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WebSphere Cloudburst Appliance and PowerVM-Shivaji D Bhosale 2010-10-21 This IBM® Redbooks® publication discusses the concepts and implementation of PowerVMTM and the WebSphere® CloudBurstTM appliance. This book is aimed at administrators and developers who have little knowledge of PowerVM, but in-depth knowledge of WebSphere software. Cloud computing is the pooling of computing resources to provide a single source of computing power to multiple users. A cloud manager provides a self-service portal that maintains permissions and information about cloud objects such as virtual images, patterns, and resources. The WebSphere CloudBurst Appliance represents a cloud manager. It is a secure hardware appliance that optimizes the configuration, deployment, and management of WebSphere Application Server environments in a cloud. It can also be used by service providers providing hosted public clouds and software-as-a-service environments to simplify and standardize repeated deployments of their software. This book includes an introduction to cloud computing and how the WebSphere CloudBurst appliance fits into business today. It presents the features and benefits of using the WebSphere CloudBurst Appliance and the advantages of using PowerVM. It provides the steps required to implement WebSphere CloudBurst appliance with PowerVM. WebSphere Application Server V8.5 Concepts, Planning, and Design Guide-Carla Sadtler 2013-08-01 This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8.5 environments. The target audience of this book is IT architects and consultants who want more information about the planning and design of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server, and highlights the most common implementation topologies. It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment. Also in this book are planning guidelines for Websphere Application Server and WebSphere Application Server Network Deployment on distributed platforms. It also includes guidelines for WebSphere Application Server for IBM z/OS®. This book contains information about migration considerations when moving from previous releases. This book has been updated with the new features introduced with WebSphere Application Server V8.5.5.

IBM WebSphere Application Server V8.5 Administration and Configuration Guide for Liberty Profile-Anil Esen 2015-10-26 IBM® WebSphere® Application Server V8.5 includes a Liberty profile, which is a highly composable, dynamic application server profile. It is designed for two specific use cases: Developers with a smaller production runtime, and production environments. For developers, it focuses on the tasks that a developer does most frequently, and makes it possible for the developer to complete those tasks as quickly and as simply as possible. For production environments, it provides a dynamic, small footprint runtime to be able to maximize system resources. This IBM Redbooks® publication targets administrators of Liberty environments. It provides the information needed to create, configure, and manage Liberty servers. It includes information about managing multiple servers in an installation, including the use of the new administrative capabilities introduced in WebSphere Application Server V8.5.5.7. The following publications are companion publications for this book: WebSphere Application Server: New Features in V8.5.5, REDP-4870 WebSphere Application Server V8.5.5 Technical Overview, REDP-4855 IBM WebSphere Application Server V8.5 Concepts, Planning, and Design Guide, SG24-8022 WebSphere Application Server Liberty Profile Guide for Developers, SG24-8076

IBM WebSphere Application Server V8 Concepts, Planning, and Design Guide-Margaret Ticknor 2011-09-14 This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8 environments. The target audience of this book is IT architects and consultants who want more information about the planning and designing of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server V8 and highlights the most common implementation topologies. It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment. Also in this book are planning guidelines for WebSphere Application Server V8 and WebSphere Application Server Network Deployment V8 on distributed platforms and for WebSphere Application Server for z/OS® V8. This book contains information about migration considerations when moving from previous releases.

WebSphere Application Server V7: Competitive Migration Guide-Santos Bento da Silva Joao Emilio 2010-08-20 This IBM® Redbooks® publication helps you plan and execute the migration of J2EE applications developed for Oracle WebLogic Server, JBoss, GlassFish, and Apache Tomcat, so that they run on WebSphere® Application Server V7. This book provides detailed information to plan migrations, suggested approaches for developing portable applications, and migration working examples for each of the platforms from which we migrated. It is not our intention to provide a feature-by-feature comparison of these application servers versus WebSphere Application Server V7, or to argue the relative merits of the products, but to produce practical technical advice for developers who have to migrate applications from these vendors to WebSphere Application Server V7. The book is intended as a migration guide for IT specialists who are working on migrating applications written for other application servers to WebSphere Application Server V7.

Creating Integrated IBM WebSphere Solutions using Application Lifecycle Management-Emrah Barkana 2014-12-21 This IBM® Redbooks® publication demonstrates, through a practical solution and step-by-step implementation instructions, how customers can use the IBM Rational® Application Lifecycle Management (ALM) portfolio to build and manage an integrated IBM WebSphere® Application. Building a business application (mobile and desktop) that uses WebSphere Application Server, IBM MQ, IBM Integration Bus (IIB), Business Process Management (BPM), Operational Decision Management (ODM), and Mobile. IBM RedpaperTM publication, Rapid deployment of integrated WebSphere solutions in your cloud, REDP-5132, is an extension to this IBM Redbooks publication. Using the same practical solution covered in this Redbooks publication, REDP-5132 demonstrates how the IBM PureApplication® System is a "logical extension" versus a "whole new world", covering PureApplication Patterns and the new PureApplication as a service on Softlayer. The intended audience for this book is architects, developers, administrators, and DevOps personnel.

Rapid Deployment of Integrated WebSphere Solutions in Your Cloud-Barkana Emrah 2014-12-16 This IBM® Redbooks® publication uses the same practical solution and is an extension to Creating Integrated WebSphere Solutions using Application Lifecycle Management, SG24-8243-00. This paper demonstrates how to take an existing application that was built in a legacy environment, and bring that application to IBM PureApplication® Systems, using preferred practices for deployment and automation. The process is illustrated using a business scenario. This publication is intended for architects, developers, and administrators who want to know about the next generation of technology that modern IT organizations are moving rapidly towards: Application integration and systems development.

IBM Workload Deployer: Pattern-based Application and Middleware Deployments in a Private Cloud-Carla Sadtler 2012-03-22 IBM® Workload Deployer provides a solution to creating, deploying, and managing workloads in an on-premise or private cloud. It is rich in features that allow you to quickly build and deploy virtual systems from base images, to extend those images, and to customize them for future use as repeatable deployable units. IBM Workload Deployer also provides an application-centric capability enabling rapid deployment of business applications. By using either of these deployment models, an organization can quickly instantiate a complete application platform for development, test, or production. The IBM Workload Deployer uses the concept of patterns to describe the logical configuration of both the physical and virtual assets that comprise a particular solution. The use of patterns allows an organization to construct a deployable solution one time, and then dispense the final product on demand. Patterns are composed of an operating system and IBM software solutions, such as IBM WebSphere® Application Server and IBM WebSphere Virtual Enterprise. patterns are constructed to support a single application workload. The IBM Workload Deployer is shipped with a set of pre-loaded virtual images and virtual patterns. These images and patterns can be used to create comprehensive and flexible middleware solutions. They can also be cloned and customized to suit your specific needs. This IBM Redbooks® publication looks at two different aspects of customizing virtual systems for deployment into the cloud. First, it explores the capabilities of IBM Image Construction and Composition Tool to build and provide highly customized virtual images for use in virtual system patterns on the IBM Workload Deployer. Next, it looks at the virtual application capabilities of the IBM Workload Deployer, including those capabilities that allow you to deploy enterprise applications and database services to the cloud. It also introduces the IBM Workload Deployer Plugin Development Kit, which allows you to further extend the capabilities of the virtual application patterns.

SOA with Java-Thomas Erl 2014-06-17 "An outstanding depth-and-breadth resource for IT architects and Java professionals to understand and apply the marriage of SOA and modern Java." --Antonio Bruno, Enterprise Architecture and Strategy, digitalStrom "A great self-contained book on SOA using flexible Java implementations...." --Roger Stoffers, Hewlett Packard "Provides clarity on abstract concepts and is filled with concrete examples of implementing SOA principles in Java environments." --Sanjay Singh, Certified SOA Architect "...provides a holistic, comprehensive view on leveraging SOA principles and architecture for building and deploying performant Java services." --Suzanne D'Souza, KBACE Technologies "Thomas Erl's series of books on services technology have shaped, influenced, and strengthened a whole community of enterprise and solution architects' thinking and solution development, and the much awaited SOA with Java book is an excellent addition to the series. It is a must-read." --Lalatendu Rath, Wipro Technologies The Definitive Guide to Building Service-Oriented Solutions with Lightweight and Mainstream Java Technologies Java has evolved into an exceptional platform for building Web-based enterprise services. In SOA with Java, Thomas Erl and several world-class experts guide you in mastering the principles, best practices, and Java technologies you need to design and deliver high-value services and service-oriented solutions. You'll learn how to implement SOA with lightweight frameworks, mainstream Java services technologies, and contemporary specifications and standards. To demonstrate real-world examples, the authors present multiple case study scenarios. They further demystify complex concepts with a plain-English writing style. This book will be valuable to all developers, analysts, architects, and other IT professionals who want to design and implement Web-based service-oriented architectures and enterprise solutions with Java technologies. Topic Areas Applying modern service-orientation principles to modern Java technology platforms Leveraging Java infrastructure extensions relevant to service-oriented solutions Exploring key concepts associated with SOA and service-orientation within the context of Java Reviewing relevant Java platforms, technologies, and APIs Understanding the standards and conventions that REST and SOAP services are built upon in relation to Java implementations Building Java Web-based services with JAX-WS and JAX-RS Applying the eight key principles of service-orientation design using Java tools and technologies Creating Java utility services: architectural, design, and implementation issues Constructing effective entity services: service contracts, messages, data access, and processing Constructing task services, including detailed guidance on service composition Using ESBs to support infrastructure requirements in complex services ecosystems

Virtualization with IBM Workload Deployer: Designing and Deploying Virtual Systems-Carla Sadtler 2011-11-10 The IBM® Workload Deployer appliance provides a solid foundation for private cloud strategy, enabling the rapid adoption and deployment of both infrastructure and platform as a Service offering. The IBM Workload Deployer uses the concept of patterns to describe the logical configuration of both the physical and virtual assets that comprise a particular solution. The use of patterns allows an organization to construct an individual element or integrated solution one time, and then dispense the final product on demand. Virtual system patterns are comprised of an operating system and IBM software solutions, such as WebSphere® Application Server and WebSphere Virtual Enterprise. Virtual application patterns are constructed to support a single application workload. This book focuses on the virtual systems capability of the IBM Workload Deployer and specifically addresses the process of building customized virtual systems that go beyond the standard capabilities of the virtual images available with the product. The book starts by describing private clouds and how they can benefit your business. It introduces the IBM Workload Deployer and its capabilities, and then talks about the various tools that you can use to enhance the process of planning, customizing, and automating virtual system deployment. A sample is used to illustrate how the standard virtual images that are available for the IBM Workload Deployer can be customized for a robust solution that includes dynamic workload management, high-performing data caching, and monitoring of system state. The book then discusses how you can use the IBM Workload Deployer to facilitate the progression of an application through its lifecycle. Finally, an overview is provided of the troubleshooting capabilities that come with the IBM Workload Deployer.

Exploring IBM Server & Storage Technology-Jim Hoskins 2005 IBM's vision of the future of computing and how its evolving technologies, product lines, and services fit into that future are the subject of this broad look at the world's largest computer company. Discussing IBM's e-business strategy to leverage Internet technology, its new emphasis on IBM Global Services, and its fast-growing consulting business this overview. profiles of IBM's new eServer xSeries, pSeries, iSeries, and zSeries, showing how each fits into an e-business context. A companion web site accessible only to buyers of this book provides the latest news and additional resources related to IBM technology and product lines.

Cloud Computing Patterns of Expertise-Chiara Brandle 2014-06-18 This IBM® RedpaperTM publication explains the business and technical value of emerging patterns of expertise in cloud computing, with specific applicability to IBM PureApplicationTM System, IBM Workload Deployer, IBM SmartCloud® Orchestrator, and IBM SmartCloud Application Services. It explains how patterns help companies use the different cloud environments that IBM offers. Also included are some preferred practices for helping to ensure pattern portability. The pattern-based approach is a response to the need to reduce complexity in IT environments, where various skills are required to design, test, configure, and maintain integrated solutions, including clouds. IT managers spend most of their time maintaining applications and application environments, leaving little time to focus on new business needs or to adopt new technologies. As a result, businesses can lack the agility that is needed to be successful in fast-paced, competitive markets. Pattern of expertise are designed to deliver the following benefits: Faster time-to-value Reduced costs and resource demands Fewer errors and, therefore, lower risk Patterns make full use of the unique nature of clouds, both private or public. When they are used in the cloud, patterns allow for the dynamic and efficient use of IT resources to achieve consistent results, even when complex solutions are built. In this way, patterns help save time, money, and resources. This Redpaper aims to show the value that patterns bring to IT managers and the business as a whole.

IBM WebSphere Application Server 8.0 Administration Guide-Steve Robinson 2011-10-03 IBM WebSphere Application Server 8.0 Administration Guide is a highly practical, example-driven tutorial. You will be introduced to WebSphere Application Server 8.0, and guided through configuration, deployment, and tuning for optimum performance. If you are an administrator who wants to get up and running with IBM WebSphere Application Server 8.0, then this book is not to be missed. Experience with WebSphere and Java would be an advantage, but is not essential.

IBM PureApplication System Best Practices-Amit P. Acharya 2014-02-04 This IBM® Redbooks® publication describes IBM PureApplicationTM System preferred practices that are based on IBM client and Business Partner experience. It explains how PureApplication System enables industries to consolidate workloads, increase efficiency, automate routine processes, reduce costs, and become more agile to respond to continually changing business needs. This book is particularly useful to solution specialists, system or software architects, and the IT teams who implement PureApplication System cloud services.

Adopting IBM PureApplication System V1.0-Shivaji D Bhosale 2013-12-11 This IBM® Redbooks® publication introduces users to the concepts of the IBM PureApplicationTM System V1.0. This book covers the most common problems, solutions, best practices, and use cases about adopting the IBM PureApplication System V1.0. The target audience for this book is anyone from the IT industry who wants to acquire a better understanding of IBM PureApplication System, including technical consultants, business partners, and independent software vendors who are considering migrating to a cloud computing solution. This book also is applicable to system administrators, middleware specialists, and software engineers who need a more in-depth approach to PureApplication System features and capabilities.

Getting Started with IBM WebSphere Cast Iron Cloud Integration-Carla Sadtler 2012-01-25 Cloud computing provides companies with many capabilities to meet their business needs but can also mean that a hybrid architecture is created that includes on-premise systems and the cloud. Integration is needed to bridge the gap between the on-premise existing systems and the new cloud applications, platform, and infrastructure. IBM® WebSphere® Cast Iron® meets the challenge of integrating cloud applications with on-premise systems, cloud applications-to-cloud applications, and on-premise to on-premise applications. It contains a graphical development environment that provides built-in connectivity to many cloud and on-premise applications and reusable solution templates that can be downloaded from a solution repository. The integration solutions that are created can then run on either an on-premise integration appliance or the multi-tenant WebSphere Cast Iron Live cloud service. This IBM Redbooks® publication is intended for application integrators, integration designers, and administrators evaluating or already using IBM WebSphere Cast Iron. Executives, leaders, and architects who are looking for a way to integrate cloud applications with their on-premise applications are also shown how WebSphere Cast Iron can help to resolve their integration challenges. The book helps you gain an understanding of Cast Iron and explains how to integrate cloud and on-premise applications quickly and simply. It gives a detailed introduction to the development tool and the administration interfaces and how they are used. It also discusses security, high availability, and re-usability. The book also includes three detailed scenarios covering real-world implementations of a Cast Iron Integration Solution.

IBM Systems Journal- 2007

DB2 Virtualization-Whei-Jen Chen 2009-11-25 Server virtualization technologies are becoming more popular to help efficiently utilize resources by consolidating servers. IBM® , the first company that developed and made available the virtual technology in 1966, offers advanced, powerful, reliable, and cost-saving virtualization technologies in various hardware and software products including DB2® for Linux, UNIX, and Windows. This IBM Redbooks® publication describes using IBM DB2 9 with server virtualization. We start with a general overview of virtualization and describe specific server virtualization technologies to highlight how the server virtualization technologies have been implemented. With this introduction anyone new to virtualization will have a better understanding of server virtualization and the industry server virtualization technologies available in the market. Following the virtualization concept, we describe in detail the setup, configuration, and managing of DB2 with three leading server virtualization technologies: IBM Power SystemsTM with PowerVMTM VMware Hyper-V We discuss the virtual machine setup with DB2 in mind to help IT support understand the effective ways of setting up a virtual environment specific for DB2. We explain the architecture and components of these three server virtualization technologies to allow DBAs to understand how a database environment using DB2 can benefit from using the server virtualization technologies. In addition, we discuss the DB2 features and functions that can take advantage of using server virtualization. These features are put into practice when describing how to set up DB2 with the three virtualization technologies discussed in this book. This book also includes a list of best practices from the various tests performed while using these virtualization technologies. These best practices can be used as a guideline or a reference when setting up DB2 using these virtualization technologies.

Creating Composite Application Pattern Models for IBM PureApplication System-Prashanth Bhat 2013-08-22 This IBM® Redbooks® publication describes how IBM PureApplicationTM System supports the creation of virtual systems and virtual applications. PureApplication System does so using a pattern model that enables you to take advantage of predefined, pre-configured, and proven middleware topologies and deployments. This book also presents an abstraction level that focuses on functional capabilities and applications, completely encapsulating the underlying middleware. It describes in detail the model and the associated frameworks in PureApplication System, as well as a methodology and approach toward designing and implementing a custom pattern model. This book shows concrete implementation examples that you can use when creating your own pattern model, paired with a collection of leading practices. This IBM Redbooks publication gives critical guidance to, and serves as a reference for, independent software vendors (ISVs) who want to create patterns for their packaged applications on PureApplication System. Clients who want to extend and enhance their existing patterns can also use this book.

Developing and Hosting Applications on the Cloud-Alex Amies 2012

Virtualization Essentials-Matthew Portnoy 2016-08-29 Learn virtualization skills by building your own virtual machine Virtualization Essentials, Second Edition provides new and aspiring IT professionals with immersive training in working with virtualization environments. Clear, straightforward discussion simplifies complex concepts, and the hands-on tutorial approach helps you quickly get up to speed on the fundamentals. You'll begin by learning what virtualization is and how it works within the computing environment, then you'll dive right into building your own virtual machine. You'll learn how to set up the CPU, memory, storage, networking, and more as you master the skills that put you in-demand on the job market. Each chapter focuses on a specific goal, and concludes with review questions that test your understanding as well as suggested exercises that help you reinforce what you've learned. As more and more companies are leveraging virtualization, it's imperative that IT professionals have the skills and knowledge to interface with virtualization-centric infrastructures. This book takes a learning-by-doing approach to give you hands-on training and a core understanding of virtualization. Understand how virtualization works Create a virtual machine by scratch and migration Configure and manage basic components and supporting devices Develop the necessary skill set to work in today's virtual world Virtualization was initially used to build test labs, but its use has expanded to become best practice for a tremendous variety of IT solutions including high availability, business continuity, dynamic IT, and more. Cloud computing and DevOps rely on virtualization technologies, and the exponential spread of these and similar applications make virtualization proficiency a major value-add for any IT professional. Virtualization Essentials, Second Edition provides accessible, user-friendly, informative virtualization training for the forward-looking pro.

ISPASS- 2003

Implementing High Availability and Disaster Recovery in IBM PureApplication Systems-Venkata Gadepalli 2015-01-27 This IBM Redbooks publication describes and demonstrates common, prescriptive scenarios for setting up disaster recovery for common workloads using IBM WebSphere Application Server, IBM DB2, and WebSphere MQ between two IBM PureApplication System racks using the features in PureApplication System V2. The intended audience for this book is pattern developers and operations team members who are setting up production systems using software patterns from IBM that must be highly available or able to recover from a disaster (defined as the complete loss of a data center).

WebSphere Application Server V8.5 Administration and Configuration Guide for the Full Profile-IBM Redbooks 2013

DB2 for z/OS and WebSphere Integration for Enterprise Java Applications-Paolo Bruni 2013-08-07 IBM DB2® for z/OS® is a high-performance database management system (DBMS) with a strong reputation in traditional high-volume transaction workloads that are based on relational technology. IBM WebSphere® Application Server is web application server software that runs on most platforms with a web server and is used to deploy, integrate, execute, and manage Java Platform, Enterprise Edition applications. In this IBM® Redbooks® publication, we describe the application architecture evolution focusing on the value of having DB2 for z/OS as the data server and IBM z/OS® as the platform for traditional and for modern applications. This book provides background technical information about DB2 and WebSphere features and demonstrates their applicability presenting a scenario about configuring WebSphere Version 8.5 on z/OS and type 2 and type 4 connectivity (including the XA transaction support) for accessing a DB2 for z/OS database server taking into account high-availability requirements. We also provide considerations about developing applications, monitoring performance, and documenting issues. DB2 database administrators, WebSphere specialists, and Java application developers will appreciate the holistic approach of this document.

Introduction to the New Mainframe: z/OS Basics-Mike Ebbers 2012-01-04 This IBM® Redbooks® publication provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. It is the first in a planned series of book designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. For optimal learning, students are assumed to have successfully completed an introductory course in computer system concepts, such as computer organization and architecture, operating systems, data management, or data communications. They should also have successfully completed courses in one or more programming languages, and be PC literate. This book can also be used as a prerequisite for courses in advanced topics or for internships and special studies. It is not intended to be a complete text covering all aspects of mainframe operation or a reference book that discusses every feature and option of the mainframe facilities. Others who will benefit from this book include experienced data processing professionals who have worked with non-mainframe platforms, or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment.

Essentials of Application Development on IBM Cloud-Ahmed Azraq 2017-12-11 This IBM® Redbooks® publication is designed to teach university students and app developers the foundation skills that are required to develop, test, and deploy cloud-based applications on IBM Cloud. It shows the latest features of IBM Cloud for developing cloud applications, enhancing applications by using managed services, and the use of DevOps services to manage applications. This book is used as presentations guide for the IBM Skills Academy track Cloud Application Developer and as preparation material for the IBM professional certification exam IBM Certified Application Developer - Cloud Platform. The primary target audience for this course is university students in undergraduate computer science and computer engineer programs with no previous experience working in cloud environments. However, anyone new to cloud computing or IBM Cloud can also benefit from this course.

Automated Application Delivery with OpenStack Heat Patterns-Claudio Tagliabue 2016-11-21 This IBM® RedpaperTM publication focuses on demonstrating how to build, deploy, and manage OpenStack Heat Patterns on IBM PureApplication® Systems. This paper addresses the topic of automated application deployment and delivery through patterns. In particular, it focuses on patterns based on open source technologies, primarily OpenStack.

Performance Optimization and Tuning Techniques for IBM Power Systems Processors Including IBM POWER8-Brian Hall 2017-03-31 This IBM® Redbooks® publication focuses on gathering the correct technical information, and laying out simple guidance for optimizing code performance on IBM POWER8® processor-based systems that run the IBM AIX®, IBM i, or Linux operating systems. There is straightforward performance optimization that can be performed with a minimum of effort and without extensive previous experience or in-depth knowledge. The POWER8 processor contains many new and important performance features, such as support for eight hardware threads in each core and support for transactional memory. The POWER8 processor is a strict superset of the IBM POWER7+TM processor, and so all of the performance features of the POWER7+ processor, such as multiple page sizes, also appear in the POWER8 processor. Much of the technical information and guidance for optimizing performance on POWER8 processors that is presented in this guide also applies to POWER7+ and earlier processors, except where the guide explicitly indicates that a feature is new in the POWER8 processor. This guide strives to focus on optimizations that tend to be positive across a broad set of IBM POWER® processor chips and systems. Specific guidance is given for the POWER8 processor; however, the general guidance is applicable to the IBM POWER7+, IBM POWER7®, IBM POWER6®, IBM POWER5, and even to earlier processors. This guide is directed at personnel who are responsible for performing migration and implementation activities on POWER8 processor-based systems. This includes system administrators, system architects, network administrators, information architects, and database administrators (DBAs).

IBM SmartCloud: Building a Cloud Enabled Data Center-Pietro Iannucci 2013-05-21 Organizations are looking for ways to get more out of their already strained IT infrastructure as they face new technological and economic pressures. They are also trying to satisfy a broad set of users (internal and external to the enterprise) who demand improvements in their quality of service (QoS), regardless of increases in the number of users and applications. Cloud computing offers attractive opportunities to reduce costs, accelerate development, and increase the flexibility of the IT infrastructure, applications, and services. Infrastructure as a service (IaaS) is the typical starting point for most organizations when moving to a cloud computing environment. IaaS can be used for the delivery of resources such as compute, storage, and network services through a self-service portal. With IaaS, IT services are delivered as a subscription service, eliminating up-front costs and driving down ongoing support costs. IBM® has defined the Cloud Computing Reference Architecture (CCRA) based on years of experience with working with customers who have implemented cloud-computing solutions. The IBM CCRA is a blueprint or guide for architecting cloud-computing implementations. This IBM RedguideTM publication highlights the Cloud Enabled Data Center adoption pattern and describes how you can use it to define an IaaS solution. This guide is intended for chief technology officers, data center architects, IT architects, and application architects who want to understand the cloud-computing infrastructure necessary to support their applications and services by using an IaaS solution. It explains the technical and business benefits of a Cloud Enabled Data Center solution. It introduces a Cloud Enabled Data Center maturity model where each maturity level corresponds to an increase in the degree of automation and the cloud-computing capabilities that are available. In addition, this guide describes the architectural framework provided by the IBM CCRA and explains details about the Cloud Enabled Data Center adoption pattern.

Cloud Computing Infrastructure on IBM Power Systems: Getting started with ISDM-Scott Vetter 2012-05-23 Managing IT systems is difficult. Virtualization brings numerous benefits to the datacenter and system administrators. However, it also creates a new set of choices. More choice implies more decisions, and thus an increased management responsibility. Furthermore, the move toward cloud computing, with a service-based acquisition and delivery model, requires that datacenter managers take a holistic view of the resources that they manage and the actors that access the data center. IBM® Service Delivery Manager addresses this problem domain. Delivered as a set of appliances, it automates provisioning, deprovisioning, metering, and management of an IT platform, and the services it provides. It addresses the needs of both IT management and service users. This IBM Redbooks® publication is intended for technical professionals who want to understand and deploy IBM ISDM Cloud on a Power platform.

Enterprise Class Mobile Application Development-Leigh Williamson 2015-11-19 Build and Deploy Mobile Business Apps That Smoothly Integrate with Enterprise IT For today's enterprises, mobile apps can have a truly transformational impact. However, to maximize their value, you can't build them in isolation. Your new mobile apps must reflect the revolutionary mobile paradigm and delight today's mobile users--but they must also integrate smoothly with existing systems and leverage previous generations of IT investment. In this guide, a team of IBM's leading experts show how to meet all these goals. Drawing on extensive experience with pioneering enterprise clients, they cover every facet of planning, building, integrating, and deploying mobile apps in large-scale production environments. You'll find proven advice and best practices for architecture, cloud integration, security, user experience, coding, testing, and much more. Each chapter can stand alone to help you solve specific real-world problems. Together, they help you establish a flow of DevOps activities and lifecycle processes fully optimized for enterprise mobility.

Exploiting IBM PowerVM Virtualization Features with IBM Cognos 8 Business Intelligence-Dino Quintero 2010-09-07 This IBM Redbooks® publication addresses topics to leverage the virtualization strengths of the IBM Power platform to solve customer system resource utilization challenges and maximize system throughput and capacity. This IBM Redbooks publication will help you leverage the strengths of the POWER platform, provide implementation scenarios with Cognos® 8 Business Intelligence (BI) with the comprehensive set of the IBM PowerVMTM virtualization features, and identify and document best practices for exploiting the IBM PowerVM virtualization features within Cognos BI deployments to maximize utilization of system resources and maximize Cognos throughput and capacity. This book is targeted toward technical professionals (BI consultants, technical support staff, IT architects, and IT specialists) responsible for providing business intelligence solutions and support for Cognos BI on POWER® systems.

Essentials of Cloud Computing-K. Chandrasekaran 2014-12-05 Cloud computing-accessing computing resources over the Internet-is rapidly changing the landscape of information technology. Its primary benefits compared to on-premise computing models are reduced costs and increased agility and scalability. Hence, cloud computing is receiving considerable interest among several stakeholders-businesses, the IT ind

Embedding IBM Informix-Whei-Jen Chen 2011-02-17 In this IBM® Redbooks® publication, we discuss and describe the capabilities for embedding Informix® into applications and software. We introduce the technological architecture and describe several of the functions and features that support Informix as a robust and powerful embeddable DBMS. Many of these features are unique in the industry today, enabling clients to create a business advantage. The Informix database server can support the requirements of an embeddable DBMS, and is doing so for many companies today. The low administration requirements of the Informix database server enable clients to deploy thousands of Informix instances, embedded in applications in locations where there are no technical resources to support the database. The real requirement is for applications with embedded databases that require little or no administration, take minimum storage resources, have excellent performance, and are highly reliable. As a mature and reliable DBMS, the Informix database server works well with small, growing, and large databases, and meets the key requirements for embedded databases, which include the ability to execute without needing any configuration or other DBA administrative activities, and the flexibility to work on all of the platforms commonly used in the marketplace today.

IBM Power Systems SR-IOV: Technical Overview and Introduction-Scott Vetter 2017-01-12 This IBM® RedpaperTM publication describes the adapter-based virtualization capabilities that are being deployed in high-end IBM POWER7+TM 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.

Pro (IBM) WebSphere Application Server 7 Internals-Colin Renouf 2009-09-02 Pro (IBM) WebSphere Application Server 7 Internals covers the internal architecture and implementation of the WebSphere Application Server (WAS) version 7 product set and how other IBM products extend it. It presents information to enable administrators, developers, and architects to learn about the aspects of WAS that apply to them: Administrators will come to understand how the WAS7 environment functions to best optimize it for their environment, and what to do when things go wrong. Developers will learn to extend the functionality in the base WAS product. Architects will see how the WAS product underpins the IBM offerings to fit in an enterprise.

Distributed and Cloud Computing-Kai Hwang 2013-12-18 Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

The Virtualization Cookbook for IBM z Systems Volume 1: IBM z/VM 6.3-Lydia Parziale 2016-06-27 This IBM® Redbooks® publication is the first volume of a series of three books called The Virtualization Cookbook for IBM z Systems. The other two volumes relate to Red Hat and SUSE: The Virtualization Cookbook for IBM z Systems Volume 2: Red Hat Enterprise Linux Server 7.1, SG24-8303 The Virtualization Cookbook for IBM z Systems Volume 3: SUSE Linux Enterprise Server 12, SG24-8890 It is recommended that you start with Volume 1 of this series because IBM z/VM® is the base "layer" when you install Linux on z Systems. Volume 1 starts with an introduction, discusses planning, then describes z/VM installation into a two-node single system image (SSI) cluster, configuration, hardening, automation, and servicing. It adopts a cookbook format that provides a concise, repeatable set of procedures for installing and configuring z/VM by using the z/VM SSI clustering feature. Volume 1 consists of the following chapters: Chapter 1, "Introduction to Linux on the IBM mainframe under z/VM" on page 3. This chapter provides a concise introduction to the concept of using the z/VM platform as an enterprise Linux infrastructure on the IBM mainframe. Chapter 2, "Planning" on page 15. This chapter covers the planning of hardware, software, and networking resources that you need to do before you attempt to install z/VM and Linux. Chapter 3, "Configuring a workstation for mainframe access" on page 39. This chapter addresses the configuration of a workstation that is running either Linux or Windows to access the mainframe. Chapter 4, "Installing and configuring z/VM" on page 49. This chapter describes installing z/VM 6.3 as a two-node VM Single System Image feature (VMSSI) cluster, performing the initial configuration, hardening, and enabling basic system automation. Chapter 5, "Servicing z/VM" on page 153. This chapter focuses on the requirements to keep your z/VM systems updated to ensure full functionality, optimal utility, security, and the elimination of known problems. The process of ordering and applying z/VM Service is described. Programming Temporary Fixes (PTFs) and Recommended Service Upgrades (RSUs) are both covered. Chapter 6, "Planning and preparing for Linux workloads" on page 171. This chapter describes the necessary steps to begin your first Linux installation. It describes common tasks that are executed during administration, maintenance, and expansion to accommodate additional workloads. Volumes 2 and 3 describe how to Linux virtual servers on IBM z SystemsTM hardware under IBM z/VM. The cookbook format continues with installing and customizing Linux. For Volume 1, you need at least two IBM z Systems logical partitions (LPARs) with associated resources and z/VM 6.3 installation media. For Volumes 2 and 3, you will need either the Red Hat Enterprise Linux Server (RHEL) version 7.1 or the SUSE Linux Enterprise Server (SLES) version 12 distribution (or both). This book series assumes that you are generally familiar with z Systems technology and terminology. It does not assume an in-depth understanding of z/VM or Linux. It is written for those individuals who want to start quickly with z/VM and Linux on the mainframe, and get virtual servers up and running in a short time (days, not weeks or months).

Integration Throughout and Beyond the Enterprise-Ian Heritage 2014-04-18 Throughout the history of the IT industry, integration has been an important part of most projects. Whether it is integration of transactions, data, or processes, each has challenges and associated patterns and antipatterns. In an age of mobile devices, social networks, and cloud services, and big data analytics, integration is more important than ever, but the scope of the challenge for IT projects has changed. Partner APIs, social networks, physical sensors and devices, all of these and more are important sources of capability or insight. It is no longer sufficient to integrate resources under control of the enterprise, because many important resources are in the ecosystem beyond enterprise boundaries. With this as the basic tenet, we address these questions: What are the current integration patterns that help enterprises become and remain

competitive? How do you choose when to use which pattern? What is the topology for a "composable business"? And how do you accelerate the process of implementation through intelligent choice of supporting integration middleware? This IBM® Redbooks® publication guides integration practitioners and architects in choosing integration patterns and technologies.

Eventually, you will entirely discover a additional experience and talent by spending more cash. yet when? attain you resign yourself to that you require to get those every needs in the same way as having significantly cash? Why dont you try to get something basic in the beginning? Thats something that will guide you to comprehend even more a propos the globe, experience, some places, considering history, amusement, and a lot more?

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