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PART OF THE NEW JONES &
BARTLETT LEARNING
INFORMATION SYSTEMS
SECURITY & ASSURANCE SERIES

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Security Policies and Implementation Issues, Third Edition offers a comprehensive, end-to-end view of information security policies and frameworks from the raw organizational mechanics of building to the psychology of implementation.

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Written by industry experts, the new Third Edition presents an effective balance between technical knowledge and soft skills, while introducing many different concepts of information security in clear simple terms such as governance, regulator mandates,

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business drivers, legal considerations, and much more. With step-by-step examples and real-world exercises, this book is a must-have resource for students, security officers, auditors, and risk leaders looking to fully understand the process of implementing successful

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sets of security policies and frameworks. Instructor Materials for Security Policies and Implementation Issues include: PowerPoint Lecture Slides Instructor's Guide Sample Course Syllabus Quiz & Exam Questions Case Scenarios/Handouts

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About the Series This book is part of the Information Systems Security and Assurance Series from Jones and Bartlett Learning. Designed for courses and curriculums in IT Security, Cybersecurity, Information Assurance, and Information Systems Security, this

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series features a comprehensive, consistent treatment of the most current thinking and trends in this critical subject area. These titles deliver fundamental information-security principles packed with real-world applications and examples. Authored

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by Certified Information Systems Security Professionals (CISSPs), they deliver comprehensive information on all aspects of information security. Reviewed word for word by leading technical experts in the field, these books are not just current, but forward-

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thinking—putting you in the position to solve the cybersecurity challenges not just of today, but of tomorrow, as well. Plan and deploy identity-based secure access for BYOD and borderless networks Using Cisco Secure Unified Access Architecture and Cisco Identity

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Services Engine, you can secure and regain control of borderless networks in a Bring Your Own Device (BYOD) world. This book covers the complete lifecycle of protecting a modern borderless network using these advanced solutions, from planning an

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architecture through deployment, management, and troubleshooting. Cisco ISE for BYOD and Secure Unified Access begins by reviewing the business case for an identity solution. Next, you'll walk through identifying users, devices, and security

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posture; gain a deep understanding of Cisco's Secure Unified Access solution; and master powerful techniques for securing borderless networks, from device isolation to protocol-independent network segmentation. You'll find in-depth

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coverage of all relevant technologies and techniques, including 802.1X, profiling, device onboarding, guest lifecycle management, network admission control, RADIUS, and Security Group Access. Drawing on their cutting-edge experience

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supporting Cisco enterprise customers, the authors present detailed sample configurations to help you plan your own integrated identity solution.

Whether you're a technical professional or an IT manager, this guide will help you provide reliable secure access for

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BYOD, CYOD (Choose Your Own Device), or any IT model you choose. Review the new security challenges associated with borderless networks, ubiquitous mobility, and consumerized IT Understand the building blocks of an Identity Services Engine (ISE)

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solution Design an ISE-Enabled network, plan/distribute ISE functions, and prepare for rollout Build context-aware security policies Configure device profiling, endpoint posture assessments, and guest services Implement secure guest lifecycle

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management, from WebAuth to sponsored guest access Configure ISE, network access devices, and supplicants, step-by-step Walk through a phased deployment that ensures zero downtime Apply best practices to avoid the pitfalls of BYOD secure access

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Simplify administration with self-service onboarding and registration
Deploy Security Group Access, Cisco's tagging enforcement solution Add Layer 2 encryption to secure traffic flows Use Network Edge Access Topology to extend secure access

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beyond the wiring closet Monitor, maintain, and troubleshoot ISE and your entire Secure Unified Access system

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for

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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

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quizzes * Review key concepts with exam preparation tasks This is the eBook edition of the CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide. This eBook does not include access to the Pearson Test Prep practice exams that comes with

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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

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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

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ENCOR 350-401 Official Cert Guide focuses specifically on the objectives for the Cisco CCNP/CCIE ENCOR 350-401 exam. Networking experts Brad Edgeworth, Ramiro Garza Rios, Dave Hucaby, and Jason Gooley share preparation hints and test-taking tips,

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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

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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

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know thoroughly * Practice exercises that help you enhance your knowledge
* 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

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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

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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 *

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Virtualization * Network assurance *
Security * Automation
Designing Networks and Services for
the Cloud Delivering business-grade
cloud applications and services A
rapid, easy-to-understand approach to
delivering a secure, resilient, easy-to-

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manage, SLA-driven cloud experience
Designing Networks and Services for the Cloud helps you understand the design and architecture of networks and network services that enable the delivery of business-grade cloud services. Drawing on more than 40

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years of experience in network and cloud design, validation, and deployment, the authors demonstrate how networks spanning from the Enterprise branch/HQ and the service provider Next-Generation Networks (NGN) to the data center fabric play a

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key role in addressing the primary inhibitors to cloud adoption—security, performance, and management complexity. The authors first review how virtualized infrastructure lays the foundation for the delivery of cloud services before delving into a primer

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on clouds, including the management of cloud services. Next, they explore key factors that inhibit enterprises from moving their core workloads to the cloud, and how advanced networks and network services can help businesses migrate to the cloud with confidence.

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You'll find an in-depth look at data center networks, including virtualization-aware networks, virtual network services, and service overlays. The elements of security in this virtual, fluid environment are discussed, along with techniques for optimizing and

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accelerating the service delivery. The book dives deeply into cloud-aware service provider NGNs and their role in flexibly connecting distributed cloud resources, ensuring the security of provider and tenant resources, and enabling the optimal placement of

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cloud services. The role of Enterprise networks as a critical control point for securely and cost-effectively connecting to high-performance cloud services is explored in detail before various parts of the network finally come together in the definition and

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delivery of end-to-end cloud SLAs. At the end of the journey, you preview the exciting future of clouds and network services, along with the major upcoming trends. If you are a technical professional or manager who must design, implement, or operate cloud or

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NGN solutions in enterprise or service-provider environments, this guide will be an indispensable resource. *

Understand how virtualized data-center infrastructure lays the groundwork for cloud-based services * Move from distributed virtualization to "IT-as-a-

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service" via automated self-service portals * Classify cloud services and deployment models, and understand the actors in the cloud ecosystem * Review the elements, requirements, challenges, and opportunities associated with network services in the cloud *

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Optimize data centers via network segmentation, virtualization-aware networks, virtual network services, and service overlays * Systematically secure cloud services * Optimize service and application performance * Plan and implement NGN

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infrastructure to support and accelerate cloud services * Successfully connect enterprises to the cloud * Define and deliver on end-to-end cloud SLAs * Preview the future of cloud and network services

The The Complete VMware vSphere

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Guide

Design a virtualized data center with
VMware vSphere 6.7

I/O Consolidation in the Data Center
Guide to Designing and Implementing
Wireless LANs

Exam 640-553

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Jeff Duntemann's Wi-Fi Guide

A complete study guide for the new CCNA Security certification exam In keeping with its status as the leading publisher of CCNA study guides, Sybex

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introduces the complete guide to the new CCNA security exam. The CCNA Security certification is the first step towards Cisco's new Cisco Certified Security Professional (CCSP) and

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Cisco Certified Internetworking Engineer-Security. CCNA Security Study Guide fully covers every exam objective. The companion CD includes the Sybex Test Engine,

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flashcards, and a PDF of the book. The CCNA Security certification is the first step toward Cisco's new CCSP and Cisco Certified Internetworking Engineer-Security Describes security

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threats facing modern network infrastructures and how to mitigate threats to Cisco routers and networks using ACLs Explores implementing AAA on Cisco routers and secure network

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management and reporting Shows how to implement Cisco IOS firewall and IPS feature sets plus site-to-site VPNs using SDM CD includes the Sybex Test Engine, flashcards, and the

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book in PDF format With hands-on labs and end-of-chapter reviews, CCNA Security Study Guide thoroughly prepares you for certification. Note: CD-ROM/DVD and other

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supplementary materials are not included as part of eBook file.

The definitive guide to UCS and the Cisco® Data Center Server: planning, architecture, components,

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***deployment, and benefits
With its new Unified
Computing System (UCS)
family of products, Cisco
has introduced a
fundamentally new vision
for data center computing:***

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one that reduces ownership cost, improves agility, and radically simplifies management. In this book, three Cisco insiders thoroughly explain UCS, and offer practical insights

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for IT professionals and decision-makers who are evaluating or implementing it. The authors establish the context for UCS by discussing the implications of virtualization, unified

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I/O, large memories and other key technologies, and showing how trends like cloud computing and green IT will drive the next-generation data center. Next, they take a closer

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look at the evolution of server CPU, memory, and I/O subsystems, covering advances such as the Intel® XEON® 5500, 5600, 7500, DDR3 memory, and unified I/O over 10 Gbps Ethernet.

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Building on these fundamentals, the authors then discuss UCS in detail, showing how it systematically overcomes key limitations of current data center environments.

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They review UCS features, components, and architecture, and demonstrate how it can improve data center performance, reliability, simplicity, flexibility, and

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energy efficiency. Along the way, they offer realistic planning, installation, and migration guidance: everything decision-makers and technical implementers need to gain maximum

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value from UCS-now, and for years to come. Silvano Gai has spent 11 years as Cisco Fellow, architecting Catalyst®, MDS, and Nexus switches. He has written several books on

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networking, written multiple Internet Drafts and RFCs, and is responsible for 80 patents and applications. He teaches a course on this book's topics at Stanford

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University. Tommi Salli, Cisco Technical Marketing Engineer, has nearly 20 years of experience with servers and applications at Cisco, Sun, VERITAS, and Nuova Systems. Roger

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Andersson, Cisco Manager, Technical Marketing, spent more than 12 years in the CLARiiON® Engineering Division at EMC, and 5 years as Technical Product Manager at

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VERITAS/Symantec. He is now focused on Cisco UCS system management. Streamline data centers with UCS to systematically reduce cost of ownership Eliminate unnecessary

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server components-and their setup, management, power, cooling, and cabling Use UCS to scale service delivery, simplify service movement, and improve agility Review the latest

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advances in processor, memory, I/O, and virtualization architectures for data center servers
Understand the specific technical advantages of UCS Integrate UCS 6100

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Fabric Interconnect, Cisco UCS 2100 Series Fabric Extenders, UCS 5100 Series Blade Server Enclosures, UCS B-Series Blade Servers, UCS C-Series Rack Servers, and UCS Adapters Use

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Cisco UCS Manager to manage all Cisco UCS components as a single, seamless entity Integrate third-party management tools from companies like BMC® , CA® , EMC® , IBM® ,

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Microsoft® , and VMware® Practice all this with a copy of Cisco Unified Computing System™ Platform Emulator Lite (UCSPE Lite) on the DVD in the back of the book This book is part of the

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Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding

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IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data

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and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. The first book in the IT

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solid foundation in the art of infrastructure design.

The three autho

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Springer Handbook of

Systematic Musicology

Data Center Fundamentals

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***Security Policies and
Implementation Issues
Inside Cisco IOS Software
Architecture
CCNP Security Secure
642-637 Official Cert Guide
Cisco ISE for BYOD and***

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Secure Unified AccessCisco
Press

A hands-on guide to planning, designing, installing and configuring wireless LANs from two of the principal Wireless LAN vendors, Cisco

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and 3Com. Extensive step-by-step coverage of implementation and troubleshooting is reinforced with hands-on projects at the end of each chapter.

Objectives The purpose of Top-

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Down Network Design, Third Edition, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another department within your own

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company or an external client, this book provides you with tested processes and tools to help you understand traffic flow, protocol behavior, and internetworking technologies. After completing this book,

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you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability, scalability, affordability, security, and manageability.

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Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium- to large-sized enterprise networks. If you are a network engineer, architect,

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or technician who has a working knowledge of network protocols and technologies, this book will provide you with practical advice on applying your knowledge to internetwork design. This

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book also includes useful information for consultants, systems engineers, and sales engineers who design corporate networks for clients. In the fast-paced presales environment of many systems

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engineers, it often is difficult to slow down and insist on a top-down, structured systems analysis approach. Wherever possible, this book includes shortcuts and assumptions that can be made to speed up

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the network design process. Finally, this book is useful for undergraduate and graduate students in computer science and information technology disciplines. Students who have taken one or two courses

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in networking theory will find Top-Down Network Design, Third Edition, an approachable introduction to the engineering and business issues related to developing real-world networks that solve typical

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business problems. Changes for the Third Edition Networks have changed in many ways since the second edition was published. Many legacy technologies have disappeared and are no longer

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covered in the book. In addition, modern networks have become multifaceted, providing support for numerous bandwidth-hungry applications and a variety of devices, ranging from smart

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phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device, and to let them securely collaborate with coworkers, friends, and family.

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Networks today support voice, video, high-definition TV, desktop sharing, virtual meetings, online training, virtual reality, and applications that we can't even imagine that brilliant college students

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are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a systematic approach to network design is even more important than

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ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The third edition features review questions and design scenarios at the end of each

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chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of Top-Down Network Design also has updated material on the following

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topics: ; Network redundancy
; Modularity in network designs
; The Cisco SAFE security reference architecture
; The Rapid Spanning Tree Protocol (RSTP) ; Internet Protocol version 6 (IPv6) ;

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Ethernet scalability options, including 10-Gbps Ethernet and Metro Ethernet ; Network design and management tools Using Fibre Channel over Ethernet (FCoE) and related technologies, data centers can

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consolidate data traffic onto a single network switch, simplifying their environments, promoting virtualization, and substantially reducing power and cooling costs. This

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emerging technology is drawing immense excitement, but few enterprise IT decision-makers and implementers truly understand it. I/O Consolidation in the Data Center is the only complete,

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up-to-date guide to FCoE. FCoE innovators Silvano Gai and Claudio DeSanti (chair of the T11 FCoE standards working group) systematically explain the technology: its benefits, tradeoffs, and what it

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will take to implement it successfully in production environments. Unlike most other discussions of FCoE, this book fully reflects the final, recently-approved industry standard. The authors

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also present five detailed case studies illustrating typical FCoE adoption scenarios, as well as an extensive Q and A section addressing the issues enterprise IT professionals raise most often. This is a fully

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updated version of Silvano Gai's privately-published book on FCoE, written for leading FCoE pioneer Nuova Systems before the company was acquired by Cisco. Nearly 12,000 copies of that book

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have already been distributed, demonstrating the immense interest in FCoE technology, and the scarcity of reliable information that has existed about it.

Cisco Wireless LAN Security

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Cisco Unified Computing System (UCS) (Data Center)
Investigating and Analyzing Malicious Network Activity
PCI Design Handbook
FPGAs

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Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is

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beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of

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BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various

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professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook,

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Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Plan and deploy identity-based secure

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*access for BYOD and borderless networks
Using Cisco Secure Unified Access
Architecture and Cisco Identity Services
Engine, you can secure and regain control
of borderless networks in a Bring Your Own
Device (BYOD) world. This book covers the
complete lifecycle of protecting a modern
borderless network using these advanced*

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solutions, from planning an architecture through deployment, management, and troubleshooting. Cisco ISE for BYOD and Secure Unified Access begins by reviewing the business case for an identity solution. Next, you'll walk through identifying users, devices, and security posture; gain a deep understanding of Cisco's Secure Unified

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Access solution; and master powerful techniques for securing borderless networks, from device isolation to protocol-independent network segmentation. You'll find in-depth coverage of all relevant technologies and techniques, including 802.1X, profiling, device onboarding, guest lifecycle management, network admission

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control, RADIUS, and Security Group Access. Drawing on their cutting-edge experience supporting Cisco enterprise customers, the authors present detailed sample configurations to help you plan your own integrated identity solution. Whether you're a technical professional or an IT manager, this guide will help you provide

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reliable secure access for BYOD, CYOD (Choose Your Own Device), or any IT model you choose. Review the new security challenges associated with borderless networks, ubiquitous mobility, and consumerized IT Understand the building blocks of an Identity Services Engine (ISE) solution Design an ISE-Enabled network,

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plan/distribute ISE functions, and prepare for rollout Build context-aware security policies Configure device profiling, endpoint posture assessments, and guest services Implement secure guest lifecycle management, from WebAuth to sponsored guest access Configure ISE, network access devices, and supplicants, step-by-step Walk

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through a phased deployment that ensures zero downtime Apply best practices to avoid the pitfalls of BYOD secure access Simplify administration with self-service onboarding and registration Deploy Security Group Access, Cisco's tagging enforcement solution Add Layer 2 encryption to secure traffic flows Use Network Edge Access Topology to

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extend secure access beyond the wiring closet Monitor, maintain, and troubleshoot ISE and your entire Secure Unified Access system

Field Programmable Gate Arrays (FPGAs) are currently recognized as the most suitable platform for the implementation of complex digital systems targeting an increasing

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number of industrial electronics applications. They cover a huge variety of application areas, such as: aerospace, food industry, art, industrial automation, automotive, biomedicine, process control, military, logistics, power electronics, chemistry, sensor networks, robotics, ultrasound, security, and artificial vision.

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This book first presents the basic architectures of the devices to familiarize the reader with the fundamentals of FPGAs before identifying and discussing new resources that extend the ability of the devices to solve problems in new application domains. Design methodologies are discussed and application examples are

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included for some of these domains, e.g., mechatronics, robotics, and power systems. This intensive, one-week study guide provides students with all the knowledge they need to excel on the CCNA/CCENT exam. This certification guide is designed to make even the most difficult Internet-working concepts easy to understand.

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CCNA Security Study Guide

Cisco Router and Switch Forensics

CCDA 640-864 Official Cert Guide

CCDP ARCH 300-320

*4 in 1: The Complete One-Week Preparation
for the CISCO CCENT/CCNA ICND1*

*Exam 640-822 with Three CISCO Simulated
Exams A Certification Guide Based over*

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2160 Sample Questions and Answers with Comprehensive Explanations Third Edition (Dec 2010)

Network World

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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

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Cisco CCDA 200-310 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCDA 200-310 Official Cert Guide.

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This eBook does not include the practice exam that comes with the print edition. CCDA 200-310 Official Cert Guide presents you with an organized test preparation routine through the use of

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proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make

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referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCDA 200-310 Official Cert Guide focuses specifically on the objectives

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for the newest Cisco CCDA DESGN exam. Expert networking consultants Anthony Bruno and Steve Jordan share preparation hints and test-taking tips, helping you identify areas of weakness

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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.

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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

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concepts and techniques that will allow you to succeed on the exam the first time. The official study guide helps you master all the topics on the new CCDA DESGN exam, including: Design

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methodologies, including PBM, network characterization, and top-down/bottom-up approaches
Design objectives: modularity, hierarchy, scalability, resilience, fault domains

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Addressing and routing protocols in existing networks
Enterprise network design: campus, enterprise, and branch
Expanding existing networks: wireless, security, collaboration, virtualization,

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programmability, data centers, and more CCDA 200-310 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco

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Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning

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Partners worldwide, please visit <http://www.cisco.com/web/learning/index.html>

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test

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software that accompanies the print book. Learn, prepare, and practice for CCNA Cyber Ops SECOPS #210-255 exam success with this Official Cert Guide from Pearson IT Certification, a leader in IT

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Certification learning. Master CCNA Cyber Ops SECOPS #210-255 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks CCNA Cyber

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Ops SECOPS 210-255 Official Cert Guide is a best-of-breed exam study guide. Best-selling authors and internationally respected cybersecurity experts Omar Santos and Joseph Muniz share

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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

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increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists

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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

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preparation chapter guides you through tools and resources to help you craft your final study plan. Well-regarded for its level of detail, assessment features, and challenging review questions

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and exercises, this study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The study guide helps you master all the topics on the SECOPS

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#210-255 exam, including:
Threat analysis Forensics
Intrusion analysis NetFlow for
cybersecurity Incident
response and the incident
handling process Incident
response teams Compliance

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frameworks Network and host
profiling Data and event
analysis Intrusion event
categories
CCDA Official Cert Guide, Fifth
Edition is a comprehensive
self-study tool for preparing

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for the new DESGN exam. Complete coverage of all exam topics as posted on the exam topic blueprint ensures readers will arrive at a thorough understanding of what they need to master to

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succeed on the exam. The book follows a logical organization of the DESGN exam objectives. Material is presented in a concise manner, focusing on increasing readers' retention

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and recall of exam topics. Readers will organize their exam preparation through the use of the consistent features in these chapters, including: Pre-chapter "Do I Know This Already?" quizzes Foundation

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Topics Key Topics Exam
Preparation Final Preparation
Chapter CD-ROM Practice Test
Explore the benefits of
VMware vSphere 6.7 to
provide a powerful, flexible,
and secure virtual

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infrastructure, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent

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Key Features Design, deploy and manage VMware vSphere virtual data centers Implement monitoring and security of VMware workloads with ease Explore tips and techniques for designing a

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robust virtual infrastructureBook Description vSphere 6.7 is the latest release of VMware's industry-leading virtual cloud platform. By understanding how to manage, secure, and scale

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apps with vSphere 6.7, you can easily run even the most demanding of workloads. This Learning Path begins with an overview of the features of the vSphere 6.7 suite. You'll learn how to plan and design a

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virtual infrastructure. You'll also gain insights into best practices to efficiently configure, manage, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-

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performance storage access, such as remote direct memory access (RDMA) and Persistent memory. The book will even guide you in securing your network with security features, such as encrypted vMotion

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and VM-level encryption. Finally, by learning how to apply Proactive High Availability and Predictive Distributed Resource Scheduler (DRS), you'll be able to achieve enhanced

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computing, storage, network, and management capabilities for your virtual data center. By the end of this Learning Path, you'll be able to build your own VMware vSphere lab that can run high workloads. This

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Learning Path includes content from the following Packt products: VMware vSphere 6.7 Data Center Design Cookbook - Third Edition by Mike Brown and Hersey CartwrightMastering

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VMware vSphere 6.7 - Second Edition by Martin Gavanda, Andrea Mauro, Karel Novak, and Paolo Valsecchi
What you will learn
Understand how to patch, upgrade, and manage a virtual environment with

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vSphere 6.7 Identify key factors related to a vSphere design Mitigate security risks and meet compliance requirements in a vSphere design Create a vSphere conceptual design by

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identifying technical and business requirements
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Who this book

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is for This Learning Path is for administrators, infrastructure engineers, consultants, and architects who want to design virtualized data center environments using VMware vSphere 6.x (or previous

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versions of vSphere and the supporting components). Basic knowledge of VMware vSphere is required to get the most out of this Learning Path. Designing Cisco Network Service Architectures (ARCH)

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Foundation Learning Guide
The Next-Generation
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CCNP and CCIE Enterprise
Core ENCOR 350-401 Official
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200-310

Network Security Auditing

Cisco ISE for BYOD and

Secure Unified Access

This Cisco text offers study tools for Cisco certification exam preparation, with tutorial learning

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of all topics for the relevant exam and self-assessment pedagogical tools. Chapters are written in modular fashion, breaking down the topics covered into easily absorbed blocks of information.

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This complete new guide to auditing network security is an indispensable resource for security, network, and IT professionals, and for the consultants and technology partners who serve them. Cisco

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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

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segment security architectures into domains and measure security effectiveness through a comprehensive systems approach. Network Security Auditing thoroughly covers the use of both commercial and

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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

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Designing Cisco Network Service Architectures (ARCH) Foundation Learning Guide, Third Edition, is a

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examples that are necessary to design converged enterprise networks. Advanced network infrastructure technologies, such as virtual private networks (VPNs) and other security solutions are also covered.

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Designing Cisco Network Service Architectures (ARCH) Foundation Learning Guide, Third Edition teaches you the latest development in network design and technologies, including network infrastructure,

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as network management. Chapter-ending review questions illustrate and help solidify the concepts presented in the book. Whether you are preparing for CCDP certification or simply want to gain a better

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understanding of designing scalable and reliable network architectures, you will benefit from the foundation information presented in this book.

Designing Cisco Network Service Architectures (ARCH)

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ning. John Tiso, CCIE No. 5162, CCDP is a Product Manager for Cisco Systems. He holds a B.S. Degree in Computer Science and Mathematics from Adelphi University and a Graduate Citation in Strategic

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Management from Harvard University. John is a published author, has served as a technical editor for Cisco Press, and has participated as a SME for the CCIE program. Prior to Cisco, he was a senior consultant and

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details. This is Cisco's official, comprehensive self-study resource for preparing for the new CCNP Security SECURE exam. Designed for intermediate-to-advanced level readers, it covers every objective concisely and

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organization's business strategy. Cloud based services have evolved from simple file sharing, email and messaging utilities in the past, to the current situation, where their improved technical capabilities and

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SLAs make running mission-critical applications such as SAP possible. However, IT professionals must take due care when deploying SAP in a public, private or hybrid cloud environment. As a foundation for core business operations,

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SAP cloud deployments must satisfy stringent requirements concerning their performance, scale and security, while delivering measurable improvements in IT efficiency and cost savings. The 2nd edition of “SAP on

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the Cloud” continues the work of its successful predecessor released in 2013, providing updated guidance for deploying SAP in public, private and hybrid clouds. To do so, it discusses the technical requirements and

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considerations necessary for IT professionals to successfully implement SAP software in a cloud environment, including best-practice architectures for IaaS, PaaS and SaaS deployments. The section on

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threats are a significant concern, it also explores appropriate security models for defending SAP cloud deployments against modern and sophisticated attacks. The reader will gain the insights needed to

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guide to Cisco Identity Services Engine solutions Using Cisco Secure Access Architecture and Cisco Identity Services Engine, you can secure and gain control of access to your networks in a Bring Your Own Device

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(BYOD) world. This second edition of Cisco ISE for BYOD and Secure Unified Access contains more than eight brand-new chapters as well as extensively updated coverage of all the previous topics in the first edition book

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to reflect the latest technologies, features, and best practices of the ISE solution. It begins by reviewing today's business case for identity solutions. Next, you walk through ISE foundational topics and ISE

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design. Then you explore how to build an access security policy using the building blocks of ISE. Next are the in-depth and advanced ISE configuration sections, followed by the troubleshooting and

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monitoring chapters. Finally, we go in depth on the new TACACS+ device administration solution that is new to ISE and to this second edition. With this book, you will gain an understanding of ISE configuration, such as

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identifying users, devices, and security posture; learn about Cisco Secure Access solutions; and master advanced techniques for securing access to networks, from dynamic segmentation to guest access and

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everything in between. Drawing on their cutting-edge experience supporting Cisco enterprise customers, the authors offer in-depth coverage of the complete lifecycle for all relevant ISE solutions, making this book a

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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

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specifically on the objectives for the Cisco CCDA DESGN exam. Expert networking consultants Anthony Bruno and Steve Jordan share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills.

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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

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virtualization Wireless LAN design
WAN technologies and design IPv4
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scalable environments Plan site performance capacity with discussions of server farm architectures and their real-life applications to determine your system needs Today's market demands that businesses have an Internet presence through which they can perform e-commerce and

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customer support, and establish a presence that can attract and increase their customer base. Underestimated hit ratios, compromised credit card records, perceived slow Web site access, or the infamous "Object Not Found" alerts make the difference between a successful online presence

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and one that is bound to fail. These challenges can be solved in part with the use of data center technology.

Data centers switch traffic based on information at the Network, Transport, or Application layers. Content switches perform the "best server" selection process to direct users' requests for a

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specific service to a server in a server farm. The best server selection process takes into account both server load and availability, and the existence and consistency of the requested content. Data Center Fundamentals helps you understand the basic concepts behind the design and

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scaling of server farms using data center and content switching technologies. It addresses the principles and concepts needed to take on the most common challenges encountered during planning, implementing, and managing Internet and intranet IP-based server farms. An

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in-depth analysis of the data center technology with real-life scenarios make Data Center Fundamentals an ideal reference for understanding, planning, and designing Web hosting and e-commerce environments.

This unique reference book offers a holistic description of the multifaceted

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field of systematic musicology, which is the study of music, its production and perception, and its cultural, historical and philosophical background. The seven sections reflect the main topics in this interdisciplinary subject. The first two parts discuss musical acoustics and

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signal processing, comprehensively describing the mathematical and physical fundamentals of musical sound generation and propagation. The complex interplay of physiology and psychology involved in sound and music perception is covered in the following sections, with a particular

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focus on psychoacoustics and the recently evolved research on embodied music cognition. In addition, a huge variety of technical applications for professional training, music composition and consumer electronics are presented. A section on music ethnology completes this

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comprehensive handbook. Music theory and philosophy of music are imbedded throughout. Carefully edited and written by internationally respected experts, it is an invaluable reference resource for professionals and graduate students alike.

Cisco IOS (the software that runs the

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vast majority of Cisco routers and all Cisco network switches) is the dominant routing platform on the Internet and corporate networks. This widespread distribution, as well as its architectural deficiencies, makes it a valuable target for hackers looking to attack a corporate or private network

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infrastructure. Compromised devices can disrupt stability, introduce malicious modification, and endanger all communication on the network. For security of the network and investigation of attacks, in-depth analysis and diagnostics are critical, but no book currently covers forensic

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analysis of Cisco network devices in any detail. Cisco Router and Switch Forensics is the first book devoted to criminal attacks, incident response, data collection, and legal testimony on the market leader in network devices, including routers, switches, and wireless access points. Why is this

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focus on network devices necessary?
Because criminals are targeting networks, and network devices require a fundamentally different approach than the process taken with traditional forensics. By hacking a router, an attacker can bypass a network's firewalls, issue a denial of service

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(DoS) attack to disable the network, monitor and record all outgoing and incoming traffic, or redirect that communication anywhere they like. But capturing this criminal activity cannot be accomplished with the tools and techniques of traditional forensics. While forensic analysis of computers

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or other traditional media typically involves immediate shut-down of the target machine, creation of a duplicate, and analysis of static data, this process rarely recovers live system data. So, when an investigation focuses on live network activity, this traditional approach obviously fails.

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Investigators must recover data as it is transferred via the router or switch, because it is destroyed when the network device is powered down. In this case, following the traditional approach outlined in books on general computer forensics techniques is not only insufficient, but also essentially

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harmful to an investigation. Jargon buster: A network switch is a small hardware device that joins multiple computers together within one local area network (LAN). A router is a more sophisticated network device that joins multiple wired or wireless networks together. The only book devoted to

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forensic analysis of routers and switches, focusing on the operating system that runs the vast majority of network devices in the enterprise and on the Internet Outlines the fundamental differences between router forensics and traditional forensics, a critical distinction for

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responders in an investigation
targeting network activity Details
where network forensics fits within the
entire process of an investigation, end
to end, from incident response and
data collection to preparing a report
and legal testimony

Delivering Advanced Security

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Capabilities from Edge to Cloud for IoT
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Modeling for Owners, Designers,
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An essential guide to
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Understand the hardware architecture, packet buffering, and packet switching processes for the Cisco GSR 12000 series routers Further your knowledge of how IOS Software implements Quality of Service (QoS) Inside

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Cisco IOS Software Architecture offers crucial and hard-to-find information on Cisco's Internetwork Operating System (IOS) Software. IOS Software provides the means by which networking professionals

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configure and manage Cisco networking devices. Beyond understanding the Cisco IOS command set, comprehending what happens inside Cisco routers will help you as a network designer or engineer to

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perform your job more effectively. By understanding the internal operations of IOS Software, you will be able to take architectural considerations into account when designing networks and isolate problems

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more easily when troubleshooting networks. Inside Cisco IOS Software Architecture provides essential information on the internal aspects of IOS Software at this level, and it is an invaluable resource for better

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understanding the intricacies of IOS Software and how it affects your network. Inside Cisco IOS Software Architecture begins with an overview of operating system concepts and the IOS Software infrastructure, including

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processes, memory management, CPU scheduling, packet buffers, and device drivers, as well as a discussion of packet switching architecture with detailed coverage of the various platform-independent

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switching methods, including process switching, fast switching, optimum switching, and Cisco Express Forwarding (CEF). The book then delves into the intricate details of the design and operation of platform-specific

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features, including the 1600, 2500, 4x00, 3600, 7200, 7500, and GSR Cisco routers. Finally, an overview of IOS Quality of Service (QoS) is provided, including descriptions of several QoS methods, such as priority

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queuing, custom queuing, weighted fair queuing, and modified deficit round robin.

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Review key concepts with exam preparation tasks CCNP Security SECURE 642-637 Official Cert Guide focuses specifically on the objectives for the CCNP Security SECURE exam. Senior networking consultants Sean

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Wilkins and Trey Smith 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,

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security 802.1X and identity-
based networking services Cisco
IOS routed data plane security
Cisco IOS control plane security
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firewalls IOS intrusion prevention
system Cisco IOS site-to-site
security solutions IPsec VPNs,
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a leading Cisco® expert, this book offers practical, hands-on coverage for the entire system lifecycle, including planning, setup and configuration, migration, and day-to-day management. Muhammad Afaq

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Khan systematically introduces the ASR 1000 ' s evolved architecture, showing how the ASR 1000 can deliver major performance and availability improvements in tomorrow ' s complex, collaborative, mobile,

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and converged network environments. Then, to help you plan your network deployments more effectively, the author walks you through realistic deployment scenarios for IP routing, IP services, WAN

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CCDP foundation learning. This book provides you with the knowledge needed to perform the conceptual, intermediate, and detailed design of a network infrastructure that

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supports desired network solutions over intelligent network services to achieve effective performance, scalability, and availability. This book presents concepts and

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examples necessary to design converged enterprise networks. You learn additional aspects of modular campus design, advanced routing designs, WAN service designs,

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enterprise data center design, IP multicast design, and security design. Advanced and modern network infrastructure solutions, such as virtual private

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networks (VPN), Cisco Intelligent WAN (IWAN), and Cisco Application-Centric Infrastructure (ACI), are also covered. Chapter-ending review questions illustrate and

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help solidify the concepts presented in the book.

Whether you are preparing for CCDP certification or CCDE certification, or simply want to gain a better understanding of

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designing scalable and reliable network architectures, you will benefit from the foundation information presented in this book. Designing for Cisco

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Network Service
Architectures (ARCH)
Foundation Learning Guide,
Fourth Edition, is part of
a recommended learning
path from Cisco that
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hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on

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instruction offered by authorized Cisco Learning Partners worldwide, please visit <https://learningnetwork.cisco.com>. Category: Cisco Certification
Covers: CCDP ARCH 300-320

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Master powerful techniques and approaches for securing IoT systems of all kinds—current and emerging Internet of Things (IoT) technology adoption is accelerating,

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but IoT presents complex new security challenges. Fortunately, IoT standards and standardized architectures are emerging to help technical professionals

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systematically harden their IoT environments. In *Orchestrating and Automating Security for the Internet of Things*, three Cisco experts show how to safeguard current

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and future IoT systems by delivering security through new NFV and SDN architectures and related IoT security standards. The authors first review the current state of IoT

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networks and architectures, identifying key security risks associated with nonstandardized early deployments and showing how early adopters have

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attempted to respond.
Next, they introduce more mature architectures built around NFV and SDN. You'll discover why these lend themselves well to IoT and IoT security, and master

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advanced approaches for protecting them. Finally, the authors preview future approaches to improving IoT security and present real-world use case examples. This is an

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indispensable resource for all technical and security professionals, business security and risk managers, and consultants who are responsible for systems that incorporate

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or utilize IoT devices, or expect to be responsible for them.

- Understand the challenges involved in securing current IoT networks and architectures
- Master IoT security

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fundamentals, standards,
and modern best practices
· Systematically plan for
IoT security · Leverage
Software-Defined
Networking (SDN) and
Network Function

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Virtualization (NFV) to harden IoT networks . Deploy the advanced IoT platform, and use MANO to manage and orchestrate virtualized network functions . Implement

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platform security services including identity, authentication, authorization, and accounting . Detect threats and protect data in IoT environments .

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Secure IoT in the context of remote access and VPNs

- Safeguard the IoT platform itself
- Explore use cases ranging from smart cities and advanced energy systems to the

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connected car . Preview
evolving concepts that
will shape the future of
IoT security