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SQL Server 2016 High Availability Workshop High Availability Options for SQL Server **SQL Server High Availability and Disaster Recovery overview** SQL AlwaysOn High Availability step by step Part 1 **Different Types of Microsoft High Availability Technologies** SQL Server Licensing: High Availability / Disaster Recovery Benefits | Data Exposed **How to Configure Availability Group in SQL Server 2016 Part1 – SQL Server 2016 DBA Tutorial** **Configure Always ON Availability Group in SQL Server 2016** **How to Install u0026 Configure SQL Server 2016 Failover Cluster Step By Step** **How to configure AlwaysOn Availability Groups in SQL Server 2016** **Microsoft SQL Server 70-462 Tutorial | Configure AlwaysOn Availability Groups** SQL Server 2016 - Maintenance u0026 Automation : High Availability and Disaster Recovery | packtpub.com **How to Configure Always On High Availability in MS SQL Server 2019 – Step by Step** **Active Active vs Active Passive High Availability Cluster** **How to Configure MS SQL Failover Cluster in MS SQL Server 2019 - Step by Step** Clustered vs. Nonclustered Index Structures in SQL Server **How to License SQL Server** **MicroNugget: What is "Always On" in SQL Server 2012?Understand the Basic Cluster Concepts | Cluster Tutorials for Beginners 01 - High Availability Architecture** Windows Server 2019 Licensing: Frequently Asked Questions **Microsoft SQL Server AlwaysOn Overview** SQL Server 2019 high availability (HA) and disaster recovery (DR) licensing considerations SQL Server alwayson - part 1 SQL Server 2017 Failover Cluster Step By Step (Windows Server 2016) **How to Create SQL Server 2012 AlwaysOn Availability Group With Windows Server Failover Cluster** **How to Install SQL Server 2016 in cluster mode Part 1 - SQL Server 2016 DBA Tutorial****DBA Tutorial 163-How to Setup/Configure AlwaysOn Availability Group in SQL Server 2014 Step by Step** SQL Server 2017 Always On Availability Groups – WINDOWS AND LINUX DEPLOYMENTS**How do I create a SQL Server Always On Availability Group Cluster in the AWS cloud? Sql Server 2016 High Availability** High Availability using SQL Server Always On Availability Groups - BizTalk Server Background and history. BizTalk Server relies heavily on SQL Server for data persistence. Other components and hosts in... SQL Server 2016 AlwaysOn Availability Groups. Deploying AlwaysOn Availability Groups requires a ...

High Availability using SQL Server Always On Availability ...

Also use SQL Server 2016 Always On Availability Groups to provide high availability for SQL Server databases hosted in Azure, etc. Database Level Failover Trigger SQL Server 2016 is coming which solves pains on Failover. Currently, Failover is happening based on instance health. In 2016 it can failover based on database health as well.

SQL Server 2016: High Availability Enhancements - AlwaysOn ...

Lab : Enable the SQL Server AlwaysOn Availability Group Feature Lab : Set Up For Availability Groups Lab : The Availability Group Wizard Lab : SSMS and Availability Groups. After completing this module, students will be able to: Enable AlwaysOn; Understand and work with availability Groups; Module 6: The Dashboard. Managing AlwaysOn High Availability groups wit SQL 2016 is accomplished with the Dashboard.

Course 55246-A: SQL 2016 ALWAYS ON HIGH AVAILABILITY ...

The High Availability Features in SQL Server 2016 Standard Edition • Support for Listener Name. With database mirroring, you are responsible for redirecting client applications to the... • Support for single or multiple Active Directory domains, even workgroups. Database mirroring does not require ...

The High Availability Features in SQL Server 2016 Standard ...

It downloads the Windows Server 2016, depending upon your network bandwidth. Its size is approximately 6.49 GB. Click on Start in the virtual machine, browse to the directory where we downloaded the Windows Server 2016 ISO, and click Choose. Note: In the below screenshots, it shows the server name as Windows2k16-1.

A comprehensive guide to SQL Server Always On Availability ...

This last (hooray) method is a feature which was first introduced to SQL Server in 2012 to help customers maximize availability for one or more databases. The Availability Groups feature is a HA and disaster-recovery solution that provides an enterprise-level alternative to Mirroring.

The ultimate guide to High Availability methods for ...

Restart the SQL Server service. Configure SQL Server 2016 AlwaysOn Availability Groups. Go to Management Studio, right click Availability Groups and click New Availability Group Wizard. Specify Availability Group Name . This group name is SQLAVG2016. Then click Next. Choose Database. Here you can see whether the DB meets the prerequisites

SQL Server 2016 Step by Step: Creating AlwaysOn ...

SQL Server 2016 is making some significant improvements to the Always On Availability Groups set of features. There are a number of features, such as: Round-robin load balancing in readable secondaries Increased number of auto-failover targets

Enhanced Always On Availability Groups in SQL Server 2016 ...

Always On availability groups: a high-availability and disaster-recovery solution. 04/23/2019; 7 minutes to read +5; In this article. Applies to: SQL Server (all supported versions) The Always On availability groups feature is a high-availability and disaster-recovery solution that provides an enterprise-level alternative to database mirroring.

Availability groups: a high-availability and disaster ...

An availability database is sometimes called a database replica in Transact-SQL, PowerShell, and SQL Server Management Objects (SMO) names. For example, the term "database replica" is used in the names of the Always On dynamic management views that return information about availability databases: sys.dm_hadr_database_replica_states and sys.dm_hadr_database_replica_cluster_states .

What is an Always On availability group? - SQL Server ...

Failover servers for high availability – Allows customers to install and run passive SQL Server instances in a separate operating system environment (OSE) or server for high availability on-premises in anticipation of a failover event. Today, Software Assurance customers have one free passive instance for either high availability or DR

New high availability and disaster recovery benefits for ...

Introduced in SQL Server 2016, a distributed availability group allows an availability group to span availability groups configured on different clusters. This decouples the requirement to have the nodes all participate in the same cluster, which makes configuring disaster recovery much easier.

Disaster recovery for SQL Server - SQL Server | Microsoft Docs

To enable AlwaysOn feature, Open SQL Server Configuration Manager, Right-click SQL Server instance and go to properties, Select AlwaysOn High Availability tab section and tick checkbox for Enable AlwaysOn AvailabilityGroups Note: – We also need to make sure nodes where we will enable AlwaysOn feature is part of Windows Failover Cluster.

Configuring a SQL Server AlwaysOn High Availability Group

SQL Server 2016 High Availability Unleashed is the first comprehensive guide to delivering highly available SQL Server databases and applications. World-renowned enterprise database architect Paul Bertucci presents in-depth, all-encompassing coverage of SQL Server's full continuum of availability options, from the most extreme forms of fault tolerance down to "medium availability" options for less critical databases.

SQL Server 2016 High Availability Unleashed (includes ...

Book + Content Update Program SQL Server 2016 High Availability Unleashed provides start-to-finish coverage of SQL Server's powerful high availability (HA) solutions for your traditional on-premise databases, cloud-based databases (Azure or AWS), hybrid databases (on-premise coupled with the cloud), and your emerging Big Data solutions. This complete guide introduces an easy-to-follow ...

SQL Server 2016 High Availability Unleashed (includes ...

SQL Server 2016 with Service Pack 1 Standard Edition SQL Server uses Active Directory domain accounts as service accounts Launch the New Availability Group Wizard to create the Basic Availability Group. From within Object Explorer, expand the AlwaysOn High Availability node and the Availability Groups node

Setup and Implement SQL Server 2016 Always On Basic ...

M55246 SQL 2016 Always On High Availability This three-day instructor-led course is designed for database administrators and Windows engineers to familiarize them with the concepts in SQL AlwaysOn and High Availability. The course utilizes SQL 2016, but explains the differences from SQL 2012- SQL 2014.

SQL 2016 Always On High Availability

This is a high-level description of the different High Availability Offerings in SQL Server 2016, meant to give a general idea of what is offered and the limitations for each offering. AlwaysOn High Availability Groups When most people use the terms AlwaysOn they are referring to AlwaysOn Availability Groups.

Book + Content Update Program SQL Server 2016 High Availability Unleashed provides start-to-finish coverage of SQL Server's powerful high availability (HA) solutions for your tradiional on-premise databases, cloud-based databases (Azure or AWS), hybrid databases (on-premise coupled with the cloud), and your emerging Big Data solutions. This complete guide introduces an easy-to-follow, formal HA methodology that has been refined over the past several years and helps you identify the right HA solution for your needs. There is also additional coverage of both disaster recovery and business continuity architectures and considerations. You are provided with step-by-step guides, examples, and sample code to help you set up, manage, and administer these highly available solutions. All examples are based on existing production deployments at major Fortune 500 companies around the globe. This book is for all intermediate-to-advanced SQL Server and Big Data professionals, but is also organized so that the first few chapters are great foundation reading for CIOs, CTOs, and even some tech-savvy CFOs. Learn a formal, high availability methodology for understanding and selecting the right HA solution for your needs Deep dive into Microsoft Cluster Services Use selective data replication topologies Explore thorough details on AlwaysOn and availability groups Learn about HA options with log shipping and database mirroring/ snapshots Get details on Microsoft Azure for Big Data and Azure SQL Explore business continuity and disaster recovery Learn about on-premise, cloud, and hybrid deployments Provide all types of database needs, including online transaction processing, data warehouse and business intelligence, and Big Data Explore the future of HA and disaster recovery In addition, this book is part of InformIT's exciting Content Update Program, which provides content updates for major technology improvements! As significant updates are made to SQL Server, sections of this book will be updated or new sections will be added to match the updates to the technologies. As updates become available, they will be delivered to you via a free Web Edition of this book, which can be accessed with any Internet connection. To learn more, visit informit.com/cup. How to access the Web Edition: Follow the instructions inside to learn how to register your book to access the FREE Web Edition.

This book is your field guide to planning, deploying, managing, and troubleshooting Always On Availability Groups. The Always On Availability Groups feature is an enterprise-level solution for high availability and disaster recovery. Always On provides a rich set of options that reduce overhead and resource usage and enable database administrators to implement and manage high availability and disaster recovery solutions far more easily than by implementing the log-shipping and database-mirroring solutions of the past. Pro SQL Server Always On Availability Groups shows how to reduce downtime, maximize application availability, and provide data protection. The goal is always to have your SQL Server databases up and running whenever you need them, rain or shine, disaster or otherwise. With a focus on real-world experiences and war stories, authors Uttam Parui and Vivek Sanil offer you: Tips, tricks, and best practices for architecting and deploying availability groups. The confidence required to manage and monitor availability groups. Techniques to troubleshoot common issues that you may face during and after deploying availability groups in a mission-critical production environment. What You Will Learn Grasp important concepts underlying high-availability and disaster recovery. Plan and deploy Always On Availability Groups in your corporate environment. Manage Availability Groups to ensure constant readiness and high throughput. Monitor Availability Group performance and troubleshoot problems fast. Build on the cloud and make Windows Azure part of your availability solution. Employ proven techniques and best practices as tested and shared by the authors. Audience Pro SQL Server Always On Availability Groups is aimed at SQL Server architects, database administrators, and IT professionals who are tasked with architecting and deploying a high-availability and disaster recovery solution involving Microsoft SQL Server. This book is also for SQL Server support staff who will be managing and supporting existing availability group deployments.

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 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.

Book + Content Update Program SQL Server 2016 High Availability Unleashed provides start-to-finish coverage of SQL Server's powerful high availability (HA) solutions for your traditional on-premise databases, cloud-based databases (Azure or AWS), hybrid databases (on-premise coupled with the cloud), and your emerging Big Data solutions. This complete guide introduces an easy-to-follow, formal HA methodology that has been refined over the past several years and helps you identify the right HA solution for your needs. There is also additional coverage of both disaster recovery and business continuity architectures and considerations. You are provided with step-by-step guides, examples, and sample code to help you set up, manage, and administer these highly available solutions. All examples are based on existing production deployments at major Fortune 500 companies around the globe. This book is for all intermediate-to-advanced SQL Server and Big Data professionals, but is also organized so that the first few chapters are great foundation reading for CIOs, CTOs, and even some tech-savvy CFOs. Learn a formal, high availability methodology for understanding and selecting the right HA solution for your needs Deep dive into Microsoft Cluster Services Use selective data replication topologies Explore thorough details on AlwaysOn and availability groups Learn about HA options with log shipping and database mirroring/ snapshots Get details on Microsoft Azure for Big Data and Azure SQL Explore business continuity and disaster recovery Learn about on-premise, cloud, and hybrid deployments Provide all types of database needs, including online transaction processing, data warehouse and business intelligence, and Big Data Explore the future of HA and disaster recovery In addition, this book is part of InformIT's exciting Content Update Program, which provides content updates for major technology improvements! As significant updates are made to SQL Server, sections of this book will be updated or new sections will be added to match the updates to the technologies. As updates become available, they will be delivered to you via a free Web Edition of this book, which can be accessed with any Internet connection. To learn more, visit informit.com/cup. How to access the Web Edition: Follow the instructions inside to learn how to register your book to access the FREE Web Edition.

With Microsoft SQL Server 2016, a variety of new features and enhancements to the data platform deliver breakthrough performance, advanced security, and richer, integrated reporting and analytics capabilities. In this Preview 2 ebook, we introduce three new security features: Always Encrypted, Row-Level Security, and dynamic data masking; discuss enhancements that enable you to better manage performance and storage; TempDB configuration, query store, and Stretch Database; review several improvements to Reporting Services; and also describe AlwaysOn Availability Groups, tabular enhancement, and R integration. This book is a preview edition because it's not complete; the final edition will be available Spring of 2016.

Get a fast start to using AlwaysOn, the SQL Server solution to high-availability and disaster recovery. This second edition is newly-updated to cover the 2016 editions of both SQL Server and Windows Server. Also in this edition is all-new content on troubleshooting and metadata. The book provides a solid and accurate understanding of how to implement systems requiring consistent and continuous uptime, as well as how to troubleshoot those systems in order to keep them running an reliable. Begin with an introduction to high-availability and disaster recovery concepts such as Recovery Point Objectives (RPOs), Recovery Time Objectives (RTO), availability levels, and the cost of downtime. Then move into detailed coverage of implementing and configuring the AlwaysOn feature set in order to meet the business objectives set by your organization. SQL Server AlwaysOn Revealed offers real-world advice on how to build and configure the most appropriate topology to meet the high-availability and disaster recovery requirements you are faced with. Content includes strong coverage on implementing clusters, on building AlwaysOn failover clustered instances, and on configuring AlwaysOn Availability Groups. This is a practical and hand-on book to get you started quickly in using one of the most talked-about SQL Server feature sets. Teaches you to build HA and DR solutions using the AlwaysOn feature set Provides real-world advice on configuration and performance considerations Demonstrates administrative techniques for the AlwaysOn feature set What You Will Learn Understand high availability and disaster recovery in SQL Server 2016 Build and configure a Windows Cluster Create and configure an AlwaysOn failover clustered instance Implement AlwaysOn Availability Groups and appropriately configure them Administer AlwaysOn technologies post implementation Troubleshoot and resolve problems with misbehaving systems Who This Book Is For Database administrators interested in growing their knowledge and skills in Microsoft SQL Server's high-availability and disaster recovery feature set.

Prepare for Microsoft Exam 70-764—and help demonstrate your real-world mastery of skills for database administration. This exam is intended for database administrators charged with installation, maintenance, and configuration tasks. Their responsibilities also include setting up database systems, making sure those systems operate efficiently, and regularly storing, backing up, and securing data from unauthorized access. Focus on the expertise measured by these objectives:

- Configure data access and auditing
- Manage backup and restore of databases
- Manage and monitor SQL Server instances
- Manage high availability and disaster recovery

This Microsoft Exam Ref:

- Organizes its coverage by exam objectives
- Features strategic, what-if scenarios to challenge you
- Assumes you have working knowledge of database installation, configuration, and maintenance tasks.

You should also have experience with setting up database systems, ensuring those systems operate efficiently, regularly storing and backing up data, and securing data from unauthorized access. About the Exam Exam 70-764 focuses on skills and knowledge required for database administration. About Microsoft Certification Passing both Exam 70-764 and Exam 70-765 (Provisioning SQL Databases) earns you credit toward an MCSA: SQL 2016 Database Administration certification. See full details at: microsoft.com/learning

Pro SQL Server Internals explains how different SQL Server components work "under the hood" and how they communicate with each other. This is the practical book with a large number of examples that will show you how various design and implementation decisions affect the behavior and performance of your systems. Pro SQL Server Internals covers a multiple SQL Server versions starting with SQL Server 2005 all the way up to the recently released SQL Server 2014. You'll learn about new SQL Server 2014 features including the new Cardinality Estimator, In-Memory OLTP Engine (codename Hekaton), and Clustered Columnstore Indexes. With Pro SQL Server Internals, you have a solid roadmap for understanding the depth and power of the SQL Server database backend, regardless of the version and edition of SQL Server you use. Pro SQL Server Internals does the following:

- Explains how to design efficient database schema, indexing, and transaction strategies.
- Shows how various database objects and technologies are implemented internally and when they should or should not be used.
- Demonstrates how SQL Server executes queries and works with data and transaction logs.

If you need to deploy, manage, or secure Microsoft SQL Server 2008, this is the complete, fast-paced, task-based reference you've been searching for. Authored by a world-class expert on SQL Server in the enterprise, this book goes far beyond the basics, taking on the complex tasks that DBAs need to make the most of Microsoft's flagship database platform. SQL Server MVP, Ross Mistry presents proven techniques for SQL Server 2008 installation, upgrades, backup/restore, data transfer, indexing, high availability, security, and much more. He draws on extensive testing in high-profile production environments to offer step-by-step solutions and powerful tips you won't find anywhere else. Every chapter begins with a section identifying SQL Server 2008's most significant new improvements, and concludes with a convenient summary of best practices. Each chapter also outlines the benefits of leveraging Windows Server 2008. Understand how to:

- Master DBA tips, tricks, and best practices proven in actual enterprise environments
- Install, upgrade or transition to SQL Server 2008.
- Harden and Secure an implementation.
- Encrypt SQL Server from an end-to-end perspective.
- Implement high availability—and leverage SQL Server 2008's major improvements to failover clustering and database mirroring
- Save time with SQL Server 2008's new policy-based management tools
- Performance tune and troubleshoot a SQL Server 2008 environment.
- Optimize application performance and manage workloads with the powerful new Resource Governor
- Implement Performance Studio, maintenance plans, Transparent Data Encryption and much more...

Bonus Content: The book is based on Windows Server 2008 Step by step instructions of how to implement a failover cluster on Windows Server 2008 SQL Server PoweShell Administration Tasks Consolidate and virtualize SQL Server with Hyper-V Step by step instructions on how to install Hyper-V Proactively Monitor SQL Server with Operations Manager Install Windows Server 2008 certificates to encrypt SQL Server data Contributing Writers include: Hilary Cotter – SQL Server MVP John Welch – SQL Server MVP Marco Shaw – PowerShell MVP Maciej Pilecki – SQL Server MVP Shirmattie Seenarine – Technical Writer

Get a fast start to using AlwaysOn, the SQL Server solution to high-availability and disaster recovery. Read this short, 150-page book that is adapted from Peter Carter's Pro SQL Server Administration to gain a solid and accurate understanding of how to implement systems requiring consistent and continuous uptime. Begin with an introduction to high-availability and disaster recovery concepts such as Recovery Point Objectives (RPOs), Recovery Time Objectives (RTO), availability levels, and the cost of downtime. Then move into detailed coverage of implementing and configuring the AlwaysOn feature set in order to meet the business objectives set by your organization. SQL Server AlwaysOn Revealed offers real-world advice on how to build and configure the most appropriate topology to meet the high-availability and disaster recovery requirements you are faced with. Content includes strong coverage on implementing clusters, on building AlwaysOn failover clustered instances, and on configuring AlwaysOn Availability Groups. This is a practical and hand-on book to get you started quickly in using one of the most talked-about SQL Server feature sets. Teaches you to build HA and DR solutions using the AlwaysOn feature set Provides real-world advice on configuration and performance considerations Demonstrates administrative techniques for the AlwaysOn feature set What You Will Learn Understand high availability and disaster recovery concepts and terminology. Understand the technologies available, to implement HA and DR. Build and configure a Windows Cluster. Build and configure an AlwaysOn failover clustered instance. Implement AlwaysOn Availability Groups and appropriately configure them. Administer AlwaysOn technologies post implementation. Who This Book Is For SQL Server AlwaysOn Revealed is for database administrators interested in growing their knowledge and skills in Microsoft SQL Server's high-availability and disaster recovery feature set. .