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- Economics and Security Implications of Cloud Computing
- Designing Hyper-V Solutions
- Embedded Computing Systems: Applications, Optimization, and Advanced Design
- Emerging Networking in the Digital Transformation Age
- Converged Infrastructure 40 Success Secrets - 40 Most Asked Questions on Converged Infrastructure - What You Need to Know
- Windows Server 2012 Hyper-V Installation and Configuration Guide
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Optimizing Citrix® XenDesktop® for High Performance

There has never been a Converged Infrastructure Guide like this. It contains 40 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about Converged Infrastructure. A quick look inside of some of the subjects covered: EMC Corporation History, PureSystems - Architecture, Modular data center, Cloud infrastructure - Advantages, HP Enterprise Services - Major clients, Orchestration (computing), Cloud computing - Advantages, Dynamic infrastructure, Converged infrastructure Converged infrastructure and cloud computing, Information technology management Overview, HP Converged Cloud - Converged infrastructure, Infrastructure as a Service (IaaS) - Advantages, IT management - Overview, Next-generation network - Implementations, HP-UX - Future versions, VCE (company) - Products and services, Cloud computing Advantages, Orchestration (computers), Converged infrastructure The evolution of data centers, HP Enterprise Business - HP DISCOVER customer event, EMC Corporation - History, Next-generation network - Implementations, Desktop as a service - Virtual desktop infrastructure, HP Enterprise Services - HP Discover customer event, Converged infrastructure

Benefits of converged infrastructure, Network administrators, HP Technology Services - Services, HP Converged Cloud - Open standards, HP Discover - HP Discover 2011, FalconStor - Awards, Virtualisation - Desktop virtualization, Linaro - Activities, HP Enterprise Business - Technology and products, Virtualization - Desktop virtualization, Converged storage, and much more...

The Cloud Computing Journey Packt Publishing Ltd

Embedded computing systems play an important and complex role in the functionality of electronic devices. With our daily routines becoming more reliant on electronics for personal and professional use, the understanding of these computing systems is crucial. Embedded Computing Systems: Applications, Optimization, and Advanced Design brings together theoretical and technical concepts of intelligent embedded control systems and their use in hardware and software architectures. By highlighting formal modeling, execution models, and optimal implementations, this reference source is essential for experts, researchers, and technical supporters in the industry and academia.

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[Getting Started with Nano Server](#)

This book constitutes the proceedings of the 26th European Conference on Advances in Databases and Information Systems, ADBIS 2022, held in Turin, Italy, in September 2022. The 29 short papers presented were carefully reviewed and selected from 90 submissions. The selected short papers are organized in the following sections: data understanding, modeling and visualization; fairness in data processing; data management pipeline, information and process retrieval; data access optimization; data pre-processing and cleaning; data science and machine learning. Further, papers from the following workshops and satellite events are provided in the volume: DOING: 3rd Workshop on Intelligent Data - From Data to Knowledge; K-GALS: 1st Workshop on Knowledge Graphs Analysis on a Large Scale; MADEISD: 4th Workshop on Modern Approaches in Data Engineering and Information System Design; MegaData: 2nd Workshop on Advanced Data Systems Management, Engineering, and Analytics; SWODCH: 2nd Workshop on Semantic Web and Ontology Design for Cultural Heritage; Doctoral Consortium.

[NX-OS and Cisco Nexus Switching](#) Springer Science & Business Media

Remain highly competitive in the server and VM market by gaining the practical skills needed to operate Nano Server About This Book The days of the local server are numbered, and this book will make you an ace by giving you the skills needed to administer Nano Server and survive in the brave new server world Learn to quickly automate multiple VMs and support Hyper-V clusters, all through small footprints from a single host Apply up-to-date, real-world examples presented in this book and improve the scalability and efficiency of large-scale VM deployments Who This Book Is For This book opens up new potential for both developers and IT pros alike. The book is primarily for Server administrators and IT Professionals who would like to deploy and administer Nano Server within their organizations, and for developers who are trying to make maximal use of Server Containers and Hyper-V Containers with Nano Servers. What You Will Learn Understand Nano Server Deploy Nano Server Deploy Hyper-V Clusters on Nano Server Deploy Nano Server with SCVMM Manage Nano Server using PowerShell and Remote Server Management Tools Manage Nano Server with third-party tools Run Server Containers and Hyper-V Containers on Nano Server Troubleshoot Nano Server Validate developed applications that run on Nano Server In Detail Nano Server allows developers and operations teams to work closely together and use containers that package applications so that the entire platform works as one. The aim of Nano Server is to help applications run the way they are intended to. It can be used to run and deploy infrastructures (acting as a compute host, storage host, container, or VM guest operating system) without consuming significant resources. Although Nano Server isn't intended to replace Server 2016 or 2012 R2, it will be an attractive choice for developers and IT teams. Want to improve your ability to deploy a new VM and install and deploy container apps within minutes? You have come to the right place! The objective of this book is to get you started with Nano Server successfully. The journey is quite exciting, since we are introducing you to a cutting-edge technology that will revolutionize today's datacenters. We'll cover everything from the basic to advanced topics. You'll discover a lot of added value from using Nano Server, such as hundreds of VM types on a single host through a small footprint, which could be a big plus for you and your company. After reading this book, you will have the necessary skills to start your journey effectively using Nano Server. Style and approach Gauge all the information needed to get up-and-running with the latest Nano Server built by Microsoft using this easy to follow step-by-step guide.

[Network Architect's Handbook](#) Cisco Press

This book contains high-quality refereed research papers presented at the Fifth International Conference on Computer Science, Engineering, and Education Applications (ICCSEEA2022), which took place in Kyiv, Ukraine, on February 21–22, 2022, and was organized by the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute," National Aviation University, and the International Research Association of Modern Education and Computer Science. State-of-the-art studies in computer science, artificial intelligence, engineering methodologies, genetic coding systems, deep learning with medical applications, and knowledge representation with educational applications are among the topics covered in the book. For academics, graduate students, engineers, management practitioners, and undergraduate students interested in computer science and its applications in engineering and education, this book is a valuable resource.

[New Trends in Database and Information Systems](#) IGI Global

Storage Systems: Organization, Performance, Coding, Reliability and Their Data Processing was motivated by the 1988 Redundant Array of Inexpensive/Independent Disks proposal to replace large form factor mainframe disks with an array of commodity disks. Disk loads are balanced by striping data into strips—with one strip per disk— and storage reliability is enhanced via replication or erasure coding, which at best dedicates k strips per stripe to tolerate k disk failures. Flash memories have resulted in a paradigm shift with Solid State Drives (SSDs) replacing Hard Disk Drives (HDDs) for high performance applications. RAID and Flash have resulted in the emergence of new storage companies, namely EMC, NetApp, SanDisk, and Purestorage, and a multibillion-dollar storage market. Key new conferences and publications are reviewed in this book. The goal of the book is to expose students, researchers, and IT professionals to the more important developments in storage systems, while covering the evolution of storage technologies, traditional and novel databases, and novel sources of data. We describe several prototypes: FAWN at CMU, RAMCloud at Stanford, and Lightstore at MIT; Oracle's Exadata, AWS' Aurora, Alibaba's PolarDB, Fungible Data Center; and author's paper designs for cloud storage, namely heterogeneous disk arrays and hierarchical RAID. Surveys storage technologies and lists sources of data: measurements, text, audio, images, and video Familiarizes with paradigms to improve performance: caching, prefetching, log-structured file systems, and merge-trees (LSMs) Describes RAID organizations and analyzes their performance and reliability Conserves storage via data compression, deduplication, compaction, and secures data via encryption Specifies implications of storage technologies on performance and power consumption Exemplifies database parallelism for big data, analytics, deep learning via multicore CPUs, GPUs, FPGAs, and ASICs, e.g., Google's Tensor Processing Units

[Weak Convergence and Empirical Processes](#) Emereo Publishing

Improve Manageability, Flexibility, Scalability, and Control with Hyperconverged Infrastructure Hyperconverged infrastructure (HCI) combines storage, compute, and networking in one unified system, managed locally or from the cloud. With HCI, you can leverage the cloud's simplicity, flexibility, and scalability without losing control or compromising your ability to scale. In Hyperconverged Infrastructure Data Centers, best-selling author Sam Halabi demystifies HCI technology, outlines its use cases, and compares solutions from a vendor-neutral perspective. He guides you through evaluation,

planning, implementation, and management, helping you decide where HCI makes sense, and how to migrate legacy data centers without disrupting production systems. The author brings together all the HCI knowledge technical professionals and IT managers need, whether their background is in storage, compute, virtualization, switching/routing, automation, or public cloud platforms. He explores leading solutions including the Cisco HyperFlex platform, VMware vSAN, Nutanix Enterprise Cloud, Cisco Application-Centric Infrastructure (ACI), VMware's NSX, the open source OpenStack and Open vSwitch (OVS) / Open Virtual Network (OVN), and Cisco CloudCenter for multicloud management. As you explore discussions of automation, policy management, and other key HCI capabilities, you'll discover powerful new opportunities to improve control, security, agility, and performance. Understand and overcome key limits of traditional data center designs Discover improvements made possible by advances in compute, bus interconnect, virtualization, and software-defined storage Simplify rollouts, management, and integration with converged infrastructure (CI) based on the Cisco Unified Computing System (UCS) Explore HCI functionality, advanced capabilities, and benefits Evaluate key HCI applications, including DevOps, virtual desktops, ROBO, edge computing, Tier 1 enterprise applications, backup, and disaster recovery Simplify application deployment and policy setting by implementing a new model for provisioning, deployment, and management Plan, integrate, deploy, provision, manage, and optimize the Cisco HyperFlex hyperconverged infrastructure platform Assess alternatives such as VMware vSAN, Nutanix, open source OpenStack, and OVS/OVN, and compare architectural differences with HyperFlex Compare Cisco ACI (Application-Centric Infrastructure) and VMware NSX approaches to network automation, policies, and security This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

[An Introduction to Homological Algebra](#) Packt Publishing Ltd

Smart Spaces combines the study of working or living spaces with computing, information equipment, and multimodal sensing devices, and with natural and convenient interactive interfaces to support how people can easily obtain services from computer systems. People's work and life in smart spaces use computer systems; it is a process of uninterrupted interaction between people and the computer system. In this process, the computer is no longer just an information processing tool that passively executes explicit human operation commands but a collaborator with people to complete tasks – a partner to human beings. International research on smart spaces is quite extensive, which shows the important role of smart spaces in ubiquitous computing research. Smart Spaces covers the latest research concepts and technologies of smart spaces, providing technical personnel engaged in smart space related research and industries a more in-depth understanding of smart spaces. This book can be used as a reference for practicing the emerging discipline of Smart Spaces, and will be useful for researchers, scientists, developers, practitioners, and graduate students working in the fields of smart spaces and artificial intelligence. Comprehensively introduces smart spaces, from basic concepts, core technologies, technical architecture, application scenarios, and other aspects Covers the latest cutting-edge application technology of smart spaces in various fields, providing relevant practitioners with ideas to solve problems and have a deeper understanding of smart spaces Serves as teaching material or as a reference for teachers and students of interaction design, internet of things, ubiquitous and pervasive computing, and artificial intelligence Gives a detailed introduction to the theory of Smart Spaces and uses mathematical formulas

[Smart Spaces](#) CRC Press

The landscape of homological algebra has evolved over the last half-century into a fundamental tool for the working mathematician. This book provides a unified account of homological algebra as it exists today. The historical connection with topology, regular local rings, and semi-simple Lie algebras are also described. This book is suitable for second or third year graduate students. The first half of the book takes as its subject the canonical topics in homological algebra: derived functors, Tor and Ext, projective dimensions and spectral sequences. Homology of group and Lie algebras illustrate these topics. Intermingled are less canonical topics, such as the derived inverse limit functor \lim^1 , local cohomology, Galois cohomology, and affine Lie algebras. The last part of the book covers less traditional topics that are a vital part of the modern homological toolkit: simplicial methods, Hochschild and cyclic homology, derived categories and total derived functors. By making these tools more accessible, the book helps to break down the technological barrier between experts and casual users of homological algebra.

[Systems and Information Sciences](#) Springer Nature

This book constitutes the proceedings of the 1st International Conference on Advances in Emerging Trends and Technologies (ICAETT 2019), held in Quito, Ecuador, on 29–31 May 2019, jointly organized by Universidad Tecnológica Israel, Universidad Técnica del Norte, and Instituto Tecnológico Superior Rumiñahui, and supported by SNOTRA. ICAETT 2019 brought together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: Technology Trends Electronics Intelligent Systems Machine Vision Communication Security e-Learning e-Business e-Government and e-Participation

[Essential Virtual SAN](#) CRC Press

Inclusive Development of Society contains papers that were originally presented at the 2018 International Congress on Management and Technology in Knowledge, Service, Tourism & Hospitality (SERVE 2018), held 6-7 October and 15-16 December 2018 in Kuta, Bali, Indonesia and 18-19 October, 2018 at The Southern Federal University, Rostov-on-don, Russia. The contributions deal with various interdisciplinary research topics, particularly in the fields of social sciences, economics and the arts. The papers focus especially on such topics as language, cultural studies, economics, behavior studies, political sciences, media and communication, psychology and human development. The theoretical research studies included here should provide a solid foundation for the development of new tools that explore the possibilities of developing tourism, hospitality, service industries in Knowledge Economic Era, and the empirical papers will advance our knowledge regarding the impact of information technologies in organizations' and institutions' practices. These proceedings should be of interest to academics and professionals in the wider field of social sciences, including disciplines such as education, psychology, tourism and knowledge management.

[Enhancing Business Continuity and IT Capability](#) Academic Press

To readers who could be merely surfing the pages to catch a quick glimpse as to what cloud computing is all about, to the more serious and corporate users, the book is expected to provide at least a humble modicum of nourishment to set them off on a journey that would no doubt help them achieve

success to the cloud and beyond. The book focuses on the technical aspects of cloud insofar as speeding up the process of grasping the concerned facts and the underlying economic benefits of cloud computing.

HPE ASE - Server Solutions Architect V4 Educreation Publishing

This book constitutes the proceedings of the 1st International Conference on Systems and Information Sciences (ICCIS), held in Manta, Ecuador, from July 27 to 29, 2020, and was jointly organized by Universidad Laica Eloy Alfaro de Manabí "ULEAM", in collaboration with GDEON. ICCIS aims to bring together systems and information sciences researchers and developers from academia and industry around the world to discuss cutting-edge research. The book covers the following topics: AI, Expert Systems and Big Data Analytics Cloud, IoT and Distributed Computing Communications Database System and Application Financial Technologies (FinTech), Economics and Business Engineering m-Learning and e-Learning Security Software Engineering Web Information Systems and Applications General Track

HPI Future SOC Lab □□□□□□□□□□□□□□□□

This book explores weak convergence theory and empirical processes and their applications to many applications in statistics. Part one reviews stochastic convergence in its various forms. Part two offers the theory of empirical processes in a form accessible to statisticians and probabilists. Part three covers a range of topics demonstrating the applicability of the theory to key questions such as measures of goodness of fit and the bootstrap.

The CISO's Transformation Springer Nature

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 multi-tenant 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.

Guide to Big Data Applications Packt Publishing Ltd

This handbook brings together a variety of approaches to the uses of big data in multiple fields, primarily science, medicine, and business. This single resource features contributions from researchers around the world from a variety of fields, where they share their findings and experience. This book is intended to help spur further innovation in big data. The research is presented in a way that allows readers, regardless of their field of study, to learn from how applications have proven successful and how similar applications could be used in their own field. Contributions stem from researchers in fields such as physics, biology, energy, healthcare, and business. The contributors also discuss important topics such as fraud detection, privacy implications, legal perspectives, and ethical handling of big data.

Advances in Computer Science for Engineering and Education Universitätsverlag Potsdam

Cisco® Nexus switches and the new NX-OS operating system are rapidly becoming the new de facto standards for data center distribution/aggregation layer networking. NX-OS builds on Cisco IOS to provide advanced features that will be increasingly crucial to efficient data

center operations. NX-OS and Cisco Nexus Switching is the definitive guide to utilizing these powerful new capabilities in enterprise environments. In this book, three Cisco consultants cover every facet of deploying, configuring, operating, and troubleshooting NX-OS in the data center. They review the key NX-OS enhancements for high availability, virtualization, In-Service Software Upgrades (ISSU), and security. In this book, you will discover support and configuration best practices for working with Layer 2 and Layer 3 protocols and networks, implementing multicasting, maximizing serviceability, providing consistent network and storage services, and much more. The authors present multiple command-line interface (CLI) commands, screen captures, realistic configurations, and troubleshooting tips—all based on their extensive experience working with customers who have successfully deployed Nexus switches in their data centers. Learn how Cisco NX-OS builds on and differs from IOS Work with NX-OS user modes, management interfaces, and system files Configure Layer 2 networking: VLANs/private VLANs, STP, virtual port channels, and unidirectional link detection Configure Layer 3 EIGRP, OSPF, BGP, and First Hop Redundancy Protocols (FHRPs) Set up IP multicasting with PIM, IGMP, and MSDP Secure NX-OS with SSH, Cisco TrustSec, ACLs, port security, DHCP snooping, Dynamic ARP inspection, IP Source Guard, keychains, Traffic Storm Control, and more Build high availability networks using process modularity and restart, stateful switchover, nonstop forwarding, and in-service software upgrades Utilize NX-OS embedded serviceability, including Switched Port Analyzer (SPAN), Smart Call Home, Configuration Checkpoint/Rollback, and NetFlow Use the NX-OS Unified Fabric to simplify infrastructure and provide ubiquitous network and storage services Run NX-OS on Nexus 1000V server-based software switches This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Hyperconverged Infrastructure Data Centers Sjaak Laan

Enterprise servers play a mission-critical role in modern computing environments, especially from a business continuity perspective. Several models of IT capability have been introduced over the last two decades. Enhancing Business Continuity and IT Capability: System Administration and Server Operating Platforms proposes a new model of IT capability. It presents a framework that establishes the relationship between downtime on one side and business continuity and IT capability on the other side, as well as how system administration and modern server operating platforms can help in improving business continuity and IT capability. This book begins by defining business continuity and IT capability and their importance in modern business, as well as by giving an overview of business continuity, disaster recovery planning, contingency planning, and business continuity maturity models. It then explores modern server environments and the role of system administration in ensuring higher levels of system availability, system scalability, and business continuity. Techniques for enhancing availability and business continuity also include Business impact analysis Assessing the downtime impact Designing an optimal business continuity solution IT auditing as a process of gathering data and evidence to evaluate whether the company's information systems infrastructure is efficient and effective and whether it meets business goals The book concludes with frameworks and guidelines on how to measure and assess IT capability and how IT capability affects a firm's performances. Cases and white papers describe real-world scenarios illustrating the concepts and techniques presented in the book.

The Web at Graduation and Beyond Springer

For many decades, IT infrastructure has provided the foundation for successful application deployment. Yet, general knowledge of infrastructures is still not widespread. Experience shows that software developers, system administrators, and project managers often have little knowledge of the big influence IT infrastructures have on the performance, availability and security of software applications. This book explains the concepts, history, and implementation of IT infrastructures. Although many of books can be found on individual infrastructure building blocks, this is the first book to describe all of them: datacenters, servers, networks, storage, virtualization, operating systems, and end user devices. Whether you need an introduction to infrastructure technologies, a refresher course, or a study guide for a computer science class, you will find that the presented building blocks and concepts provide a solid foundation for understanding the complexity of today's IT infrastructures.

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