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Metasploitable You can download the Metasploitable virtual machine at sourceforge.net/projects/metasploitable/. John Wiley & Sons, Inc. He earned both his B.S. and Ph.D. degrees from Notre Dame in computer science and engineering. To renew your certification, you can either pass the most current version of the exam, earn a qualifying higher-level CompTIA or industry certification, or complete sufficient continuing education activities to earn enough continuing education units (CEUs) to renew it. We would also like to thank the many behind-the-scenes contributors, including the graphics, production, and technical teams who make the book and companion materials into a finished product. —David Seidl Acknowledgments Books like this involve work from many people, and as authors, we truly appreciate the hard work and dedication that the team at Wiley shows. David Seidl is Vice President for Information Technology and CIO at Miami University. FIGURE 13.13 Email extraction FIGURE 13.14 Web search history FIGURE 13.15 Cloud setup log with timestamp FIGURE 13.16 Cleaner remnant data via the Index Search function FIGURE 13.17 Resignation letter found based on content type FIGURE 13.18 Same forensic finding from Steve Friedberg's Facebook comment. Security logs can be an invaluable resource for security analysts, allowing detection of misuse and compromise, but they can also bury important information in mountains of operational data. He has worked as a computer technology and networking instructor, information security director, network administrator, network engineer, and PC specialist. This means you have to do a little more work. Next, you will explore host issues, ranging from user resource consumption issues to malware defense and unauthorized changes. The advice and strategies contained herein may not be suitable for every situation. Taking the Exam Once you are fully prepared to take the exam, you can visit the CompTIA website to purchase your exam voucher: www.comptiastore.com/Articles.asp?ID=265&category=vouchers CompTIA partners with Pearson VUE's testing centers, so your next step will be to locate a testing center near you. Chapter 9.3 Security Operations and Monitoring 3.1 Given a scenario, analyze data as part of security Chapters 3, 10 monitoring activities. FIGURE 6.2 Slate is a CRM tool designed specifically for higher education ad... Chapter 3: Reconnaissance and Intelligence Gathering Gathering information about an organization and its systems is one of the things that both attackers and defenders do. You may want to have Internet connectivity for some exercises, or to update software packages. Thanks also to Runzhi "Tom" Song, Mike's research assistant at Notre Dame who helped fact-check our work. He also served as Notre Dame's Director of Information Security and led Notre Dame's information security program. Chapter 5: Analyzing Vulnerability Scans Vulnerability reports can contain huge amounts of data about potential problems with systems. You will also learn how to leverage industry best practices by using guidelines and benchmarks from industry experts. Chapter 10: Security Operations and Monitoring Monitoring systems, devices, and events throughout an organization can be a monumental task. This work is sold with the understanding that the publisher is not engaged in rendering legal, accounting, or other professional services. This section provides a brief "how to" guide to set up a Kali Linux, a Linux distribution built as a broad security toolkit and Metasploitable, an intentionally vulnerable Linux virtual machine. These five areas include a range of topics, from reconnaissance to incident response and forensics, while focusing heavily on scenario-based learning. Study Guide Elements This study guide uses a number of common elements to help you prepare. You can download VirtualBox at www.virtualbox.org/wiki/VirtualBox. In this chapter, you will learn how to read and analyze a vulnerability scan report, what CVSS scoring is and what it means, as well as how to choose the appropriate actions to remediate the issues you have found. Table 1.1 shows the critical types of network connections you are likely to want to use with this environment. The fact that an organization or Web site is referred to in this work as a citation and/or a potential source of further information does not mean that the author or the publisher endorses the information the organization or Web site may provide or recommendations it may make. He has taught information security and networking undergraduate courses as an instructor for Notre Dame's Mendoza College of Business, and he has written books on security certification and cyberwarfare, including co-authoring CISSP (ISC)2 Official Practice Tests (Sybex, 2018) as well as the previous editions of both this book and the companion CompTIA CySA+ Practice Tests: Exam CS0-001. FIGURE 1.9 NIST divides penetration testing into four phases. See Figure 1.2. 3. It covers five major domains: Threat and Vulnerability Management, Software and Systems Security, Security Operations and Monitoring, Incident Response, and Compliance and Assessment. containerization FIGURE 13.7 Order of volatility of common storage locations FIGURE 13.8 Id of a volume FIGURE 13.9 FTK image hashing and bad sector checking FIGURE 13.10 USB Historian drive image FIGURE 13.11 Initial case information and tracking FIGURE 13.12 Case information and tracking partly through the indexing process... You will learn about the many threats to identity and identity systems as well as how to use identity as a defensive layer. The InfoSec Institute provides online CTF activities with bounties for written explanations of successful hacks at ctf.infosecinstitute.com. Navigate to the directory where you downloaded the Kali VM and import the virtual machine. Chapter 14 FIGURE 14.1 Incident response process FIGURE 14.2 Proactive network segmentation FIGURE 14.3 Network segmentation for incident response FIGURE 14.4 Network isolation for incident response FIGURE 14.5 Network removal for incident response FIGURE 14.6 Patching priorities FIGURE 14.7 Sanitization and disposition decision flow Chapter 15 FIGURE 15.1 Risk exists at the intersection of a threat and a corresponding All other trademarks are the property of their respective owners. Additional Study Tools This book comes with a number of additional study tools to help you prepare for the exam. There are many excellent security-oriented distributions and tools beyond those in this example, and you may want to explore tools like Security Onion, the SANS SIFT forensic distribution, and CAINE as you gain experience. Glossary of Terms Sybex provides a full glossary of terms in PDF format, allowing quick searches and easy reference to materials in this book. Exam Note These special notes call out issues that are found on the exam and relate directly to CySA+ exam objectives. Hacking-Lab provides capture the flag (CTF) exercises in a variety of fields at www.hacking-lab.com/index.htm. We would especially like to thank senior acquisitions editor Kenyon Brown. 5.2 Given a scenario, apply security concepts in support of Chapter 15 organizational risk mitigation. As you might expect, it is impossible to replicate that experience in a book, so the questions here are intended to help you be confident that you know the topic well enough to think through hands-on exercises. Objectives Map Objective Chapter(s) 1.0 Threat and Vulnerability Management 1.1 Explain the importance of threat data and intelligence. Chapter 13: Performing Forensic Analysis and Techniques Understanding what occurred on a system, device, or network, either as part of an incident or for other purposes, frequently involves forensic analysis. FIGURE 1.1 VirtualBox main screen FIGURE 1.2 Adding the Metasploitable VM 4. If this book refers to media such as a CD or DVD that is not included in the version you purchased, you may download this material at: FIGURE 15.2 Qualitative risk assessments use subjective rating scales to evaluate... Along the way, you will explore common types of vulnerabilities and their impact on systems and networks. In this chapter, you'll learn about how cloud computing impacts businesses and how you can perform threat management in the cloud. First, install the VirtualBox application. The CySA+ exam is conducted in a format that CompTIA calls "performance-based assessment." This means that the exam uses hands-on simulations using actual security tools and scenarios to perform tasks that match those found in the daily work of a security practitioner. Chapter 13 5.0 Compliance and Assessment 5.1 Understand the importance of data privacy and Chapters 1, 15 protection. Running virtual machines can require a reasonably capable PC. Mike is technical editor for Information Security Magazine and has written more than 25 books. FIGURE 12.2 NetFlow data example FIGURE 12.3 Passive monitoring between two systems FIGURE 12.4 PRTG network overview FIGURE 12.5 Beaconsing in Wireshark FIGURE 12.6 Unexpected network traffic shown in flows FIGURE 12.7 nmap scan of a potential rogue system FIGURE 12.8 The Windows Resource Monitor view of system resources FIGURE 12.9 The Windows Performance Monitor view of system usage FIGURE 12.10 The Windows Task Scheduler showing scheduled tasks and creation... FIGURE 1.10 The attack phase of a penetration test uses a cyclical process... Chris has served as technical editor and content contributor on numerous technical titles for several of the leading publishing companies. Chapter 11 4.2 Given a scenario, apply the appropriate incident response Chapters 11, 14 procedure. Chapter 8: Identity and Access Management Security The identities that we rely on to authenticate and authorize users, services, and systems are a critical layer in a defense-in-depth architecture. In this chapter, you will learn how to design a layered security architecture and how to analyze security designs for flaws, including single points of failure and gaps. FIGURE 16.3 NIST Cybersecurity Framework Core Structure FIGURE 16.4 Asset Management Cybersecurity Framework FIGURE 16.5 ITIL service life cycle CompTIA® Cybersecurity Analyst (CySA+) Study Guide Exam CS0-002 Second Edition Mike Chapple Exam Setid Copyright © 2020 by John Wiley & Sons, Inc., Indianapolis, Indiana, simultaneously published in the United Kingdom ISBN: 978-1-119-62405-3 ISBN: 978-1-119-62405-4 (hbk); ISBN: 978-1-119-62411-4 (pbk); No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as permitted under Sections 107 or 108 of the 1976 United States Copyright Act, without either the prior written permission of the Publisher, or authorization through payment of the appropriate fee to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400, fax (978) 646-8600. Chapter 3 FIGURE 3.1 Zenmap topology view FIGURE 3.2 Nmap scan results FIGURE 3.3 Nmap scan results FIGURE 3.4 Nmap of a Windows 10 system FIGURE 3.5 Angry IP Scanner FIGURE 3.6 Cisco router log FIGURE 3.7 SNMP configuration from a typical Cisco router FIGURE 3.8 Linux netstat -t output FIGURE 3.9 Windows netstat -o output FIGURE 3.10 Windows netstat -e output FIGURE 3.11 Windows netstat -n output FIGURE 3.12 Linux dhcpd.conf file FIGURE 3.13 Nslookup for google.com FIGURE 3.14 Nslookup using Google's DNS with MX query FIGURE 3.15 Traceroute for bbc.co.uk FIGURE 3.16 Whois query data for google.com FIGURE 3.17 whois command response for google.com FIGURE 3.18 Responder start-up screen FIGURE 3.19 Packet capture data from an nmap scan FIGURE 3.20 Demonstration account from immersion.media.mit.edu Chapter 4 FIGURE 4.1 FIPS 199 Standards FIGURE 4.2 Quylas asset map FIGURE 4.3 Configuring a Nessus scan FIGURE 4.4 Sample Nessus scan report FIGURE 4.5 Nessus scan templates FIGURE 4.6 Disabling unused plug-ins FIGURE 4.7 Configuring authenticated scanning FIGURE 4.8 Choosing a scan appliance FIGURE 4.9 Nessus vulnerability in the NIST National Vulnerability Database... Before you tackle the CySA+, you should already be a security practitioner. TABLE 1.1 Virtual machine network options Network Description These include the following: Summaries The summary section of each chapter briefly explains the chapter, allowing you to easily understand what it covers. Library of Congress Control Number: 2020037966 TRADEMARKS: Wiley, the Wiley logo, and the Sybex logo are trademarks or registered trademarks of John Wiley & Sons, Inc. After the Cybersecurity Analyst+ Exam Once you have taken the exam, you will be notified of your score immediately, so you'll know if you passed the test right away. If you will ever expose either system to a live network, or you aren't sure if you will, you should change the passwords immediately after booting the virtual machines the first time! Setting Up Your Environment Setting up VirtualBox is quite simple. It is not associated with any product or vendor mentioned in this book. We like to recommend an 15 or 17 (or equivalent) CPU, at least 8 GB of RAM, and 20 GB of open space on your hard drive. FIGURE 6.6 AWS Outposts offer hybrid cloud capability. He is an information security professional with two decades of experience in higher education, the private sector, and government. Lab Exercises The written labs provide more in-depth practice opportunities to expand your skills and to better prepare for performance-based testing on the Cybersecurity Analyst+ exam. CompTIA recommends the use of NetWars-style simulations, penetration testing and defensive cybersecurity simulations, and incident response training to prepare for the CySA+ - A full list of the industry certifications you can use to acquire CEUs toward renewing the CySA+ can be found at www.comptia.org/continuing-education/choose/renew-with-a-single-activity/earn-a-higher-level-comptia-certification What Does This Book Cover? VirtualBox allows multiple types of networks. You can search for a test center near you at the Pearson Vue website, where you will need to navigate to "Find a test center." www.pearsonvue.com/comptia/ Now that you know where you'd like to take the exam, simply set up a Pearson VUE testing account and schedule an exam. On the day of the test, take two forms of identification, and make sure to show up with plenty of time before the exam starts. FIGURE 15.3 (a) STOP tag attached to a device (b) Residue remaining on device... Finally, you will learn about service- and application-related problems. Additional resources for hands-on exercises include the following: Exploit-Exercises.com provides virtual machines, documentation, and challenges covering a wide range of security issues at exploit-exercises.lains.space. FIGURE 1.3 The NIST SP 800-30 risk assessment process suggests that an organization's risk assessment process should include multiple types of questions such as multiple-choice, fill-in-the-blank, multiple-response, drag-and-drop, and image-based problems. FIGURE 1.8 Group Policy Objects (GPOs) may be used to apply settings to many... Now that you have both virtual machines set up, you should verify their network settings. 1. For up-to-the-minute updates covering additions or modifications to the CompTIA certification exams, as well as additional study tools, videos, practice questions, and bonus material, be sure to visit the Sybex website and forum at www.sybex.com. 4, 7, 9, 10 4.0 Incident Response 4.1 Explain the importance of the incident response process. 1... CompTIA suggests that test takers have about four years of existing hands-on information security experience. CompTIA is a registered trademark of Computing Technology Industry Association, Inc. Chapter 2 1.2 Given a scenario, utilize threat intelligence to support Chapter 2 organizational security. In this chapter, you will learn how to acquire intelligence about an organization using popular tools and techniques. FIGURE 4.10 Nessus Automatic Updates FIGURE 4.11 Vulnerability management life cycle FIGURE 4.12 Quylas dashboard example FIGURE 4.13 Nessus report example by IP address FIGURE 4.14 Nessus report example by criticality FIGURE 4.15 Detailed vulnerability report FIGURE 4.16 Quylas scan performance settings FIGURE 4.17 Nikto web application scanner FIGURE 4.18 Arachni web application scanner FIGURE 4.19 Nessus web application scanner FIGURE 4.20 Zed Attack Proxy (ZAP) FIGURE 4.21 Burp Proxy Chapter 5 FIGURE 5.1 Nessus vulnerability scan report FIGURE 5.2 Quylas vulnerability scan report FIGURE 5.3 Scan report showing vulnerabilities and best practices FIGURE 5.4 Vulnerability trend analysis FIGURE 5.5 Vulnerabilities exploited in 2015 by year of initial disclosure FIGURE 5.6 Missing patch vulnerability FIGURE 5.7 Unsupported operating system vulnerability FIGURE 5.8 Dirty COW website FIGURE 5.9 Code execution vulnerability FIGURE 5.10 FTP cleartext authentication vulnerability FIGURE 5.11 Debug mode vulnerability FIGURE 5.12 Outdated SSL version vulnerability FIGURE 5.13 Insecure SSL cipher vulnerability FIGURE 5.14 Invalid certificate warning FIGURE 5.15 DNS amplification vulnerability FIGURE 5.16 Internal IP disclosure vulnerability FIGURE 5.17 Inside a virtual host FIGURE 5.18 SQL injection vulnerability FIGURE 5.19 Cross-site scripting vulnerability FIGURE 5.20 Alice communicating with a bank web server FIGURE 5.21 Man-in-the-middle attack FIGURE 5.22 First vulnerability report FIGURE 5.23 Second vulnerability report Chapter 6 FIGURE 6.1 Google's Gmail is an example of SaaS computing. 6, 9 1.5 Explain the threats and vulnerabilities associated with Chapter 5 specialized technology. Chapter 11: Building an Incident Response Program This chapter focuses on building a formal incident response handling program and team. Chapter 16: Policy and Compliance Policy provides the foundation of any cybersecurity program, and building an effective set of policies is critical to a successful program. To do so, you will need to click the File > Preferences menu of VirtualBox; then select Network and set up a NAT network, as shown in Figure 1.3, by clicking the network card with a + icon. FIGURE 1.4 Many organizations use a risk matrix to determine an overall risk... In the United States, you can do this based on your address or your ZIP code, while non-U.S. test takers may find it easier to enter their city and country. CompTIA certifications are ISO and ANSI accredited, and they are used throughout multiple industries as a measure of technical skill and knowledge. To do that, you also need the right tools and techniques. Requests to the Publisher for permission should be addressed to the Permissions Department, John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, (201) 748-6011, fax (201) 748-6008, or online at: For general information on our other products and services or to obtain technical support, please contact our Customer Care Department within the U.S. at (877) 762-2974, outside the U.S. at (317) 572-3993 or fax (317) 572-4002. That's where risk management comes into play. Thanks for making my job as a "network janitor" one of the best experiences of my life. 4.4 Given a scenario, utilize basic digital forensic techniques. Chapter 2 3.4 Compare and contrast automation concepts and Chapters 1, 2, technologies. Chapter 7: Infrastructure Security and Controls A strong security architecture requires layered security procedures, technology, and processes to provide defense in depth, ensuring that a single failure won't lead to a failure. Mike Chapple This book is dedicated to Ric Williams, my friend, mentor, and partner in crime through my first forays into the commercial IT world. Chapter 9: Software and Hardware Development Security Creating, testing, and maintaining secure software, from simple scripts to complex applications, is critical for security analysts. Follow the wizard as it guides you through the import process, and when it is complete, you can continue with these instructions. Appendix A: Practice Exam Once you have completed your studies, the practice exam will provide you with a chance to test your knowledge. If you identify a gap, you may want to find additional tools to help you learn more about those topics. This book will help you to assess your knowledge before taking the exam, as well as provide a stepping-stone to further learning in areas where you may want to expand your skillset or expertise. CompTIA recommends that test takers have four years of information security-related experience before taking this exam. You don't need to know every tool, but understanding how to approach a new scenario, tool, or technology that you may not know using existing experience is critical to passing the CySA+ exam. Chapter 1: Today's Cybersecurity Analyst The book starts by teaching you how to assess cybersecurity threats, as well as how to evaluate and select controls to keep your networks and systems secure. Our agent, Carole Jensen of Waterside Productions, continues to provide us with wonderful opportunities, advice, and assistance throughout our writing careers. FIGURE 1.2 Risks exist at the intersection of threats and vulnerabilities. Exam Essentials The exam essentials focus on major exam topics and critical knowledge that you should take into the test. The Metasploitable virtual machine uses the username msfadmin and the msfadmin password. This book is designed to cover the five domains included in the CySA+. I dedicate this book to my father, who was a role model of the value of hard work, commitment to family, and the importance of doing the right thing. What You Need to Build a basic virtual security lab environment to run scenarios and to learn applications and tools used in this book, you will need a virtualization program and virtual machines. Some material included with standard print versions of this book may not be included in e-books or in print-on-demand. Chapter 14: Containment, Eradication, and Recovery Once an incident has occurred and the initial phases of incident response have taken place, you will need to work on recovering from it. Kali Linux Multiple versions of Kali Linux are available at www.kali.org/downloads/ and prebuilt Kali Linux virtual machines can be downloaded at www.offensive-security.com/kali-linux-vmware-virtualbox-image-download/. FIGURE 1.5 In an 802.1x system, the device attempting to join the network... Security Evaluating Security Risks Building a Secure Network Secure Endpoint Management Penetration Testing Reverse Engineering The Future of Cybersecurity Analytics Summary Exam Essentials Lab Exercises Review Questions Chapter 2: Using Threat Intelligence Threat Data and Intelligence Threat Classification Attack Frameworks Applying Threat Intelligence Organizationwide Summary Exam Essentials Lab Exercises Review Questions Chapter 3: Reconnaissance and Intelligence Gathering Mapping and Enumeration Passive Footprinting Gathering Organizational Intelligence Detecting, Preventing, and Responding to Reconnaissance Summary Exam Essentials Lab Exercises Review Questions Chapter 4: Designing a Vulnerability Management Program Identifying Vulnerability Management Requirements Configuring and Executing Vulnerability Scans Developing a Remediation Workflow Overcoming Risks of Vulnerability Scanning Vulnerability Scanning Tools Summary Exam Essentials Lab Exercises Review Questions Chapter 5: Analyzing Vulnerability Scans Reviewing and Interpreting Scan Reports Validating Scan Results Common Vulnerabilities Summary Exam Essentials Lab Exercises Review Questions Chapter 6: Cloud Security Understanding Cloud Environments Operating in the Cloud Cloud Infrastructure Security Summary Exam Essentials Lab Exercises Review Questions Chapter 7: Infrastructure Security and Controls Understanding Defense-in-Depth Improving Security by Improving Controls Analyzing Security Architecture Summary Exam Essentials Lab Exercises Review Questions Chapter 8: Identity and Access Management Security Understanding Identity Threats to Identity and Access Identity as a Security Layer Federation and Single Sign-On Summary Exam Essentials Lab Exercises Review Questions Chapter 9: Software and Hardware Development Security Software Designing and Coding for Security Software Security Testing Hardware Assurance Best Practices Summary Exam Essentials Lab Exercises Review Questions Chapter 10: Security Operations and Monitoring Security Monitoring Summary Exam Essentials Lab Exercises Review Questions Chapter 11: Building an Incident Response Program Identifying Incidents Phases of Incident Response Building the Foundation for Incident Response Creating an Incident Response Team Coordination and Information Sharing Classifying Incidents Summary Exam Essentials Lab Exercises Review Questions Chapter 12: Analyzing Indicators of Compromise Analyzing Network Events Investigating Host-Related Issues Investigating Service and Application-Related Issues Summary Exam Essentials Lab Exercises Review Questions Chapter 13: Performing Forensic Analysis and Techniques Building a Forensics Capability Understanding Forensic Software Conducting Endpoint Forensics Network Forensics Cloud, Virtual, and Container Forensics Conducting a Forensic Investigation Forensic Investigation: An Example Summary Exam Essentials Lab Exercises Review Questions Chapter 14: Containment, Eradication, and Recovery Containing the Damage Incident Eradication and Recovery Wrapping Up the Response Summary Exam Essentials Lab Exercises Review Questions Chapter 15: Risk Management Analyzing Risk Managing Risk Security Controls Summary Exam Essentials Lab Exercises Review Questions Chapter 16: Policy and Compliance Understanding Policy Documents Complying with Laws and Regulations Adopting a Standard Framework Implementing Policy-Based Controls Security Control Verification and Quality Control Summary Exam Essentials Lab Exercises Review Questions Appendix A: Practice Exam Exam Questions Appendix B: Answers to Review Questions and Practice Exam Chapter 1: Today's Cybersecurity Analyst Chapter 2: Using Threat Intelligence Chapter 3: Reconnaissance and Intelligence Gathering Chapter 4: Designing a Vulnerability Management Program Chapter 5: Analyzing Vulnerability Scans Chapter 6: Cloud Security Understanding Identity Threats to Identity and Access Identity as a Security Layer Federation and Single Sign-On Summary Exam Essentials Lab Exercises Review Questions Chapter 9: Software and Hardware Development Security Software Designing and Coding for Security Software Security Testing Hardware Assurance Best Practices Summary Exam Essentials Lab Exercises Review Questions Chapter 10: Security Operations and Monitoring Security Monitoring Summary Exam Essentials Lab Exercises Review Questions Chapter 11: Building an Incident Response Program Chapter 12: Analyzing Indicators of Compromise Chapter 13: Performing Forensic Analysis and Techniques Chapter 14: Containment, Eradication, and Recovery Chapter 15: Risk Management Chapter 16: Policy and Compliance Index End User License Agreement List of Tables Introduction TABLE 1.1 Virtual machine network options Chapter 1 TABLE 1.1 Common TCP ports Chapter 3 TABLE 3.1 Cisco log levels Chapter 5 TABLE 5.1 CVSS attack vector metric TABLE 5.2 CVSS attack complexity metric TABLE 5.3 CVSS privileges required metric TABLE 5.4 CVSS user interaction metric TABLE 5.5 CVSS confidentiality metric TABLE 5.6 CVSS integrity metric TABLE 5.7 CVSS availability metric TABLE 5.8 CVSS scope metric TABLE 5.9 CVSS Qualitative Severity Rating Scale Chapter 8 TABLE 8.1 Comparison of federated identity technologies Chapter 9 TABLE 9.1 Code review method comparison Chapter 10 TABLE 10.1 grep flags Chapter 11 TABLE 11.1 NIST functional impact categories TABLE 11.2 Economic impact categories TABLE 11.3 NIST recovery effort categories TABLE 11.4 NIST information impact categories TABLE 11.5 Private organization information impact categories Chapter 12 TABLE 12.1 Unauthorized use and detection mechanisms Chapter 13 TABLE 13.1 Forensic application of Windows system artifacts TABLE 13.2 Key IOS file locations Chapter 16 TABLE 16.1 NIST Cybersecurity framework implementation List of Illustrations Introduction FIGURE 1.1 VirtualBox main screen FIGURE 1.2 Adding the Metasploitable VM FIGURE 1.3 Adding a NAT network FIGURE 1.4 Configuring VMs for the NAT network FIGURE 1.5 The VirtualBox main screen FIGURE 1.6 The VirtualBox main screen FIGURE 1.7 The VirtualBox main screen FIGURE 1.8 The VirtualBox main screen FIGURE 1.9 The VirtualBox main screen FIGURE 1.10 The VirtualBox main screen FIGURE 1.11 The VirtualBox main screen FIGURE 1.12 The VirtualBox main screen FIGURE 1.13 The VirtualBox main screen FIGURE 1.14 The VirtualBox main screen FIGURE 1.15 The VirtualBox main screen FIGURE 1.16 The VirtualBox main screen FIGURE 1.17 The VirtualBox main screen FIGURE 1.18 The VirtualBox main screen FIGURE 1.19 The VirtualBox main screen FIGURE 1.20 The VirtualBox main screen FIGURE 1.21 The VirtualBox main screen FIGURE 1.22 The VirtualBox main screen FIGURE 1.23 The VirtualBox main screen FIGURE 1.24 The VirtualBox main screen FIGURE 1.25 The VirtualBox main screen FIGURE 1.26 The VirtualBox main screen FIGURE 1.27 The VirtualBox main screen FIGURE 1.28 The VirtualBox main screen FIGURE 1.29 The VirtualBox main screen FIGURE 1.30 The VirtualBox main screen FIGURE 1.31 The VirtualBox main screen FIGURE 1.32 The VirtualBox main screen FIGURE 1.33 The VirtualBox main screen FIGURE 1.34 The VirtualBox main screen FIGURE 1.35 The VirtualBox main screen FIGURE 1.36 The VirtualBox main screen FIGURE 1.37 The VirtualBox main screen FIGURE 1.38 The VirtualBox main screen FIGURE 1.39 The VirtualBox main screen FIGURE 1.40 The VirtualBox main screen FIGURE 1.41 The VirtualBox main screen FIGURE 1.42 The VirtualBox main screen FIGURE 1.43 The VirtualBox main screen FIGURE 1.44 The VirtualBox main screen FIGURE 1.45 The VirtualBox main screen FIGURE 1.46 The VirtualBox main screen FIGURE 1.47 The VirtualBox main screen FIGURE 1.48 The VirtualBox main screen FIGURE 1.49 The VirtualBox main screen FIGURE 1.50 The VirtualBox main screen FIGURE 1.51 The VirtualBox main screen FIGURE 1.52 The VirtualBox main screen FIGURE 1.53 The VirtualBox main screen FIGURE 1.54 The VirtualBox main screen FIGURE 1.55 The VirtualBox main screen FIGURE 1.56 The VirtualBox main screen FIGURE 1.57 The VirtualBox main screen FIGURE 1.58 The VirtualBox main screen FIGURE 1.59 The VirtualBox main screen FIGURE 1.60 The VirtualBox main screen FIGURE 1.61 The VirtualBox main screen FIGURE 1.62 The VirtualBox main screen FIGURE 1.63 The VirtualBox main screen FIGURE 1.64 The VirtualBox main screen FIGURE 1.65 The VirtualBox main screen FIGURE 1.66 The VirtualBox main screen FIGURE 1.67 The VirtualBox main screen FIGURE 1.68 The VirtualBox main screen FIGURE 1.69 The VirtualBox main screen FIGURE 1.70 The VirtualBox main screen FIGURE 1.71 The VirtualBox main screen FIGURE 1.72 The VirtualBox main screen FIGURE 1.73 The VirtualBox main screen FIGURE 1.74 The VirtualBox main screen FIGURE 1.75 The VirtualBox main screen FIGURE 1.76 The VirtualBox main screen FIGURE 1.77 The VirtualBox main screen FIGURE 1.78 The VirtualBox main screen FIGURE 1.79 The VirtualBox main screen FIGURE 1.80 The VirtualBox main screen FIGURE 1.81 The 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screen FIGURE 1.107 The VirtualBox main screen FIGURE 1.108 The VirtualBox main screen FIGURE 1.109 The VirtualBox main screen FIGURE 1.110 The VirtualBox main screen FIGURE 1.111 The VirtualBox main screen FIGURE 1.112 The VirtualBox main screen FIGURE 1.113 The VirtualBox main screen FIGURE 1.114 The VirtualBox main screen FIGURE 1.115 The VirtualBox main screen FIGURE 1.116 The VirtualBox main screen FIGURE 1.117 The VirtualBox main screen FIGURE 1.118 The VirtualBox main screen FIGURE 1.119 The VirtualBox main screen FIGURE 1.120 The VirtualBox main screen FIGURE 1.121 The VirtualBox main screen FIGURE 1.122 The VirtualBox main screen FIGURE 1.123 The VirtualBox main screen FIGURE 1.124 The VirtualBox main screen FIGURE 1.125 The VirtualBox main screen FIGURE 1.126 The VirtualBox main screen FIGURE 1.127 The VirtualBox main screen FIGURE 1.128 The VirtualBox main screen FIGURE 1.129 The VirtualBox main screen FIGURE 1.130 The VirtualBox main screen FIGURE 1.131 The VirtualBox main screen FIGURE 1.132 The VirtualBox main screen FIGURE 1.133 The VirtualBox main screen FIGURE 1.134 The VirtualBox main screen FIGURE 1.135 The VirtualBox main screen FIGURE 1.136 The VirtualBox main screen FIGURE 1.137 The VirtualBox main screen FIGURE 1.138 The VirtualBox main screen FIGURE 1.139 The VirtualBox main screen FIGURE 1.140 The VirtualBox main screen FIGURE 1.141 The VirtualBox main screen FIGURE 1.142 The VirtualBox main screen FIGURE 1.143 The VirtualBox main screen FIGURE 1.144 The VirtualBox main screen FIGURE 1.145 The VirtualBox main screen FIGURE 1.146 The VirtualBox main screen FIGURE 1.147 The VirtualBox main screen FIGURE 1.148 The VirtualBox main screen FIGURE 1.149 The VirtualBox main screen FIGURE 1.150 The VirtualBox main screen FIGURE 1.151 The VirtualBox main screen FIGURE 1.152 The VirtualBox main screen FIGURE 1.153 The VirtualBox main screen FIGURE 1.154 The VirtualBox main screen FIGURE 1.155 The VirtualBox main screen FIGURE 1.156 The VirtualBox main 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