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High Performance Scientific and Engineering Computing Jul 30 2022 High Performance Scientific And Engineering Computing: Hardware/Software Support contains selected chapters on hardware/software support for high performance scientific and engineering computing from prestigious workshops in the fields such as PACT-SHPSEC, IPDPS-PDSECA and ICPP-HPSECA. This edited volume is basically divided into six main sections which include invited material from prominent researchers around the world. We believe all of these contributed chapters and topics not only provide novel ideas, new results and state-of-the-art techniques in this field, but also stimulate the future research activities in the area of high performance computing for science and engineering applications. High Performance Scientific And Engineering Computing: Hardware/Software Support is designed for a professional audience, composed of researchers and practitioners in industry. This book is also suitable as a secondary text for graduate-level students in computer science and engineering.

Advances in Digital Forensics VIII Dec 23 2021 Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Networked computing, wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence. Digital forensics also has myriad intelligence applications. Furthermore, it has a vital role in information assurance -- investigations of security breaches yield valuable information that can be used to design more secure systems. Advances in Digital Forensics VIII describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: themes and issues, forensic techniques, mobile phone forensics, cloud forensics, network forensics, and advanced forensic techniques. This book is the eighth volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of twenty-two edited papers from the Eighth Annual IFIP WG 11.9 International Conference on Digital Forensics, held at the University of Pretoria, Pretoria, South Africa in the spring of 2012. Advances in Digital Forensics VIII is an important resource for researchers, faculty members and graduate students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities. Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA. Sujeet Shenoi is the F.P. Walter Professor of Computer Science and a Professor of Chemical Engineering at the University of Tulsa, Tulsa, Oklahoma, USA.

Programming .NET Windows Applications Nov 09 2020 For those of you who develop standalone Windows applications for PCs and other devices, Microsoft's .NET Windows Forms provide a much better way to get it done. This new technology gives you more power and flexibility for a fraction of the effort compared to classic Win32 development, with a streamlined programming model that deals automatically with many tedious details that once plagued developers. As with most things .NET, the only hitch is the learning curve. But that's where acclaimed author Jesse Liberty makes the difference with Programming .NET Windows Applications. With this tutorial, you will explore all aspects of using .NET Windows Forms class libraries and the associated programming tools in Visual Studio .NET, enabling you to build applications for the Windows 9x, Windows 2000 and Windows XP desktop platforms. Step-by-step, you'll learn ways to design applications that either function alone on a PC, or work in combination with your web-based application server to take advantage of the richer interface and higher level of security. The book also explains how your new Windows applications can sidestep problems that used to arise from the use of DLLs (known collectively as "DLL hell"), and how .NET Windows Forms can be used as an alternative to ASP.NET and browser-based approaches for building web application clients. Jesse Liberty definitely knows his stuff when it comes to the .NET platform. As the author of O'Reilly's Programming C# and Learning Visual Basic .NET, he's well-known for his clear and concise style that prompted one reviewer to say, "It's as if he knows exactly what questions I'm going to ask ahead of time." Jesse also co-authored Programming ASP.NET with contract programmer Dan Hurwitz, and now the two have teamed up again to bring you this comprehensive tutorial--without a doubt, the best source available for learning how to program with .NET Windows Forms.

Machine Learning for Cyber Security Apr 26 2022 This book shows how machine learning (ML) methods can be used to enhance cyber security operations, including detection, modeling, monitoring as well as defense against threats to sensitive data and security systems. Filling an important gap between ML and cyber security communities, it discusses topics covering a wide range of modern and practical ML techniques, frameworks and tools.

Pro Microsoft Hyper-V 2019 Oct 01 2022 Successfully create and manage your Hyper-V environment without any of the marketing fluff. This book's lab-driven, hands-on approach will get you up and running as quickly and efficiently as possible. Virtualization is the cornerstone of today's data center. As a modern-day IT pro, you are required to manage environments that are in a regular state of flux and increasing in both size and complexity. To keep up, you need practical information in a format that is succinct, yet comprehensive and highly applicable. Pro Hyper-V 2019 breaks down critical and time-saving topics into a series of easy-to-digest chapters, showing you how to perform Hyper-V management tasks using both GUI and PowerShell-based tools. Building on your existing knowledge of Windows Server management, Active Directory, networking, and storage, experts and Microsoft MVPs Syrewicze and Siddaway begin with a foundation of why computing workloads are virtualized. This is followed by chapters covering the range of management tasks associated with virtualized environments, including: managing hosts and guest machines; networking, storage, and high availability (host and guest); disaster recovery and virtual machine migration; and monitoring. What You'll Learn Apply practical information to administer your Hyper-V environments Understand multiple administration styles (GUI, command line, and automation) Written by IT pros for IT pros - just the information you really need without the padding Administer and use containers Utilize hands-on labs to learn about storage, networking, and high availability Who This Book Is For IT administrators tasked with implementing Hyper-V environments or migrating from VMware. IT pros joining a team that is responsible for managing Hyper-V and "lone administrators" covering the gamut in smaller organizations will also find this book indispensable.

Digital Forensics and Cyber Crime Mar 14 2021 This book constitutes the thoroughly refereed post-conference proceedings of the 5th International ICST Conference on Digital Forensics and Cyber Crime, ICDf2C 2013, held in September 2013 in Moscow, Russia. The 16 revised full papers presented together with 2 extended abstracts and 1 poster paper were carefully reviewed and selected from 38 submissions. The papers cover diverse topics in the field of digital forensics and cybercrime, ranging from regulation of social networks to file carving, as well as technical issues, information warfare, cyber terrorism, critical infrastructure protection, standards, certification, accreditation, automation and digital forensics in the cloud.

Using Microsoft FrontPage 2000 Jan 30 2020 A guide to the Web authoring program for experienced users explains how to develop team-based Internet, intranet, and extranet sites

Lisp Lore: A Guide to Programming the Lisp Machine Nov 02 2022 This book had its genesis in the following piece of computer mail: From allegra!joan-b Tue Dec 18 09:15:54 1984 To: sola!hjb Subject: lispm Hank, I've been talking with Mark Plotnik and Bill Gale about asking you to conduct a basic course on using the lisp machine. Mark, for instance, would really like to cover basics like the flavor system, etc., so he could start doing his own programming without a lot of trial and error, and Bill and I would be interested in this, too. I'm quite sure that Mark Jones, Bruce, Eric and Van would also be really interested. Would you like to do it? Bill has let me know that if you'd care to set something up, he's free to meet with us anytime this week or next (although I'll only be here on Wed. next week) so we can come up with a plan. What do you think? Joan.

Blackie's Dictionary of Computer Science Mar 26 2022 The book provides a wide coverage of entries across software, hardware, firmware, operating systems, protocols, networking, data bases, graphics, security, artificial intelligence, programming logic, mathematics, game theory, software engineering and related areas of IT industry. The key features of the book are:

A Web Notebook: A First Course in Using the Internet and Web Design Sep 07 2020 This is an introductory course book. It teaches people how to use the Internet and to be able to create web pages using HTML. It is intended for students studying computing on an Access to Higher Education programme, though it could be used to benefit many other students as well. The book takes very little for granted, and has numerous examples with brief explanatory notes. There are also example assignments and solutions.

VMware Workstation - No Experience Necessary Mar 02 2020 This book is a practical, step-by-step guide to creating and managing virtual

machines using VMware Workstation. VMware Workstation: No Experience Necessary is for developers as well as system administrators who want to efficiently set up a test environment. You should have basic networking knowledge, and prior experience with Virtual Machines and VMware Player would be beneficial

Directory of Data Files Jan 24 2022

Systems and Virtualization Management: Standards and the Cloud Sep 19 2021 This volume contains the proceedings of the Third International DMTF Academic Alliance Workshop on Systems and Virtualization Management: Standards and the Cloud (SVM 2009) held in Wuhan, China, during September 22-23, 2009. The SVM 2009 proceedings are intended for use by students of systems and virtualization management. The reader is presumed to have a basic knowledge of systems management technologies and standards at the level provided, for example, by the Common Information Model (CIM) standard for modeling management resources. The student of systems management will find here material that could be included in an advanced study program. These proceedings should furthermore allow students to acquire an appreciation of the breadth and variety of systems and virtualization management research. The proceedings also illuminate related standards and research issues, answering questions such as: what are the implications of virtualization for distributed systems management, which advances in information models and protocols aid in managing virtualization, what new problems will we incur when managing virtualized systems and services, and how might management itself benefit from virtualization? Topics related to managing distributed systems, virtualization of distributed - sources/services and work in management standardization are also highlighted. There were 28 regular paper submissions. These went through an active review process, with each submission reviewed by at least three members of the Program Committee. We also sought external reviews from experts in certain areas. All these inputs were used by the Program Committee in selecting a final program with 12 regular papers.

Pro C# 2008 and the .NET 3.5 Platform Feb 10 2021 .NET 3.5 is Microsoft's largest development software launch since .NET 2.0 and (unlike .NET 3.0) completely replaces all previous .NET versions. A new version of Visual Studio - Visual Studio 'Orcas' is being created for the new Framework together with new versions of both the C# and Visual Basic languages. This book deals with this new C# language and provides developers with a complete treatise on the new technology - explaining the importance of all the new features (lambda expressions, LINQ, ASP.NET AJAX, WPF everywhere) and how they integrate into the framework of the previous .NET versions. It is a comprehensively revised and updated version of the author's previous award-winning titles.

Windows Server 2012 Hyper-V Installation and Configuration Guide Aug 31 2022 Go-to guide for using Microsoft's updated Hyper-V as a virtualization solution. Windows Server 2012 Hyper-V offers greater scalability, new components, and more options than ever before for large enterprises and small/medium businesses. Windows Server 2012 Hyper-V Installation and Configuration Guide is the place to start learning about this new cloud operating system. You'll get up to speed on the architecture, basic deployment and upgrading, creating virtual workloads, designing and implementing advanced network architectures, creating multitenant clouds, backup, disaster recovery, and more. The international team of expert authors offers deep technical detail, as well as hands-on exercises and plenty of real-world scenarios, so you thoroughly understand all features and how best to use them. Explains how to deploy, use, manage, and maintain the Windows Server 2012 Hyper-V virtualization solutions in large enterprises and small- to medium-businesses. Provides deep technical detail and plenty of exercises showing you how to work with Hyper-V in real-world settings. Shows you how to quickly configure Hyper-V from the GUI and use PowerShell to script and automate common tasks. Covers deploying Hyper-V hosts, managing virtual machines, network fabrics, cloud computing, and using file servers. Also explores virtual SAN storage, creating guest clusters, backup and disaster recovery, using Hyper-V for Virtual Desktop Infrastructure (VDI), and other topics. Help make your Hyper-V virtualization solution a success with Windows Server 2012 Hyper-V Installation and Configuration Guide.

Advances in Artificial Intelligence and Security Jun 04 2020 The 3-volume set CCIS 1422, CCIS 1423 and CCIS 1424 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security, ICAIS 2021, which was held in Dublin, Ireland, in July 2021. The total of 131 full papers and 52 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1013 submissions. The papers were organized in topical sections as follows: Part I: artificial intelligence; Part II: artificial intelligence; big data; cloud computing and security; Part III: cloud computing and security; encryption and cybersecurity; information hiding; IoT security.

Effective Coding with VHDL May 28 2022 A guide to applying software design principles and coding practices to VHDL to improve the readability, maintainability, and quality of VHDL code. This book addresses an often-neglected aspect of the creation of VHDL designs. A VHDL description is also source code, and VHDL designers can use the best practices of software development to write high-quality code and to organize it in a design. This book presents this unique set of skills, teaching VHDL designers of all experience levels how to apply the best design principles and coding practices from the software world to the world of hardware. The concepts introduced here will help readers write code that is easier to understand and more likely to be correct, with improved readability, maintainability, and overall quality. After a brief review of VHDL, the book presents fundamental design principles for writing code, discussing such topics as design, quality, architecture, modularity, abstraction, and hierarchy. Building on these concepts, the book then introduces and provides recommendations for each basic element of VHDL code, including statements, design units, types, data objects, and subprograms. The book covers naming data objects and functions, commenting the source code, and visually presenting the code on the screen. All recommendations are supported by detailed rationales. Finally, the book explores two uses of VHDL: synthesis and testbenches. It examines the key characteristics of code intended for synthesis (distinguishing it from code meant for simulation) and then demonstrates the design and implementation of testbenches with a series of examples that verify different kinds of models, including combinational, sequential, and FSM code. Examples from the book are also available on a companion website, enabling the reader to experiment with the complete source code.

Pro ASP.NET 3.5 in C# 2008 May 16 2021 * Completely up to date with the ASP.NET 2.0 technology and demonstrates the new best-practices and coding styles that it requires * Focuses on developer's needs, explaining the technology in a manner applicable to development projects * Provides comprehensive coverage of ASP.NET 2.0 (with C#.NET 2.0), providing thorough understanding of the subject area

Advances in Computing Science - ASIAN 2003, Programming Languages and Distributed Computation Jul 18 2021 This book constitutes the refereed proceedings of the 8th Asian Computing Science Conference, ASIAN 2003, held in Mumbai, India in December 2003. The 16 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 53 submissions. Among the topics addressed are type theory for operating systems protection, self-configurable servers, network services, predicate detection, hierarchical specification, proof theory, electronic auctions, secure mobile computing, programming calculi, access control, middleware, program logic, real-time systems, and probabilistic distributed systems.

ASP in a Nutshell Aug 19 2021 ASP in a Nutshell provides the high-quality reference documentation that web application developers really need to create effective Active Server Pages. It focuses on how features are used in a real application and highlights little-known or undocumented features. This book also includes an overview of the interaction between the latest release of Internet Information Server (version 5) and ASP 3.0, with an introduction to the IIS object model and the objects it comprises. The examples shown in this section and throughout the book are illustrated in VBScript. The main components of this book are: Active Server Pages Introduction. Brief overview of the ASP application paradigm with examples in VBScript. Also included is an introduction to Microsoft's Internet Information Server 5.0, the IIS object model, and the objects that it comprises. Object Reference. Each object is discussed in the following manner: descriptions, properties, collections, methods, events, accessory files/required DLLs, and remarks, including real-world uses, tips and tricks, and author's experience (where applicable). The objects--Application, Response, Request, Server, Session,ObjectContext, and ASPError, as well as ASP Directives, Global.ASA, and Server-Side Includes--all follow this paradigm. Component Reference. This section follows the same paradigm found in Object Reference. The discussion covers all of the additional components included with IIS, such as ActiveX Data Objects, the Ad Rotator, the Browser capabilities component, the File System Object, and more. Appendixes. Gives examples in one or two objects and components using Perl, REXX, and Python in ASP. Like other books in the "In a Nutshell" series this book offers the facts, including critical background information, in a no-nonsense manner that users will refer to again and again. It is a detailed reference that enables even experienced web developers to advance their ASP applications to new levels.

Managing the Windows 2000 Registry Oct 28 2019 The Windows 2000 Registry is the repository for all hardware, software, and application configuration settings, and this is the system administrator's guide to maintaining, monitoring, and updating the Registry database.

Electroencephalography Jul 06 2020 Established in 1982 as the leading reference on electroencephalography, Drs. Niedermeyer's and Lopes da Silva's text is now in its thoroughly updated Fifth Edition. An international group of experts provides comprehensive coverage of the neurophysiologic and technical aspects of EEG, evoked potentials, and magnetoencephalography, as well as the clinical applications of these studies in neonates, infants, children, adults, and older adults. This edition includes digital EEG and advances in areas such as neurocognition. Three new chapters cover the topics of Ultra-Fast EEG Frequencies, Ultra-Slow Activity, and Cortico-Muscular Coherence. Hundreds of EEG tracings and other illustrations complement the text.

Fundamentals of Digital Forensics Nov 29 2019 This practical and accessible textbook/reference describes the theory and methodology of digital forensic examinations, presenting examples developed in collaboration with police authorities to ensure relevance to real-world practice. The coverage includes discussions on forensic artifacts and constraints, as well as forensic tools used for law enforcement and in the corporate sector. Emphasis is placed on reinforcing sound forensic thinking, and gaining experience in common tasks through hands-on exercises. This enhanced second edition has been expanded with new material on incident response tasks and computer memory analysis. Topics and features: Outlines what computer forensics is, and what it can do, as well as what its limitations are. Discusses both the theoretical foundations and the fundamentals of forensic methodology. Reviews broad principles that are applicable worldwide. Explains how to find and interpret several important artifacts

Describes free and open source software tools, along with the AccessData Forensic Toolkit Features exercises and review questions throughout, with solutions provided in the appendices Includes numerous practical examples, and provides supporting video lectures online This easy-to-follow primer is an essential resource for students of computer forensics, and will also serve as a valuable reference for practitioners seeking instruction on performing forensic examinations. Joakim Kävrestad is a lecturer and researcher at the University of Skövde, Sweden, and an AccessData Certified Examiner. He also serves as a forensic consultant, with several years of experience as a forensic expert with the Swedish police. Mastercam X9 - 2 1/2D, 3 Axis Mill Programming Sep 27 2019 A comprehensive guide to using Mastercam X9 to create part programs. Geometry creation using both the solid and wireframe modelers is covered in great detail. All standard 2 1/2 D toolpaths and many 2D high speed toolpaths are explained in great detail. All methods of stock creation are completely explained.

Pro C# 5.0 and the .NET 4.5 Framework Oct 21 2021 This new edition of Pro C# 5.0 and the .NET 4.5 Platform has been completely revised and rewritten to reflect the latest changes to the C# language specification and new advances in the .NET Framework. You'll find new chapters covering all the important new features that make .NET 4.5 the most comprehensive release yet, including: .NET APIs for Windows 8 style UI apps New asynchronous task-based model for async operations How HTML5 support is being wrapped into C# web applications New programming interfaces for HTTP applications, including improved IPv6 support Expanded WPF, WCF and WF libraries giving C# more power than ever before This comes on top of award winning coverage of core C# features, both old and new, that have made the previous editions of this book so popular (you'll find everything from generics to PLINQ covered here). The mission of this text is to provide you with a rock-solid foundation in the C# programming language and the core aspects of the .NET platform (assemblies, remoting, Windows Forms, Web Forms, ADO.NET, XML web services, etc.). Once you digest the information presented in these 25 chapters, you'll be in a perfect position to apply this knowledge to your specific programming assignments, and you'll be well equipped to explore the .NET universe on your own terms.

Hands on Virtual Computing Feb 22 2022 Reader equip themselves for today's dramatically changing IT world with the insights and timely instruction in HANDS-ON VIRTUAL COMPUTING, 2E. Whether a novice or experienced IT professional, this unique book combines current theory and developing concepts with practical hands-on activities and projects to help readers master virtualization and learn to apply those skills in real world scenarios. Readers gain experience working with the latest virtualization technology and learn the differences between the two major leaders in virtualization products -- VMware and Microsoft. Specific chapters address Oracle VirtualBox, VMware Workstation, Microsoft Hyper-V, VMware vSphere, and virtualization in software-defined data centers. Readers develop the solid understanding of virtualization concepts and products needed to advance today's IT career. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Inside Java 2 Platform Security Aug 26 2019 This authoritative Java security book is written by the architect of the Java security model. It chronicles J2EE v1.4 security model enhancements that will allow developers to build safer, more reliable, and more impenetrable programs. A+ Guide to IT Technical Support (Hardware and Software) Dec 11 2020 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.

Virtualization Essentials Jan 12 2021 Learn virtualization skills by building your own virtual machine Virtualization Essentials, Second Edition provides new and aspiring IT professionals with immersive training in working with virtualization environments. Clear, straightforward discussion simplifies complex concepts, and the hands-on tutorial approach helps you quickly get up to speed on the fundamentals. You'll begin by learning what virtualization is and how it works within the computing environment, then you'll dive right into building your own virtual machine. You'll learn how to set up the CPU, memory, storage, networking, and more as you master the skills that put you in-demand on the job market. Each chapter focuses on a specific goal, and concludes with review questions that test your understanding as well as suggested exercises that help you reinforce what you've learned. As more and more companies are leveraging virtualization, it's imperative that IT professionals have the skills and knowledge to interface with virtualization-centric infrastructures. This book takes a learning-by-doing approach to give you hands-on training and a core understanding of virtualization. Understand how virtualization works Create a virtual machine by scratch and migration Configure and manage basic components and supporting devices Develop the necessary skill set to work in today's virtual world Virtualization was initially used to build test labs, but its use has expanded to become best practice for a tremendous variety of IT solutions including high availability, business continuity, dynamic IT, and more. Cloud computing and DevOps rely on virtualization technologies, and the exponential spread of these and similar applications make virtualization proficiency a major value-add for any IT professional. Virtualization Essentials, Second Edition provides accessible, user-friendly, informative virtualization training for the forward-looking pro.

Malware Aug 07 2020 Describes various types of malware, including viruses, worms, user-level RootKits, and kernel-level manipulation, their characteristics and attack method, and how to defend against an attack.

IBM Tivoli Storage Productivity Center V5.1 Technical Guide Dec 03 2022 IBM® Tivoli® Storage Productivity Center V5.1 products offer storage infrastructure management that helps optimize storage management by centralizing, simplifying, automating, and optimizing storage tasks associated with storage systems, data disaster recovery, storage networks, and capacity management. IBM Tivoli Storage Productivity Center V5.1 products include: IBM Tivoli Storage Productivity Center V5.1 IBM Tivoli Storage Productivity Center Select Edition V5.1 Tivoli Storage Productivity Center V5.1 is designed to provide device management capabilities, such as automated system discovery, provisioning, data replication, configuration, and performance monitoring for storage systems and storage networks. Tivoli Storage Productivity Center Select Edition V5.1 offers the same features as Tivoli Storage Productivity Center V5.1 but at attractive entry-level pricing for operations with smaller capacities. It is licensed per storage device, such as disk controllers and their respective expansion units. This IBM Redbooks® publication is intended for storage administrators and users who are installing and using the features and functions in IBM Tivoli Storage Productivity Center V5.1. The information in this book can be used to plan for, install, and customize the components of Tivoli Storage Productivity Center in your storage infrastructure.

Mastering Visual Studio .NET Jan 04 2023 A detailed handbook for experienced developers explains how to get the most out of Microsoft's Visual Studio .NET, offering helpful guidelines on how to use its integrated development environment, start-up templates, and other features and tools to create a variety of applications, including Web services. Original. (Advanced)

Developing and Hosting Applications on the Cloud Apr 02 2020 A Complete, Practical Guide to Building and Hosting Cloud Services That Deliver Exceptional Business Value In this unique title, key developers of the IBM SmartCloud Enterprise share indispensable insights for developing and operating cloud-based solutions on any cloud platform. Drawing on their unsurpassed in-the-trenches experience, the authors help you develop the new mindset and skills needed to succeed in cloud environments, where development, business, and system operations are linked more tightly than ever. Using examples based on IBM SmartCloud Enterprise, the authors cover a wide variety of cloud "use cases," while also introducing general principles for automating and optimizing IT infrastructure in any cloud environment. They begin by presenting an authoritative, accessible review of cloud computing and Infrastructure as a Service (IaaS) cloud concepts. Next, they demonstrate how to use cloud tools, develop basic cloud applications, and utilize standards to establish interoperability between clouds. Finally, drawing on deep personal experience, they offer best-practice solutions for all facets of cloud hosting, including security, monitoring, performance, availability, and business support. Throughout, they emphasize real-world problem solving, offering numerous code examples and practical demonstrations of real-world tools and utilities. Coverage includes Understanding each cloud deployment model: private, community, public, and hybrid Reviewing key cloud computing use cases, including those based on virtualization and collaboration Developing for the cloud with the LAMP stack, Windows, J2EE, WebSphere, and other technologies Building apps for the IBM SmartCloud Enterprise public infrastructure Using the command line toolkit, Java, and REST APIs to manage IBM SmartCloud Enterprise resources Exploring cloud computing standards and open source projects that promote interoperability among clouds Building cloud applications to customize images, deliver network services, install/manage software, and provide remote desktops Using IBM's powerful self-service and delegated administration models and best-of-breed VM images Leveraging open source projects for cloud service management and virtualization Understanding cloud service security: trusted certificates, identity/access management, SSH, HTTPS, IPSec, application hardening, and much more Monitoring and optimizing performance and availability through the entire system lifecycle Mana...

Data User News Dec 31 2019

Advances in Digital Forensics V May 04 2020 Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Networked computing, wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence. Digital forensics also has myriad intelligence applications. Furthermore, it has a vital role in information assurance - investigations of security breaches yield valuable information that can be used to design more secure systems. Advances

in Digital Forensics V describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: themes and issues, forensic techniques, integrity and privacy, network forensics, forensic computing, investigative techniques, legal issues and evidence management. This book is the fifth volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of twenty-three edited papers from the Fifth Annual IFIP WG 11.9 International Conference on Digital Forensics, held at the National Center for Forensic Science, Orlando, Florida, USA in the spring of 2009.

Advances in Digital Forensics V is an important resource for researchers, faculty members and graduate students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities.

CompTIA Cloud+ Guide to Cloud Computing Apr 14 2021 West's COMPTIA CLOUD+ GUIDE TO CLOUD COMPUTING, 2nd Edition, equips students and professionals interested in mastering fundamental, vendor-independent cloud computing concepts. Fully updated content maps to the CompTIA Cloud+ (CVO-003) exam objectives. The new exam has less emphasis on physical host configuration and more emphasis on cloud infrastructure, management and security. Each module in the second edition is packed with enriched features that provide the most effective and durable learning experience, such as self-check questions, group activities and capstone projects that enable learners to strengthen their new skills and knowledge through real design and deployment scenarios. In addition, learners have the opportunity to work with three popular cloud platforms: AWS (Amazon Web Services), Microsoft Azure and GCP (Google Cloud Platform). Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

C# 6.0 and the .NET 4.6 Framework Nov 21 2021 This new 7th edition of Pro C# 6.0 and the .NET 4.6 Platform has been completely revised and rewritten to reflect the latest changes to the C# language specification and new advances in the .NET Framework. You'll find new chapters covering all the important new features that make .NET 4.6 the most comprehensive release yet, including: A Refined ADO.NET Entity Framework Programming Model Numerous IDE and MVVM Enhancements for WPF Desktop Development Numerous updates to the ASP.NET Web APIs This comes on top of award winning coverage of core C# features, both old and new, that have made the previous editions of this book so popular. Readers will gain a solid foundation of object-oriented development techniques, attributes and reflection, generics and collections as well as numerous advanced topics not found in other texts (such as CIL opcodes and emitting dynamic assemblies). The mission of this book is to provide you with a comprehensive foundation in the C# programming language and the core aspects of the .NET platform plus overviews of technologies built on top of C# and .NET (ADO.NET and Entity Framework, Windows Communication Foundation (WCF), Windows Presentation Foundation (WPF), ASP.NET (WebForms, MVC, WebAPI)). Once you digest the information presented in these chapters, you'll be in a perfect position to apply this knowledge to your specific programming assignments, and you'll be well equipped to explore the .NET universe on your own terms. What You Will Learn: Be the first to understand the .NET 4.6 platform and C# 6. Discover the ins and outs of the leading .NET technology. Learn from an award-winning author who has been teaching the .NET world since version 1.0. Find complete coverage of XAML, .NET 4.6 and Visual Studio 2015 together with discussion of the new Windows Runtime.

Data User News Oct 09 2020

Computing Center Memo Jun 28 2022

On Perl Jun 16 2021 The book has an introductory chapter that gets the reader started quickly with programming in Perl. The initial part of the book discusses Perl expressions, statements, control flow, built-in data types such as arrays and hashes, and complex data structures built using references. On Perl has several chapters covering specialized topics. The chapter on socket-based network programming deals with forking and using fork to write complex interactive client-server programs. There is a chapter with in-depth discussion of CGI programming including error-handling and security issues that arise. The chapter on web-client programming deals with writing programs that access Web pages, fill up GET and POST forms, handle cookies and redirected Web pages. The book has several unique chapters not found in any other book on Perl in the market. The chapter on security discusses hashes such as MD5, message authentication codes (MACs), digital signature schemes, and encryption techniques such as DES, Rijndael, and RSA. Other chapters deal with writing recursive programs that work with files and directories; this chapter also discusses predefined modules that deal with portability in file names and paths across operating systems, recursive traversal of file hierarchies and tarring and untarring of files. The chapter on functional programming illustrates that Perl functions are first-class, can be used to write closures and can be composed to form more complex functions. In particular, this can be useful for programming in artificial intelligence.