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Absolute Beginner's Guide to Upgrading and Fixing Your PC The Complete PC Upgrade and Maintenance Guide In-Memory Analytics Guide for MicroStrategy 10 CompTIA A+ Complete Deluxe Study Guide Recommended Courseware The Complete PC Upgrade & Maintenance Guide CompTIA A+ Complete Study Guide IBM zEnterprise 114 Technical Guide CompTIA A+ Complete Deluxe Study Guide Speed It Up! A Non-Technical Guide for Speeding Up Slow Computers IBM zEnterprise EC12 Technical Guide The Complete PC Upgrade and Maintenance Guide A+ Guide to Hardware Leo Laporte's Guide to Safe Computing A+ Guide to IT Technical Support (Hardware and Software) A+ Guide to Managing & Maintaining Your PC IBM z15 (8561) Technical Guide IBM zEnterprise BC12 Technical Guide IBM z14 ZR1 Technical Guide IBM z15 (8562) Technical Guide CompTIA A+ Complete Study Guide, Deluxe Edition The Complete Idiot's Guide to Upgrading Your PC IBM z13s Technical Guide IBM zEnterprise 196 Technical Guide Technician's Guide to Programmable Controllers The Complete PC Upgrade & Maintenance Guide Ten Minute Guide to PC Upgrades Complete A+ Guide to IT Hardware and Software Lab Manual for Andrews' A+ Guide to Hardware, 6th Server+ Study Guide Budget Computers COMPTIA A+ Guide to Information Technology Technical Support The Complete Idiot's Guide to Upgrading and Repairing PC's Absolute Beginner's Guide to A+ Certification CompTIA A+ 220-901 and 220-902 Cert Guide, Academic Edition The Complete Idiot's Guide to PC Basics, Windows 7 Edition Mac Manual CWTS: Certified Wireless Technology Specialist Official Study Guide IBM z13 Technical Guide IBM TS7700 Release 5.2.2 Guide The Complete Idiot's Guide to Upgrading and Repairing PCs

Prepare for the A+ exam with the help of the industry's bestselling PC hardware author of all time. Covering the 2003 update to the 220-221 and 220-222 exams, Soper's book is loaded with informative illustrations, photos and screen captures. The CD-ROM provides study resources, including a PrepLogic test engine, lab exercises, and study notes, plus a pocket study guide in printable PDF format. The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications, architectures, and platforms. Workloads

have changed. Many applications, including mission-critical ones, are deployed on a variety of platforms, and the System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. This IBM® Redbooks® publication discusses the IBM zEnterprise System, an IBM scalable mainframe server. IBM is taking a revolutionary approach by integrating separate platforms under the well-proven System z hardware management capabilities, while extending System z qualities of service to those platforms. The zEnterprise System consists of the IBM zEnterprise 114 central processor complex, the IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension. The z114 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The z114 provides up to 18% improvement in uniprocessor speed and up to a 12% increase in total system capacity for z/OS®, z/VM®, and Linux on System z over the z10™ Business Class (BC). The zBX infrastructure works with the z114 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe, POWER7™, and System x technologies. The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment through the Unified Resource Manager. This book provides an overview of the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. This book is intended for systems engineers, consultants, planners, and anyone wanting to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z technology and terminology.

Budget Computers is a guide to help people find, purchase, and upgrade a computer to match their lifestyle while staying within their budget. By following the procedures outline in this book, a user can upgrade, and maintain a computer to suit their personal needs easily, efficiently, and cost effectively with little to no technical experience. Includes information on: 1. Memory and Hard drive upgrades. 2. Data Destruction (Removing personal information from old devices). 3. Repurposing old computers, and 4. Helpful tips on protecting your computer from virus and social engineering attacks

The down and dirty basics for computer newbies. For those with a blank slate when it comes to computer know-how, this guide teaches readers how to get started on a PC, including: easy instructions on starting, setting up, and organizing the PC; navigating the Windows 7 desktop and folder system; getting up

and running with email; working with music, photos, and video; plus an introduction to Google, Facebook, YouTube, Twitter, eBay, blogging, instant messaging; and more! ? Focuses on software - and the practical and fun things new users want to do with their PCs ? A large number of people - particularly the older generation - are new to computers ? Includes troubleshooting tips

The Lab Manual is a valuable tool designed to enhance your lab experience. Lab activities, objectives, materials lists, step-by-step procedures, illustrations, and review questions are commonly found in a Lab Manual. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This IBM® Redbooks® publication covers IBM TS7700 R5.2. 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 25 years of experience, the R5.2 release includes many features that enable improved performance, usability, and security. Highlights include IBM TS7700 Advanced Object Store, an all flash TS7770, grid resiliency enhancements, and Logical WORM retention. 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, Amazon S3, and RSTOR. This publication explains features and concepts that are specific to the IBM TS7700 as of release R5.2. The R5.2 microcode level provides IBM TS7700 Cloud Storage Tier enhancements, IBM DS8000® Object Storage enhancements, Management Interface dual control security, and other smaller enhancements. The R5.2 microcode level can be installed on the IBM TS7770 and IBM TS7760 models only. Note: The latest Release 5.2 was split into two phases: R5.2 Phase 1 (also referred to as and) R5.2 Phase 2 (and R) TS7700 provides tape virtualization for the IBM z environment. Off loading to physical tape behind a TS7700 is used by hundreds of organizations around the world. Tape virtualization can help satisfy the following requirements in a data processing environment. New and existing capabilities of the TS7700 5.2.2 release includes the following highlights: Eight-way Grid Cloud, which consists of up to three generations of TS7700 Synchronous and asynchronous replication of virtual tape and TCT objects Grid access to all logical volume and object data that is independent of where it exists An all-flash TS7770 option for improved performance Full Advanced Object Store Grid Cloud support of DS8000

Transparent Cloud Tier Full AES256 encryption for data that is in-flight and at-rest
Tight integration with IBM Z® and DFSMS policy management DS8000 Object
Store AES256 in-flight encryption and compression Regulatory compliance
through Logical WORM and LWORM Retention support Cloud Storage Tier
support for archive, logical volume version, and disaster recovery Optional
integration with physical tape 16 Gb IBM FICON® throughput that exceeds 5
GBps per TS7700 cluster Grid Resiliency Support with Control Unit Initiated
Reconfiguration (CUIR) support IBM Z hosts view up to 3,968 common devices
per TS7700 grid 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
TS1160, 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. The Fifth Edition of the CompTIA A+ Complete
Study Guide: Core 1 Exam 220-1101 and Core 2 Exam 220-1102 offers accessible
and essential test preparation material for the popular A+ certification. Providing
full coverage of all A+ exam objectives and competencies covered on the latest
Core 1 and Core 2 exams, the book ensures you'll have the skills and knowledge to
confidently succeed on the test and in the field as a new or early-career computer
technician. The book presents material on mobile devices, hardware, networking,
virtualization and cloud computing, network, hardware, and software
troubleshooting, operating systems, security, and operational procedures.
Comprehensive discussions of all areas covered by the exams will give you a head
start as you begin your career as a computer technician. This new edition also
offers: Accessible and easy-to-follow organization perfect to prepare you for one of
the most popular certification exams on the market today Opportunities to practice
skills that are in extraordinary demand in the IT industry Access to the Sybex
online test bank, with chapter review questions, full-length practice exams,
hundreds of electronic flashcards, and a glossary of key terms Perfect for anyone
prepping for the Core 1 and Core 2 A+ exams, CompTIA A+ Complete Study
Guide: Core 1 Exam 220-1101 and Core 2 Exam 220-1102 is a must-have resource
for new and early-career computer technicians seeking to improve their skills and
increase their efficacy in the field. Master IT hardware and software installation,
configuration, repair, maintenance, and troubleshooting and fully prepare for the
CompTIA® A+ Core 1 (220-1001) and Core 2 (220-1002) exams. This is your all-

in-one, real-world, full-color guide to connecting, managing, and troubleshooting modern devices and systems in authentic IT scenarios. Its thorough instruction built on the CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) exam objectives includes coverage of Windows 10, Mac, Linux, Chrome OS, Android, iOS, cloud-based software, mobile and IoT devices, security, Active Directory, scripting, and other modern techniques and best practices for IT management. Award-winning instructor Cheryl Schmidt also addresses widely-used legacy technologies—making this the definitive resource for mastering the tools and technologies you’ll encounter in real IT and business environments. Schmidt’s emphasis on both technical and soft skills will help you rapidly become a well-qualified, professional, and customer-friendly technician. **LEARN MORE QUICKLY AND THOROUGHLY WITH THESE STUDY AND REVIEW TOOLS:** Learning Objectives and chapter opening lists of CompTIA A+ Certification Exam Objectives make sure you know exactly what you’ll be learning, and you cover all you need to know Hundreds of photos, figures, and tables present information in a visually compelling full-color design Practical Tech Tips provide real-world IT tech support knowledge Soft Skills best-practice advice and team-building activities in every chapter cover key tools and skills for becoming a professional, customer-friendly technician Review Questions—including true/false, multiple choice, matching, fill-in-the-blank, and open-ended questions—carefully assess your knowledge of each learning objective Thought-provoking activities help students apply and reinforce chapter content, and allow instructors to “flip” the classroom if they choose Key Terms identify exam words and phrases associated with each topic Detailed Glossary clearly defines every key term Dozens of Critical Thinking Activities take you beyond the facts to deeper understanding Chapter Summaries recap key concepts for more efficient studying Certification Exam Tips provide insight into the certification exam and preparation process **The World's Leading PC Guide--Updated, Expanded, Reorganized The Complete PC Upgrade and Maintenance Guide** continues its reign as the PC world's great problem-solving wonder. In simple, easy-to-follow language, it shows you how to prevent disasters, fix the ones that occur, and maximize your PC's power and longevity. Based on author Mark Minasi's popular seminars, this book is an unbeatable value. It teaches you everything you need to know to meet all your PC challenges, present and future. Coverage includes: * Preventing hardware disasters * Upgrading memory * Replacing power supplies * Installing EIDE and Serial ATA hard drives * Adding SCSI ports * Partitioning drives using NTFS and FAT32 * Protecting your PC from viruses, worms, and spyware * Solving data backup challenges * Adding and

repairing DVDs and CD-ROMs * Installing and troubleshooting scanners * Troubleshooting printers * Installing communications devices * Resolving mouse and keyboard problems * Installing video and sound cards * Tackling networking issues * Installing a wireless network * Troubleshooting Internet connectivity * Solving laptop problems

Speed It Up! A Non-Technical Guide for Speeding Up Slow Computers

Does your PC perform like grandma on a cold winter morning? Does it limp along slowly through everyday tasks, such as starting up, shutting down or just opening an email? Are you wondering if your PC's get up and go has got up and left? If you answered yes to any of these questions, this is the book for you. Sure, there are uber-geeky guides out there that provide tweaks and customizations appealing to the pocket protector nation, but there is no other book that addresses these common problems at the everyday consumer level. We think it's time for a book that covers all of these topics in a way that appeals to real humans, like you. Let us help you keep your PC running like it did the day you brought it home from the store.

- **Troubleshooting**—We show you how to diagnose the cause of your PC's dawdling behavior. We help you determine whether the culprit is your hardware, software, the network, a cluttered registry, or even a virus.
- **Software**—We show you dozens of easy, non-techy things you can do to speed up Windows, your applications, your Internet apps, and more.
- **Hardware**—We show you easy upgrades you can do yourself. The solutions we provide are easy to implement.
- **Network**—We show you how to easily fix network issues that are robbing you of precious time.
- **Buyer's advice**—If it's time to put your beloved PC out to pasture, we offer some tried and true advice for choosing a new PC and keeping it in tip-top condition.

CATEGORY: Windows Operating Systems
COVERS: Windows XP, Windows Vista
USER LEVEL: Beginning-Intermediate

Everything you need to prepare for the CompTIA A+ exams CompTIA A+ is the most sought-after certification for PC technicians. This guide covers every aspect of the required exams 220-801 and 220-802. Fully updated to cover the latest best practices, current software and hardware, and mobile OSes, this Deluxe guide also includes an exclusive bonus CD featuring additional practice exams, flashcards, instructional videos, and the entire e-book in ePDF, eMobi, and ePub versions. Includes a coupon for 10% Off CompTIA Certification Exams

Fully updated to cover the latest exams and exam objectives Covers personal computer components, laptops and portable devices, operating systems, printers and scanners, networks, security, safety and environmental issues, communication, and professionalism Bonus CD features the Sybex Test Engine with additional practice exams, twice the electronic flashcards as the Standard edition, and eMobi, ePub, and ePDF versions

of the book CompTIA A+ Complete Deluxe Study Guide, 2nd Edition is a complete test-prep guide that will help you pass the A+ exam with confidence. Provides information on upgrading computer memory, increasing speed, adding multimedia equipment, and fixing common problems. This full-colour manual shows the reader how easy it is to upgrade, maintain and repair a Mac. From adding more memory or upgrading the processor to installing a new DVD drive, the book takes the reader through each stage using plain English and clear photographs. The jargon-free manual is designed to save time and money and give readers a basic understanding of all areas of Mac hardware and installation without blinding them with science. Presents ten minute lessons on upgrading a PC, including adding memory, replacing the motherboard, and installing a sound card. This step-by-step, highly visual text provides a comprehensive introduction to managing and maintaining computer hardware and software. Written by best-selling author and educator Jean Andrews, A+ Guide to IT Technical Support, 9th Edition closely integrates the CompTIA+ Exam objectives to prepare you for the 220-901 and 220-902 certification exams. The new Ninth Edition also features extensive updates to reflect current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair and information technology. Each chapter covers both core concepts and advanced topics, organizing material to facilitate practical application and encourage you to learn by doing. The new edition features more coverage of updated hardware, security, virtualization, new coverage of cloud computing, Linux and Mac OS, and increased emphasis on mobile devices. Supported by a wide range of supplemental resources to enhance learning with Lab Manuals, CourseNotes online labs and the optional MindTap that includes online labs, certification test prep and interactive exercises and activities, this proven text offers students an ideal way to prepare for success as a professional IT support technician and administrator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The Complete Idiot's Guide to Upgrading and Repairing PCs, Fourth Edition, teaches you how to upgrade your PC peripherals to increase productivity on your PC, without intimidating or offending you. A straight-forward, conversational tone provides basic information in purchasing and installing the newest technology for multimedia and more. You will learn how various software applications and operating systems upgrades can help you use or not use your PC more efficiently. This book gives you the foundation on what a PC is and how to upgrade it in everyday language. Known for its comprehensive, clear introduction to programmable logic controllers (PLCs), the completely updated

TECHNICIAN'S GUIDE TO PROGRAMMABLE CONTROLLERS, Seventh Edition, covers theory, hardware, instructions, programming, installation, startup and troubleshooting in a way that makes even complex material easy to understand and apply. The current edition includes all-new color figures, step-by-step programming information and practical examples using the latest software in the Allen-Bradley ControlLogix family of PLCs. Updated and expanded material covers topics such as array instructions, analog configuration, proportional integral derivative (PID) instructions and tuning and industrial communications, as well as an introduction to sequential function chart, function block and structured text programming. The latest PLC hardware, software and instructions are presented along with practical applications and examples throughout the text. Supplementary programming examples using the PLC instructions in the text give readers a better understanding of the various instructions and how they can be combined to create simple yet effective control logic solutions for today's world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The ultimate study companion for the A+ certification exams The CompTIA A+ Complete Deluxe Study Guide, 3rd Edition is your ultimate preparation tool for exams 220-901 and 220-902. This Complete Deluxe Study Guide covers 100% of the objectives for both exams, so you can avoid surprises on exam day. Practical insights and examples drawn from real-world experiences give you a glimpse into life on the job, as you solidify your understanding of crucial hardware and operating system maintenance and troubleshooting, practice effective communication, enhance your job skills, and get up to speed on safety, security, and environmental issues. Exam highlights show you what to expect on the big day, and end-of chapter reviews help you grasp the major points in the material. Plus, you'll get access to the exclusive Sybex interactive online learning environment featuring: Eight practice exams Hundreds of sample questions Electronic flashcards Searchable glossary of important terms Over an hour of instructor-led videos on key exam topics Free eBook compatible with multiple devices so you can study on the go The CompTIA A+ certification is the essential computer technician credential and is required by over 100 leading employers. The CompTIA A+ Complete Deluxe Study Guide, 3rd Edition gives you everything you need to approach the exam with confidence and pass with flying colors. Digital business has been driving the transformation of underlying information technology (IT) infrastructure to be more efficient, secure, adaptive, and integrated. IT must be able to handle the explosive growth of mobile clients and employees. It also must be able to process enormous amounts of data to

provide deep and real-time insights to help achieve the greatest business impact. This IBM® Redbooks® publication addresses the new IBM z Systems™ single frame, the IBM z13s server. IBM z Systems servers are the trusted enterprise platform for integrating data, transactions, and insight. A data-centric infrastructure must always be available with a 99.999% or better availability, have flawless data integrity, and be secured from misuse. It needs to be an integrated infrastructure that can support new applications. It also needs to have integrated capabilities that can provide new mobile capabilities with real-time analytics delivered by a secure cloud infrastructure. IBM z13s servers are designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows z13s servers to deliver a record level of capacity over the prior single frame z Systems server. In its maximum configuration, the z13s server is powered by up to 20 client characterizable microprocessors (cores) running at 4.3 GHz. This configuration can run more than 18,000 millions of instructions per second (MIPS) and up to 4 TB of client memory. The IBM z13s Model N20 is estimated to provide up to 100% more total system capacity than the IBM zEnterprise® BC12 Model H13. This book provides information about the IBM z13s server and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the IBM z Systems™ functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM z Systems technology and terminology. This step-by-step, highly visual text provides you with a comprehensive introduction to managing and maintaining computer hardware. Written by best-selling author and educator Jean Andrews, *A+ GUIDE TO HARDWARE, Sixth Edition* closely integrates the CompTIA A+ Exam objectives to prepare you for the hardware portions of the 220-801 and 220-802 certification exams. The new Sixth Edition also features extensive updates to reflect current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair. Each chapter covers both core concepts and advanced topics, organizing material to facilitate practical application and encourage you to learn by doing. Supported by a wide range of supplemental resources to enhance learning—including innovative tools, interactive exercises and activities, and online study guides—this proven text offers an ideal way to prepare you for success as a professional PC repair technician. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The popularity of the Internet and the affordability of IT hardware and

software have resulted in an explosion of applications, architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on a variety of platforms, and the System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. The zEnterprise System consists of the IBM zEnterprise 196 central processor complex, the IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension. The z196 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The z196 Model M80 provides up to 1.6 times the total system capacity of the z10™ EC Model E64, and all z196 models provide up to twice the available memory of the z10 EC. The zBX infrastructure works with the z196 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe, POWER7™, and System x® technologies. Through the Unified Resource Manager, the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment. This IBM® Redbooks® publication provides an overview of the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. This book is intended for systems engineers, consultants, planners, and anyone wanting to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z technology and terminology. The changes to this edition are based on the System z hardware announcement dated July 12, 2011. NOTE: The exam this book covered, CWTS: Certified Wireless Technology Specialist (PW0-071), was retired by CWNP in 2017 and is no longer offered. For coverage of the current exam CWTS, CWS, and CWT: Exams PW0, please look for the latest edition of this guide: CWTS, CWS, and CWT Complete Study Guide: Exams PW0 (9781119385035). Completely updated to cover the latest Certified Wireless Technology Specialist exam, this best-selling guide is the only Official Study Guide for the popular wireless certification. This foundation-level certification is in high demand for wireless networking professionals, and you can master all the exam topics with this Official guide. It covers all the exam objectives and helps you study with hands-on exercises, chapter review questions, an objective map, a pre-assessment test, and additional study tools on the companion website. The only official study guide endorsed by CWNP Thoroughly covers all exam objectives, including Wi-Fi Technology, Standards, and Certifications; Hardware and

Software; Radio Frequency (RF) Fundamentals; Site Surveying and Installation; Applications, Support, and Troubleshooting; and Security & Compliance Includes hands-on exercises and real-world scenarios to increase understanding Study aids include review questions, glossary, objective map, sample tests, and electronic flashcards CWTS: Certified Wireless Technology Specialist Official Study Guide, 2nd Edition is the study buddy that will enhance your chances for exam success. Note: CD-ROM materials for eBook purchases can be downloaded from <http://booksupport.wiley.com>. This IBM® Redbooks® publication describes the new member of the IBM Z® family, IBM z14™ Model ZR1 (Machine Type 3907). It includes information about the Z environment and how it helps integrate data and transactions more securely, and can infuse insight for faster and more accurate business decisions. The z14 ZR1 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z14 ZR1 is designed for enhanced modularity, in an industry standard footprint. A data-centric infrastructure must always be available with a 99.999% or better availability, have flawless data integrity, and be secured from misuse. It also must be an integrated infrastructure that can support new applications. Finally, it must have integrated capabilities that can provide new mobile capabilities with real-time analytics that are delivered by a secure cloud infrastructure. IBM z14 ZR1 servers are designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows z14 ZR1 servers to deliver a record level of capacity over the previous IBM Z platforms. In its maximum configuration, z14 ZR1 is powered by up to 30 client characterizable microprocessors (cores) running at 4.5 GHz. This configuration can run more than 29,000 million instructions per second and up to 8 TB of client memory. The IBM z14 Model ZR1 is estimated to provide up to 54% more total system capacity than the IBM z13s® Model N20. This Redbooks publication provides information about IBM z14 ZR1 and its functions, features, and associated software support. More information is offered in areas that are relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the IBM Z servers functions and plan for their usage. It is intended as an introduction to mainframes. Readers are expected to be generally familiar with IBM Z technology and terminology. In simple, easy-to-follow language, this problem-solving wonder shows how to prevent disasters and fix them when they occur. Based on Minasi's extremely popular world-wide PC upgrade and repair seminars, this book gives PC owners or support persons all they need to know to handle 99 percent of their PC problems.

The CD-ROMs include diagnostic and utility programs and a multimedia product called PC Tune. All-in-one guide prepares you for CompTIA's new A+ Certification Candidates aiming for CompTIA's revised, two-exam A+ Certified Track will find everything they need in this value-packed book. Prepare for the required exam, CompTIA A+ Essentials (220-601), as well as your choice of one of three additional exams focusing on specific job roles--IT Technician (220-602), Remote Support Technician (220-603), or Depot Technician (220-604). This in-depth book prepares you for any or all four exams, with full coverage of all exam objectives. Inside, you'll find: Comprehensive coverage of all exam objectives for all four exams in a systematic approach, so you can be confident you're getting the instruction you need Hand-on exercises to reinforce critical skills Real-world scenarios that show you life beyond the classroom and put what you've learned in the context of actual job roles Challenging review questions in each chapter to prepare you for exam day Exam Essentials, a key feature at the end of each chapter that identifies critical areas you must become proficient in before taking the exams A handy fold-out that maps every official exam objective to the corresponding chapter in the book, so you can track your exam prep objective by objective Look inside for complete coverage of all exam objectives for all four CompTIA A+ exams. Featured on the CD SYBEX TEST ENGINE: Test your knowledge with advanced testing software. Includes all chapter review questions and 8 total practice exams. ELECTRONIC FLASHCARDS: Reinforce your understanding with flashcards that can run on your PC, Pocket PC, or Palm handheld. Also on CD, you'll find the entire book in searchable and printable PDF. Study anywhere, any time, and approach the exam with confidence. Visit www.sybex.com for all of your CompTIA certification needs. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Digital business has been driving the transformation of underlying IT infrastructure to be more efficient, secure, adaptive, and integrated. Information Technology (IT) must be able to handle the explosive growth of mobile clients and employees. IT also must be able to use enormous amounts of data to provide deep and real-time insights to help achieve the greatest business impact. This IBM® Redbooks® publication addresses the IBM Mainframe, the IBM z13™. The IBM z13 is the trusted enterprise platform for integrating data, transactions, and insight. A data-centric infrastructure must always be available with a 99.999% or better availability, have flawless data integrity, and be secured from misuse. It needs to be an integrated infrastructure that can support new applications. It needs to have integrated capabilities that can provide new mobile capabilities with real-time analytics delivered by a secure

cloud infrastructure. IBM z13 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows the z13 to deliver a record level of capacity over the prior IBM z Systems™. In its maximum configuration, z13 is powered by up to 141 client characterizable microprocessors (cores) running at 5 GHz. This configuration can run more than 110,000 millions of instructions per second (MIPS) and up to 10 TB of client memory. The IBM z13 Model NE1 is estimated to provide up to 40% more total system capacity than the IBM zEnterprise® EC12 (zEC1) Model HA1. This book provides information about the IBM z13 and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the IBM z Systems functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM z Systems technology and terminology. Provides information on upgrading computer memory, increasing speed, adding multimedia equipment, and more

Clear, Expert Advice for PC Users of Every Stripe No matter how you use your PC--as a business tool, an entertainment center, or an Internet on-ramp--this latest edition of *The Complete PC Upgrade & Maintenance Guide* has you covered. Inside, you'll find the clear, expert advice on maintaining, upgrading, and troubleshooting for which this book is famous. It's all updated to cover the latest technologies and guaranteed to help you extend the life and power of your PC. You also get targeted instruction on a wide range of entertainment upgrades--ways to enhance your enjoyment of music, photo, movies, and more. Coverage includes:

- * Preventing hardware disasters
- * Upgrading memory
- * Replacing power supplies
- * Partitioning drives using NTFS and FAT32
- * Solving data backup challenges
- * Protecting your PC from viruses, worms, and spyware
- * Adding SCSI cards and drives
- * Installing DVDs, CD-ROMs, and EIDE and Serial ATA hard drives
- * Troubleshooting printers and scanners
- * Installing communications devices
- * Resolving mouse and keyboard problems
- * Installing video and sound cards
- * Tackling networking issues, both wired and wireless
- * Troubleshooting Internet connectivity
- * Solving laptop problems
- * Capturing and editing video
- * Managing music and image files
- * Watching movies on DVD
- * Getting the most out of new storage and networking technologies

This IBM® Redbooks® publication describes the features and functions the latest member of the IBM Z® platform, the IBM z15™ Model T02 (machine type 8562). It includes information about the IBM z15 processor design, I/O innovations, security features, and supported operating systems. The z15 is a state-of-the-art data and transaction system that delivers

advanced capabilities, which are vital to any digital transformation. The z15 is designed for enhanced modularity, which is in an industry standard footprint. This system excels at the following tasks: Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud, analytics, and open source technologies. With the z15 as the base, applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk. This IBM® Redbooks® publication describes the features and functions the latest member of the IBM Z® platform, the IBM z15™ (machine type 8561). It includes information about the IBM z15 processor design, I/O innovations, security features, and supported operating systems. The z15 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z15 is designed for enhanced modularity, which is in an industry standard footprint. This system excels at the following tasks: Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud, analytics, and open source technologies. With the z15 as the base, applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk. The popularity of the Internet and the affordability of information technology (IT) hardware and software have resulted in an explosion dramatic increase in the number of applications, architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on a variety of platforms, and the IBM® System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. This IBM Redbooks® publication provides information about the IBM zEnterprise® BC12 (zBC12), an IBM scalable mainframe server. IBM is taking a revolutionary approach by integrating separate platforms under the well-proven System z hardware management capabilities,

while extending System z qualities of service to those platforms. The zEnterprise System consists of the zBC12 central processor complex, the IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension (zBX). The zBC12 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The zBC12 provides the following improvements over its predecessor, the IBM zEnterprise 114 (z114): Up to a 36% performance boost per core running at 4.2 GHz Up to 58% more capacity for traditional workloads Up to 62% more capacity for Linux workloads The zBX infrastructure works with the zBC12 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe, IBM POWER7®, and IBM System x® technologies. The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment through the Unified Resource Manager. This book provides an overview of the zBC12 and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. This book is intended for systems engineers, consultants, planners, and anyone who wants to understand zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z technology and terminology.

CompTIA A+ 220-901 and 220-902 Cert Guide, Academic Edition is a comprehensive guide to the new A+ exams from CompTIA from one of the leading A+ Certification authors. With over 15 years of experience in developing CompTIA A+ Certification content and 30 years of experience in the computer field, Mark teaches you not just what you need to pass the exams, but also what you need to know to apply your knowledge in the real world. This book is rich with learning and exam preparation features: Hands-on lab exercises Real-world test preparation advice This is the eBook edition of the CCDA 200-310 Official Cert Guide. This eBook does not include the practice exam that comes with the print edition.

CompTIA A+ 220-901 and 220-902 Cert Guide, Academic Edition is a comprehensive guide to the new A+ exams from CompTIA from one of the leading A+ Certification authors. With over 15 years of experience in developing CompTIA A+ Certification content and 30 years of experience in the computer field, Mark teaches you not just what you need to pass the exams, but also what you need to know to apply your knowledge in the real world. This book is rich with learning and exam preparation features: Hands-on lab exercises Real-world test preparation advice This is the eBook edition of the CCDA 200-310 Official Cert Guide. This eBook does not include the practice exam that comes with

the print edition. Each chapter takes a ground-up approach - starting with the essentials and gradually building to larger, more complex concepts. Regardless of your level of experience, from beginner to expert, this book helps you improve your knowledge and skills. Loaded with informative illustrations, photos and screen captures that help readers follow along, the book also includes access to bonus content including a handy objectives index that maps each test objective to the section of the book in which that objective is covered. This invaluable tool will help readers be certain that they are ready for test day! The Academic Edition is ideal for the classroom and self-study that helps you master all the topics on the new A+ 901 and 902 exams, including Motherboards, processors, RAM, and BIOS Power supplies and system cooling I/O, input ports, and devices Video displays and video cards Customized PCs Laptops, mobile and wearable devices Printers Storage devices including SSDs Installing, using, and troubleshooting Windows, Linux, and OS X Virtualization Networking Security Operational procedures and communications methods The best all-around guide for diagnosing, maintaining and protecting your PC. A guide to upgrading and fixing common problem on a PC covers such topics a upgrading memory, adding hard drives, installing printers and scanners, and replacing sound cards. This step-by-step, highly visual text provides a comprehensive introduction to managing and maintaining computer hardware and software. Written by best-selling author and educator Jean Andrews, A+ GUIDE TO MANAGING AND MAINTAINING YOUR PC closely integrates the CompTIAA+ Exam objectives to prepare you for the 220-801 and 220-802 certification exams. The new Eighth Edition also features extensive updates to reflect current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair. Each chapter covers both core concepts and advanced topics, organizing material to facilitate practical application and encourage you to learn by doing. Supported by a wide range of supplemental resources to enhance learning—including innovative tools, interactive exercises and activities, and online study guides—this proven text offers an ideal way to prepare you for success as a professional PC repair technician. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Explains how to prevent hardware disasters, install new components, upgrade memory, install hard drives, add ports, troubleshoot printers, network PCs, and troubleshoot Internet connectivity. The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications, architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on various platforms,

and the IBM® System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. This IBM Redbooks® publication addresses the new IBM zEnterprise® System. This system consists of the IBM zEnterprise EC12 (zEC12), an updated IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension (zBX) Model 003. The zEC12 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows the zEC12 to deliver a record level of capacity over the prior System z servers. It is powered by 120 of the world's most powerful microprocessors. These microprocessors run at 5.5 GHz and are capable of running more than 75,000 millions of instructions per second (MIPS). The zEC12 Model HA1 is estimated to provide up to 50% more total system capacity than the IBM zEnterprise 196 (z196) Model M80. The zBX Model 003 infrastructure works with the zEC12 to enhance System z virtualization and management. It does so through an integrated hardware platform that spans mainframe, IBM POWER7®, and IBM System x® technologies. Through the Unified Resource Manager, the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment. This book provides information about the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z® technology and terminology. Server+ is one of the newest certifications from CompTIA, the sponsor of such vendor-neutral IT certifications as A+ and Network+. Server+ is positioned alongside Network+ as a follow-up to A+ certification. The Server+ exam focuses on network hardware while the Network+ exam focuses on network software. The Server+ exam certifies the knowledge of mid- to upper-level technicians with 18-24 months of strong IT experience using hardware functionality, including server installation, troubleshooting, support, and second level support. Using a step-by-step, highly visual approach, Andrews/Dark Shelton/Pierce's bestselling **COMPTIA A+ GUIDE TO IT TECHNICAL SUPPORT**, 11th edition, teaches you how to work with users as well as install, maintain, troubleshoot and network computer hardware and software. Ensuring you are well prepared for 220-1101 and 220-1102 certification exams, each module covers core and advanced topics while emphasizing practical application of the

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