Certified Ethical Hacker, Part 8 of 8: Cloud and Cryptography

Meet the expert: Rafiq Wayani has extensive experience including more than 20 years in IT as Systems Architect, Software Engineer, DBA, and Project Manager. Wayani has instructed in a variety of technical areas, has designed and implemented network and information systems, and is certified across a wide range of platforms and systems including Microsoft Solutions Developer, Systems Engineer, Application Developer, Database Administrator, Trainer; Novell Netware Administrator and Engineer; Master Certified Netware Engineer; and A Certified.

Prerequisites: To get the most out of this course, this course assumes that you have a good working knowledge of Linux and Windows based networking environments. It also assumes that you have experience with managing a network, have worked with networking hardware such as switches & routers, are familiar with MS Active Directory (AD) Domain based authentication, know how to work with command-line utilities, and understand the basics of Web Server environments.
Many of the demonstrations in this course use the Windows 7 and Kali Linux operating systems which can be downloaded free from the respective sites. All of the demonstrations are created in a virtual environment using Oracle VirtualBox and VMware vSphere 6.

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Course description: Enterprises have increasingly become enamored with the ease of use and scalability afforded by cloud computing. Unfortunately, external and internal clouds now represent the ultimate prize for hackers. Rafiq Wayani will address the unique challenges cloud computing represents for cybersecurity professionals and discuss best practices regarding cryptography and encryption. This course is part of a series covering EC-Council's Certified Ethical Hacker (CEH).

Course outline:

Intro to Cloud Computing
- Introduction
- Intro to Cloud Computing
- Cloud Computing Diagram
- Intro to Cloud Computing
- Pizza as a Service
- Intro to Cloud Computing
- Summary

Cloud Computing Threats
- Introduction
- Cloud Computing Threats
- Cloud Computing Threats Cont.
- Summary

Cloud Computing Attacks
- Introduction
- Cloud Computing Attacks
- Cloud Computing Attacks Cont.
- Summary

Cloud Security
- Introduction
- Cloud Security
- Cloud Security Cont.
- Summary

Cloud Security Tools
- Introduction
- Demo: Cloud Security
- Demo: Cloud Security Tools
- Summary

Cloud Penetration Testing
- Introduction
- Cloud Penetration Testing
- Cloud Pen Testing Cont.
- Summary

2014: The Year of Encryption
- Introduction
- 2014: The Year of Encryption
- The Year of Encryption Cont.
- Summary

Case Study: Heartbleed
- Introduction
- Demo: The Heartbleed Bug
- Demo: The Heartbleed Bug Cont.
- Summary

Case Study: POODLEbleed
- Introduction
- Demo: POODLEbleed
- Demo: POODLEbleed Cont.
- Summary

Cryptography Concepts
- Introduction
- Cryptography Concepts
- Cryptography Concepts Cont.
- Summary

Encryption Algorithms
- Introduction
- Encryption Algorithms
- Encryption Algoritms Cont.
- Summary

Security Tools
- Introduction
- Security Tools
- True Crypt
- Tor
- Summary

Public Key Infrastructure
- Introduction
- Public Key Infrastructure
- PKI Cont.
- Summary

Email Encryption
- Introduction
- Demo: Email Encryption
- Demo: Email Encryption Cont.
- Summary

Disk Encryption
- Introduction
- Disk Encryption
- Disk Encryption Cont.
- Summary

Cryptography Attacks
- Introduction
- Cryptography Attacks
- Cryptography Attacks Cont.
- Summary

Cryptography Tools
- Introduction
- Demo: CrypTool
- Demo: Cipher Tools
- Demo: Matasano Challenges
- Summary