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One of the major highlights of this year's IBM Think event was Prolifics Inc. The software solutions company takes a starkly different approach to meet clients' needs — helping them along their entire ...

Prolifics Inc. and its out-of-the-box business model

The idea of computing via the cloud has become so commonplace through the pandemic that virtually no one gives it much of a thought anymore. Application ...

Microsoft Windows 365 moves your PC to the cloud

Platform9, the leader in open-source private, edge, and hybrid cloud-native technologies and the first to offer enterprises a complete SaaS management plane for Kubernetes, today announced the launch ...

Platform9 Unveils First Managed KubeVirt Solution to Unify Virtual Machines and Kubernetes Stacks

Sunlight.io launched Infrastructure Manager and Marketplace for simple deployment of applications in Edge environments and in the cloud.

Sunlight's New Offering Makes It Easy to Deliver Edge Applications "as-a-Service"

Schneider Electric, the leader in digital transformation of energy management and automation, in collaboration with its Elite Partner, ...

Hospital Trust Deploys Schneider Electric's EcoStruxure™ IT Expert to Ensure Data Centre Resiliency and Always-on IT Operations

In the search for greater efficiency, lower operating costs and increased productivity, more local firms are turning to cloud computing solutions that can guarantee these results. This feedback came ...

Jamaican firms turn to cloud computing

This takes advantage of the instant resource capabilities that cloud computing and virtualization technologies offer, which use automated programming to complete tasks. This makes it easy to scale and ...

Infrastructure as Code: A Developer-Minded Approach to Higher Ed Cloud Computing

A specialist platform developed ... and bloggers to deliver insight and advice on cloud IT strategy to our extensive audience of CIOs and IT managers. Covering SaaS news, cloud computing jobs, ...

81% of firms have accelerated their cloud computing plans due to COVID-19

A cloud computing server is a virtual server (rather than a physical server) used to perform application- and information-processing storage. These servers are created using virtualization ...

Cloud Computing Server Market to Witness Remarkable Growth by 2025 | Microsoftation, IBMoration, VMware

Follow @dannyyena One of the biggest trends to take shape over the past decade has been the growing adoption of cloud computing ... life as an inbound marketing specialist, HubSpot (NYSE:HUBS ...

3 Top Cloud Computing Stocks to Buy Right Now

There's a silver lining to what initially looks like a very dark cloud ... can deploy a complete 5G network with gNodeB (gNB), User Plane Function (UPF), 5G Core Control Plane (5GC CP), Unified Data ...

Private 5G networks: inside the operator opportunity

The COVID-19 pandemic may be lessening in the U.S., but its effects on enterprise cloud computing costs and security concerns ... they also were commissioned with cutting waste," said Anodot, a ...

Surveys Show COVID-19 Stresses on Cloud Costs, Security

With the ubiquitous adoption of Kubernetes, cloud-native container ... systems pre-integrate the entire stack of computing, network, storage, and virtualization resources in a scale-out server.

Hyper-Converged Infrastructure to lead the way for next-gen application modernization

It offers a complete suite of cloud services to customers worldwide, including elastic computing, database, storage, network virtualization services, large-scale computing, security, management ...

Check Point Software Technologies Expands its Unified Cloud Native Platform to Support Alibaba Cloud

With the FLASHBOX™, Kalray will be able to offer its customers and partners, enterprises and cloud service providers a complete NVM storage appliance ... in the context of an accelerator card and ...

HH 2020 EARNINGS: KALRAY CONTINUES TO DEPLOY ITS ACCELERATION CARDS IN ITS MARKETS AND CONFIRMS ITS AMBITIONS

"Overall, the feedback from the event indicated that there are still entities that want to complete ... Cloud Specialist Claudine Blackwood noted that while the demand for cloud computing ...

Improve the efficiency and availability of IT resources and applications through virtualization and transform your business. Eliminate the old "one server, one application" model and run multiple virtual machines on each physical machine. Free your IT admins from spending so much time managing servers rather than innovating. About 70% of a typical IT budget in a non-virtualized datacenter goes towards just maintaining the existing infrastructure, with little left for innovation. Today's x86 computer hardware was designed to run a single operating system and a single application, leaving most machines vastly underutilized. Virtualization lets you run multiple virtual machines on a single physical machine, with each virtual machine sharing the resources of that one physical computer across multiple environments. Different virtual machines can run different operating systems and multiple applications on the same physical computer. This book provides the quality education and support materials needed to enable the understanding and application of Virtualization in a wide range of contexts. This comprehensive book comes with access to the eLearn Virtualization Specialist program provided by The Art of Service. In this updated 2nd edition, we listened to your feedback and created a more focused, specialized manual which dives straight into Virtualization. We hope you find this book to be a useful tool in your educational library and wish you well in your IT Service Management career! This Kit contains the book and online course access that provides everything you need to prepare for the Virtualization Specialist Certification Exam, including in-depth coverage of all exam objectives, scenarios to easily demonstrate the processes in action, and practice exam questions for that last minute test preparation. This Study Guide and Online Course access provides complete, in-depth coverage of all exam objectives for the Virtualization Specialist exam in a systematic approach, so you can be confident you're getting the instruction you need. * Real-world scenarios put what you've learned in the context of service solutions. * Thought provoking questions to challenge your thinking and understanding. * Exam Essentials in each chapter helps you zero in on what you need to know. * Includes practice exam questions * A Real World Guide to Virtualization Skills. * Key information and real world examples organized around the actual day-to-day tasks and challenges you'll face in the field of IT Management. * Practice what you've learned with challenging Virtualization Specialist exam style questions. Based on specific exam objectives - use this as a lab manual for certification preparation.

Chapter 1 -- Next-Generation IT Trends -- Layers of Function: The Service-Oriented Infrastructure Framework -- Blocks of Function: The Cloud Modules -- Cloud Computing Characteristics -- Computing Taxonomy -- Chapter 2 -- Next-Generation Data Center Architectures and Technologies -- The Data Center Consolidation and Virtualization Modus Operandi -- Server Consolidation Drivers -- Server Virtualization -- Storage Virtualization -- Layer 2 Evolutions -- Unified Data Center Fabric -- Chapter 3 -- Next-Generation WAN and Service Integration -- Service Integration in the Data Center -- Infrastructure Segmentation -- The Next-Generation Enterprise WAN -- Chapter 4 -- Branch Consolidation and WAN Optimization -- What is the WAN performance challenge? -- WAN Optimization Benefits -- Requirements for WAN Optimization Deployment -- Remote Office Virtualization Designs -- Chapter 5 -- Session Interception Design and Deployment -- Selecting an Interception Mechanism -- The WCCP Dive -- In-path Dep ...

Recent advances in internet architecture have led to the advent and subsequent explosion of cloud computing technologies, providing businesses with a powerful toolbox of collaborative digital resources. These technologies have fostered a more flexible, decentralized approach to IT infrastructure, enabling businesses to operate in a more agile fashion and on a globalized scale. Enterprise Management Strategies in the Era of Cloud Computing seeks to explore the possibilities of business in the cloud. Targeting an audience of research scholars, students, software developers, and business professionals, this premier reference source provides a cutting-edge look at the exciting and multifaceted relationships between cloud computing, software virtualization, collaborative technology, and business infrastructure in the 21st century.

One of the most important ideas behind cloud computing is scalability, and the key technology that makes that possible is virtualization. Virtualization, in its broadest sense, is the emulation of one of more workstations/servers within a single physical computer. Put simply, virtualization is the emulation of hardware within a software platform. This allows a single computer to take on the role of multiple computers. This type of virtualization is often referred to as full virtualization, allowing one physical computer to share its resources across a multitude of environments. This means that a single computer can essentially take the role of multiple computers. Although virtualization technology has been around for many years, it is only now beginning to be fully deployed. One of the reasons for this is the increase in processing power and advances in hardware technology. As the benefits of virtualization are realised, we can observe the benefits to a wide range of users, from IT professionals, to large businesses and government organizations. The primary goal of this book is to provide the quality education and support materials needed to enable the understanding and application of Virtualization in a wide range of contexts. IT professionals need to know a whole lot more about the various ways of delivering services to the customers and end-users. It is no longer sufficient just to know the differences between Windows based or Linux based architecture. These days, most services will utilize some form of Virtualization. So with the change in computing and IT Service delivery comes a whole new series of qualifications and certification. The Virtualization Certification Scheme has been created to support the IT Professional who needs to be a 'niche generalist', especially in a rapidly changing area like Virtualization. First, you need to create the foundation - The Virtualization Best Practice Guide focuses on the fundamentals, general knowledge, terminology and concepts used in Virtualization. This book Covers: - Virtualization: How to Virtualize Your IT Environment. - Virtualization: How to Reduce Costs with Virtualization Solutions. - Choosing Virtualization: Factors affecting virtualization technology choices. - Virtualization: Improve Utilization, Simplify IT and enhance your business. - Virtualization Strategies: Control VM Sprawl and Overcome Virtualization Stall. Filled with thought provoking questions to challenge your thinking and understanding, this book is your Real World Guide to Virtualization Skills, with Key information and real world examples organized around the actual day-to-day tasks and challenges you'll face in the field of IT Management.

Web service technologies are redefining the way that large and small companies are doing business and exchanging information. Due to the critical need for furthering automation, engagement, and efficiency, systems and workflows are becoming increasingly more web-based. Web Services: Concepts, Methodologies, Tools, and Applications is an innovative reference source that examines relevant theoretical frameworks, current practice guidelines, industry standards and standardization, and the latest empirical research findings in web services. Highlighting a range of topics such as cloud computing, quality of service, and semantic web, this multi-volume book is designed for computer engineers, IT specialists, software designers, professionals, researchers, and upper-level students interested in web services architecture, frameworks, and security.

Cloud Computing

The purpose of this book is first to study cloud computing concepts, security concern in clouds and data centers, live migration and its importance for cloud computing, the role of firewalls in domains with particular focus on virtual machine (VM) migration and its security concerns. The book then tackles design, implementation of the frameworks and prepares test-beds for testing and evaluating VM migration procedures as well as firewall rule migration. The book demonstrates how cloud computing can produce an effective way of network management, especially from a security perspective.

Do you want to explore the fundamentals of cloud computing? Do you want to understand cloud computing concepts and technologies? If You Answered "Yes" To Any of The Above, Look No Further. This is the book for you! Hello! Welcome to "CLOUD COMPUTING". Cloud Computing is becoming the mainstream in the IT world as a growing amount of companies around the globe are in the process of a digital transformation while using the power of cloud-based services. Cloud Computing has really changed the way companies looking into their digital Infrastructure now a days. Cloud computing with its unique paradigms brings in new opportunities and challenges for developers and administrators worldwide. The book will start with basic introduction to cloud concepts like SAAS, PAAS and IAAS. You will also learn how Linux systems is changing the Infrastructure landscape worldwide. This book helps you to understand the muchneeded concepts of the Cloud Computing. We have clearly explained how Traditional IT environment works and how Cloud Computing differs from it. You will understand the various models of Cloud Computing, the leading Cloud Computing platforms, comparisons between the platforms. You will also come to know about cloud service model and cloud deployment model in detail with cloud computing examples related to our day-to-day life business scenarios. Here's what makes this book special: Introduction to Cloud Computing The Main Types of Cloud Computing Network Cloud Services & Cloud Networking Services Cloud Computing Trends For 2021 Cloud Platforms and Infrastructure Advantages of the "Public Cloud" Productivity, Time-To-Market, Modernization How to Choose the Best Solution: Tips for A Conscious Selection Much, much more! ? This book is different from others because in this book: You will learn cloud distribution models You will learn about emerging cloud service categories You will learn about skills of a cloud specialist Learn Cloud Computing, Planning, Technologies, Architecture, Infrastructure, Cloud Models, IaaS, PaaS, SaaS & more!

This book reviews the challenging issues that present barriers to greater implementation of the cloud computing paradigm, together with the latest research into developing potential solutions. Topics and features: presents a focus on the most important issues and limitations of cloud computing, covering cloud security and architecture, QoS and SLAs; discusses a methodology for cloud security management, and proposes a framework for secure data storage and identity management in the cloud; introduces a simulation tool for energy-aware cloud environments, and an efficient congestion control system for data center networks; examines the issues of energy-aware VM consolidation in the IaaS provision, and software-defined networking for cloud related applications; reviews current trends and suggests future developments in virtualization, cloud security, QoS data warehouses, cloud federation approaches, and DBaaS provision; predicts how the next generation of utility computing infrastructures will be designed.

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