

CCNA Security

Lab - Researching Network Attacks and Security Audit Tools (Instructor Version)

Instructor Note: Red font color or Gray highlights indicate text that appears in the instructor copy only.

Objectives

Part 1: Researching Network Attacks

- Research network attacks that have occurred.
- Select a network attack and develop a report for presentation to the class.

Part 2: Researching Security Audit Tools

- Research network security audit tools.
- Select a tool and develop a report for presentation to the class.

Background / Scenario

Attackers have developed many tools over the years to attack and compromise networks. These attacks take many forms, but in most cases, they seek to obtain sensitive information, destroy resources, or deny legitimate users access to resources. When network resources are inaccessible, worker productivity can suffer, and business income may be lost.

To understand how to defend a network against attacks, an administrator must identify network vulnerabilities. Specialized security audit software, developed by equipment and software manufacturers, can be used to help identify potential weaknesses. Additionally, the same tools used by individuals to attack networks can also be used by network professionals to test the ability of a network to mitigate an attack. After the vulnerabilities are known, steps can be taken to help protect the network.

This lab provides a structured research project that is divided into two parts: Researching Network Attacks and Researching Security Audit Tools. You can elect to perform Part 1, Part 2, or both. Let your instructor know what you plan to do. This will ensure that a variety of network attacks and vulnerability tools are reported on by the members of the class.

In Part 1, research various network attacks that have actually occurred. Select one of these attacks and describe how the attack was perpetrated and how extensive the network outage or damage was. Next, investigate how the attack could have been mitigated or what mitigation techniques might have been implemented to prevent future attacks. Finally, prepare a report based on the predefined form included within this lab.

In Part 2, research network security audit tools and investigate one that can be used to identify host or network device vulnerabilities. Create a one-page summary of the tool based on a predefined form included within this lab. Prepare a short (5–10 minute) presentation to present to the class.

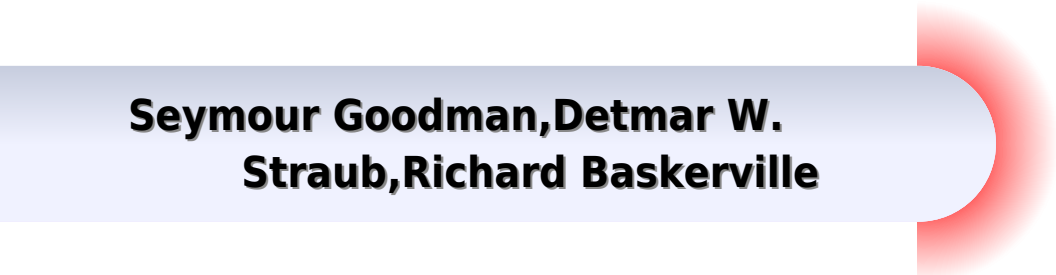
You may work in teams of two, with one person reporting on the network attack and the other reporting on the security audit tools. All team members deliver a short overview of their findings. You can use live demonstrations or PowerPoint to summarize your findings.

Required Resources

- Computer with Internet access for research
- Presentation computer with PowerPoint or other presentation software installed
- Video projector and screen for demonstrations and presentations

Security Instructor Lab Manual

**Seymour Goodman, Detmar W.
Straub, Richard Baskerville**



Security Instructor Lab Manual:

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Table of Contents Security Instructor Lab Manual

1. Understanding the eBook Security Instructor Lab Manual
 - The Rise of Digital Reading Security Instructor Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Security Instructor Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Security Instructor Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Security Instructor Lab Manual
 - Personalized Recommendations

- Security Instructor Lab Manual User Reviews and Ratings
- Security Instructor Lab Manual and Bestseller Lists
- 5. Accessing Security Instructor Lab Manual Free and Paid eBooks
 - Security Instructor Lab Manual Public Domain eBooks
 - Security Instructor Lab Manual eBook Subscription Services
 - Security Instructor Lab Manual Budget-Friendly Options
- 6. Navigating Security Instructor Lab Manual eBook Formats
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- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Security Instructor Lab Manual
 - Highlighting and Note-Taking Security Instructor Lab Manual
 - Interactive Elements Security Instructor Lab Manual
- 8. Staying Engaged with Security Instructor Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Security Instructor Lab Manual
- 9. Balancing eBooks and Physical Books Security Instructor Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Security Instructor Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Security Instructor Lab Manual
 - Setting Reading Goals Security Instructor Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Security Instructor Lab Manual
 - Fact-Checking eBook Content of Security Instructor Lab Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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