

Cisco Tms User Guide

••PCI EXPRESS is considered to be the most general purpose bus so it should appeal to a wide audience in this arena.•Today's buses are becoming more specialized to meet the needs of the particular system applications, building the need for this book.•Mindshare and their only competitor in this space, Solari, team up in this new book.

This is the eBook version of the printed book. Note that the eBook does not provide access to the practice test software that accompanies the print book. CCNP Security IPS 642-627 Official Cert Guide is a best-of-breed Cisco exam study guide that focuses specifically on the objectives for the CCNP Security IPS exam. Senior security engineers David Burns, Odunayo Adesina, and Keith Barker 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. Learn, prepare, and practice for exam success Master CCNP Security IPS 642-627 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks CCNP Security IPS 642-627 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. Well-regarded for its level of detail, assessment features, 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. CCNP Security IPS 642-627 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and 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 instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com/go/authorizedtraining. The official study guide helps you master all the topics on the CCNP Security IPS exam, including Cisco IPS software, hardware, and supporting applications Network IPS and IDS deployment architecture Installing and maintaining Cisco IPS physical and virtual sensors Traffic analysis IPS signatures and responses Anomaly-based operations Improving alarm response and quality Managing and analyzing events High availability and performance IPS modules for ASAs, routers, and switches Design, configure, and manage MPLS TE to optimize network performance Almost every busy network backbone has some congested links while others remain underutilized. That's because shortest-path routing protocols send traffic down the path that is shortest without considering other network parameters, such as utilization and traffic demands. Using Traffic Engineering (TE), network operators can redistribute packet flows to attain more uniform distribution across all links. Forcing traffic onto specific pathways allows you to get the most out of your existing network capacity while making it easier to deliver consistent service levels to customers at the same time. Cisco(r) Multiprotocol Label Switching (MPLS) lends efficiency to very large networks, and is the most effective way to implement TE. MPLS TE routes traffic flows across the network by aligning resources required by a given flow with actual backbone capacity and topology. This constraint-based routing approach feeds the network route traffic down one or more pathways, preventing unexpected congestion and enabling recovery from link or node failures. Traffic Engineering with MPLS provides you with information on how to use MPLS TE and associated features to maximize network bandwidth. This book focuses on real-world applications, from design scenarios to feature

configurations to tools that can be used in managing and troubleshooting MPLS TE. Assuming some familiarity with basic label operations, this guide focuses mainly on the operational aspects of MPLS TE-how the various pieces work and how to configure and troubleshoot them. Additionally, this book addresses design and scalability issues along with extensive deployment tips to help you roll out MPLS TE on your own network. Understand the background of TE and MPLS, and brush up on MPLS forwarding basics Learn about router information distribution and how to bring up MPLS TE tunnels in a network Understand MPLS TE's Constrained Shortest Path First (CSPF) and mechanisms you can use to influence CSPF's path calculation Use the Resource Reservation Protocol (RSVP) to implement Label-Switched Path setup Use various mechanisms to forward traffic down a tunnel Integrate MPLS into the IP quality of service (QoS) spectrum of services Utilize Fast Reroute (FRR) to mitigate packet loss associated with link and node failures Understand Simple Network Management Protocol (SNMP)-based measurement and accounting services that are available for MPLS Evaluate design scenarios for scalable MPLS TE deployments Manage MPLS TE networks by examining common configuration mistakes and utilizing tools for troubleshooting MPLS TE problems "Eric and Ajay work in the development group at Cisco that built Traffic Engineering. They are among those with the greatest hands-on experience with this application. This book is the product of their experience." -George Swallow, Cisco Systems, Architect for Traffic Engineering Co-Chair, IETF MPLS Working Group Eric Osborne, CCIE(r) #4122, has been doing Internet engineering of one sort or another since 1995. He joined Cisco in 1998 to work in the Cisco Technical Assistance Center (TAC), moved from there to the ISP Expert team and then to the MPLS Deployment team. He has been involved in MPLS since the Cisco IOS(r) Software Release 11.1CT days. Ajay Simha, CCIE #2970, joined the Cisco TAC in 1996. He then went on to support tier 1 and 2 ISPs as part of Cisco's ISP Expert team. Ajay has been working as an MPLS deployment engineer since October 1999, and he has first-hand experience in

This open access book constitutes the proceedings of the 20th International Conference on Agile Software Development, XP 2019, held in Montreal, QC, Canada, in May 2019. XP is the premier agile software development conference combining research and practice. It is a hybrid forum where agile researchers, academics, practitioners, thought leaders, coaches, and trainers get together to present and discuss their most recent innovations, research results, experiences, concerns, challenges, and trends. Following this history, for both researchers and seasoned practitioners XP 2019 provided an informal environment to network, share, and discover trends in Agile for the next 20 years The 15 full papers presented in this volume were carefully reviewed and selected from 45 submissions. They were organized in topical sections named: agile adoption, agile practices; large-scale agile; agility beyond IT, and the future of agile.

Dan the flying man receives a new expensive hat and throws out his old hat. Little does he realize how tough it can be to adjust to tricky new things.

Essence of Top Tasks is a prioritized list of what matters most to customers. You then continuously improve these top tasks based on evidence of customers trying to complete them. Developed as a result of 15 years of research and practice. Implemented by some of the world's largest organizations: Cisco, Microsoft, NetApp, IBM, Google, European Union, Toyota, Tetra Pak, and hundreds more. More than 300,000 customers have participated in Top Tasks studies in over 40 countries and 30 languages.

This IBM® Redbooks® publication covers IBM TS7700 R4.2. The IBM TS7700 is part of a family of IBM Enterprise tape products. This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation. Building on over 20 years of virtual tape experience, the TS7760 now supports the ability to store virtual tape volumes in an object store. The TS7700 has supported off loading to physical tape for over two decades. Off loading to physical tape behind a TS7700 is utilized by hundreds of

organizations around the world. Using the same hierarchical storage techniques, the TS7700 can also off load to object storage. Given object storage is cloud based and accessible from different regions, the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. As of the release of this document, the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3. To learn about the TS7760 cloud storage tier function, planning, implementation, best practices, and support see IBM Redpaper IBM TS7760 R4.2 Cloud Storage Tier Guide, redp-5514 at: <http://www.redbooks.ibm.com/abstracts/redp5514.html> The IBM TS7700 offers a modular, scalable, and high-performance architecture for mainframe tape virtualization for the IBM Z® environment. It is a fully integrated, tiered storage hierarchy of disk and tape. This storage hierarchy is managed by robust storage management microcode with extensive self-management capability. It includes the following advanced functions: Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost, time, and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries, drives, and media TS7700 delivers the following new capabilities: TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8-way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4.8GB/s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high-capacity, high-performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library. The TS7760 models are based on high-performance and redundant IBM POWER8® technology. They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700.

This IBM® Redbooks® publication covers IBM TS7700 R5.1. The IBM TS7700 is part of a family of IBM Enterprise tape products. This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation. Building on over 20 years of virtual tape experience, the TS7770 supports the ability to store virtual tape volumes in an object store. The TS7700 supported off loading to physical tape for over two decades. Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world. By using the same hierarchical storage techniques, the TS7700 (TS7770 and TS7760) can also off load to object storage. Because object storage is cloud-based and accessible from different regions, the TS7700 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. As of this writing, the TS7700C supports the ability to off load to IBM Cloud® Object Storage and Amazon S3. This publication explains features and concepts that are specific to the IBM TS7700 as of release R5.1. The R5.1 microcode level provides IBM TS7700 Cloud Storage Tier enhancements, IBM DS8000® Object Storage enhancements, Management Interface dual control security, and other smaller enhancements. The R5.1 microcode level can be installed on the IBM TS7770 and IBM TS7760 models only. TS7700 provides tape virtualization for the IBM z environment. Tape virtualization can help satisfy the following requirements in a data processing

environment: Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost, time, and complexity by moving primary workloads to virtual tape Increased efficient procedures for managing daily batch, backup, recall, and restore processing On-premises and off-premises object store cloud storage support as an alternative to physical tape for archive and disaster recovery New and existing capabilities of the TS7700 5.1 include the following highlights: Eight-way Grid Cloud, which consists of up to three generations of TS7700 Synchronous and asynchronous replication Full AES256 encryption for replication data that is in-flight and at-rest Tight integration with IBM Z and DFSMS policy management Optional target for DS8000 Transparent Cloud Tier using DFSMS DS8000 Object Store AES256 in-flight encryption and compression Optional Cloud Storage Tier support for archive and disaster recovery 16 Gb IBM FICON® throughput up to 5 GBps per TS7700 cluster IBM Z hosts view up to 3,968 common devices per TS7700 grid Grid access to all data independent of where it exists TS7770 Cache On-demand feature that is based capacity licensing TS7770 support of SSD within the VED server The TS7700T writes data by policy to physical tape through attachment to high-capacity, high-performance IBM TS1150, and IBM TS1140 tape drives that are installed in an IBM TS4500 or TS3500 tape library. The TS7770 models are based on high-performance and redundant IBM POWER9™ technology. They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700.

Computer Incident Response and Product Security The practical guide to building and running incident response and product security teams Damir Rajnovic Organizations increasingly recognize the urgent importance of effective, cohesive, and efficient security incident response. The speed and effectiveness with which a company can respond to incidents has a direct impact on how devastating an incident is on the company's operations and finances. However, few have an experienced, mature incident response (IR) team. Many companies have no IR teams at all; others need help with improving current practices. In this book, leading Cisco incident response expert Damir Rajnović presents start-to-finish guidance for creating and operating effective IR teams and responding to incidents to lessen their impact significantly. Drawing on his extensive experience identifying and resolving Cisco product security vulnerabilities, the author also covers the entire process of correcting product security vulnerabilities and notifying customers. Throughout, he shows how to build the links across participants and processes that are crucial to an effective and timely response. This book is an indispensable resource for every professional and leader who must maintain the integrity of network operations and products—from network and security administrators to software engineers, and from product architects to senior security executives. -Determine why and how to organize an incident response (IR) team -Learn the key strategies for making the

case to senior management -Locate the IR team in your organizational hierarchy for maximum effectiveness -Review best practices for managing attack situations with your IR team -Build relationships with other IR teams, organizations, and law enforcement to improve incident response effectiveness -Learn how to form, organize, and operate a product security team to deal with product vulnerabilities and assess their severity -Recognize the differences between product security vulnerabilities and exploits -Understand how to coordinate all the entities involved in product security handling -Learn the steps for handling a product security vulnerability based on proven Cisco processes and practices -Learn strategies for notifying customers about product vulnerabilities and how to ensure customers are implementing fixes This security book is part of the Cisco Press Networking Technology Series. Security titles from Cisco Press help networking professionals secure critical data and resources, prevent and mitigate network attacks, and build end-to-end, self-defending networks.

Get the most out of your data by getting more out of Tableau Tableau Your Data! shows you how to build dynamic, best of breed visualizations using the Tableau Software toolset. This comprehensive guide covers the core feature set for data analytics, and provides clear step-by-step guidance toward best practices and advanced techniques that go way beyond the user manual. You'll learn how Tableau is different from traditional business information analysis tools, and how to navigate your way around the Tableau 9.0 desktop before delving into functions and calculations, as well as sharing with the Tableau Server. Coverage includes settings customization, data security, scaling, syntax, and more, with plenty of examples that simplify advanced techniques. Use cases demonstrate how Tableau is applied throughout the enterprise, so you can utilize these analysis tools across sales, marketing, operations, financials, and much more. The companion website features actual working models of the book's visualizations, plus a host of useful links to web-based resources that can help you customize your Tableau experience. Tableau is designed specifically to provide fast and easy visual analytics. The intuitive drag-and-drop interface helps you create interactive reports, dashboards, and visualizations, all without any special or advanced training. This book is your Tableau companion, helping you get the most out of this invaluable business toolset. Analyze data more effectively with Tableau Desktop Deploy visualizations to consumers throughout the enterprise Understand Tableau functions and calculations Leverage Tableau across every link in the value chain You need to make sense of your data before you can use it effectively to make good business decisions. Tableau helps you unlock the stories within the numbers, and Tableau Your Data! puts the software's full functionality right at your fingertips.

&> 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 CCNA Collaboration CIVND 210-065 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNA Collaboration CIVND 210-065 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNA Collaboration CIVND 210-065 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert Cisco Collaboration engineers Brian Morgan and Jason Ball share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes A test-preparation routine proven to help you pass the exam "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 The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports 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, 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. CCNA Collaboration CIVND 201-065 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and 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 instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com. The official study guide helps you master topics on the CCNA Collaboration CIVND 210-065 exam, including the following: Cisco Collaboration components and architecture Cisco Digital Media Suite, Digital Signs, Cisco Cast, and Show and Share Cisco video surveillance components and architectures Cisco IP Phones, desktop units, and Cisco Jabber Cisco TelePresence endpoint portfolio Cisco Edge Architecture including Expressway Multipoint, multisite, and multiway video conferencing features Cisco TelePresence MCU hardware and server family Cisco TelePresence management Cisco WebEx solutions

The purpose of this book is to illustrate the magnificence of the fabless semiconductor ecosystem, and to give credit where credit is due. We trace the history of the semiconductor industry from both a technical and business perspective. We argue that the development of the fabless business model was a key enabler of the growth in semiconductors since the mid-1980s. Because business models, as much as the technology, are what keep us thrilled with new gadgets year after year, we focus on the evolution of the electronics business. We also invited key players in the industry to contribute

chapters. These “In Their Own Words” chapters allow the heavyweights of the industry to tell their corporate history for themselves, focusing on the industry developments (both in technology and business models) that made them successful, and how they in turn drive the further evolution of the semiconductor industry.

Now fully updated for the new Cisco CAPPs 300-085 exam, *Implementing Cisco Collaboration Applications (CAPPs) Foundation Learning Guide* is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches 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 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 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, integrate, and configure feature-rich branch office messaging solutions with Cisco Unity Express Explains Cisco Unified IM and Presence components, design, integration, deployment, and feature configuration Covers Cisco Jabber and Cisco Jabber Mobile configuration Guides you through deploying Cisco Collaboration Systems Applications with Cisco Prime Collaboration Introduces Cisco TelePresence Management Suite (Cisco TMS) capabilities and scheduling options This book is in the Foundation Learning Guide Series. These guides are developed together with Cisco® as the only authorized, self-paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams.

Now fully updated for Cisco’s new CIPTV2 300-075 exam, *Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide* is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part

of the Cisco Press Foundation Learning Series, it teaches advanced skills for implementing a Cisco Unified Collaboration solution in a multisite environment. The authors show how to implement Uniform Resource Identifier (URI) dialing, globalized call routing, Intercluster Lookup Service and Global Dial Plan Replication, Cisco Service Advertisement Framework and Call Control Discovery, tail-end hop-off, Cisco Unified Survivable Remote Site Telephony, Enhanced Location Call Admission Control (CAC) and Automated Alternate Routing (AAR), and important mobility features. They introduce each key challenge associated with Cisco Unified Communications (UC) multisite deployments, and present solutions-focused coverage of Cisco Video Communication Server (VCS) Control, the Cisco Expressway Series, and their interactions with Cisco Unified Communications Manager. Each chapter opens with a topic list that clearly identifies its focus, ends with a quick-study summary of key concepts, and presents review questions to assess and reinforce your understanding. The authors present best practices based on Cisco Solutions Reference Network Designs and Cisco Validated Designs, and illustrate operation and troubleshooting via configuration examples and sample verification outputs. This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV2 300-075 exam. Shows how to craft a multisite dial plan that scales, allocates bandwidth appropriately, and supports QoS Identifies common problems and proven solutions in multisite UC deployments Introduces best practice media architectures, including remote conferencing and centralized transcoding Thoroughly reviews PSTN and intersite connectivity options Shows how to provide remote site telephony and branch redundancy Covers bandwidth reservation at UC application level with CAC Explains how to plan and deploy Cisco Device Mobility, Extension Mobility, and Unified Mobility Walks through deployment of Cisco Video Communication Server and Expressway series, including user and endpoint provisioning Covers Cisco UCM and Cisco VCS interconnections Shows how to use Cisco UC Mobile and Remote Access Covers fallback methods for overcoming IP WAN failure Demonstrates NAT traversal for video and IM devices via VCS Expressway Introduces dynamic dial plan learning via GDPR, SAD, or CCD

Step-by-step, this book details how to use uploaded resources to ensure a quality and complete online course. It brings together contemporary research and empirical evidence to explain why one can use the suggested practical, tried-and-tested methods. With the help of an instructional designer, it is not necessary to be proficient with any Learning Management System (LMS). The simple three step plan outlined in this book involves identifying one's relevant learning outcomes, learning resources, and learning activities. Each step is clearly detailed, and the core material is supplemented with summaries and graphics throughout.

- This is the latest practice test to pass the 300-825 Implementing Cisco Collaboration Conferencing Exam. - It contains 59 Questions and Answers. - All the questions are 100% valid and stable. - You can reply on this practice test to pass the exam with a good mark and in the first attempt.

This IBM® Redbooks® publication provides a broad view of how Tivoli® system management products work together in several common scenarios. You must achieve seamless integration for operations personnel to work with the solution. This integration is necessary to ensure that the product can be used easily by the users. Product integration contains multiple dimensions, such as security, navigation, data and task integrations. Within the context of the scenarios in this book, you see examples of these integrations. The scenarios implemented in this book are largely based on the input from the integration team, and several clients using IBM products. We based these scenarios on common real-life examples that IT operations often have to deal with. Of course, these scenarios are only a small subset of the possible integration scenarios that can be accomplished by the Tivoli products, but they were chosen to be representative of the integration possibilities using the Tivoli products. We discuss these implementations and benefits that are realized by these integrations, and also provide sample scenarios of how these integrations work. This book is a reference guide for IT architects and IT specialists working on integrating Tivoli products in real-life environments.

Today more than 90% of all programmable processors are employed in embedded systems. The LISA processor design platform presented in this book addresses recent design challenges and results in highly satisfactory solutions, covering all major high-level phases of embedded processor design.

Take a practitioner's approach in analyzing the Internet of Things (IoT) devices and the security issues facing an IoT architecture. You'll review the architecture's central components, from hardware communication interfaces, such as UART and SPI, to radio protocols, such as BLE or ZigBee. You'll also learn to assess a device physically by opening it, looking at the PCB, and identifying the chipsets and interfaces. You'll then use that information to gain entry to the device or to perform other actions, such as dumping encryption keys and firmware. As the IoT rises to one of the most popular tech trends, manufacturers need to take necessary steps to secure devices and protect them from attackers. The IoT Hacker's Handbook breaks down the Internet of Things, exploits it, and reveals how these devices can be built securely. What You'll Learn Perform a threat model of a real-world IoT device and locate all possible attacker entry points Use reverse engineering of firmware binaries to identify security issues Analyze, assess, and identify security issues in exploited ARM and MIPS based binaries Sniff, capture, and exploit radio communication protocols, such as Bluetooth Low Energy (BLE), and ZigBee Who This Book is For Those interested in learning about IoT security, such as pentesters working in different domains, embedded device developers, or IT people wanting to move to an Internet of Things security role.

PLEASE PROVIDE DESCRIPTION

Video compression is not a new process; however, it is forever evolving. New standards, codecs, and ways of getting the job done are continually being created. Newcomers to video compression and seasoned veterans alike need to know how to harness the tools and use them for specific workflows for broadcast, the Web, Blu-rays, set-top boxes, digital cinema, and mobile devices. Here to guide you through the multitude of formats and confusing array of specifications, Andy Beach and Aaron Owen use a

practical, straightforward approach to explaining video compression. After covering the fundamentals of audio and video compression, they explore the current applications for encoding, discuss the common workflows associated with each, and then look at the most common delivery platforms. The book includes examples from the authors' projects as well as recipes that offer a way to define some of the best practices of video compression today. This invaluable resource gives you: proven techniques for delivering video online, or via disc or other devices. clear, straightforward explanations that cut through the jargon. step-by-step instructions for using a wide variety of encoding tools. workflow tips for performing either stand-alone or batch compressions. insight and advice from top compression professionals sprinkled throughout.

Cisco IOS 12.0 Switching Services is a comprehensive guide detailing available Cisco IOS switching alternatives. Cisco switching services range from fast switching and Netflow switching to LAN Emulation. This book describes how to configure routing between virtual LANs (VLANs) and teach how to effectively configure and implement VLANs on switches.

Updated as of January 1, 2018, this guide includes relevant guidance contained in applicable standards and other technical sources. It explains the relationship between a service organization and its user entities, provides examples of service organizations, describes the description criteria to be used to prepare the description of the service organization's system, identifies the trust services criteria as the criteria to be used to evaluate the design and operating effectiveness of controls, explains the difference between a type 1 and type 2 SOC 2 report, and provides illustrative reports for CPAs engaged to examine and report on system and organization controls at a service organization. It also describes the matters to be considered and procedures to be performed by the service auditor in planning, performing, and reporting on SOC 2 and SOC 3 engagements. New to this edition are: Updated for SSAE No. 18 (clarified attestation standards), this guide has been fully conformed to reflect lessons learned in practice Contains insight from expert authors on the SOC 2 working group composed of CPAs who perform SOC 2 and SOC 3 engagements Includes illustrative report paragraphs describing the matter that gave rise to the report modification for a large variety of situations Includes a new appendix for performing and reporting on a SOC 2 examination in accordance with International Standards on Assurance Engagements (ISAEs) or in accordance with both the AICPA's attestation standards and the ISAEs

CCNP Collaboration CLACCM #300-815 Official Cert Guide is Cisco's official, comprehensive self-study resource for Cisco's CLACCM #300-815 exam (Implementing Cisco Advanced Call Control and Mobility Services), part of today's pathway to the CCNP Collaboration credential. It will thoroughly prepare network professionals to consolidate communications infrastructure into scalable, portable, and secure collaboration solutions using Cisco's advanced call control and mobility services. Designed for all CCNP Collaboration candidates preparing for the CLACCM #300-815 exam, it covers every objective concisely and logically, with extensive teaching features designed to promote retention and understanding. You'll find: Pre-chapter quizzes to assess knowledge upfront and focus your study more efficiently Foundation topics sections that explain concepts and configurations, and link theory to practice Key topics sections calling attention to every figure, table, and list you must know Exam Preparation sections

with additional chapter review features Final preparation chapter providing tools and a complete final study plan A customizable practice test library This guide offers comprehensive, up-to-date coverage of all CLACCM #300-815 topics related to: SIP/H.323 protocols, signaling, session establishment, and troubleshooting Cisco Unified Border Element (CUBE) call routing, dial planning, configuration, and troubleshooting Cisco Unified Communications Manager (CUCM) call control and dial planning, including IP Phone registration and call routing, SIP trunks, route patterns, and more CUCME IP Phone Registration, features, and SRST, including hunt groups, call queuing, time-of-day routing, conferencing, call park/pickup, mobility options, and global dial plan replication

This IBM® Redbooks® publication is based on the Presentations Guide of the course A Practical Approach to Cloud IaaS with IBM SoftLayer, which was developed by the IBM Redbooks team in partnership with IBM Middle East and Africa University Program. This course is designed to teach university students how to build a simple infrastructure as a service (IaaS) cloud environment based on IBM SoftLayer®. It provides students with the fundamental skills to design, implement, and manage an IaaS cloud environment using the IBM SoftLayer platform as an example. The primary target audience for this course is university students in undergraduate computer science and computer engineer programs with no previous experience working in cloud environments. However, anyone new to cloud computing can benefit from this course. The workshop materials were created in July 2015. Thus, all IBM SoftLayer features discussed in this Presentations Guide are current as of July 2015.

With his storyteller's gift, Jameson relates episodes from early explorers through the colonial period, the Civil War, the settling of the West, and the roaring 1920s. As a professional treasure hunter, he has followed the trails of many of the lost mines and buried treasures he describes. Sample treasures include Sir Francis Drake Treasure, Benedict Arnold Treasure, Lafayette's Sunken Riches, Maryland's Lost Silver Mine, The Wandering Confederate Treasury, Lost Treasure of the Gray Ghost, Oklahoma Outlaw Cache, and Lost Spanish Gold in the Sandia Mountains.

Advanced Antenna Systems for 5G Network Deployments: Bridging the Gap between Theory and Practice provides a comprehensive understanding of the field of advanced antenna systems (AAS) and how they can be deployed in 5G networks. The book gives a thorough understanding of the basic technology components, the state-of-the-art multi-antenna solutions, what support 3GPP has standardized together with the reasoning, AAS performance in real networks, and how AAS can be used to enhance network deployments. Explains how AAS features impact network performance and how AAS can be effectively used in a 5G network, based on either NR and/or LTE Shows what AAS configurations and features to use in different network deployment scenarios, focusing on mobile broadband, but also including fixed wireless access Presents the latest developments in multi-antenna technologies, including Beamforming, MIMO and cell shaping, along with the potential of different technologies in a commercial network context Provides a deep understanding of the differences between mid-band and mm-Wave solutions Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile

security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: –Build an accurate threat model for your vehicle –Reverse engineer the CAN bus to fake engine signals –Exploit vulnerabilities in diagnostic and data-logging systems –Hack the ECU and other firmware and embedded systems –Feed exploits through infotainment and vehicle-to-vehicle communication systems –Override factory settings with performance-tuning techniques –Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Widely praised for its balanced treatment of computer ethics, Ethics for the Information Age offers a modern presentation of the moral controversies surrounding information technology. Topics such as privacy and intellectual property are explored through multiple ethical theories, encouraging readers to think critically about these issues and to make their own ethical decisions.

Our day-to-day experiences over the past decade have taught us that there must be limits to our tremendous appetite for energy, natural resources, and consumer goods. Even utility and oil companies now promote conservation in the face of demands for dwindling energy reserves. And for years some biologists have warned us of the direct correlation between scarcity and population growth. These scientists see an appalling future riding the tidal wave of a worldwide growth of population and technology. A calm but unflinching realist, Catton suggests that we cannot stop this wave - for we have already overshot the Earth's capacity to support so huge a load. He contradicts those scientists, engineers, and technocrats who continue to write optimistically about energy alternatives. Catton asserts that the technological panaceas proposed by those who would harvest from the seas, harness the winds, and farm the deserts are ignoring the fundamental premise that "the principals of ecology apply to all living things." These principles tell us that, within a finite system, economic expansion is not irreversible and population growth cannot continue indefinitely. If we disregard these facts, our sagging American Dream will soon shatter completely.

CCNA Collaboration CICD 210-060 Official Cert Guide CCNA Collaboration CICD 210-060 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Long-time Cisco expert and trainer Michael Valentine shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes A test-preparation routine proven to help you pass the exam "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 The powerful Pearson IT Certification Practice Testsoftware, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports A final preparation chapter that 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, study plans, assessment features, challenging review

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questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNA Collaboration CICD 210-060 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and 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 instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com. Michael Valentine, CCNA, CCNP, CCDP, CCVP, CCSI No. 31461, has worked in IT since 1996, and as a trainer since 2001. He is currently a Cisco trainer with Skyline Advanced Technology Services, specializing in Cisco Unified Communications and CCNA. His accessible, humorous, and effective teaching style has demystified Cisco technology for thousands of students. He has developed courseware and labs for both Cisco and its training partners, is co-author of CCNA Exam Cram (Exam 640-802), Third Edition, and is the author of CCNA Voice Quick Reference Guide. The official study guide helps you master topics on the CCNA Collaboration CICD 210-060 exam, including the following: Cisco Unified Communications components Cisco Unified Communications Manager Express administration, end user management, dial plans, and telephony features Cisco Unified Communications Manager administration, end point management, dial plan elements and interactions, and telephony and mobility features Cisco Unity Connection voicemail CM IM and Presence support CME and CUCM management and troubleshooting Monitoring Cisco Unity Connection The CD-ROM contains more than 140 practice questions for the exam, memory table exercises and answer keys, a glossary flash card tool, and a study planner tool. Pearson IT Certification Practice Test minimum system requirements: Windows Vista (SP2), Windows 7, Windows 8.1, or Windows 10; 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 This volume is part of the Official Cert Guide series from Cisco Press. Books in this series provide officially developed exam preparation materials that offer assessment, review, and practice to help Cisco Career Certification candidates identify weaknesses, concentrate their study efforts, and enhance their confidence as exam day nears.

Fundamentals of Biomechanics introduces the exciting world of how human movement is created and how it can be improved. Teachers, coaches and physical therapists all use biomechanics to help people improve movement and decrease the risk of injury. The book presents a comprehensive review of the major concepts of biomechanics and summarizes them in nine principles of biomechanics. Fundamentals of Biomechanics concludes by showing how these principles can be used by movement professionals to improve human movement. Specific case studies are presented in physical education, coaching, strength and conditioning, and sports medicine.

The definitive guide for people wanting to make a positive difference in the world.

Here's the book you need to prepare for Cisco's Building Cisco Multilayer Switched Networks (BCMSN) exam, 642-811. This Study Guide provides: In-depth coverage of key exam topics Practical information on designing and implementing multilayer switched networks Hundreds of challenging review questions Leading-edge exam preparation software, including a test engine, and electronic flashcards Authoritative coverage of all exam objectives, including: Utilizing the Enterprise Composite Model for designing networks Using the Switching Database Manager within a Catalyst switch Operating managed VLAN services on a switched network Configuring and verifying 802.1Q and ISL trunks Configuring access ports for static and multi-VLAN membership Increasing bandwidth for interswitch connections with Fast EtherChannel and Gigabit EtherChannel Enabling Spanning Tree Protocol on ports and VLANs Converting CatOS to native IOS on Catalyst switches Implementing IP telephony in a switched network environment Planning, configuring, and implementing QOS Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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Now fully updated for Cisco's new CIPTV1 300-070 exam Implementing Cisco IP Telephony and Video, Part 1(CIPTV1) Foundation Learning Guide is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches essential knowledge and skills for building and maintaining a robust and scalable Cisco Collaboration solution. The authors focus on deploying the Cisco Unified Communications Manager (CUCM), CUCM features, CUCM based call routing, Cisco IOS Voice Gateways, Cisco Unified Border Element (CUBE), and Quality of Service (QoS). They introduce each key challenge associated with configuring CUCM, implementing gateways and CUBE, and building dial plans to place on-net and off-net calls using traditional numbered dial plans and Uniform Resource Identifiers (URIs). They show how to implement conferencing and other media resources, and prepare you to apply QoS features for voice and video. Each chapter opens with a topic list that clearly identifies its focus, ends with a quick-study summary of key concepts, and presents review questions to assess and reinforce your understanding. The authors present Cisco best practices, and illustrate operations and problem solving via realistic examples. This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV1 300-070 exam. The official book for Cisco Networking Academy's new CCNP CIPTV1 course includes all new Learning@ Cisco CIPTV1 e-Learning course content: Covers CUCM architecture, deployment models, and tradeoffs Walks through bringing CUCM online, deploying endpoints, and setting up users Explains how to create a solid IP Phone foundation for advanced services Covers dial plan elements, design, and implementation Reviews key call routing elements Explains digit manipulation Shows how to control user access Discusses audio/video resources and videoconferencing Covers QoS tools and preferential call handling Explains external connections via Cisco IOS Voice Gateways and CUBE Streamlines review with clear summaries, assessment questions, and objectives

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