Ethical Hacking

Hacking Your Company: Ethical Solutions to Defeat Cyber Attacks
An IEEE eLearning Library Course Program

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NEW! Hacking Your Company: Ethical Solutions to Defeat Cyber Attacks Program

Designed to assist businesses understand the weak points in their cyber security, Hacking Your Company: Ethical Solutions to Defeat Cyber Attacks is ideal for technical professionals across all industries who support their company's IT departments and require up-to-date information on this threat.

These courses are intended for mid to advanced career professionals in IT, and computer science and related fields, including C-suite executives who require working knowledge of ethical hacking to support department functions.

Topics covered include:

- Scanning
- Enumeration
- System Hacking
- Malware Fundamentals
- Denial of Service Attacks
- Session Hijacking
- SQL Injections
- Evasion Techniques

Instructor
Sean Oriyano

Instructor Sean Oriyano is a seasoned IT security professional and entrepreneur. Over the past 25 years, he has split his time between writing, researching, consulting, and training various people and organizations on a wide range of topics relating to both IT and security. He is also a member of the U.S. military as a Chief Warrant Officer specializing in infrastructure and security. Sean holds a number of certifications through FEMA, SGAUS, and COMPTIA.

Ethical Hacking Program Quick Facts

Develop the skills and knowledge needed to succeed:

Eight courses specifically chosen to cover all aspects of Ethical Hacking and help users gain the knowledge they need in the industry.

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Printable individual CEU or PDH certificates upon the successful completion of a course

Professionally developed multimedia courses

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Ethical Hacking Program Course Listing:

Scanning
Scanning is a technique that allows for a deep dive into a system to seek out valuable data and services in an IP address range. This course discusses how to locate ports and services, and how to find weak spots to enter a system.

Enumeration
Enumeration is the process of identifying resources on a network, and extracting information from a system. This course reviews the concept of enumeration.

System Hacking
System hacking is the method that hackers use to gain access to computers on a network. This course will cover the process of gaining access to a targeted system including password cracking, privilege escalation, and malware detection.

Malware Fundamentals
This course takes an in-depth look at the nature of malware and its many different forms. Topics covered include viruses, Trojans, rootkits, buffer overflows, and other related forms of malware.

Denial of Service Attacks
This course identifies various motivations, attack patterns, and defenses to help protect against the risk of DoS. This course explores the motivations and patterns, and the many forms they can take against a target, including network level and application layer attacks.

Session Hijacking
Session hijacking can be characterized as one of the most sophisticated forms of attack. This course covers how to target and take over an existing communication or session between two systems.

SQL Injections
SQL injections are a powerful, but complex attack that can be used to strike out at web applications and their databases. This course explores how an SQL attack could alter, steal, or remove data without necessarily "hacking" a target.

Evasion Techniques
Evasion in a network is the process of bypassing a security check in order to attack or exploit the network. This course discusses techniques used by hackers to evade detection by the target of an attack to help you recognize and react to evasions.

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All courses are peer-reviewed by content experts, a process that guarantees both the quality of the technical content as well as adherence to strict IEEE criteria for educational excellence. As a CEU provider, IEEE can offer CEUs for any IEEE learning activity running at least one hour in duration. IEEE CEUs can also be converted into the PDHs needed to meet recertification requirements for professional certifications or licenses.

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