

Supermicro Ipmi 2 0 Solution Installation Guide

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[IBM Open Platform for DBaaS on IBM Power Systems](#) - Dino Quintero 2018-03-26

This IBM Redbooks publication describes how to implement an Open Platform for Database as a Service (DBaaS) on IBM Power Systems environment for Linux, and demonstrate the open source tools, optimization and best practices guidelines for it. Open Platform for DBaaS on Power Systems is an on-demand, secure, and scalable self-service database platform that automates provisioning and administration of databases to support new business applications and information insights. This publication addresses topics to help sellers, architects, brand specialists, distributors, resellers and anyone offering secure and scalable Open Platform for DBaaS on Power Systems solution with APIs that are consistent across heterogeneous open database types. An Open Platform for DBaaS on Power Systems solution has the capability to accelerate business success by providing an infrastructure, and tools leveraging Open Source and OpenStack software engineered to optimize hardware and software between workloads and resources so you have a responsive, and an adaptive environment. Moreover, this publication provides documentation to transfer the how-to-skills for cloud oriented operational management of Open Platform for DBaaS on Power Systems service and underlying infrastructure to the technical teams. Open Platform for DBaaS on Power Systems mission is to provide scalable and reliable cloud database as a service provisioning functionality for both relational and non-relational database engines, and to continue to improve its fully-featured and extensible open source framework. For example, Trove is a database as a service for OpenStack. It is designed to run entirely on OpenStack, with the goal of allowing users to quickly and easily utilize the features of a relational or non-relational database without the burden of handling complex administrative tasks. Cloud users and database administrators can provision and manage multiple database instances as needed. Initially, the service focuses on providing resource isolation at high performance while automating complex administrative tasks including deployment, configuration, patching, backups, restores, and monitoring. In the context of this publication, the monitoring tool implemented is Nagios Core which is an open source monitoring tool. Hence, when you see a reference of Nagios in this book, Nagios Core is the open source monitoring solution implemented. Also note that the implementation of Open Platform for DBaaS on IBM Power Systems is based on open source solutions. This book is targeted toward sellers, architects, brand specialists, distributors, resellers and anyone developing and implementing Open Platform for DBaaS on Power Systems solutions.

[Concurrent Engineering in Construction Projects](#) - Chimay Anumba 2006-09-27

Concurrent Engineering (CE) is a systematic approach to the integrated and concurrent design of products and related processes, including aspects as diverse as manufacture and support. It is only now being carefully applied to the construction sector and offers considerable potential for increasing efficiency and effectiveness. It enables developers to consider all elements of a building or structure's life cycle from the conception stage right through to disposal, and to include issues of quality, cost, schedule, and user requirements. Drawing together papers that reflect various research efforts on the implementation of CE in construction projects, Concurrent Engineering in Construction presents construction professionals and academics with the key issues and technologies important for CE's adoption, starting with fundamental concepts and then going on to the role of organisational enablers and advanced information and communication technologies, then providing conclusions and suggestions of future directions.

Metasploit - David Kennedy 2011-07-15

The Metasploit Framework makes discovering, exploiting, and sharing vulnerabilities quick and relatively painless. But while Metasploit is used by security professionals everywhere, the tool can be hard to grasp for first-time users. Metasploit: The Penetration Tester's Guide fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors. Once you've built your foundation for penetration testing, you'll learn the Framework's conventions, interfaces, and module system as you launch simulated attacks. You'll move on to advanced penetration testing techniques, including network reconnaissance and enumeration, client-side attacks, wireless attacks, and targeted social-engineering attacks. Learn how to: -Find and exploit unmaintained, misconfigured, and unpatched systems -Perform reconnaissance and find valuable information about your target -Bypass anti-virus technologies and circumvent security controls -Integrate Nmap, NeXpose, and Nessus with Metasploit to automate discovery -Use the Meterpreter shell to launch further attacks from inside the network -Harness standalone Metasploit utilities, third-party tools, and plug-ins -Learn how to write your own Meterpreter post exploitation modules and scripts You'll even touch on exploit discovery for zero-day research, write a fuzzer, port existing exploits into the Framework, and learn how to cover your tracks. Whether your goal is to secure your own networks or to put someone else's to the test, Metasploit: The Penetration Tester's Guide will take you there and beyond.

[Mastering VMware vSphere 6.7](#) - Nick Marshall 2018-10-09

Master your virtual environment with the ultimate vSphere guide Mastering VMware vSphere 6.7 is the fully updated edition of the bestselling guide to VMware's virtualization solution. With comprehensive coverage of this industry-leading toolset, this book acts as an informative guide and valuable reference. Step-by-step instruction walks you through installation, configuration, operation, security processes, and much more as you conquer the management and automation of your virtual environment. Written by certified VMware vExperts, this indispensable guide provides hands-on instruction and detailed conceptual explanations, anchored by practical applications and real-world examples. This book is the ultimate guide to vSphere, helping administrators master their virtual environment. Learn to: Install, configure, and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks, storage devices, and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6.7 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter.

Embedded Android - Karim Yaghmour 2013-03-15

Embedded Android is for Developers wanting to create embedded systems based on Android and for those wanting to port Android to new hardware, or creating a custom development environment. Hackers and moders will also find this an indispensable guide to how Android works.

PC Magazine - 2004

Upgrading and Repairing Servers - Scott Mueller 2006-04-24

As the price of servers 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-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 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, 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 hardware components, network and backup operations, SAN, fault tolerance, server racks, server rooms, server operating systems, as well as SUN Microsystems servers. No other computer hardware book has ever dared tackle this enormous topic - until now!

VMware vSphere 6.5 Host Resources Deep Dive - Frank Denneman 2017-06-20

From the author of the vSphere Clustering Deep Dive series - The VMware vSphere 6.5 Host Resources Deep Dive is a guide to building consistent high-performing ESXi hosts. A book that people can't put down. Written for administrators, architects, consultants, aspiring VCDX-es and people eager to learn more about the elements that control the behavior of CPU, memory, storage and network resources. This book shows that we can fundamentally and materially improve the systems we're building. We can make the currently running ones consistently faster by deeply understanding and optimizing our systems. The reality is that specifics of the infrastructure matter. Details matter. Especially for distributed platforms which abstract resource layers, such as NSX and vSAN. Knowing your systems inside and out is the only way to be sure you've properly handled those details. It's about having a passion for these details. It's about loving the systems we build. It's about understanding them end-to-end. This book explains the concepts and mechanisms behind the physical resource components and the VMkernel resource schedulers, which enables you to: Optimize your workload for current and future Non-Uniform Memory Access (NUMA) systems. Discover how vSphere Balanced Power Management takes advantage of the CPU Turbo Boost functionality, and why High Performance does not. How the 3-DIMMs per Channel configuration results in a 10-20% performance drop. How TLB works and why it is bad to disable large pages in virtualized environments. Why 3D XPoint is perfect for the vSAN caching tier. What queues are and where they live inside the end-to-end storage data paths. Tune VMkernel components to optimize performance for VXLAN network traffic and NFV environments. Why Intel's Data Plane Development Kit significantly boosts packet processing performance.

IBM PowerVM Virtualization Introduction and Configuration - Scott Vetter 2015-11-24

This IBM® Redbooks® publication provides an introduction to PowerVMTM virtualization technologies on Power System servers. PowerVM is a combination of hardware, firmware, and software that provides CPU, network, and disk virtualization. These are the main virtualization technologies: POWER7, POWER6, and POWER5 hardware POWER Hypervisor Virtual I/O Server Though the PowerVM brand includes partitioning, management software, and other offerings, this publication focuses on the virtualization technologies that are part of the PowerVM Standard and Enterprise Editions. This publication is also designed to be an introduction guide for system administrators, providing instructions for these tasks: Configuration and creation of partitions and resources on the HMC Installation and configuration of the Virtual I/O Server Creation and installation of virtualized partitions Examples using AIX, IBM i, and Linux This edition has been updated with the latest updates available and an improved content organization.

IBM Power Systems SR-IOV: Technical Overview and Introduction - Scott Vetter 2017-01-12

This IBM® Redpaper™ publication describes the adapter-based virtualization capabilities that are being deployed in high-end IBM POWER7+™ processor-based servers. Peripheral Component Interconnect Express (PCIe) single root I/O virtualization (SR-IOV) is a virtualization technology on IBM Power Systems servers. SR-IOV allows multiple logical partitions (LPARs) to share a PCIe adapter with little or no run time involvement of a hypervisor or other virtualization intermediary. SR-IOV does not replace the existing virtualization capabilities that are offered as part of the IBM PowerVM® offerings. Rather, SR-IOV compliments them with additional capabilities. This paper describes many aspects of the SR-IOV technology, including: A comparison of SR-IOV with standard virtualization technology Overall benefits of SR-IOV Architectural overview of SR-IOV Planning requirements SR-IOV deployment models that use standard I/O virtualization Configuring the adapter for dedicated or shared modes Tips for maintaining and troubleshooting your system Scenarios for configuring your system This paper is directed to clients, IBM Business Partners, and system administrators who are involved with planning, deploying, configuring, and

maintaining key virtualization technologies.

Production Kubernetes - Josh Rosso 2021-03-16

Kubernetes has become the dominant container orchestrator, but many organizations that have recently adopted this system are still struggling to run actual production workloads. In this practical book, four software engineers from VMware bring their shared experiences running Kubernetes in production and provide insight on key challenges and best practices. The brilliance of Kubernetes is how configurable and extensible the system is, from pluggable runtimes to storage integrations. For platform engineers, software developers, infosec, network engineers, storage engineers, and others, this book examines how the path to success with Kubernetes involves a variety of technology, pattern, and abstraction considerations. With this book, you will: Understand what the path to production looks like when using Kubernetes Examine where gaps exist in your current Kubernetes strategy Learn Kubernetes's essential building blocks--and their trade-offs Understand what's involved in making Kubernetes a viable location for applications Learn better ways to navigate the cloud native landscape

Hpe Atp Server Solutions V4 (H) - Ken Radford 2018-02-27

This study guide helps you prepare for the HPE ATP Server Solutions V4 certification exam (HPE0-S52). Organized along the lines of exam topics and objectives, chapters can be studied independently when preparing for certification. If you already hold the HPE ATP Server Solutions V3 certification and want to acquire the HPE ATP Server Solutions V4 certification, this guide also covers the topics in the Building HPE Server Solutions delta exam (HPE0-S53).

Hash Crack - Joshua Picolet 2019-01-31

The Hash Crack: Password Cracking Manual v3 is an expanded reference guide for password recovery (cracking) methods, tools, and analysis techniques. A compilation of basic and advanced techniques to assist penetration testers and network security professionals evaluate their organization's posture. The Hash Crack manual contains syntax and examples for the most popular cracking and analysis tools and will save you hours of research looking up tool usage. It also includes basic cracking knowledge and methodologies every security professional should know when dealing with password attack capabilities. Hash Crack contains all the tables, commands, online resources, and more to complete your cracking security kit. This version expands on techniques to extract hashes from a myriad of operating systems, devices, data, files, and images. Lastly, it contains updated tool usage and syntax for the most popular cracking tools.

Network Security - Mike Speciner 2002-04-22

The classic guide to network security—now fully updated!"Bob and Alice are back!" Widely regarded as the most comprehensive yet comprehensible guide to network security, the first edition of Network Security received critical acclaim for its lucid and witty explanations of the inner workings of network security protocols. In the second edition, this most distinguished of author teams draws on hard-won experience to explain the latest developments in this field that has become so critical to our global network-dependent society. Network Security, Second Edition brings together clear, insightful, and clever explanations of every key facet of information security, from the basics to advanced cryptography and authentication, secure Web and email services, and emerging security standards. Coverage includes: All-new discussions of the Advanced Encryption Standard (AES), IPsec, SSL, and Web security Cryptography: In-depth, exceptionally clear introductions to secret and public keys, hashes, message digests, and other crucial concepts Authentication: Proving identity across networks, common attacks against authentication systems, authenticating people, and avoiding the pitfalls of authentication handshakes Core Internet security standards: Kerberos 4/5, IPsec, SSL, PKIX, and X.509 Email security: Key elements of a secure email system-plus detailed coverage of PEM, S/MIME, and PGP Web security: Security issues associated with URLs, HTTP, HTML, and cookies Security implementations in diverse platforms, including Windows, NetWare, and Lotus Notes The authors go far beyond documenting standards and technology: They contrast competing schemes, explain strengths and weaknesses, and identify the crucial errors most likely to compromise secure systems. Network Security will appeal to a wide range of professionals, from those who design or evaluate security systems to system administrators and programmers who want a better understanding of this important field. It can also be used as a textbook at the graduate or advanced

undergraduate level.

IBM Power System E850C Technical Overview and Introduction - Scott Vetter 2017-07-12

This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power System™ E850C (8408-44E) server that supports IBM AIX®, and Linux operating systems. The objective of this paper is to introduce the major innovative Power E850C offerings and their relevant functions. The Power E850C server (8408-44E) is the latest enhancement to the Power Systems portfolio. It offers an improved 4-socket 4U system that delivers faster IBM POWER8® processors up to 4.22 GHz, with up to 4 TB of DDR4 memory, built-in IBM PowerVM® virtualization, and capacity on demand. It also integrates cloud management to help clients deploy scalable, mission-critical business applications in virtualized, private cloud infrastructures. Like its predecessor Power E850 server, which was launched in 2015, the new Power E850C server uses 8-core, 10-core, or 12-core POWER8 processor modules. However, the Power E850C cores are 13%-20% faster and deliver a system with up to 32 cores at 4.22 GHz, up to 40 cores at 3.95 GHz, or up to 48 cores at 3.65 GHz, and use DDR4 memory. A minimum of two processor modules must be installed in each system, with a minimum quantity of one processor module's cores activated. Cloud computing, in its many forms (public, private, or hybrid), is quickly becoming both the delivery and consumption models for IT. However, finding the correct mix between traditional IT, private cloud, and public cloud can be a challenge. The new Power E850C server and IBM Cloud PowerVC manager can enable clients to accelerate the transformation of their IT infrastructure for cloud while providing tremendous flexibility during the transition. IBM Cloud PowerVC Manager provides OpenStack-based cloud management to accelerate and simplify cloud deployment by providing fast and automated VM deployments, prebuilt image templates, and self-service capabilities all with an intuitive interface. PowerVC management upwardly integrates into various third-party hybrid cloud orchestration products, including IBM Cloud Orchestrator, VMware vRealize, and others. Clients can simply manage both their private cloud VMs and their public cloud VMs from a single, integrated management tool. IBM Power Systems is designed to provide the highest levels of reliability, availability, flexibility, and performance to bring you a world-class enterprise private and hybrid cloud infrastructure. Through enterprise-class security, efficient built-in virtualization that drives industry-leading workload density, and dynamic resource allocation and management, the server consistently delivers the highest levels of service across hundreds of virtual workloads on a single system. The Power E850C server includes the cloud management software and services to assist with clients' move to the cloud, both private and hybrid. Those additional capabilities include the following items: Private cloud management with IBM Cloud PowerVC Manager, Cloud-based HMC Apps as a service, and Open source cloud automation and configuration tooling for AIX Hybrid cloud support Hybrid infrastructure management tools Securely connect system of record workloads and data to cloud native applications IBM Cloud Starter Pack Flexible capacity on demand Power to Cloud Services This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power E850C system.

Workshop on Molecular Dynamics on Parallel Computers - Rüdiger Esser 2000

Molecular dynamics is a well-established technique for simulating complex many-particle systems in many areas of physics, chemistry, and astrophysics. The huge computational requirements for simulations of large systems, especially with long-range forces, demand the use of massively parallel computers. Designing efficient algorithms for these problems is a highly non-trivial task. This book contains the invited talks and abstracts presented at a conference by more than 100 researchers from various fields: computer science, solid state physics, high energy physics, polymers, biochemistry, granular materials and astrophysics. Most of the contributions have been written by users of massively parallel computers and deal with practical issues, but there are also contributions tackling more fundamental algorithmic problems.

Vsphere High Performance Cookbook - Prasenjit Sarkar 2013-01-01

vSphere High Performance Cookbook is written in a practical, helpful style with numerous recipes focusing on answering and providing solutions to common, and not-so common, performance issues and

problems. The book is primarily written for technical professionals with system administration skills and some VMware experience who wish to learn about advanced optimization and the configuration features and functions for vSphere 5.1.

Twelve Years a Slave - Solomon Northup 2021-01-01

"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

LastPass Guide - Benjamin Bryan 2021-04

You're trying your best to be secure online but your passwords are a mess. Perhaps you've heard of LastPass but don't know where to start. Stop forgetting your passwords. With this tutorial, you will learn how to use LastPass and use it well. You will learn about the strengths and weaknesses of LastPass. And you will learn best practices to keep your accounts secure. Level Up Your Security: The LastPass Guide is Loaded with Information* Simple, Concise Explanation of LastPass Features so you can use them regardless of Skill Level* The difference between the Free and Various Paid Plans to help you decide what plan you should use* How to setup an account and choose a strong Master Password so you can get started on the right foot* Installing LastPass so that it integrates with your browser* How the LastPass Vault works, and what data is not encrypted* Action Items at the end of each section to make your next steps easy* Pro Tips throughout the book so that you get the best out of LastPass* How to use the different item types to store specific types of data* Learn how to Generate Secure Passwords* Using Form Fills to Save Time entering Credit Card Data* Multi Factor Authentication and why you need to be careful with SMS* Setting up a Security Email address that's different than the one you give out* How to Share Passwords securely with your business partners, friends, and family* Setup Emergency Access so that your data is available to family after your Death* Quickly scan all your accounts for breaches* How to securely travel internationally with your LastPass data* Battle Tested Security Best Practices in my Bonus Essential Security Layers Appendix based on Two Decades of Experience What People Say "I personally think Ben NAILED IT! I now know that I have been using about 1% of LastPass capability for years! Truly has opened my eyes and I will get so much more out of this product without paying a dime more!" Kirk Gee, Author "Online security is no joke, and Ben is definitely the voice to listen to on this subject! This guide is packed with helpful tips that are easy to follow, even for a total beginner like me. You should buy this book and put it into practice right away." Steve Baehr, Pastor "This guide taught me the ins and outs of LastPass quickly. I can spend more time running my business instead of keeping track of accounts with my various suppliers and manufacturers." Jeff Yesensky, Business Owner "As a busy mom with two kids, I don't have a lot of time to figure out how to keep my passwords secure. And I worry every time my husband travels overseas that he'll lose his passport (yet again) and be stuck in a foreign country for good! Ben's easy-to-follow guide has given me one less thing to stress about. His quick checklists are perfect for those of us without a lot of extra time to spare." Sarah Harris, Mom This book is well worth your time.

VMware ESX Server in the Enterprise - Edward Haletky 2007-12-29

VMware ESX Server in the Enterprise Planning and Securing Virtualization Servers The Most Complete, Practical, Solutions-Focused Guide to Running ESX Server 3 VMware ESX Server in the Enterprise is the definitive, real-world guide to planning, deploying, and managing today's leading virtual infrastructure platform in mission-critical environments. Drawing on his extensive experience consulting on large-scale ESX Server implementations, Edward L. Haletky brings together an unprecedented collection of tips, best practices, and field-tested solutions. More than any other author, he illuminates the real issues, tradeoffs, and pitfalls associated with ESX Server—and shows how to make the most of it in your unique environment. Haletky covers the entire lifecycle: planning, installation, system monitoring, tuning, clustering, security, disaster recovery, and much more. Throughout, he supports his recommendations with examples from real-world deployments. He also provides detailed checklists for handling crucial issues such as caching, networking, storage, and hardware selection. Many of his techniques and practices apply to all current virtualization platforms, not just ESX Server. This book will be an indispensable resource for every network architect, administrator, and IT professional who works with virtual servers. ESX Server newcomers will

find the soup-to-nuts introduction they desperately need; experienced users will find an unparalleled source of field-tested answers and solutions. In this book, you'll learn how to:

- Identify key differences between ESX v3.x.y and ESX v2.5.x and their implications
- Perform a complete installation—with automated scripting techniques and samples
- Efficiently audit, monitor, and secure ESX Server
- Discover SAN storage pitfalls and solutions—with detailed guidance for specific SANs, switches, and fibre-channel adapters
- Understand ESX Server networking: NIC teaming, vSwitches, network lag, and troubleshooting
- Configure ESX Server via the Management User Interface, Virtual Center client, and command line interface
- Install Windows, Linux, and NetWare VMs: prepare media images, place configuration files, handle sizing and swap files, and more
- Use Dynamic Resource Load Balancing to consistently achieve utilization goals
- Implement effective backup and disaster recovery procedures

Edward L. Haletky owns AstroArch Consulting, Inc., a consultancy specializing in virtualization, security, and networking. He has been rated by his peers on the VMware Discussion Forums as a “virtuoso” for his work in answering VMware security and configuration questions. Prior to establishing AstroArch, Haletky was a member of Hewlett-Packard’s Virtualization, Linux, and High-Performance Technical Computing teams. He holds a degree in Aeronautical and Astronautical Engineering from Purdue University.

IBM Power Systems HMC Implementation and Usage Guide - Scott Vetter 2017-08-10

The IBM® Hardware Management Console (HMC) provides to systems administrators a tool for planning, deploying, and managing IBM Power Systems™ servers. This IBM Redbooks® publication is an extension of IBM Power Systems HMC Implementation and Usage Guide, SG24-7491 and also merges updated information from IBM Power Systems Hardware Management Console: Version 8 Release 8.1.0 Enhancements, SG24-8232. It explains the new features of IBM Power Systems Hardware Management Console Version V8.8.1.0 through V8.8.4.0. The major functions that the HMC provides are Power Systems server hardware management and virtualization (partition) management. Further information about virtualization management is in the following publications: IBM PowerVM Virtualization Managing and Monitoring, SG24-7590 IBM PowerVM Virtualization Introduction and Configuration, SG24-7940 IBM PowerVM Enhancements What is New in 2013, SG24-8198 IBM Power Systems SR-IOV: Technical Overview and Introduction, REDP-5065 The following features of HMC V8.8.1.0 through HMC V8.8.4.0 are described in this book: HMC V8.8.1.0 enhancements HMC V8.8.4.0 enhancements System and Partition Templates HMC and IBM PowerVM® Simplification Enhancement Manage Partition Enhancement Performance and Capacity Monitoring HMC V8.8.4.0 upgrade changes

Networking for VMware Administrators - Christopher Wahl 2014

"Now that virtualization has blurred the lines between networking and servers, many VMware specialists need a stronger understanding of networks than they may have gained in earlier IT roles. Networking for VMware administrators fills this crucial knowledge gap. Writing for VMware professionals, Christopher Wahl and Steve Pantol illuminate the core concepts of modern networking, and show how to apply them in designing, configuring, and troubleshooting any virtualized network environment"--Page 4 of cover

IBM Power Systems Virtualization Operation Management for SAP Applications - Dino Quintero 2020-03-03

Businesses are using IBM® Power Systems servers and Linux to consolidate multiple SAP workloads onto fewer systems, increasing infrastructure utilization; reliability, availability, and serviceability (RAS); and scalability, and reducing cost. This IBM Redpaper Redbooks publication describes key hardware and software components of an SAP solution stack. Furthermore, this book addresses non-functional items like RAS, security, and issue handling. Practical help for planning, implementation, configuration, installation, and monitoring of a solution stack are provided. This publication addresses topics for sellers, IT architects, IT specialists, and anyone who wants to implement and manage SAP workloads on IBM Power Systems servers. Moreover, this guide provides documentation to transfer how-to skills to the technical teams, and it provides solution guidance to the sales team. This publication complements documentation that is available at IBM Knowledge Center, and it aligns with educational materials that are provided by IBM Systems.

IBM Power System S822LC for Big Data: Technical Overview and Introduction - Scott Vetter 2017-08-29

This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power System S822LC

for Big Data (8001-22C) server that uses the latest IBM POWER8® processor technology and supports Linux operating systems (OSs). The objective of this paper is to introduce the Power S822LC for Big Data offerings and their relevant functions as related to targeted application workloads. The new Linux scale-out systems provide differentiated performance, scalability, and low acquisition cost, including: Consolidated server footprint with up to 66% more virtual machines (VMs) per server than competitive x86 servers Superior data throughput and performance for high-value Linux workloads, such as big data, analytic, and industry applications Up to 12 LFF drives that are installed within the chassis to meet storage-rich application requirements Superior application performance due to a 2x per core performance advantage over x86-based systems Leadership data throughput enabled by POWER8 multithreading with up to 4x more threads than x86 designs Acceleration of big data workloads with up to two GPUs and superior I/O bandwidth with Coherent Accelerator Processor Interface (CAPI) This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors

SQL Server Hardware - Glenn Berry 2011-06

SQL Server Hardware will provide the fundamental knowledge and resources you need to make intelligent decisions about choice, and optimal installation and configuration, of SQL Server hardware, operating system and the SQL Server RDBMS.

Cloud Computing - Brian J.S. Chee 2010-04-07

Modern computing is no longer about devices but is all about providing services, a natural progression that both consumers and enterprises are eager to embrace. As it can deliver those services, efficiently and with quality, at compelling price levels, cloud computing is with us to stay. Ubiquitously and quite definitively, cloud computing is answering the demand for sophisticated, flexible services Cloud Computing: Technologies and Strategies of the Ubiquitous Data Center looks at cloud computing from an IT manager’s perspective. It answers basic as well as strategic questions from both a business and a technical perspective so that you can confidently engage both IT and financial assets in making your organization techno- savvy, efficient, and competitive. Any answers about the future of computing are definitely in the cloud The first section of the book offers up a history of the computing roots that have evolved into cloud computing. It looks at how IT has been traditionally serving needs and how cloud computing improves and expands on these services, so you can strategize about how a cloud might provide solutions to specific IT questions or answer business needs. Next, the book shows how to begin the process of determining which organizational needs would best be served and improved by cloud computing. Presenting specific cases as examples, the book walks you through issues that your organization might likely encounter. Written clearly and succinctly, it -- Introduces you to the concepts behind different types of clouds, including those used for storage, those that improve processor and application delivery, and those that mix any and all of these services Covers typical concerns you will hear with regard to such issues as security, application integration, and structural limitations Looks at the future of the cloud, from developments on the horizon to those still in the planning stage By the book’s conclusion, you will have a solid basis on which to initiate strategic discussions about deploying clouds in your organization. You will understand how cloud computing can affordably solve real problems. You will know which strategies to use and you will learn of the pitfalls to avoid when taking your data center to the clouds. Throughout this book are the answers you need to the many questions from the most basic to the more advanced surrounding cloud computing and its place in your enterprise. What exactly is cloud computing? How are clouds different than virtualization? Should my organization use a cloud (or multiple clouds)? Can clouds and virtualization play significant roles in my organization at the same time? Covering the basics of virtualization and clusters and the more advanced strategic considerations of security and return on investment, this book will be your guide to IT’s present and future in the cloud, a resource that you will continually turn to. Coming soon! For more information, Professional Cloud Computing, at www.professionalcloudcomputing.com, will help you find information to delve more deeply into the discussion in any of a number of directions.

Mastering VMware vSphere 6 - Nick Marshall 2015-03-20

Master your virtual environment with the ultimate vSphere guide Mastering VMware vSphere 6 is the fully

updated edition of the bestselling guide to VMware's virtualization solution. With comprehensive coverage of this industry-leading toolset, this book acts as an informative guide and valuable reference. Step-by-step instruction walks you through installation, configuration, operation, security processes, and much more as you conquer the management and automation of your virtual environment. Written by certified VMware vExperts, this indispensable guide provides hands-on instruction and detailed conceptual explanations, anchored by practical applications and real-world examples. This book is the ultimate guide to vSphere, helping administrators master their virtual environment. Learn to: Install, configure, and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks, storage devices, and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter.

CompTIA Security+ Get Certified Get Ahead - Darril Gibson 2017-10-12

Pass the First Time. The CompTIA Security+ Get Certified Get Ahead SY0-501 Study Guide is an update to the top-selling SY0-201, SY0-301, and SY0-401 study guides, which have helped thousands of readers pass the exam the first time they took it. It covers all of the SY0-501 objectives and includes the same elements readers raved about in the previous two versions. Each of the eleven chapters presents topics in an easy to understand manner and includes real-world examples of security principles in action. The author uses many of the same analogies and explanations he's honed in the classroom that have helped hundreds of students master the Security+ content. You'll understand the important and relevant security topics for the Security+ exam, without being overloaded with unnecessary details. Additionally, each chapter includes a comprehensive review section to help you focus on what's important. Over 300 realistic practice test questions with in-depth explanations will help you test your comprehension and readiness for the exam. The book includes a 75 question pre-test, a 75 question post-test, and practice test questions at the end of every chapter. Each practice test question includes a detailed explanation to help you understand the content and the reasoning behind the question. You'll also have access to free online resources including labs and additional practice test questions. Using all of these resources, you'll be ready to take and pass the exam the first time you take it. If you plan to pursue any of the advanced security certifications, this guide will also help you lay a solid foundation of security knowledge. Learn this material, and you'll be a step ahead for other exams. This SY0-501 study guide is for any IT or security professional interested in advancing in their field, and a must read for anyone striving to master the basics of IT systems security. The author supplements the book with blog posts here: <http://blogs.getcertifiedgetahead.com/>. This page provides a full listing of mobile device apps from the author: <http://learnzapp.com/partners/darrilgibson/>.

IBM Cloud Object Storage System Product Guide - Alexander Gavrin 2021-11-11

Object storage is the primary storage solution that is used in the cloud and on-premises solutions as a central storage platform for unstructured data. IBM® Cloud Object Storage (COS) is a software-defined storage platform that breaks down barriers for storing massive amounts of data by optimizing the placement of data on commodity x86 servers across the enterprise. This IBM Redbooks® publication describes the major features, use case scenarios, deployment options, configuration details, initial customization, performance, and scalability considerations of IBM Cloud® Object Storage on-premises offering. For more information about the IBM Cloud Object Storage architecture and technology that is behind the product, see IBM Cloud Object Storage Concepts and Architecture: System Edition, REDP-5537-02. The target audience for this publication is IBM Cloud Object Storage IT specialists and storage administrators.

Implementing IBM Spectrum Virtualize software only - Peter Mescher 2017-05-19

This IBM® Redpaper™ publication provides a broad understanding of IBM Spectrum Virtualize™ software only and how it fits into the IBM SAN Volume Control and IBM Storwize® families. It also provides use cases for cloud, Cloud Service Provider (CSP), and Managed Service Provider (MSP) implementations. This publication helps storage and networking administrators install, tailor, and configure IBM Spectrum Virtualize software only. It also provides a detailed description of supported hardware and

troubleshooting tips. In April 2017, this paper was updated to include information about Version 7.8.1 and Supermicro SYS-2028U-TRTP+ server implementation.

FreeBSD Mastery: Advanced ZFS - Michael W Lucas 2016-04-10

ZFS improves everything about systems administration. Once you peek under the hood, though, ZFS' bewildering array of knobs and tunables can overwhelm anyone. ZFS experts can make their servers zing—and now you can, too, with FreeBSD Mastery: Advanced ZFS. This small book teaches you to: •Use boot environments to make the riskiest sysadmin tasks boring •Delegate filesystem privileges to users •Containerize ZFS datasets with jails •Quickly and efficiently replicate data between machines •split layers off of mirrors •optimize ZFS block storage •handle large storage arrays •select caching strategies to improve performance •manage next-generation storage hardware •identify and remove bottlenecks •build screaming fast database storage •dive deep into pools, metaslabs, and more! Whether you manage a single small server or international datacenters, simplify your storage with FreeBSD Mastery: Advanced ZFS.

Search and Rescue Robotics - Multiple Authors 2017-08-23

In the event of large crises (earthquakes, typhoons, floods, ...), a primordial task of the fire and rescue services is the search for human survivors on the incident site. This is a complex and dangerous task, which - too often - leads to loss of lives among the human crisis managers themselves. This book explains how unmanned search can be added to the toolkit of the search and rescue workers, offering a valuable tool to save human lives and to speed up the search and rescue process. The introduction of robotic tools in the world of search and rescue is not straightforward, due to the fact that the search and rescue context is extremely technology-unfriendly, meaning that very robust solutions, which can be deployed extremely quickly, are required. Multiple research projects across the world are tackling this problem and in this book, a special focus is placed on showcasing the results of the European Union ICARUS project on this subject. The ICARUS project proposes to equip first responders with a comprehensive and integrated set of unmanned search and rescue tools, to increase the situational awareness of human crisis managers, so that more work can be done in a shorter amount of time. The ICARUS tools consist of assistive unmanned air, ground, and sea vehicles, equipped with victim-detection sensors. The unmanned vehicles collaborate as a coordinated team, communicating via ad hoc cognitive radio networking. To ensure optimal human-robot collaboration, these tools are seamlessly integrated into the command and control equipment of the human crisis managers and a set of training and support tools is provided to them in order to learn to use the ICARUS system. The research leading to these results has received funding from the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement number 285417. The publishing of this book was funded by the EC FP7 Post-Grant Open Access Pilot programme.

Automate Your Network: Introducing the Modern Approach to Enterprise Network Management - John W. Capobianco 2019-03-09

Network automation is one of the hottest topics in Information Technology today. This revolutionary book aims to illustrate the transformative journey towards full enterprise network automation. This book outlines the tools, technologies and processes required to fully automate an enterprise network. Automated network configuration management is more than converting your network configurations to code. The benefits of source control, version control, automated builds, automated testing and automated releases are realized in the world of networking using well established software development practices. The next-generation network administrative toolkit is introduced including Microsoft Team Foundation Server, Microsoft Visual Studio Code, Git, Linux, and the Ansible framework. Not only will these new technologies be covered at length, a new and continuously integrated / continuously delivered pipeline is also introduced. Starting with safe, simple, non-intrusive, non-disruptive information gathering organizations can ease into network automation while building a dynamic library of documentation and on-demand utilities for network operations. Once comfortable with the new ecosystem, administrators can begin making fully automated, orchestrated, and tactical changes to the network. The next evolutionary leap occurs when fully automated network configuration management is implemented. Important information from the network running-configurations is abstracted into data models in a human readable format. Device configurations are dynamically templated creating a scalable, intent-based, source of truth. Much like in the world of software development, full automation of the network using a CI/CD pipeline can be realized. Automated builds,

automated testing and automated scheduled releases are orchestrated and executed when changes are approved and checked into the central repository. This book is unlike any on the market today as it includes multiple Ansible playbooks, sample YAML data models and Jinja2 templates for network devices, and a whole new methodology and approach to enterprise network administration and management. The CLI no longer cuts it. Readers should take away from this book a new approach to enterprise network management and administration as well as the full knowledge and understanding of how to use TFS, VS Code, Git, and Ansible to create an automation ecosystem. Readers should have some basic understanding of modern network design, operation, and configuration. No prior programming or software development experience is required. John Capobianco has over 20 years of IT experience and is currently a Technical Advisor for the Canadian House of Commons. A graduate of St. Lawrence College's Computer Programmer Analyst program, John is also a former Professor at St. Lawrence College in the Computer Networking and Technical Support (CNTS) program. John has achieved CCNP, CCDP, CCNA: Data Center, MCITP: EA/SA, CompTIA A+ / Network+, and ITIL Foundation certifications. Having discovered a new way to interface with the network John felt compelled to share this new methodology in hopes of revolutionizing the industry and bringing network automation to the world.

Discovering management - The Open University

IBM Power System S821LC Technical Overview and Introduction - Scott Vetter 2017-08-29

This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power System S821LC (8001-12C) server that uses the latest IBM POWER8® processor technology and supports the Linux operating system (OS). The Power S821LC server is designed to maximize data center floor space with its dense 1U server design, which helps to reduce infrastructure cost. The Power S821LC server delivers superior performance and exceptional throughput for data center and cloud workloads that require dense virtualization, open source database deployment, and high-performance computing applications. The Power S821LC server supports up to two processor sockets, offering 16-core 2.328 GHz (3.026 GHz turbo) or 20-core 2.095 GHz (2.827 GHz turbo) POWER8 configurations in a 19-inch rack-mount, 1U (EIA units) drawer configuration. All the cores are activated. The objective of this paper is to introduce the Power S821LC offering and its relevant functions, including: Two POWER8 processors in a 1U form factor Dense virtualization and dense database deployment capability-providing more value per server footprint than 1U x86-based alternatives Leadership data throughput that is enabled by POWER8 multithreading with up to 4X more threads than x86 designs Superior application performance due to 2x per core performance advantage over x86-based systems Acceleration of a broad range of workloads with GPUs and superior I/O bandwidth with Coherent Accelerator Processor Interface (CAPI) This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power S821LC system.

FreeBSD Handbook - FreeBSD Documentation Project 2000

The FreeBSD Handbook is a comprehensive FreeBSD tutorial and reference. It covers installation, day-to-day use of FreeBSD, and much more, such as the Ports collection, creating a custom kernel, security topics, the X Window System, how to use FreeBSD's Linux binary compatibility, and how to upgrade your system from source using the 'make world' command, to name a few.

Bash Cookbook - Carl Albing 2007-05-24

The key to mastering any Unix system, especially Linux and Mac OS X, is a thorough knowledge of shell scripting. Scripting is a way to harness and customize the power of any Unix system, and it's an essential skill for any Unix users, including system administrators and professional OS X developers. But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards. bash Cookbook teaches shell scripting the way Unix masters practice the craft. It presents a variety of recipes and tricks for all levels of shell programmers so that anyone can become a proficient user of the most common Unix shell -- the bash shell -- and cygwin or other popular Unix emulation packages. Packed full of useful scripts,

along with examples that explain how to create better scripts, this new cookbook gives professionals and power users everything they need to automate routine tasks and enable them to truly manage their systems -- rather than have their systems manage them.

Building Virtual Machine Labs - Tony V. Robinson 2017-06

Virtualization is a skill that most IT or security pros take for granted. The sheer number of choices and requirements can be a daunting challenge to face for beginners and veterans alike. With this book, you'll learn how to build a robust, customizable virtual environments suitable for both a personal home lab, as well as a dedicated office training environment. You will learn how to: - Understand the mechanics of virtualization and how they influence the design of your lab - Build an extensive baseline lab environment on any one of five commonly used hypervisors (VMware vSphere Hypervisor, VMware Fusion, VMware Workstation, Oracle Virtualbox, and Microsoft Client Hyper-V) - Harden your lab environment against VM escapes and other security threats - Configure the pfSense firewall distribution to provide security, segmentation, and network services to your virtual lab - Deploy either Snort or Suricata open-source IDS platforms in IPS mode to further enhance the flexibility, segmentation and security of your lab network - Deploy Splunk as a log management solution for your lab - Reconfigure the provided baseline lab environment to better suit your individual needs Easy to follow steps and illustrations provide detailed, comprehensive guidance as you build your custom-tailored lab. Both IT and security professionals need practice environments to better hone their craft. Learn how to build and maintain your own with Building Flexible Virtual Machine Labs

Mastering VMware vSphere 6.7 - Martin Gavanda 2019-03-07

Unleash the benefits of VMware vSphere 6.7 to provide a powerful, flexible and secure digital infrastructure Key FeaturesDeep dive into areas like management, security, scalability, availability and more with vSphere 6.7Design, deploy and manage VMware vSphere virtual datacentersImplement monitoring and security of VMware workloads with easeBook Description vSphere 6.7 is the latest release of VMware's industry-leading, virtual cloud platform. It allows organisations to move to hybrid cloud computing by enabling them to run, manage, connect and secure applications in a common operating environment. This up-to-date, 2nd edition provides complete coverage of vSphere 6.7. Complete with step-by-step explanations of essential concepts, practical examples and self-assessment questions, you will begin with an overview of the products, solutions and features of the vSphere 6.7 suite. You'll learn how to design and plan a virtual infrastructure and look at the workflow and installation of components. You'll gain insight into best practice configuration, management and security. By the end the book you'll be able to build your own VMware vSphere lab that can run even the most demanding of workloads. What you will learnExplore the immense functionality of vSphere 6.7Design, manage and administer a virtualization environmentGet tips for the VCP6-DCV and VCIX6-DCV examsUnderstand how to implement different migration techniques across different environmentsExplore vSphere 6.7s powerful capabilities for patching, upgrading and managing the configuration of virtual environmentsUnderstand core vSphere componentsMaster resource management, disaster recovery, troubleshooting, monitoring and securityWho this book is for This book is for Administrators, Infrastructure Engineers, Architects, and Consultants with basic knowledge of VMware vSphere.

Nmap: Network Exploration and Security Auditing Cookbook - Paulino Calderon 2017-05-26

Over 100 practical recipes related to network and application security auditing using the powerful Nmap About This Book Learn through practical recipes how to use Nmap for a wide range of tasks for system administrators and penetration testers. Learn the latest and most useful features of Nmap and the Nmap Scripting Engine. Learn to audit the security of networks, web applications, databases, mail servers, Microsoft Windows servers/workstations and even ICS systems. Learn to develop your own modules for the Nmap Scripting Engine. Become familiar with Lua programming. 100% practical tasks, relevant and explained step-by-step with exact commands and optional arguments description Who This Book Is For The book is for anyone who wants to master Nmap and its scripting engine to perform real life security auditing checks for system administrators and penetration testers. This book is also recommended to anyone looking to learn about network security auditing. Finally, novice Nmap users will also learn a lot from this book as it covers several advanced internal aspects of Nmap and related tools. What You Will Learn Learn about

Nmap and related tools, such as Ncat, Ncrack, Ndiff, Zenmap and the Nmap Scripting Engine Master basic and advanced techniques to perform port scanning and host discovery Detect insecure configurations and vulnerabilities in web servers, databases, and mail servers Learn how to detect insecure Microsoft Windows workstations and scan networks using the Active Directory technology Learn how to safely identify and scan critical ICS/SCADA systems Learn how to optimize the performance and behavior of your scans Learn about advanced reporting Learn the fundamentals of Lua programming Become familiar with the development libraries shipped with the NSE Write your own Nmap Scripting Engine scripts In Detail This is the second edition of 'Nmap 6: Network Exploration and Security Auditing Cookbook'. A book aimed for anyone who wants to master Nmap and its scripting engine through practical tasks for system administrators and penetration testers. Besides introducing the most powerful features of Nmap and

related tools, common security auditing tasks for local and remote networks, web applications, databases, mail servers, Microsoft Windows machines and even ICS SCADA systems are explained step by step with exact commands and argument explanations. The book starts with the basic usage of Nmap and related tools like Ncat, Ncrack, Ndiff and Zenmap. The Nmap Scripting Engine is thoroughly covered through security checks used commonly in real-life scenarios applied for different types of systems. New chapters for Microsoft Windows and ICS SCADA systems were added and every recipe was revised. This edition reflects the latest updates and hottest additions to the Nmap project to date. The book will also introduce you to Lua programming and NSE script development allowing you to extend further the power of Nmap. Style and approach This book consists of practical recipes on network exploration and security auditing techniques, enabling you to get hands-on experience through real life scenarios.