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A Servers Super Micro

The year 2019 marked four decades of cluster computing, a history that began in 1979 when the first cluster systems using Components Off The Shelf (COTS) became

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operational. This achievement resulted in a rapidly growing interest in affordable parallel computing for solving compute intensive and large scale problems. It also directly lead to the founding of the Parco conference series. Starting in 1983, the International Conference on Parallel Computing, ParCo, has long been a leading

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venue for discussions of important developments, applications, and future trends in cluster computing, parallel computing, and high-performance computing. ParCo2019, held in Prague, Czech Republic, from 10 – 13 September 2019, was no exception. Its papers, invited talks, and specialized mini-symposia

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addressed cutting-edge topics in computer architectures, programming methods for specialized devices such as field programmable gate arrays (FPGAs) and graphical processing units (GPUs), innovative applications of parallel computers, approaches to reproducibility in parallel computations, and other relevant

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areas. This book presents the proceedings of ParCo2019, with the goal of making the many fascinating topics discussed at the meeting accessible to a broader audience. The proceedings contains 57 contributions in total, all of which have been peer-reviewed after their presentation. These papers give a wide ranging overview of the current status

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*of research, developments, and applications
in parallel computing.*

*In a technology driven world, basic
knowledge and awareness about computers
is a must if we wish to lead a successful
personal and professional life. Today
Computer Awareness is considered as an
important dimension in most of the*

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competitive examinations like SSC, Bank PO/Clerk & IT Officer, UPSC & other State Level PSCs, etc. Objective questions covering Computer Awareness are asked in a number of competitive exams, so the present book which will act as an Objective Question Bank for Computer Awareness has been prepared keeping in mind the importance of

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the subject. This book has been divided into 22 chapters covering all the sections of Computer Awareness like Introduction to Computer, Computer Organisation, Input & Output Devices, Memory, Software, MS-Office, Database, Internet & Networking, Computer Security, Digital Electronics, etc. The chapters in the book contain more than

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75 tables which will help in better summarization of the important information. With a collection of more than 3500 objective questions, the content covered in the book simplifies the complexities of some of the topics so that the non-computer students feel no difficulty while studying various concepts covered

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under Computer Awareness section. This book contains the most streamlined collection of objective questions including questions asked in competitive examinations upto 2014. As the book thoroughly covers the Computer Awareness section asked in a number of competitive examinations, it for sure will work as a preparation booster for

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various competitive examinations like UPSC & State Level PSCs Examinations, SSC, Bank PO/Clerk & IT Officer and other general competitive & recruitment examinations.

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld

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also celebrates people, companies, and projects.

The Wires of War

Professional SQL Server Analysis Services

2005 with MDX

Upgrading and Repairing Servers

Design a virtualized data center with

VMware vSphere 6.7

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***This IBM® Redpaper™
publication provides a broad
understanding of IBM
Spectrum Virtualize™
software only and how it fits
into to the IBM SAN Volume
Control and IBM Storwize®***

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families. It also provides use cases for cloud, Cloud Service Provider (CSP), and Managed Service Provider (MSP) implementations. This publication helps storage and networking

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***administrators install, tailor,
and configure IBM Spectrum
Virtualize software only. It
also provides a detailed
description of supported
hardware and
troubleshooting tips. In April***

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2017, this paper was updated to include information about Version 7.8.1 and Supermicro SYS-2028U-TRTP+ server implementation. When used with the MDX

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query language, SQL Server Analysis Services allows developers to build full-scale database applications to support such business functions as budgeting, forecasting, and market

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analysis. Shows readers how to build data warehouses and multi-dimensional databases, query databases, and use Analysis Services and other components of SQL Server to provide end-

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to-end solutions Revised, updated, and enhanced, the book discusses new features such as improved integration with Office and Excel 2007; query performance enhancements;

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***improvements to
aggregation designer,
dimension designer, cube
and dimension wizards, and
cell writeback; extensibility
and personalization; data
mining; and more***

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PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help

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***you make better buying
decisions and get more from
technology.***

***A comprehensive, end-to-
end study guide for the
SK0-004 certification, along
with mock exams***

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InfoWorld

***The The Complete VMware
vSphere Guide***

***Implementing IBM Spectrum
Virtualize software only***

***Algorithms and Theory of
Computation Handbook,***

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Second Edition in a two volume set, provides an up-to-date compendium of fundamental computer science topics and techniques. It also illustrates how the topics and techniques come together to

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deliver efficient solutions to important practical problems. New to the Second Edition: Along with updating and revising many of the existing chapters, this second edition contains more than 20 new

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chapters. This edition now covers external memory, parameterized, self-stabilizing, and pricing algorithms as well as the theories of algorithmic coding, privacy and anonymity, databases,

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computational games, and communication networks. It also discusses computational topology, computational number theory, natural language processing, and grid computing and explores

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applications in intensity-modulated radiation therapy, voting, DNA research, systems biology, and financial derivatives. This best-selling handbook continues to help computer professionals and

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engineers find significant information on various algorithmic topics. The expert contributors clearly define the terminology, present basic results and techniques, and offer a number of current

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references to the in-depth literature. They also provide a glimpse of the major research issues concerning the relevant topics

If you're curious, but hesitant, about finding your way around

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Microsoft's new Windows Server 2008, Windows Server 2008 For Dummies is the book for you. This friendly reference shows you everything you need to know — from installation and deployment to

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***building and running a
Windows Server 2008 network.
Server-based networking
really is a big deal, and this
100% plain-English guide
helps you make the most of it.
You'll find out about Windows***

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Server 2008's important functions, capabilities and requirements; develop a network implementation plan; take a step-by-step walkthrough of the installation process; and get valuable tips

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***on how to boost your
bandwidth beyond belief!
Before you know it, you'll be
configuring connections to the
Universe, working with active
directory, and treating
domains and controllers like***

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***old pals. Discover how to:
Build and connect your
network Install and configure
Windows Server 2008 Set up
and manage directory services
Manage users and groups
Install and manage print***

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***servers Secure your network
Troubleshoot active networks
Plan for installing Active
Directory Proclaim and
manage your own domain
Resolve names between
TCP/IP and NetBIOS Manage***

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***shares, permissions, and more
Develop and implement a
regular backup protocol
Windows Server 2008 For
Dummies may be easy-going,
but it's simply packed with
need-to-know stuff that will***

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***send you diving into Windows
Server 2008 experience just
for the fun of it. So start now!***

InfoWorld

Network World

Algorithms and Theory of

Page 38/159

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Computation Handbook - 2 Volume Set

FRAME WORK FOR A SCALABLE TCP/IP SERVER

**Explore the benefits of
VMware vSphere 6.7 to
provide a powerful, flexible,**

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

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**access (RDMA) and Persistent
Key Features Design, deploy
and manage VMware vSphere
virtual data centers Implement
monitoring and security of
VMware workloads with
ease Explore tips and**

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**techniques for designing a
robust virtual
infrastructureBook**

**Description vSphere 6.7 is the
latest release of VMware's
industry-leading virtual cloud
platform. By understanding**

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how to manage, secure, and scale apps with vSphere 6.7, you can easily run even the most demanding of workloads. This Learning Path begins with an overview of the features of the vSphere 6.7

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suite. You'll learn how to plan and design a virtual infrastructure. You'll also gain insights into best practices to efficiently configure, manage, and secure apps. Next, you'll pick up on how to enhance

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

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features, such as encrypted vMotion and VM-level encryption. Finally, by learning how to apply Proactive High Availability and Predictive Distributed Resource Scheduler (DRS), you'll be

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

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can run high workloads. This Learning Path includes content from the following Packt products: VMware vSphere 6.7 Data Center Design Cookbook - Third Edition by Mike Brown and

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

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**virtual environment with
vSphere 6.7 Identify key
factors related to a vSphere
design Mitigate security risks
and meet compliance
requirements in a vSphere
design Create a vSphere**

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**conceptual design by
identifying technical and
business requirementsMap
the logical resource design
into the physical vSphere
designCreate professional
vSphere design**

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**documentationWho this book
is for This Learning Path is for
administrators, infrastructure
engineers, consultants, and
architects who want to design
virtualized data center
environments using VMware**

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vSphere 6.x (or previous versions of vSphere and the supporting components). Basic knowledge of VMware vSphere is required to get the most out of this Learning Path.

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From the former news policy lead at Google, an urgent and groundbreaking account of the high-stakes global cyberwar brewing between Western democracies and the autocracies of China and

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Russia that could potentially crush democracy. From 2016 to 2020, Jacob Helberg led Google's global internal product policy efforts to combat disinformation and foreign interference. During

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this time, he found himself in the midst of what can only be described as a quickly escalating two-front technology cold war between democracy and autocracy. On the front-end, we're fighting to

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**control the
software—applications, news
information, social media
platforms, and more—of what
we see on the screens of our
computers, tablets, and
phones, a clash which started**

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out primarily with Russia but now increasingly includes China and Iran. Even more ominously, we're also engaged in a hidden back-end battle—largely with China—to control the Internet's

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hardware, which includes devices like cellular phones, satellites, fiber-optic cables, and 5G networks. This tech-fueled war will shape the world's balance of power for the coming century as

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autocracies exploit twenty-first-century methods to re-divide the world into twentieth century-style spheres of influence. Helberg cautions that the spoils of this fight are power over every meaningful

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aspect of our lives, including our economy, our infrastructure, our national security, and ultimately, our national sovereignty. Without a firm partnership with the government, Silicon Valley is

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unable to protect democracy from the autocrats looking to sabotage it from Beijing to Moscow and Tehran. The stakes of the ongoing cyberwar are no less than our nation's capacity to chart its

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own future, the freedom of our democratic allies, and even the ability of each of us to control our own fates, Helberg says. And time is quickly running out.

For more than 20 years,

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Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers

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are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and

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electronic commerce.

**America, China, and the
Struggle for Global
Leadership**

**Objective Question Bank of
Computer Awareness for
General Competitions**

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**Plunkett's Companion to the
Almanac of American
Employers 2008
Professional Microsoft SQL
Server Analysis Services 2008
with MDX**

Advancements in data science

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have created opportunities to sort, manage, and analyze large amounts of data more effectively and efficiently.

Applying these new technologies to the healthcare industry, which has vast

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quantities of patient and medical data and is increasingly becoming more data-reliant, is crucial for refining medical practices and patient care. Data Analytics in Medicine: Concepts, Methodologies, Tools,

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and Applications is a vital reference source that examines practical applications of healthcare analytics for improved patient care, resource allocation, and medical performance, as well as for

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diagnosing, predicting, and identifying at-risk populations. Highlighting a range of topics such as data security and privacy, health informatics, and predictive analytics, this multi-volume book is ideally designed

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for doctors, hospital administrators, nurses, medical professionals, IT specialists, computer engineers, information technologists, biomedical engineers, data-processing specialists, healthcare

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practitioners, academicians, and researchers interested in current research on the connections between data analytics in the field of medicine.

An authority on Asia and

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globalization identifies the challenges China's growing power poses and how it must be confronted When China joined the World Trade Organization in 2001, most experts expected the WTO rules and procedures

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to liberalize China and make it "a responsible stakeholder in the liberal world order." But the experts made the wrong bet. China today is liberalizing neither economically nor politically but, if anything,

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becoming more authoritarian and mercantilist. In this book, notably free of partisan posturing and inflammatory rhetoric, renowned globalization and Asia expert Clyde Prestowitz describes the key

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challenges posed by China and the strategies America and the Free World must adopt to meet them. He argues that these must be more sophisticated and more comprehensive than a narrowly targeted trade war.

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Rather, he urges strategies that the United States and its allies can use unilaterally without contravening international or domestic law.

Strategies and practices for growing ecosystems are

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increasingly important in shaping industries and markets. Sustaining productive innovation is not just about you. It depends on others as well as your willingness and ability to collaborate effectively. This

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book is about how to use, as well as develop, a co-innovation platform to accelerate innovation and sustain ecosystem growth. It will show how you, your team and your organization can create and

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foster collaborative innovation among a diverse set of organizations that are located outside of your company ' s hierarchy. A co-innovation platform provides an environment where firms can

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combine or recombine ideas to generate novel solutions. A distinctive feature of the co-innovation platform is its resource-open and hands-on approach to innovation. For many organizations, resource

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limitations, organizational obstacles and/or time constraints kill an idea before it takes shape. By providing access to demand-side and supply-side resources and capabilities to facilitate co-

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innovation, the platform solves this problem and shapes the ecosystem ' s innovation trajectory from the ground up. This book provides strategic and practical guidance for orchestrating collaborative

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problem solving and ecosystem
growth.

PC Mag

Windows Server 2008 For
Dummies

Data Analytics in Medicine:
Concepts, Methodologies, Tools,

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and Applications

The World Turned Upside Down

This is not an instructional guide,
but a practical, scenario-based
book which guides you through
everything you need to know in a
practical manner by letting you

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build your own cluster. By the end of the book, you will have a fully functional Proxmox cluster setup at your disposal and have the knowledge to replicate virtualization solutions. If you already know what the word "virtualization" means and

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you are ready to stand out from the crowd equipped with the unique ability to design and implement a rock-solid virtualized network environment using Proxmox, then you have just picked up the only book you will need. Linux system

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administration experience together with knowledge of networking and virtualization concepts is assumed. This book is also useful if you are already using Proxmox and simply want to master its advanced features.

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Covers employers of various types from 100 to 2,500 employees in size (while the main volume covers companies of 2,500 or more employees). This book contains profiles of companies that are of vital importance to job-seekers of

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various types. It also enables readers to compare the growth potential and benefit plans of large employers.

For more than 40 years, Computerworld has been the leading source of technology news

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and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the

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world's largest global IT media
network.

The Only Comprehensive Guide to
InfoTech Companies And Trends
Advances in Computer,
Communication and Computational
Sciences

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Mid-Size Firms Mastering Proxmox

Master the concepts and techniques that will enable you to succeed on the SK0-004 exam the first time with the help of this study guide Key FeaturesExplore

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virtualisation, IPv4 & IPv6
networking, administration
and moreEnhancing limited
knowledge of server
configuration and functionA
study guide that covers the
objectives for the
certification

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examinationBook Description
CompTIA Server+
Certification is one of the
top 5 IT certifications that
is vendor neutral.System
administrators opt for
CompTIA server+
Certification to gain

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advanced knowledge of concepts including troubleshooting and networking. This book will initially start with the configuration of a basic network server and the configuration for each of

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its myriad roles. The next set of chapters will provide an overview of the responsibilities and tasks performed by a system administrator to manage and maintain a network server. Moving ahead, you will learn

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the basic security technologies, methods, and procedures that can be applied to a server and its network. Next, you will cover the troubleshooting procedures and methods in general, and specifically

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for hardware, software,
networks, storage devices,
and security applications.
Toward the end of this book,
we will cover a number of
troubleshooting and security
mitigation concepts for
running admin servers with

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ease. This guide will be augmented by test questions and mock papers that will help you obtain the necessary certification. By the end of this book, you will be in a position to clear Server+ Certification

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with ease. What you will
learnUnderstand the purpose
and role of a server in a
computer networkReview
computer hardware common to
network serversDetail the
function and configuration
of network operating

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systemsDescribe the
functions and tasks of
network operating system
administrationExplain the
various data storage options
on a computer networkDetail
the need for, and the
functioning and application

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of, network and server
securityDescribe the
operational elements of a
network provided by a
serverExplain the processes
and methods involved in
troubleshooting server
issuesWho this book is for

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This book is targeted towards professionals seeking to gain the CompTIA Server+ certification. People coming from a Microsoft background with basic operating system and networking skills will also

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find this book useful. Basic experience working with system administration is mandatory.

This book discusses recent advances in computer and computational sciences from upcoming researchers and

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leading academics around the globe. It presents high-quality, peer-reviewed papers presented at the International Conference on Computer, Communication and Computational Sciences (IC4S 2019), which was held on

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11-12 October 2019 in
Bangkok. Covering a broad
range of topics, including
intelligent hardware and
software design, advanced
communications, intelligent
computing techniques,
intelligent image

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processing, the Web and informatics, it offers readers from the computer industry and academia key insights into how the advances in next-generation computer and communication technologies can be shaped

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into real-life applications.
Understand Microsoft's
dramatically updated new
release of its premier
toolset for business
intelligence The first major
update to Microsoft's state-
of-the-art, complex toolset

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for business intelligence (BI) in years is now available and what better way to master it than with this detailed book from key members of the product's development team? If you're a database or data warehouse

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developer, this is the expert resource you need to build full-scale, multi-dimensional, database applications using Microsoft's new SQL Server 2012 Analysis Services and related tools. Discover how

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to solve real-world BI problems by leveraging a slew of powerful new Analysis Services features and capabilities. These include the new DAX language, which is a more user-friendly version of

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MDX; PowerPivot, a new tool for performing simplified analysis of data; BISM, Microsoft's new Business Intelligence Semantic Model; and much more. Serves as an authoritative guide to Microsoft's new SQL Server

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2012 Analysis Services BI product and is written by key members of the Microsoft Analysis Services product development team Covers SQL Server 2012 Analysis Services, a major new release with a host of

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powerful new features and capabilities Topics include using the new DAX language, a simplified, more user-friendly version of MDX; PowerPivot, a new tool for performing simplified analysis of data; BISM,

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Microsoft's new Business Intelligence Semantic Model; and a new, yet-to-be-named BI reporting tool Explores real-world scenarios to help developers build comprehensive solutions Get thoroughly up to speed on

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this powerful new BI toolset
with the timely and
authoritative Professional
Microsoft SQL Server 2012
Analysis Services with MDX.
Parallel Computing:
Technology Trends
Professional Microsoft SQL

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Server 2012 Analysis
Services with MDX and DAX
Technology and the Global
Struggle for Power
CompTIA Server+
Certification Guide
This report documents a
demonstration that

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compared the energy
consumption and efficiency
of a limited sample size
of server-type IT
equipment from different
manufacturers by measuring
power at the server power

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supply power cords. The results are specific to the equipment and methods used. However, it is hoped that those responsible for IT equipment selection can use the methods described

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to choose models that optimize energy use efficiency. The demonstration was conducted in a data center at Lawrence Berkeley National Laboratory in

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Berkeley, California. It was performed with five servers of similar mechanical and electronic specifications; three from Intel and one each from Dell and Supermicro.

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Server IT equipment is constructed using commodity components, server manufacturer-designed assemblies, and control systems. Server compute efficiency is

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constrained by the commodity component specifications and integration requirements. The design freedom, outside of the commodity component constraints,

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provides room for the manufacturer to offer a product with competitive efficiency that meets market needs at a compelling price. A goal of the demonstration was

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to compare and quantify the server efficiency for three different brands. The efficiency is defined as the average compute rate (computations per unit of time) divided by

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the average energy consumption rate. The research team used an industry standard benchmark software package to provide a repeatable software load to obtain

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the compute rate and provide a variety of power consumption levels. Energy use when the servers were in an idle state (not providing computing work) were also measured. At

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high server compute loads,
all brands, using the same
key components (processors
and memory), had similar
results; therefore, from
these results, it could
not be concluded that one

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brand is more efficient than the other brands. The test results show that the power consumption variability caused by the key components as a group is similar to all other

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components as a group. However, some differences were observed. The Supermicro server used 27 percent more power at idle compared to the other brands. The Intel server

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had a power supply control feature called cold redundancy, and the data suggest that cold redundancy can provide energy savings at low power levels. Test and

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evaluation methods that might be used by others having limited resources for IT equipment evaluation are explained in the report.

Plunkett's InfoTech

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Industry Almanac presents a complete analysis of the technology business, including the convergence of hardware, software, entertainment and telecommunications. This

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market research tool
includes our analysis of
the major trends affecting
the industry, from the
soaring need for memory,
to supercomputing, open
source systems such as

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Linux, cloud computing and the role of nanotechnology in computers. In addition, we provide major statistical tables covering the industry, from computer sector

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revenues to broadband
subscribers to
semiconductor industry
production. No other
source provides this
book's easy-to-understand
comparisons of growth,

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expenditures,
technologies,
imports/exports,
corporations, research and
other vital subjects. The
corporate profile section
provides in-depth, one-

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page profiles on each of the top 500 InfoTech companies. We have used our massive databases to provide you with unique, objective analysis of the largest and most exciting

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companies in: Computer
Hardware, Computer
Software, Internet
Services, E-Commerce,
Networking,
Semiconductors, Memory,
Storage, Information

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Management and Data Processing. We've been working harder than ever to gather data on all the latest trends in information technology. Our research effort

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includes an exhaustive study of new technologies and discussions with experts at dozens of innovative tech companies. Purchasers of the printed book or PDF version may

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receive a free CD-ROM database of the corporate profiles, enabling export of vital corporate data for mail merge and other uses.

As the price of servers

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comes down to the level of desktop PCs, many small- and medium-sized businesses are forced to provide their own server setup, maintenance and support, without the high-

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dollar training enjoyed by their big corporation counterparts. Upgrading and Repairing Servers is the first line of defense for small- and medium-sized businesses, and an

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excellent go-to reference
for the experienced
administrators who have
been asking for a
reference guide like this
one for a long time! It's
all here in one,

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incredibly useful tome that you will refer to again and again. Inside is in-depth coverage of server design and implementation, building and deploying, server

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hardware components,
network and backup
operations, SAN, fault
tolerance, server racks,
server rooms, server
operating systems, as well
as SUN Microsystems

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servers. No other computer hardware book has ever dared tackle this enormous topic - until now!

Microtimes

Plunkett's Infotech

Industry Almanac 2009

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A Playbook for Enabling
Innovation and Ecosystem
Growth

Proceedings of IC4S 2019

This important reference work is
an extensive, up-to-date resource
for students wanting to immerse

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themselves in the world of cybercrime, or for those seeking further knowledge of specific attacks both domestically and internationally. Cybercrime is characterized by criminal acts that take place in the borderless digital realm. It takes on many

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forms, and its perpetrators and victims are varied. From financial theft, destruction of systems, fraud, corporate espionage, and ransoming of information to the more personal, such as stalking and web-cam spying as well as cyberterrorism, this work covers

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the full spectrum of crimes committed via cyberspace. This comprehensive encyclopedia covers the most noteworthy attacks while also focusing on the myriad issues that surround cybercrime. It includes entries on such topics as the different types

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of cyberattacks, cybercrime techniques, specific cybercriminals and cybercrime groups, and cybercrime investigations. While objective in its approach, this book does not shy away from covering such relevant, controversial topics as

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Julian Assange and Russian interference in the 2016 U.S. presidential election. It also provides detailed information on all of the latest developments in this constantly evolving field. Includes an introductory overview essay that discusses all aspects

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of cybercrime—how it's defined, how it developed, and its massive expansion in recent years Offers a wide array of entries regarding cybercrime and the many ways it can be committed Explores the largest, most costly cyber attacks on a variety of victims, including

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corporations, governments,
consumers, and individuals

Provides up-to-date information
on the ever-evolving field of
cybercrime

Computerworld

Concepts, Methodologies, Tools,
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Co-Innovation Platforms
Cybercrime: An Encyclopedia of
Digital Crime