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Achieving High Availability and Disaster Recovery with Microsoft Azure | The Laboratory

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A key area of consideration for resilient IoT solutions is business continuity and disaster recovery. Designing for High Availability (HA) and Disaster Recovery (DR) can help you define and achieve appropriate uptime goals for your solution. This article discusses the HA and DR features offered specifically by the Azure Digital Twins service.

High availability and disaster recovery - Azure Digital ...
High availability and disaster recovery are not necessarily

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mutually exclusive. In fact, they are both important in delivering constant levels of business productivity. When both concepts are applied in concert, they can help organizations achieve extremely high levels of fault tolerance.

How Disaster Recovery & High Availability Work Together
Even the high-availability mechanisms provided by Azure allow for downtime of the VMs due to events like recovery from software or hardware failures and operating system upgrades. Geo-redundant storage (GRS) in Azure is implemented with a feature called geo-replication. GRS might not be an adequate disaster recovery solution for your databases.

High availability, disaster recovery, business continuity ...
High availability, simply put, is eliminating single points of failure and disaster recovery is the process of getting a system back to an operational state when a system is rendered inoperative. In essence, disaster recovery picks up when high availability fails, so HA first.

High Availability vs. Disaster Recovery - Wintellect
Market Overview: The “ Global High Availability and Disaster Recovery Market 2020 “ research study intelligently explains important aspects such as competition, segmentation, and regional growth in great detail. Its authenticity is reflected by the accuracy and preciseness of the High Availability and Disaster Recovery report. The authors of the report have focused on SWOT analysis, Porter ...

Global High Availability and Disaster Recovery Market 2021

...

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You get mission-critical high availability and disaster recovery features that allow you to implement various topologies to meet your business SLAs. A customer with SQL Server licenses with Software Assurance has historically benefited from a free passive instance of SQL Server for their high availability configurations.

New high availability and disaster recovery benefits for ...
2020 has been a year of change and often intense pressure on technology teams. Cassius Rhue looks ahead to 2021 and considers how organizations may use 2020 as a springboard for further development in the areas of high availability and disaster recovery. For IT teams (and everyone else), 2020 was a year of rapid, disruptive change.

Looking forward to 2021: high availability in a rapidly ...
Some of the key differences between High Availability and Disaster Recovery are: High Availability uses redundancy in the system to overcome any component failure whereas Disaster Recovery uses an alternate site or cloud services to restore normal or near normal function of the entire production system.

IT High Availability Disaster Recovery | DisasterRecovery.org
When your systems run into trouble, that ' s where one or more of the three primary availability strategies will come into play: high availability, fault tolerance, and/or disaster recovery. While each of these infrastructure design strategies has a role in keeping your critical applications and data up and running, they do not serve the same purpose.

High Availability vs. Fault Tolerance vs. Disaster Recovery
Like disaster recovery, high availability is a strategy that requires careful planning and the use of tools. Achieving a

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network uptime of 99.999% (commonly referred to as “ five nines ” , which equates to 5.26 minutes of downtime) should be your organization ’ s goal.

Disaster Recovery vs. High Availability vs. Fault Tolerance
The combination of high-availability with disaster recovery allows you to run your applications with peace of mind. By using the inherent capabilities of the Oracle Government Cloud, you spend less time worrying about failures, outages, and ‘ keeping the lights on. ’

High Availability and Disaster Recovery in 60 minutes
High availability, disaster recovery and business continuity planning are separate yet interconnected aspects of your IT ecosystem. Here ’ s an overview of the differences and why you need all three: High Availability — Resilient wired and wireless networks

High Availability, Disaster Recovery and Business ...
Use this guide to get an overview of the design and implementation of high availability in Junos Space. This guide also includes information about steps required to deploy the hig

High Availability and Disaster Recovery Guide ...
High availability and disaster recovery are contributions of the IT to fulfill this requirement. And companies will be confronted with such demands to an even greater extent in the future, since their credit ratings will be lower without such precautions. Both, high availability and disaster recovery, are realized by redundant systems.

High Availability and Disaster Recovery: Concepts, Design ...
High availability disaster recovery encompasses two

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fundamental concepts. Firstly, how to minimize the amount of time your databases will be offline in the event of unforeseen events like hardware failures, power outages, or any number of natural disasters. Secondly, it looks at how to minimize data loss when any of these events occur.

Implementing High Availability and Disaster Recovery for ... High Availability Versus Disaster Recovery High availability (HA) - The measure of a system ' s ability to remain accessible in the event of a system component failure. Generally, HA is implemented by building in multiple levels of fault tolerance and/or load balancing capabilities into a system.

High Availability and Disaster Recovery | MuleSoft ... Cloud Database-as-a-service, fully-managed elastic database ... SingleStore DB

High Availability and Disaster Recovery - SingleStore ... A disaster recovery failover will be different from an high availability failover, in part due to distances between the two systems. Be sure to read the next two posts in this series to learn more about how SharePlex can help with both high availability and disaster recovery.

Companies and institutions depend more than ever on the availability of their Information Technology, and most mission critical business processes are IT-based. Business Continuity is the ability to do business under any circumstances and is an essential requirement faced by modern companies. Both concepts - High Availability and Disaster Recovery - are realized by redundant systems. This

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book presents requirements, concepts, and realizations of redundant systems on all abstraction levels, and all given examples refer to UNIX and Linux Systems.

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Focuses equally on disaster prevention and then disaster response, including coverage of cloud computing and cloud availability, an area untouched by other disaster recovery/high availability titles.

Leverage powerful features of the SQL Server and watch your infrastructure transform into a high-performing, reliable network of systems. Key Features Explore more than 20 real-world use cases to understand SQL Server features Get to grips with the SQL Server Always On technology Learn how to choose HA and DR topologies for your system Book Description Professional SQL Server High Availability

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and Disaster Recovery explains the high availability and disaster recovery technologies available in SQL Server: Replication, AlwaysOn, and Log Shipping. You ' ll learn what they are, how to monitor them, and how to troubleshoot any related problems. You will be introduced to the availability groups of AlwaysOn and learn how to configure them to extend your database mirroring. Through this book, you will be able to explore the technical implementations of high availability and disaster recovery technologies that you can use when you create a highly available infrastructure, including hybrid topologies. Note that this course does not cover SQL Server Failover Cluster Installation with shared storage. By the end of the book, you ' ll be equipped with all that you need to know to develop robust and high performance infrastructure. What you will learn Configure and troubleshoot Replication, AlwaysOn, and Log Shipping Study the best practices to implement HA and DR solutions Design HA and DR topologies for the SQL Server and study how to choose a topology for your environment Use T-SQL to configure replication, AlwaysOn, and log shipping Migrate from On-Premise SQL Server to Azure SQL Database Manage and maintain AlwaysOn availability groups for extended database mirroring Who this book is for Professional SQL Server High Availability and Disaster Recovery is for you if you are a database administrator or database developer who wants to improve the performance of your production environment. Prior experience of working with SQL Server will help you get the most out of this book.

Work with Oracle database ' s high-availability and disaster-management technologies. This book covers all the Oracle high-availability technologies in one place and also discusses how you configure them in engineered systems and cloud services. You will see that when you say your database is

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healthy, it is not limited to whether the database is performing well on day-to-day operations; rather it should also be robust and free from disasters. As a result, your database will be capable of handling unforeseen incidents and recovering from disaster with very minimal or zero downtime. Oracle High Availability, Disaster Recovery, and Cloud Services explores all the high-availability features of Oracle database, how to configure them, and best practices. After you have read this book you will have mastered database high-availability concepts such as RAC, Data Guard, OEM 13c, and engineered systems (Oracle Exadata x6/x7 and Oracle Database Appliance). What You Will Learn Master the best practices and features of Exadata and ODA Implement and monitor high availability with OEM 13c Clone databases using various methods in Oracle 12c R2 Work with the Oracle sharding features of Oracle 12c R2 Who This Book Is For Oracle database administrators

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).

One of the biggest buzzwords in the IT industry for the past few years, virtualization has matured into a practical requirement for many best-practice business scenarios, becoming an invaluable tool for security professionals at

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companies of every size. In addition to saving time and other resources, virtualization affords unprecedented means for intrusion and malware detection, prevention, recovery, and analysis. Taking a practical approach in a growing market underserved by books, this hands-on title is the first to combine in one place the most important and sought-after uses of virtualization for enhanced security, including sandboxing, disaster recovery and high availability, forensic analysis, and honeypotting. Already gaining buzz and traction in actual usage at an impressive rate, Gartner research indicates that virtualization will be the most significant trend in IT infrastructure and operations over the next four years. A recent report by IT research firm IDC predicts the virtualization services market will grow from \$5.5 billion in 2006 to \$11.7 billion in 2011. With this growth in adoption, becoming increasingly common even for small and midsize businesses, security is becoming a much more serious concern, both in terms of how to secure virtualization and how virtualization can serve critical security objectives. Titles exist and are on the way to fill the need for securing virtualization, but security professionals do not yet have a book outlining the many security applications of virtualization that will become increasingly important in their job requirements. This book is the first to fill that need, covering tactics such as isolating a virtual environment on the desktop for application testing, creating virtualized storage solutions for immediate disaster recovery and high availability across a network, migrating physical systems to virtual systems for analysis, and creating complete virtual systems to entice hackers and expose potential threats to actual production systems. About the Technologies A sandbox is an isolated environment created to run and test applications that might be a security risk. Recovering a compromised system is as easy as restarting the virtual

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machine to revert to the point before failure. Employing virtualization on actual production systems, rather than just test environments, yields similar benefits for disaster recovery and high availability. While traditional disaster recovery methods require time-consuming reinstallation of the operating system and applications before restoring data, backing up to a virtual machine makes the recovery process much easier, faster, and efficient. The virtual machine can be restored to same physical machine or an entirely different machine if the original machine has experienced irreparable hardware failure. Decreased downtime translates into higher availability of the system and increased productivity in the enterprise. Virtualization has been used for years in the field of forensic analysis, but new tools, techniques, and automation capabilities are making it an increasingly important tool. By means of virtualization, an investigator can create an exact working copy of a physical computer on another machine, including hidden or encrypted partitions, without altering any data, allowing complete access for analysis. The investigator can also take a live ?snapshot? to review or freeze the target computer at any point in time, before an attacker has a chance to cover his tracks or inflict further damage.

This IBM® Redbooks® publication updates Implementing High Availability and Disaster Recovery Solutions with SAP HANA on IBM Power Systems, REDP-5443 with the latest technical content that describes how to implement an SAP HANA on IBM Power Systems™ high availability (HA) and disaster recovery (DR) solution by using theoretical knowledge and sample scenarios. This book describes how all the pieces of the reference architecture work together (IBM Power Systems servers, IBM Storage servers, IBM Spectrum™ Scale, IBM PowerHA® SystemMirror® for

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Linux, IBM VM Recovery Manager DR for Power Systems, and Linux distributions) and demonstrates the resilience of SAP HANA with IBM Power Systems servers. This publication is for architects, brand specialists, distributors, resellers, and anyone developing and implementing SAP HANA on IBM Power Systems integration, automation, HA, and DR solutions. This publication provides documentation to transfer the how-to-skills to the technical teams, and documentation to the sales team.

Server bottlenecks and failures are a fact of life in any database deployment, but they don ' t have to bring everything to a halt. This practical book explains replication, cluster, and monitoring features that can help protect your MySQL system from outages, whether it ' s running on hardware, virtual machines, or in the cloud. Written by engineers who designed many of the tools covered, this book reveals undocumented or hard-to-find aspects of MySQL reliability and high availability—knowledge that ' s essential for any organization using this database system. This second edition describes extensive changes to MySQL tools. Versions up to 5.5 are covered, along with several 5.6 features. Learn replication fundamentals, including use of the binary log and MySQL Replicant Library Handle failing components through redundancy Scale out to manage read-load increases, and use data sharding to handle large databases and write-load increases Store and replicate data on individual nodes with MySQL Cluster Monitor database activity and performance, and major operating system parameters Keep track of masters and slaves, and deal with failures and restarts, corruption, and other incidents Examine tools including MySQL Enterprise Monitor, MySQL Utilities, and GTIDs

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