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This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Implement maximum control, security, and compliance processes in Azure cloud environments In Microsoft Azure Security Infrastructure ,1/e three leading experts show how to plan, deploy, and operate Microsoft Azure with outstanding levels of control, security, and compliance. You'll learn how to prepare infrastructure

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with Microsoft's integrated tools, prebuilt templates, and managed services—and use these to help safely build and manage any enterprise, mobile, web, or Internet of Things (IoT) system. The authors guide you through enforcing, managing, and verifying robust security at physical, network, host, application, and data layers. You'll learn best practices for security-aware deployment, operational management, threat mitigation, and continuous improvement—so you can help protect all your data, make services resilient to attack, and stay in control no matter how your cloud systems evolve. Three Microsoft Azure experts show you how to:

- Understand cloud security

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- boundaries and responsibilities
- Plan for compliance, risk management, identity/access management, operational security, and endpoint and data protection
- Explore Azure's defense-in-depth security architecture
- Use Azure network security patterns and best practices
- Help safeguard data via encryption, storage redundancy, rights management, database security, and storage security
- Help protect virtual machines with Microsoft Antimalware for Azure Cloud Services and Virtual Machines
- Use the Microsoft Azure Key Vault service to help secure cryptographic keys and other confidential information
- Monitor and help protect Azure and

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on-premises resources with Azure Security Center and Operations Management Suite • Effectively model threats and plan protection for IoT systems • Use Azure security tools for operations, incident response, and forensic investigation

In this book, the authors of the 20-year best-selling classic *Security in Computing* take a fresh, contemporary, and powerfully relevant new approach to introducing computer security. Organised around attacks and mitigations, the Pfleegers' new *Analyzing Computer Security* will attract students' attention by building on the high-profile security failures they may have already

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encountered in the popular media. Each section starts with an attack description. Next, the authors explain the vulnerabilities that have allowed this attack to occur. With this foundation in place, they systematically present today's most effective countermeasures for blocking or weakening the attack. One step at a time, students progress from attack/problem/harm to solution/protection/mitigation, building the powerful real-world problem solving skills they need to succeed as information security professionals. Analyzing Computer Security addresses crucial contemporary computer security themes throughout, including effective security management and

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risk analysis; economics and quantitative study; privacy, ethics, and laws; and the use of overlapping controls. The authors also present significant new material on computer forensics, insiders, human factors, and trust.

### STRENGTHEN SOFTWARE SECURITY BY HELPING DEVELOPERS AND SECURITY EXPERTS WORK TOGETHER

Traditional approaches to securing software are inadequate. The solution: Bring software engineering and network security teams together in a new, holistic approach to protecting the entire enterprise. Now, four highly respected security experts explain why this “confluence” is so crucial, and

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show how to implement it in your organization. Writing for all software and security practitioners and leaders, they show how software can play a vital, active role in protecting your organization. You'll learn how to construct software that actively safeguards sensitive data and business processes and contributes to intrusion detection/response in sophisticated new ways. The authors cover the entire development lifecycle, including project inception, design, implementation, testing, deployment, operation, and maintenance. They also provide a full chapter of advice specifically for Chief Information Security Officers and other enterprise security

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executives. Whatever your software security responsibilities, Enterprise Software Security delivers indispensable big-picture guidance—and specific, high-value recommendations you can apply right now. **COVERAGE INCLUDES:**

- Overcoming common obstacles to collaboration between developers and IT security professionals
- Helping programmers design, write, deploy, and operate more secure software
- Helping network security engineers use application output more effectively
- Organizing a software security team before you've even created requirements
- Avoiding the unmanageable complexity and inherent flaws of layered security
- Implementing



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positive software design practices and identifying security defects in existing designs • Teaming to improve code reviews, clarify attack scenarios associated with vulnerable code, and validate positive compliance • Moving beyond pentesting toward more comprehensive security testing • Integrating your new application with your existing security infrastructure • “Ruggedizing” DevOps by adding infosec to the relationship between development and operations • Protecting application security during maintenance

Information Security: Principles and Practices, Second Edition  
Everything You Need to Know

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About Modern Computer Security, in One Book Clearly explains all facets of information security in all 10 domains of the latest Information Security Common Body of Knowledge [(ISC)<sup>2</sup> CBK]. Thoroughly updated for today's challenges, technologies, procedures, and best practices. The perfect resource for anyone pursuing an IT security career. Fully updated for the newest technologies and best practices, Information Security: Principles and Practices, Second Edition thoroughly covers all 10 domains of today's Information Security Common Body of Knowledge. Two highly experienced security practitioners have brought together

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all the foundational knowledge you need to succeed in today's IT and business environments. They offer easy-to-understand, practical coverage of topics ranging from security management and physical security to cryptography and application development security. This edition fully addresses new trends that are transforming security, from cloud services to mobile applications, “Bring Your Own Device” (BYOD) strategies to today's increasingly rigorous compliance requirements. Throughout, you'll find updated case studies, review questions, and exercises—all designed to reveal today's real-world IT security challenges and help you overcome

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them. Learn how to -- Recognize the evolving role of IT security -- Identify the best new opportunities in the field -- Discover today's core information security principles of success -- Understand certification programs and the CBK -- Master today's best practices for governance and risk management -- Architect and design systems to maximize security -- Plan for business continuity -- Understand the legal, investigatory, and ethical requirements associated with IT security -- Improve physical and operational security -- Implement effective access control systems -- Effectively utilize cryptography -- Improve network and Internet security -- Build more secure

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software -- Define more effective  
security policies and standards --  
Preview the future of information  
security

Network Security Auditing

CISSP Practice Questions Exam  
Cram

Microsoft Azure Security Center

Your Brand, The Next Media  
Company

Principles and Practices

Big Data Analytics for Information  
Security

***Microsoft Azure Sentinel Plan,  
deploy, and operate Azure  
Sentinel, Microsoft's advanced  
cloud-based SIEM Microsoft's  
cloud-based Azure Sentinel  
helps you fully leverage  
advanced AI to automate***

***threat identification and response – without the complexity and scalability challenges of traditional Security Information and Event Management (SIEM) solutions. Now, three of Microsoft’s leading experts review all it can do, and guide you step by step through planning, deployment, and daily operations. Leveraging in-the-trenches experience supporting early customers, they cover everything from configuration to data ingestion, rule development to incident management... even proactive threat hunting to***

***disrupt attacks before you're exploited. Three of Microsoft's leading security operations experts show how to:***

- Use Azure Sentinel to respond to today's fast-evolving cybersecurity environment, and leverage the benefits of its cloud-native architecture***
- Review threat intelligence essentials: attacker motivations, potential targets, and tactics, techniques, and procedures***
- Explore Azure Sentinel components, architecture, design considerations, and initial configuration***
- Ingest alert log data from services and***

***endpoints you need to monitor***

- Build and validate rules to analyze ingested data and create cases for investigation***
- Prevent alert fatigue by projecting how many incidents each rule will generate***
- Help Security Operation Centers (SOCs) seamlessly manage each incident's lifecycle***
- Move towards proactive threat hunting: identify sophisticated threat behaviors and disrupt cyber kill chains before you're exploited***
- Do more with data: use programmable Jupyter notebooks and their libraries for machine learning, visualization, and data***



***analysis • Use Playbooks to perform Security Orchestration, Automation and Response (SOAR) • Save resources by automating responses to low-level events • Create visualizations to spot trends, identify or clarify relationships, and speed decisions • Integrate with partners and other third-parties, including Fortinet, AWS, and Palo Alto***

***CISSP Practice Questions Exam Cram, Fourth Edition***

***CISSP Practice Questions Exam Cram, Fourth Edition complements any CISSP study plan with 1,038 practice test***

***questions in the book and on the companion site—all supported by complete explanations of every answer. This package's highly realistic questions cover every area of knowledge for the new CISSP exam. Covers the critical information you'll need to know to help you pass the CISSP exam! · Features 1,038 questions, organized to reflect the current CISSP exam objectives so you can easily assess your knowledge of every topic. · Each question includes a detailed answer explanation. · Provides complete coverage of the***

***Common Body of Knowledge (CBK). · Use our innovative Quick Check Answer Key™ to quickly find answers as you work your way through the questions. Companion Website Your purchase includes access to 1,038 unique practice exam questions in multiple test modes and 75 electronic flash cards. Make sure you're 100% ready for the real exam! · Detailed explanations of correct and incorrect answers · Random questions and order of answers · Coverage of each current CISSP exam objective Pearson IT Certification***

***Practice Test minimum system requirements: Windows 10, Windows 8.1, Windows 7, or Vista (SP2), Microsoft .NET Framework 4.5 Client; Pentium-class 1 GHz processor (or equivalent); 512 MB RAM; 650 MB disk space plus 50 MB for each downloaded practice exam; access to the Internet to register and download exam databases***

***The perfect introduction to pen testing for all IT professionals and students · Clearly explains key concepts, terminology, challenges, tools, and skills · Covers the latest penetration testing standards from NSA,***

***PCI, and NIST Welcome to today's most useful and practical introduction to penetration testing. Chuck Easttom brings together up-to-the-minute coverage of all the concepts, terminology, challenges, and skills you'll need to be effective. Drawing on decades of experience in cybersecurity and related IT fields, Easttom integrates theory and practice, covering the entire penetration testing life cycle from planning to reporting. You'll gain practical experience through a start-to-finish sample project relying on free open source tools.***

***Throughout, quizzes, projects, and review sections deepen your understanding and help you apply what you've learned. Including essential pen testing standards from NSA, PCI, and NIST, Penetration Testing Fundamentals will help you protect your assets—and expand your career options. LEARN HOW TO · Understand what pen testing is and how it's used · Meet modern standards for comprehensive and effective testing · Review cryptography essentials every pen tester must know · Perform reconnaissance with***

***Nmap, Google searches, and ShodanHq · Use malware as part of your pen testing toolkit · Test for vulnerabilities in Windows shares, scripts, WMI, and the Registry · Pen test websites and web communication · Recognize SQL injection and cross-site scripting attacks · Scan for vulnerabilities with OWASP ZAP, Vega, Nessus, and MBSA · Identify Linux vulnerabilities and password cracks · Use Kali Linux for advanced pen testing · Apply general hacking technique ssuch as fake Wi-Fi hotspots and social engineering · Systematically***

***test your environment with  
Metasploit · Write or customize  
sophisticated Metasploit  
exploits***

***The Art of Network  
Architecture Business-Driven  
Design The business-  
centered, business-driven  
guide to architecting and  
evolving networks The Art of  
Network Architecture is the  
first book that places business  
needs and capabilities at the  
center of the process of  
architecting and evolving  
networks. Two leading  
enterprise network architects  
help you craft solutions that  
are fully aligned with business***



***strategy, smoothly accommodate change, and maximize future flexibility. Russ White and Denise Donohue guide network designers in asking and answering the crucial questions that lead to elegant, high-value solutions. Carefully blending business and technical concerns, they show how to optimize all network interactions involving flow, time, and people. The authors review important links between business requirements and network design, helping you capture the information you need to***

***design effectively. They introduce today's most useful models and frameworks, fully addressing modularity, resilience, security, and management. Next, they drill down into network structure and topology, covering virtualization, overlays, modern routing choices, and highly complex network environments. In the final section, the authors integrate all these ideas to consider four realistic design challenges: user mobility, cloud services, Software Defined Networking (SDN), and today's radically new data center environments.***

***• Understand how your choices of technologies and design paradigms will impact your business • Customize designs to improve workflows, support BYOD, and ensure business continuity • Use modularity, simplicity, and network management to prepare for rapid change • Build resilience by addressing human factors and redundancy • Design for security, hardening networks without making them brittle • Minimize network management pain, and maximize gain • Compare topologies and their tradeoffs***

- ***Consider the implications of network virtualization, and walk through an MPLS-based L3VPN example***
  - ***Choose routing protocols in the context of business and IT requirements***
  - ***Maximize mobility via ILNP, LISP, Mobile IP, host routing, MANET, and/or DDNS***
  - ***Learn about the challenges of removing and changing services hosted in cloud environments***
  - ***Understand the opportunities and risks presented by SDNs***
  - ***Effectively design data center control planes and topologies***
- The Internet of Things  
Planning and implementing***

***Microsofts cloud-native SIEM  
solution***

***A Hands-On Guide to Reliable  
Security Audits***

***Security in Computing***

***Modern Authentication with  
Azure Active Directory for Web  
Applications***

***A Confluence of Disciplines***

Clearly explains core concepts, terminology, challenges, technologies, and skills Covers today's latest attacks and countermeasures The perfect beginner's guide for anyone interested in a computer security career Dr. Chuck Easttom brings together complete coverage of all basic concepts, terminology, and

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issues, along with all the skills you need to get started. Drawing on 30 years of experience as a security instructor, consultant, and researcher, Easttom helps you take a proactive, realistic approach to assessing threats and implementing countermeasures. Writing clearly and simply, he addresses crucial issues that many introductory security books ignore, while addressing the realities of a world where billions of new devices are Internet-connected. This guide covers web attacks, hacking, spyware, network defense, security appliances, VPNs, password use, and much more. Its many tips and examples reflect new industry trends and the state-of-the-art in

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both attacks and defense.

Exercises, projects, and review questions in every chapter help you deepen your understanding and apply all you've learned. Whether you're a student, a professional, or a manager, this guide will help you protect your assets—and expand your career options. **LEARN HOW TO** Identify and prioritize potential threats to your network Use basic networking knowledge to improve security Get inside the minds of hackers, so you can deter their attacks Implement a proven layered approach to network security Resist modern social engineering attacks Defend against today's most common Denial of Service (DoS) attacks Halt viruses, spyware,

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worms, Trojans, and other malware  
Prevent problems arising from  
malfeasance or ignorance Choose  
the best encryption methods for  
your organization Compare security  
technologies, including the latest  
security appliances Implement  
security policies that will work in  
your environment Scan your  
network for vulnerabilities Evaluate  
potential security consultants  
Master basic computer forensics  
and know what to do if you're  
attacked Learn how cyberterrorism  
and information warfare are  
evolving  
Covers topics such as the  
importance of secure systems,  
threat modeling, canonical  
representation issues, solving



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database input, denial-of-service attacks, and security code reviews and checklists.

Maximize the impact and precision of your message! Now in its fourth edition, the Microsoft Manual of Style provides essential guidance to content creators, journalists, technical writers, editors, and everyone else who writes about computer technology. Direct from the Editorial Style Board at Microsoft—you get a comprehensive glossary of both general technology terms and those specific to Microsoft; clear, concise usage and style guidelines with helpful examples and alternatives; guidance on grammar, tone, and voice; and best practices for writing

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content for the web, optimizing for accessibility, and communicating to a worldwide audience. Fully updated and optimized for ease of use, the Microsoft Manual of Style is designed to help you communicate clearly, consistently, and accurately about technical topics—across a range of audiences and media.

CCNA Cyber Ops SECFND  
210-250 Official Cert Guide from Cisco Press allows you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Cisco enterprise security experts Omar Santos, Joseph Muniz, and Stefano De Crescenzo share preparation hints and test-taking tips, helping you identify

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areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes A test-preparation routine proven to help you pass the exam Do I Know This Already? quizzes, which allow you to decide how much time you need to spend on each section Chapter-ending exercises, which help you drill on key concepts you must know thoroughly The powerful Pearson Test Prep practice test software, with two full sample exams containing 120 well-reviewed, exam-realistic questions, customization options, and detailed performance reports A final preparation chapter, which guides you through tools and resources to

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help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. The official study guide helps you master topics on the CCNA Cyber Ops SECFND 210-250 exam, including: Network concepts Security concepts Cryptography Host-based analysis Security monitoring Attack methods CompTIA Security+ SY0-601 Exam Cram

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CCNA Cyber Ops SECFND  
#210-250 Official Cert Guide  
Security Operations Center  
Networking Technologies,  
Protocols, and Use Cases for the  
Internet of Things

CCNP and CCIE Enterprise Core  
ENCOR 350-401 Official Cert  
Guide

Agile IT Organization Design  
Design IT Organizations for Agility at  
Scale Aspiring digital businesses need  
overall IT agility, not just development  
team agility. In Agile IT Organization  
Design , IT management consultant  
and ThoughtWorks veteran Sriram  
Narayan shows how to infuse agility  
throughout your organization. Drawing  
on more than fifteen years' experience  
working with enterprise clients in IT-

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intensive industries, he introduces an agile approach to “Business–IT Effectiveness” that is as practical as it is valuable. The author shows how structural, political, operational, and cultural facets of organization design influence overall IT agility—and how you can promote better collaboration across diverse functions, from sales and marketing to product development, and engineering to IT operations. Through real examples, he helps you evaluate and improve organization designs that enhance autonomy, mastery, and purpose: the key ingredients for a highly motivated workforce. You’ll find “close range” coverage of team design, accountability, alignment, project finance, tooling, metrics,

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organizational norms, communication, and culture. For each, you'll gain a deeper understanding of where your organization stands, and clear direction for making improvements. Ready to optimize the performance of your IT organization or digital business? Here are practical solutions for the long term, and for right now. Govern for value over predictability Organize for responsiveness, not lowest cost Clarify accountability for outcomes and for decisions along the way Strengthen the alignment of autonomous teams Move beyond project teams to capability teams Break down tool-induced silos Choose financial practices that are free of harmful side effects Create and retain great teams despite today's "talent crunch" Reform metrics to

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promote (not prevent) agility Evolve culture through improvements to structure, practices, and leadership—and careful, deliberate interventions

The CCNP Security Core SCOR 300-701 Official Cert Guide serves as comprehensive guide for individuals who are pursuing the Cisco CCNP Security certification. This book helps any network professionals that want to learn the skills required to develop a security infrastructure, recognize threats and vulnerabilities to networks, and mitigate security threats. Complete and easy to understand, it explains key concepts and techniques through real-life examples. This book will be valuable to any individual that wants to learn about modern cybersecurity concepts and frameworks.



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The old Internet typically connected personal computers. But a radically new Internet is emerging. Some call it an "Internet of Things" (IoT) or "Internet of Everything" (IoE). The IoT won't just connect people: it'll connect "smart" homes, appliances, cars, aircraft (a.k.a. drones)... offices, factories, cities... the world. By some estimates, the IoE will explode into a \$19 trillion market in just a few years. If that happens... when that happens... it will transform your life. ¶ You need to know what's coming. But, until now, most guides to the Internet of Everything have been written for technical experts. Now, the world's #1 author of beginning technology books has written the perfect introduction for every consumer and citizen. In The

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Internet of Things, Michael Miller reveals how a new generation of autonomously connected smart devices is emerging, and how it will enable people and devices to do more things, more intelligently, and more rapidly. Miller demystifies every type of smart device, both current and future. Each chapter ends with a special "...and You" section, offering up-to-the-minute advice for using today's IoE technologies or preparing for tomorrow's. You'll also discover the potential downsides and risks associated with intelligent, automatic interaction. When all your devices can communicate with each other (and with the companies that sell and monitor them), how private is your private life? Do the benefits outweigh the risks?

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And what does a connected world do when the connections suddenly go down? Packed with scenarios and insider interviews, *The Internet of Things* makes our future utterly, vividly real.

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam.

- \* Master Cisco CCNP/CCIE ENCOR exam topics
- \* Assess your knowledge with chapter-opening quizzes
- \* Review key concepts with exam preparation tasks

This is the eBook edition of the CCNP and CCIE Enterprise Core ENCOR 350-401

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Official Cert Guide. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition. CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide focuses specifically on the objectives for the Cisco CCNP/CCIE ENCOR

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350-401 exam. Networking experts Brad Edgeworth, Ramiro Garza Rios, Dave Hucaby, and Jason Gooley share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills.

Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. This complete study package includes\* A test-preparation routine proven to help you pass the exams \* Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section \* Chapter-ending exercises, which help you drill on key concepts you must know thoroughly \* Practice exercises that help you enhance your knowledge

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\* More than 90 minutes of video mentoring from the author \* A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies \* Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the CCNP/CCIE ENCOR exam, including

- \* Enterprise network architecture \*
- Virtualization \*
- Network assurance \*

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Security \* Automation

A Threat/vulnerability/countermeasure  
Approach

Information Security

CISSP Cert Guide

CCNP Security SISAS 300-208

Official Cert Guide

How to Prevent, Detect, and Respond  
to Information Technology Crimes  
(Theft, Sabotage, Fraud)

*Prepare for Cisco CCENT  
ICND1 100-101 exam  
success with this Cisco  
Exam Cram from Pearson  
IT Certification, a  
leader in IT. Cisco  
CCENT ICND1 100-101 Exam  
Cram, Second Edition is  
the perfect study guide*

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*to help you pass the Cisco ICND1 100-101 exam, providing coverage and practice questions for every exam topic. The book contains an extensive set of preparation tools such as exam objective mapping; a self-assessment section that helps you evaluate your motivations and exam readiness; concise, easy-to-read exam topic overviews; Exam Alerts that highlight key concepts; bullet lists and summaries for easy*



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*review; Cram Savers, Cram Quizzes, and chapter-ending practice questions that help you assess your knowledge and test your understanding; Notes that indicate areas of concern or specialty training; Tips to help you build a better foundation of knowledge; and an extensive glossary of terms and acronyms. The book also contains the extremely useful Cram Sheet that represents a collection of the most difficult-to-*

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*remember facts and numbers you should memorize before taking the test. Covers the critical information you'll need to know to score higher on your Cisco CCENT ICND1 100-101 exam! . Identify the protocols that operate at specific OSI layers . Learn the details of custom subnetting with IPv4 . Understand and implement IPv6 . Connect, configure, and manage Cisco routers and switches . Set up*

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*security for routers and switches · Create VLANs and set up switch-to-switch trunk links · Configure, verify, and troubleshoot OSPFv2 and OSPFv3 · Anticipate the actions a router will take · Understand and use CDP for neighbor discovery · Learn the detailed learning and forwarding process of both routers and switches · Filter traffic from one network to another with access control lists (ACLs) · Deploy Network Address*

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*Translation (NAT) and  
IOS router DHCP services  
. Troubleshoot many  
types of network  
problems Mike Valentine  
has been in the IT field  
for 16 years, focusing  
on network design and  
implementation. He is a  
Cisco Certified Systems  
Instructor (#31461) and  
specializes in Cisco  
Unified Communications  
instruction as well as  
CCNA and CCNP courses.  
His accessible,  
humorous, and effective  
teaching style has  
demystified Cisco for*

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*hundreds of students since he began teaching in 2002. Keith Barker, CCIE No. 6783 R/S & Security, is a 27-year veteran of the networking industry. He currently works at CBT Nuggets. His past experience includes EDS, Blue Cross, Paramount Pictures, and KnowledgeNET, and he has delivered CCIE-level training for several years.*

*This complete new guide to auditing network security is an*

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*indispensable resource for security, network, and IT professionals, and for the consultants and technology partners who serve them. Cisco network security expert Chris Jackson begins with a thorough overview of the auditing process, including coverage of the latest regulations, compliance issues, and industry best practices. The author then demonstrates how to segment security architectures into domains and measure*

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*security effectiveness through a comprehensive systems approach.*

*Network Security*

*Auditing thoroughly covers the use of both commercial and open source tools to assist in auditing and validating security policy assumptions. The book also introduces leading IT governance frameworks such as COBIT, ITIL, and ISO 17799/27001, explaining their values, usages, and effective integrations with Cisco*

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*security products.  
This is the eBook  
version of the print  
title. Note that the  
eBook does not provide  
access to the practice  
test software that  
accompanies the print  
book. Learn, prepare,  
and practice for CISSP  
exam success with the  
CISSP Cert Guide from  
Pearson IT  
Certification, a leader  
in IT Certification.  
Master CISSP exam topics  
Assess your knowledge  
with chapter-ending  
quizzes Review key*



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*concepts with exam preparation tasks CISSP Cert Guide is a best-of-breed exam study guide. Leading IT certification experts Troy McMillan and Robin Abernathy share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam*

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*topics. You'll get a complete test preparation routine organized around proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study*

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*plan. This study guide helps you master all the topics on the CISSP exam, including Access control*

*Telecommunications and network security*

*Information security governance and risk management Software*

*development security*

*Cryptography Security architecture and design*

*Operation security*

*Business continuity and disaster recovery*

*planning Legal, regulations,*

*investigations, and*

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*compliance Physical  
(environmental) security  
Today, billions of  
devices are Internet-  
connected, IoT standards  
and protocols are  
stabilizing, and  
technical professionals  
must increasingly solve  
real problems with IoT  
technologies. Now, five  
leading Cisco IoT  
experts present the  
first comprehensive,  
practical reference for  
making IoT work. IoT  
Fundamentals brings  
together knowledge  
previously available*

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*only in white papers, standards documents, and other hard-to-find sources—or nowhere at all. The authors begin with a high-level overview of IoT and introduce key concepts needed to successfully design IoT solutions. Next, they walk through each key technology, protocol, and technical building block that combine into complete IoT solutions. Building on these essentials, they present several detailed use cases,*

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*including manufacturing,  
energy, utilities,  
smart+connected cities,  
transportation, mining,  
and public safety.*

*Whatever your role or  
existing infrastructure,  
you'll gain deep insight  
what IoT applications  
can do, and what it  
takes to deliver them.*

*Fully covers the  
principles and  
components of next-  
generation wireless  
networks built with  
Cisco IOT solutions such  
as IEEE 802.11 (Wi-Fi),  
IEEE 802.15.4-2015*

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*(Mesh), and LoRaWAN  
Brings together real-  
world tips, insights,  
and best practices for  
designing and  
implementing next-  
generation wireless  
networks Presents start-  
to-finish configuration  
examples for common  
deployment scenarios  
Reflects the extensive  
first-hand experience of  
Cisco experts  
Managing & Using MySQL  
Microsoft Azure Sentinel  
Microsoft Manual of  
Style  
Automating the*

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*Virtualized Data Center  
Computer Security  
Fundamentals*

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advanced skills for designing, deploying, configuring, and troubleshooting Cisco Collaboration and Unified Communications applications, devices, and networks. Author Chris Olsen shows how to effectively use Cisco Unity Connection, Cisco Unity Express, Cisco Instant Message and Presence, Cisco TelePresence Video Communication Server, and Cisco TelePresence Management Suite in production environments. He begins by introducing the server platforms and overlays that are the basis for all Cisco Unity Connection design and

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integration. Next, he presents in-depth coverage of a wide range of essential tasks—from user configuration to voicemail redundancy, configuring Cisco Jabber Mobile, to provisioning Cisco Prime Collaboration. Each chapter opens with a list of topics that clearly identifies its focus. Each chapter ends with a summary of key concepts for quick study, as well as review questions to assess and reinforce your understanding. Throughout, configuration examples and sample verification outputs illustrate critical issues in network operation and troubleshooting. Whether you

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are preparing for the CCNP Collaboration certification exams or you are just interested in learning about how to deploy and operate Cisco collaboration applications, you will find this book to be an invaluable resource. Shows how to integrate Cisco Unity Connection with Cisco Unified Communications Manager or other PBXs Covers configuring Cisco Unity Connection users, templates, service classes, distribution lists, security, LDAP, dial plans, and call management Walks through Unified Messaging single Inbox configuration Shows how to design,

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messaging solutions with  
Cisco Unity Express Explains  
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configuration \*CD contains realistic practice tests. \*Includes extensive, proven features to help students review efficiently and remember key details. This is Cisco's official, comprehensive self-study resource for preparing for the new CCNP Security IPS exam, one of the four required exams for CCNP Security certification. Designed for intermediate-to-advanced level readers, it covers every objective concisely and logically, with extensive teaching features designed to promote retention and understanding. Readers will find: \* \*Pre-chapter quizzes to assess

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knowledge and focus study more efficiently.

- \*Foundation topics sections that explain concepts and configurations, and link theory to actual configuration commands.
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- \*Exam Preparation sections with additional chapter review features.
- \*Final preparation chapter providing tools and a complete final study plan.
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MySQL is a popular and robust open source database product that supports key subsets of SQL on both Linux

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and Unix systems. MySQL is free for nonprofit use and costs a small amount for commercial use. Unlike commercial databases, MySQL is affordable and easy to use. This book includes introductions to SQL and to relational database theory. If you plan to use MySQL to build web sites or other Linux or Unix applications, this book teaches you to do that, and it will remain useful as a reference once you understand the basics. Ample tutorial material and examples are included throughout. This book has all you need to take full advantage of this powerful database management system.



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**It takes you through the whole process from installation and configuration to programming interfaces and database administration. This second edition has a greatly enhanced administration chapter that includes information on administrative tools, server configuration, server startup and shutdown, log file management, database backup and restore, and database administration and repair. In addition, a new chapter on security describes data, server, and client-server security, while a chapter on extending MySQL provides an overview**

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of MySQL internals and describes the use of MySQL user-defined functions. If you know C/C++, Java, Perl, PHP, or Python, you can write programs to interact with your MySQL database. In addition, you can embed queries and updates directly in an HTML file so that a web page becomes its own interface to the database. Managing and Using MySQL includes chapters on the programming language interfaces, and it also includes a complete reference section with specific function calls for each language. Also included in the reference section are references to the SQL

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language, and details of the MySQL system variables, programs, and utilities. New to the second edition is a reference to the internal MySQL tables, which will be of particular interest to those who want to work extensively with MySQL security.

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Programs and Policies  
Smart Business Intelligence  
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Strategy Enables Better  
Content, Smarter Marketing,  
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A comprehensive guide for  
deploying, configuring,  
and troubleshooting  
NetFlow and learning big  
data analytics  
technologies for cyber  
security Today's world of  
network security is full  
of cyber security  
vulnerabilities,  
incidents, breaches, and  
many headaches. Visibility  
into the network is an  
indispensable tool for  
network and security

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professionals and Cisco NetFlow creates an environment where network administrators and security professionals have the tools to understand who, what, when, where, and how network traffic is flowing. Network Security with NetFlow and IPFIX is a key resource for introducing yourself to and understanding the power behind the Cisco NetFlow solution. Omar Santos, a Cisco Product Security Incident Response Team (PSIRT) technical leader and author of

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numerous books including the CCNA Security 210-260 Official Cert Guide, details the importance of NetFlow and demonstrates how it can be used by large enterprises and small-to-medium-sized businesses to meet critical network challenges. This book also examines NetFlow's potential as a powerful network security tool. Network Security with NetFlow and IPFIX explores everything you need to know to fully understand and implement the Cisco Cyber Threat Defense

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Solution. It also provides detailed configuration and troubleshooting guidance, sample configurations with depth analysis of design scenarios in every chapter, and detailed case studies with real-life scenarios. You can follow Omar on Twitter: @santosomar NetFlow and IPFIX basics Cisco NetFlow versions and features Cisco Flexible NetFlow NetFlow Commercial and Open Source Software Packages Big Data Analytics tools and technologies such as Hadoop, Flume, Kafka,

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Elasticsearch, Logstash,  
Kibana (ELK) Additional  
Telemetry Sources for Big  
Data Analytics for Cyber  
Security Understanding big  
data scalability Big data  
analytics in the Internet  
of everything Cisco Cyber  
Threat Defense and NetFlow  
Troubleshooting NetFlow  
Real-world case studies  
Content is still king—and  
if you're a brand  
marketer, you need to  
start thinking like a  
media company, too. Your  
Brand, The Next Media  
Company brings together  
the strategic insights,



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operational frameworks, and practical approaches for transforming your brand into a highly successful media company. There is a content and media surplus in the marketplace, and there is an attention deficit in the minds of consumers today. Their lives are dynamic and completely unpredictable. They are highly influential and aid their peers down the purchase funnel using organic conversations about the products they care about and the ones they don't. In order to

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reach these consumers, brands must create recent, relevant, and game changing content to break through the clutter and successfully change their behavior. Social business pioneer Michael Brito covers every step of the process, including: Understanding the unpredictable nature and dynamic behaviors of the social customer Deploying social business strategies that will help facilitate the change from brand to media company Building a content organization and setting the stage for

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transformation Creating a real-time command center that will help facilitate reactive and proactive content marketing Creating a centralized editorial team that will drive content strategy, governance, and cross-team collaboration Building the content supply chain (workflows for content ideation, creation, approval, distribution, and integration) Enabling customers and employees (brand journalists) to feed the content engine Developing your content strategy that can be

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executed across paid, earned, and owned media content Transitioning from “brand messaging” to a highly relevant content narrative Evaluating the content marketing vendors and software platforms vying for your business Along the way, Brito presents multiple case studies from brand leaders worldwide, including RedBull, Oreo, Tesla Motors, Burberry, Sharpie, and Pepsi—delivering specific, actionable, powerfully relevant insights you can act on to begin the transformation

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from brand to media company.

Security Operations Center Building, Operating, and Maintaining Your SOC The complete, practical guide to planning, building, and operating an effective Security Operations Center (SOC) Security Operations Center is the complete guide to building, operating, and managing Security Operations Centers in any environment. Drawing on experience with hundreds of customers ranging from Fortune 500 enterprises to large military

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organizations, three leading experts thoroughly review each SOC model, including virtual SOCs. You'll learn how to select the right strategic option for your organization, and then plan and execute the strategy you've chosen. Security Operations Center walks you through every phase required to establish and run an effective SOC, including all significant people, process, and technology capabilities. The authors assess SOC technologies, strategy, infrastructure, governance, planning,

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implementation, and more. They take a holistic approach considering various commercial and open-source tools found in modern SOCs. This best-practice guide is written for anybody interested in learning how to develop, manage, or improve a SOC. A background in network security, management, and operations will be helpful but is not required. It is also an indispensable resource for anyone preparing for the Cisco SCYBER exam. · Review high-level issues, such as vulnerability and risk

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management, threat intelligence, digital investigation, and data collection/analysis · Understand the technical components of a modern SOC · Assess the current state of your SOC and identify areas of improvement · Plan SOC strategy, mission, functions, and services · Design and build out SOC infrastructure, from facilities and networks to systems, storage, and physical security · Collect and successfully analyze security data · Establish an effective



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understanding of what they  
need to master to succeed  
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follows a logical  
organization of the CCNP  
Security exam objectives.  
Material is presented in a  
concise manner, focusing  
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retention and recall of exam topics. Readers will organize their exam preparation through the use of the consistent features in these chapters, including: Pre-chapter quiz - These quizzes allow readers to assess their knowledge of the chapter content and decide how much time to spend on any given section. Foundation Topics - These sections make up the majority of the page count, explaining concepts, configurations, with emphasis on the theory and concepts, and

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with linking the theory to the meaning of the configuration commands. Key Topics - Inside the Foundation Topics sections, every figure, table, or list that should absolutely be understood and remembered for the exam is noted with the words Key Topic in the margin. This tool allows the reader to quickly review the most important details in each chapter. Exam Preparation - This ending section of each chapter includes three additional features for review and study, all

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designed to help the reader remember the details as well as to get more depth. Readers will be instructed to review key topics from the chapter, complete tables and lists from memory, and define key terms. Final Preparation Chapter - This final chapter details a set of tools and a study plan to help readers complete their preparation for the exams. CD-ROM Practice Test - The companion CD-ROM contains a set of customizable practice tests.

Secure Coding in C and C++

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CCNP and CCIE Security

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Cert Guide

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Software Engineering

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information about more than

seven hundred insider cyber

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crimes, ranging from national security espionage to theft of trade secrets. The CERT® Guide to Insider Threats describes CERT's findings in practical terms, offering specific guidance and countermeasures that can be immediately applied by executives, managers, security officers, and operational staff within any private, government, or military organization. The authors systematically address attacks by all types of malicious insiders, including current and former employees, contractors, business partners, outsourcers, and even cloud-computing vendors. They

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cover all major types of insider cyber crime: IT sabotage, intellectual property theft, and fraud. For each, they present a crime profile describing how the crime tends to evolve over time, as well as motivations, attack methods, organizational issues, and precursor warnings that could have helped the organization prevent the incident or detect it earlier. Beyond identifying crucial patterns of suspicious behavior, the authors present concrete defensive measures for protecting both systems and data. This book also conveys the big picture of the



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insider threat problem over time: the complex interactions and unintended consequences of existing policies, practices, technology, insider mindsets, and organizational culture. Most important, it offers actionable recommendations for the entire organization, from executive management and board members to IT, data owners, HR, and legal departments. With this book, you will find out how to Identify hidden signs of insider IT sabotage, theft of sensitive information, and fraud Recognize insider threats throughout the software development life

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cycle Use advanced threat controls to resist attacks by both technical and nontechnical insiders Increase the effectiveness of existing technical security tools by enhancing rules, configurations, and associated business processes Prepare for unusual insider attacks, including attacks linked to organized crime or the Internet underground By implementing this book's security practices, you will be incorporating protection mechanisms designed to resist the vast majority of malicious insider attacks. Identify and Manage the Influence Paths That Convert

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Brand Awareness to Customer Acquisition! Today, you face a brutally tough, maddeningly elusive new competitor: the "wisdom of crowds." Social media gives consumers 24x7 access to the attitudes and recommendations of their most engaged peers. These are the views that shape buying decisions. These are the views you must shape and use. Influence Marketing won't just help you identify and enlist key influencers: it will help you manage the influence paths that lead consumers to buy. By sharing empirical evidence of hard-won lessons from pioneering influence marketers, Danny

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Brown and Sam Fiorella provide a blueprint that moves influence marketing beyond simple brand awareness and into sales acquisition and customer life time value measurement. They integrate new tools and techniques into a complete methodology for generating more and better leads—and converting them faster, at higher margins. • Put the customer—not the influencer—at the center, and plan influence marketing accordingly • Recognize where each prospect stands in the purchase life cycle right now • Clarify how your consumers move from brand preference to purchase •

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Identify key micro-influencers who impact decisions at every stage • Gain indispensable insights into the context of online relationships • Recognize situational factors that derail social media brand recommendations • Understand social influence scoring models and overcome their limitations • Re-engineer and predict influence paths to generate measurable action • Master the "4 Ms" of influence marketing: make, manage, monitor, measure • Transform influence marketing from a "nice-to-have" exercise into a powerful strategy  
Additional online resources

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can be found at [www.influencemarketingbook.com](http://www.influencemarketingbook.com)

Build advanced authentication solutions for any cloud or web environment. Active Directory has been transformed to reflect the cloud revolution, modern protocols, and today's newest SaaS paradigms. This is an authoritative, deep-dive guide to building Active Directory authentication solutions for these new environments. Author Vittorio Bertocci drove these technologies from initial concept to general availability, playing key roles in everything from technical design to documentation. In

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this book, he delivers comprehensive guidance for building complete solutions. For each app type, Bertocci presents high-level scenarios and quick implementation steps, illuminates key concepts in greater depth, and helps you refine your solution to improve performance and reliability. He helps you make sense of highly abstract architectural diagrams and nitty-gritty protocol and implementation details. This is the book for people motivated to become experts. Active Directory Program Manager Vittorio Bertocci shows you how to: Address

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authentication challenges in the cloud or on-premises Systematically protect apps with Azure AD and AD Federation Services Power sign-in flows with OpenID Connect, Azure AD, and AD libraries Make the most of OpenID Connect's middleware and supporting classes Work with the Azure AD representation of apps and their relationships Provide fine-grained app access control via roles, groups, and permissions Consume and expose Web APIs protected by Azure AD Understand new authentication protocols without reading complex spec documents Discover high-value Azure



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security insights, tips, and operational optimizations. This book presents comprehensive Azure Security Center techniques for safeguarding cloud and hybrid environments. Leading Microsoft security and cloud experts Yuri Diogenes and Dr. Thomas Shinder show how to apply Azure Security Center's full spectrum of features and capabilities to address protection, detection, and response in key operational scenarios. You'll learn how to secure any Azure workload, and optimize virtually all facets of modern security, from policies and identity to incident response and

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- Master a new security paradigm for a world without traditional perimeters
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- operations center
- Integrate Azure Security Center with Azure AD Identity Protection Center and third-party solutions
- Adapt Azure Security Center's built-in policies and definitions for your organization
- Perform security assessments and implement Azure Security Center recommendations
- Use incident response features to detect, investigate, and address threats
- Create high-fidelity fusion alerts to focus attention on your most urgent security issues
- Implement application whitelisting and just-in-time VM access
- Monitor user behavior and access,

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and investigate compromised  
or misused credentials •

Customize and perform  
operating system security  
baseline assessments •

Leverage integrated threat  
intelligence to identify  
known bad actors

The Art of Network  
Architecture

CCENT ICND1 100-101 Exam  
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*repository of security knowledge to help you implement end-to-end security solutions and provides a single source of knowledge covering the entire range of the Cisco network security portfolio. The book is divided into five parts mapping to Cisco security technologies and solutions: perimeter security, identity security and access management, data privacy, security monitoring, and security management. Together, all these elements enable dynamic links between customer security policy, user or host identity, and network infrastructures.*



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*With this definitive reference, you can gain a greater understanding of the solutions available and learn how to build integrated, secure networks in today's modern, heterogeneous networking environment. This book is an excellent resource for those seeking a comprehensive reference on mature and emerging security tactics and is also a great study guide for the CCIE Security exam. "Yusuf's extensive experience as a mentor and advisor in the security technology field has honed his ability to translate highly technical information into a straight-forward,*

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*easy-to-understand format. If you're looking for a truly comprehensive guide to network security, this is the one! " –Steve Gordon, Vice President, Technical Services, Cisco Yusuf Bhaiji, CCIE No. 9305 (R&S and Security), has been with Cisco for seven years and is currently the program manager for Cisco CCIE Security certification. He is also the CCIE Proctor in the Cisco Dubai Lab. Prior to this, he was technical lead for the Sydney TAC Security and VPN team at Cisco. Filter traffic with access lists and implement security features on switches Configure Cisco IOS*

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*router firewall features and  
deploy ASA and PIX Firewall  
appliances Understand attack  
vectors and apply Layer 2  
and Layer 3 mitigation  
techniques Secure management  
access with AAA Secure  
access control using  
multifactor authentication  
technology Implement  
identity-based network  
access control Apply the  
latest wireless LAN security  
solutions Enforce security  
policy compliance with Cisco  
NAC Learn the basics of  
cryptography and implement  
IPsec VPNs, DMVPN, GET VPN,  
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technologies Monitor network  
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*network and host intrusion prevention, anomaly detection, and security monitoring and correlation Deploy security management solutions such as Cisco Security Manager, SDM, ADSM, PDM, and IDM Learn about regulatory compliance issues such as GLBA, HIPPA, and SOX This book is part of the Cisco CCIE Professional Development Series from Cisco Press, which offers expert-level instruction on network design, deployment, and support methodologies to help networking professionals manage complex networks and prepare for CCIE exams. Category: Network Security Covers:*

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*"The security of information systems has not improved at a rate consistent with the growth and sophistication of the attacks being made against them. To address this problem, we must improve the underlying strategies and techniques used to create our systems. Specifically, we must build security in from the start, rather than append it as an afterthought. That's the point of Secure Coding in C and C++. In careful detail, this book shows software developers how to build high-quality systems that are less vulnerable to costly and even catastrophic*

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*This book identifies and explains these causes and shows the steps that can be taken to prevent exploitation. Moreover, this book encourages programmers to adopt security best practices and develop a security mindset that can help protect software from tomorrow's attacks, not just today's. Drawing on the CERT/CC's reports and conclusions, Robert Seacord systematically identifies the program errors most likely to lead to security breaches, shows how they can be exploited, reviews the potential consequences, and presents secure alternatives. Coverage*

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*includes technical detail on how to Improve the overall security of any C/C++ application Thwart buffer overflows and stack-smashing attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer-related problems: integer overflows, sign errors, and truncation errors Correctly use formatted output functions without introducing format-string vulnerabilities Avoid I/O vulnerabilities, including race conditions Secure Coding in C and C++ presents*



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*enterprises, services providers, consultants, and Cisco partners meet the challenge of provisioning end-to-end cloud infrastructures. Drawing on extensive experience working with leading cloud vendors and integrators, the authors present detailed operations workflow examples, proven techniques for operating cloud-based network, compute, and storage infrastructure; a comprehensive management reference architecture; and a complete case study demonstrating rapid, lower-cost solutions design. Cloud Computing will be an indispensable resource for*

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- Implement best practices for cloud service provisioning, activation, and management
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- Manage the unique capacity challenges associated with sporadic, real-time demand
- Provide a consistent and optimal cloud user experience

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key standards Includes focused coverage of healthcare, finance, and PCI DSS compliance An essential and invaluable guide for leaders, managers, and technical professionals Today, cyberattacks can place entire organizations at risk.

Cybersecurity can no longer be delegated to specialists: success requires everyone to work together, from leaders on down. *Developing Cybersecurity Programs and Policies* offers start-to-finish guidance for establishing effective cybersecurity in any organization. Drawing on more than 20 years of real-world experience, Omar Santos

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presents realistic best practices for defining policy and governance, ensuring compliance, and collaborating to harden the entire organization. First, Santos shows how to develop workable cybersecurity policies and an effective framework for governing them. Next, he addresses risk management, asset management, and data loss prevention, showing how to align functions from HR to physical security. You ' ll discover best practices for securing communications, operations, and access; acquiring, developing, and maintaining technology; and

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responding to incidents. Santos concludes with detailed coverage of compliance in finance and healthcare, the crucial Payment Card Industry Data Security Standard (PCI DSS) standard, and the NIST Cybersecurity Framework. Whatever your current responsibilities, this guide will help you plan, manage, and lead cybersecurity – and safeguard all the assets that matter. Learn How To · Establish cybersecurity policies and governance that serve your organization ' s needs · Integrate cybersecurity program components into a coherent framework for action

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- Assess, prioritize, and manage security risk throughout the organization
- Manage assets and prevent data loss
- Work with HR to address human factors in cybersecurity
- Harden your facilities and physical environment
- Design effective policies for securing communications, operations, and access
- Strengthen security throughout the information systems lifecycle
- Plan for quick, effective incident response and ensure business continuity
- Comply with rigorous regulations in finance and healthcare
- Plan for PCI compliance to safely process payments
- Explore and apply

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focuses specifically on the objectives for the Cisco CCNA Security exam. Networking Security experts Omar Santos and John Stuppi share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and

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plane on Cisco IOS devices

- Securing the data plane
- Securing routing protocols and the control plane
- Understanding firewall fundamentals
- Implementing Cisco IOS zone-based firewalls
- Configuring basic firewall policies on Cisco ASA
- Cisco IPS fundamentals
- Mitigation technologies for e-mail- and web-based threats
- Mitigation technologies for endpoint threats

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