipedia is written in English. 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Find sources: "455" news newspapers books scholar JSTOR (April 2019) (Learn how and when to remove this message)CalendarYear'sMillenniumStille MillenniumCenturies4th century5th century6th century7th century8th century9th century10th century11th century12th century13th century14th century15th century16th century17th century18th century19th century20th century21st century22nd century23rd century24th century25th century26th century27th century28th century29th century30th century31st century32nd century33rd century34th century35th century36th century37th century38th century39th century40th century41st century42nd century43rd century44th century45th century46th century47th century48th century49th century50th century51st century52nd century53rd century54th century55th century56th century57th century58th century59th century60th century61st century62nd century63rd century64th century65th century66th century67th century68th century69th century70th century71st century72nd century73rd century74th 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