Cloud Data Backup Solutions

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Security in the Private Cloud
John R. Vacca 2016-10-14 This comprehensive handbook serves as a professional reference and practitioner’s guide to today’s most complete and concise view of private cloud security. It explores practical solutions to a wide range of cloud security challenges. Knowledge imparted will enable readers to determine whether the private cloud security model is feasible for their organization. Readers will have a business technical perspective, to select the appropriate security model, and to plan and implement a cloud security adoption and migration strategy.

Efficient Cloud Storage for Cloud Backup
Fangfei Long 2015 Backup storage based on cloud service is becoming increasingly popular. Deduplication is a key technique that reduces the transmission and storage overhead of backing up large, similar datasets. However, the limited ability of existing cloud storage services to scale their storage resources limits the ability of a single cloud provider to effectively store large backups. This paper explores the ability to scale computing resources such as memory-on-demand, and is one of the main advancements of utilizing cloud computing services. With the increasing popularity of cloud storage services, more and more data will be migrated to the cloud. Existing deduplication systems however, do not adequately take advantage of elasticity. In this thesis, we illustrate that the centralization of a storage pool of nodes into a cloud service can benefit from this course. The workshop materials were created in July 2015.

Transforming Cloud Infrastructure as a Service
Peter Krog 2015-09-27 This book provides valuable guidance to help companies and organizations of varied sizes write this book so expect real-life examples, techniques, process and working models for every scenario in cloud computing, migrating and managing IT infrastructure in the cloud. The book is carefully structured to gradually take the readers through the basics of cloud computing concepts, terminologies, implementation and management techniques through traditional IT management so that readers can easily connect. Several traditional, working models and best practices are discussed throughout the book. If you are looking for a book on cloud computing, thecloudbook is the right book for you. If you have already purchased any books on cloud computing, read thecloudbook. If you are looking for a book on cloud computing, thecloudbook is the right book for you.

Distributed Computing and Internet Technology
Nikola Bjorne 2016-01-36 This book constitutes the proceedings of the 12th International Conference on Distributed Computing and Internet Technology (ICDCIT 2015) held in January 2016. The 6 full papers, 7 short papers and 11 poster papers presented in this volume were carefully reviewed and selected from 129 submissions. The ICDCIT conference focuses on distributed computing, internet technologies, and societal applications. The book also contains 3 full paper invited talks.

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Moving Microsoft Workloads to IBM Z Cloud Infrastructure

Chapter 1: Preparing Your Workloads

This chapter provides an overview of the benefits of moving Microsoft workloads to IBM Z Cloud Infrastructure. It discusses the steps required to prepare your workloads, including ensuring compatibility, configuring the environment, and planning for scalability. The chapter also highlights the importance of testing and validation to ensure a smooth transition to the cloud.

Chapter 2: Migrating Workloads

This chapter focuses on the process of migrating workloads to IBM Z Cloud Infrastructure. It covers topics such as assessing the current environment, selecting the appropriate migration strategy, and implementing a phased approach to minimize disruption. The chapter also provides guidance on troubleshooting common issues that may arise during the migration process.

Chapter 3: Managing Workloads

This chapter discusses the ongoing management of workloads in IBM Z Cloud Infrastructure. It covers topics such as monitoring performance, optimizing resource utilization, and ensuring compliance with security and regulatory requirements. The chapter also highlights the importance of proactive planning to ensure efficient and effective management of workloads.

Chapter 4: Securing Workloads

This chapter focuses on the security considerations for workloads in IBM Z Cloud Infrastructure. It covers topics such as implementing secure access controls, managing data privacy, and ensuring compliance with regulatory standards. The chapter also provides guidance on creating a robust security strategy to protect workloads against potential threats.

Chapter 5: Cost Management

This chapter discusses the cost management aspects of workloads in IBM Z Cloud Infrastructure. It covers topics such as budgeting, forecasting, and optimizing costs through efficient resource utilization. The chapter also highlights the importance of monitoring costs and implementing strategies to minimize expenses.

Chapter 6: Conclusion

This chapter summarizes the key takeaways from the previous chapters and provides guidance on future directions for workloads in IBM Z Cloud Infrastructure. It emphasizes the benefits of leveraging IBM Z Cloud Infrastructure for businesses, including improved performance, enhanced efficiency, and reduced costs. The chapter encourages readers to continue exploring the capabilities of IBM Z Cloud Infrastructure and to take full advantage of its offerings.

Appendices

The appendices provide additional resources and references for readers interested in further exploration of topics covered in the main chapters. The appendices may include links to related articles, case studies, and technical documentation to support readers in their ongoing journey with IBM Z Cloud Infrastructure.
Cloud Application Architectures

George Reese 2009-04-01

If you’re involved in planning IT infrastructure as a network or system architect, system administrator, or developer, this book will help you adapt your skills to work with these highly scalable, highly redundant infrastructure services. While analysts hotly debate the advantages and risks of cloud computing, IT staff and programmers are left to determine whether and how to put their applications into these virtualized services. Cloud Application Architectures provides answers — and critical guidance — on issues of cost, availability, performance, scaling, privacy, and security. With Cloud Application Architectures, you will: Understand the differences between traditional deployment and cloud computing 

Determine whether moving existing applications to the cloud makes technical and business sense 

Analyze and compare the long-term costs of cloud services, traditional hosting, and owning dedicated servers 

Learn how to build a transactional web application for the cloud or migrate one to it 

Understand how the cloud helps you better prepare for disaster recovery 

Change your perspective on application scaling 

To provide realistic examples of the book’s principles in action, the author delves into some of the choices and operations available on Amazon Web Services, and includes high-level summaries of several of the other services available on the market today. Cloud Application Architectures provides best practices that apply to every available cloud service. Learn how to make the transition to the cloud and prepare your web applications to succeed.

Cloud Application Architectures complements the documentation that is available at IBM Knowledge Center, and it aligns with the educational materials that are provided by IBM GarageTM for Systems Technical Education and Training.