

microsoft sql server 2012 step by step

****Microsoft SQL Server 2012 Step by Step: A Comprehensive Guide****

microsoft sql server 2012 step by step is a phrase that many database administrators, developers, and IT professionals search for when they want to master this powerful relational database management system. Whether you are new to SQL Server or upgrading from an older version, understanding the installation, configuration, and basic usage of Microsoft SQL Server 2012 is essential. This guide will walk you through the process in a clear, approachable way, ensuring you gain confidence with the platform and its core features.

Getting Started with Microsoft SQL Server 2012 Step by Step

Before diving into the technicalities, it's important to understand what Microsoft SQL Server 2012 offers. This version introduced several enhancements over its predecessors, including improved scalability, enhanced security features, and better integration with business intelligence tools. If you're looking to deploy a robust database solution for applications, reporting, or analytics, this edition remains relevant in many enterprise environments.

System Requirements and Preparation

Before you begin the installation process, you need to ensure your hardware and operating system meet the minimum requirements for SQL Server 2012. Typically, SQL Server 2012 runs on:

- Windows Server 2008 R2 or later (including Windows 7 for development purposes)
- At least 4 GB of RAM (8 GB or more recommended for production)
- Adequate disk space depending on your anticipated database size and workload
- A compatible processor (x64 architecture preferred)

Preparing your system also involves checking for the latest Windows updates and ensuring that your user account has administrative privileges to install software.

Step-by-Step Installation of Microsoft SQL Server 2012

Microsoft SQL Server 2012 installation is straightforward but requires attention to detail to avoid common pitfalls. Here's how you can install SQL Server 2012 step by step.

1. Obtain the Installation Media

You can download the installation files from the official Microsoft website or use a physical DVD if you

have one. Make sure you are using a legitimate and licensed version to avoid activation issues.

2. Launch the Setup Program

Run the `setup.exe` file to start the SQL Server Installation Center. This interface guides you through the entire process.

3. Choose Installation Type

The installation center offers options like "New SQL Server stand-alone installation" or "Add features to an existing installation." Select the first option if you are installing fresh.

4. Accept License Terms

Read and accept the license terms to proceed.

5. Install Setup Support Files

The setup will automatically install necessary support files to enable the main installation.

6. Select Features to Install

SQL Server 2012 has various features such as Database Engine Services, Reporting Services, Integration Services, and Analysis Services. Select the features you need based on your project requirements.

7. Specify Instance Configuration

You can install a Default Instance or a Named Instance. The default is usually sufficient for most users, but named instances are useful if you plan to host multiple SQL Server installations on the same machine.

8. Configure Server and Account Settings

Assign service accounts for SQL Server services. It's advisable to use separate accounts for different services to enhance security. Also, choose the startup type (Automatic is typical).

9. Set Database Engine Configuration

You must choose the authentication mode: Windows Authentication or Mixed Mode (which allows SQL Server Authentication). Mixed Mode is often preferred for flexibility, but it requires setting a strong password for the `sa` account.

Add SQL Server administrators by specifying user accounts.

10. Complete Installation and Verify

Review the summary and proceed with the installation. Once finished, verify the installation by launching SQL Server Management Studio (SSMS) and connecting to the server.

Configuring and Using Microsoft SQL Server 2012 Step by Step

After installation, the next steps involve configuring your SQL Server environment and learning basic operations to manage databases effectively.

Setting Up SQL Server Management Studio (SSMS)

SSMS is the primary tool for managing SQL Server instances. Although it may be installed by default, if not, you can download it separately. SSMS provides a graphical interface for querying, configuring security, managing backups, and more.

Creating Your First Database

With SSMS open and connected to your SQL Server instance, follow these steps:

1. Right-click on the "Databases" folder in Object Explorer.
2. Select "New Database."
3. Enter a database name.
4. Optionally, configure initial size, file growth, and file locations.
5. Click OK to create the database.

This simple process introduces you to database management and sets the stage for more advanced tasks.

Basic T-SQL Commands to Know

Learning Transact-SQL (T-SQL) is crucial for working efficiently with SQL Server. Here are some fundamental commands you should know:

- **CREATE TABLE**: Define tables to store data.
- **INSERT INTO**: Add records to tables.
- **SELECT**: Query data.
- **UPDATE**: Modify existing data.
- **DELETE**: Remove data.

For example, creating a simple table:

```
``sql
CREATE TABLE Employees (
EmployeeID INT PRIMARY KEY,
FirstName NVARCHAR(50),
LastName NVARCHAR(50),
HireDate DATE
);
``
```

This step-by-step approach helps you build a solid foundation in database design and querying.

Optimizing and Maintaining Your SQL Server 2012 Environment

Microsoft SQL Server 2012 includes several tools and features to help you optimize performance and maintain your database health over time.

Implementing Backups and Recovery Plans

Data loss prevention is critical. Regular backups protect against hardware failure, accidental deletion, or corruption.

- Full backups capture the entire database.
- Differential backups save changes since the last full backup.
- Transaction log backups record all transactions for point-in-time recovery.

You can schedule backups using SQL Server Agent jobs or perform them manually through SSMS.

Monitoring Performance

SQL Server 2012 provides tools like SQL Server Profiler and Performance Monitor to track query

performance and server health. Additionally, Dynamic Management Views (DMVs) offer real-time insights that help identify bottlenecks.

Security Best Practices

Security is paramount when managing SQL Server environments. Some tips include:

- Use Windows Authentication whenever possible.
- Implement least privilege by giving users only necessary permissions.
- Keep SQL Server updated with the latest service packs and patches.
- Encrypt sensitive data using Transparent Data Encryption (TDE) if needed.

Leveraging Advanced Features in Microsoft SQL Server 2012 Step by Step

Once you are comfortable with installation and basic configuration, exploring advanced features can add tremendous value.

Data Compression

SQL Server 2012 introduced row and page compression, which reduces storage requirements and can improve I/O performance. Enabling compression on large tables can be a game-changer in storage management.

AlwaysOn Availability Groups

This feature enhances high availability and disaster recovery by enabling multiple copies of databases across different servers. Setting up AlwaysOn requires configuring Windows Server Failover Clustering (WSFC) and is ideal for mission-critical applications.

Columnstore Indexes

A major performance booster for data warehouse workloads, columnstore indexes optimize query speeds on large datasets by storing data column-wise rather than row-wise. Using these indexes can dramatically improve reporting and analytics queries.

Tips for Smooth Experience with Microsoft SQL Server

2012 Step by Step

- Always test your installation and configuration in a development environment before deploying to production.
- Regularly update your SQL Server with cumulative updates to fix bugs and improve security.
- Use SQL Server Management Studio's built-in tools for troubleshooting.
- Document your setup and configurations for easier maintenance.
- Engage with the SQL Server community forums and resources to stay informed about best practices.

Navigating Microsoft SQL Server 2012 step by step doesn't have to be daunting. With a clear approach and hands-on practice, you'll quickly find yourself mastering the essentials and unlocking the full potential of this powerful database platform. Whether managing small applications or enterprise-scale systems, understanding these core concepts ensures that you can build, maintain, and optimize your SQL Server environment effectively.

Frequently Asked Questions

What is the best way to get started with Microsoft SQL Server 2012 step by step?

The best way to get started is by installing SQL Server 2012, then learning basic concepts such as databases, tables, and queries. Following a structured tutorial or book like 'Microsoft SQL Server 2012 Step by Step' by Patrick LeBlanc can help beginners progress systematically.

How do I install Microsoft SQL Server 2012 for step-by-step learning?

To install SQL Server 2012, download the installation media from Microsoft's website or use the installation DVD, run the setup.exe, choose the appropriate edition, and follow the installation wizard step by step, including setting up the Database Engine services and management tools.

What are the fundamental SQL Server 2012 concepts covered in a step-by-step guide?

Fundamental concepts include understanding relational databases, creating and managing databases and tables, writing basic SQL queries (SELECT, INSERT, UPDATE, DELETE), using SQL Server Management Studio (SSMS), and learning about transactions, indexes, and stored procedures.

How can I practice SQL queries step by step in Microsoft SQL Server 2012?

You can practice by creating a sample database, such as the AdventureWorks database, and writing SQL queries in SQL Server Management Studio. Start with simple SELECT statements, then progress to JOINS, subqueries, and data manipulation queries, following tutorials that guide you through each step.

Are there any official Microsoft resources for learning SQL Server 2012 step by step?

Yes, Microsoft offers official documentation, tutorials, and training videos on their website and Microsoft Learn platform. Although SQL Server 2012 is an older version, many fundamental concepts are still relevant and covered in these resources.

What are common challenges faced when learning Microsoft SQL Server 2012 step by step, and how to overcome them?

Common challenges include understanding complex SQL syntax, database design principles, and performance tuning. To overcome these, learners should follow structured step-by-step guides, practice regularly, use online forums for help, and gradually tackle advanced topics after mastering the basics.

Additional Resources

Microsoft SQL Server 2012 Step by Step: A Professional Review and Guide

microsoft sql server 2012 step by step serves as a vital starting point for IT professionals, database administrators, and developers looking to harness the capabilities of this robust relational database management system. Released by Microsoft as part of its SQL Server family, the 2012 iteration brought significant enhancements in terms of performance, security, and business intelligence features. This article delves deeply into the step-by-step process of installing, configuring, and utilizing Microsoft SQL Server 2012, providing a comprehensive understanding that can benefit novices and experienced users alike.

Understanding Microsoft SQL Server 2012

Before diving into the installation and configuration, it is essential to understand what Microsoft SQL Server 2012 offers compared to its predecessors. This version introduced features like AlwaysOn Availability Groups for high availability, enhanced integration with Windows Server 2012, and improvements in the Business Intelligence suite.

From a technical standpoint, SQL Server 2012 supports enhanced T-SQL capabilities, better scalability, and improved performance monitoring tools. Its compatibility with various editions—such as Express, Standard, and Enterprise—makes it flexible for different organizational needs.

Key Features of Microsoft SQL Server 2012

- **AlwaysOn Availability Groups:** A high-availability and disaster recovery solution that allows multiple databases to failover together.

- **Columnstore Indexes:** Enhances query performance dramatically in data warehousing scenarios.
- **SQL Server Data Tools (SSDT):** Provides an integrated environment for database development and management.
- **Improved Power View and PowerPivot:** Enables advanced data visualization and self-service BI capabilities.
- **Enhanced Security:** Includes support for contained databases and better encryption methods.

These features necessitate a structured approach to installation and configuration, which the following sections will unpack in a step-by-step manner.

Microsoft SQL Server 2012 Step by Step: Installation Process

The installation of Microsoft SQL Server 2012 is a foundational step and can be straightforward if followed meticulously. The process varies slightly depending on the edition, but the core steps remain consistent.

Step 1: System Requirements and Preparation

Before installation, ensure that the target system meets the minimum hardware and software requirements:

- **Operating System:** Windows Server 2008 R2 or later versions, including Windows 7 and Windows 8.
- **Processor:** Minimum 1.4 GHz 64-bit processor; recommended 2.0 GHz or faster.
- **Memory:** At least 1 GB RAM for Express edition; 4 GB or more recommended for Standard and Enterprise editions.
- **Disk Space:** Minimum 6 GB free space, depending on the components selected.
- **Additional:** .NET Framework 3.5 or later must be installed.

Ensuring these prerequisites avoids common installation errors and performance bottlenecks post-installation.

Step 2: Obtaining the Installation Media

Microsoft SQL Server 2012 can be acquired from the official Microsoft download center or through licensed distribution channels. The ISO image or DVD is commonly used for installation. It is important to verify the integrity of the installation files to prevent corrupted setups.

Step 3: Running the Installation Wizard

Launching the setup.exe initiates the SQL Server Installation Center, which offers multiple options:

1. **Planning:** Tools to check system readiness and hardware requirements.
2. **Installation:** Initiate new SQL Server stand-alone installation or add features to existing instances.
3. **Maintenance:** Repair or remove existing installations.

Selecting “New SQL Server stand-alone installation” will guide users through the setup wizard.

Step 4: Feature Selection

Microsoft SQL Server 2012 provides modular installation options. Depending on the intended use, users can select:

- Database Engine Services
- SQL Server Replication
- Full-Text and Semantic Extractions for Search
- Analysis Services
- Reporting Services
- Integration Services
- Client Tools Connectivity and SDK

Choosing only the necessary components is advisable to optimize system resources.

Step 5: Instance Configuration

The next critical step involves defining the SQL Server instance:

- **Default Instance:** Uses the server's name and is suitable for single-instance installations.
- **Named Instance:** Allows multiple SQL Server installations on the same machine, identified by unique names.

This decision impacts how clients connect to the database server and should align with organizational standards.

Step 6: Server Configuration

Here, the user assigns service accounts for SQL Server services such as SQL Server Agent and Database Engine. It is best practice to use separate, minimally privileged accounts for enhanced security. Additionally, setting the startup type (automatic or manual) determines how services behave after system restarts.

Step 7: Database Engine Configuration

This step involves critical security-related configurations:

- **Authentication Mode:** Choose between Windows Authentication (more secure) or Mixed Mode (Windows and SQL Server Authentication).
- **SQL Server Administrators:** Specify accounts that will have administrative privileges on the server.
- **Data Directories:** Optionally configure the storage locations for database files, logs, and backups.

Selecting the appropriate authentication method is essential for balancing security and accessibility.

Step 8: Installation Progress and Completion

After verifying all configurations, the installation process commences. The progress screen provides real-time updates on each component being installed. Upon completion, a summary report highlights success or lists any issues encountered.

Post-Installation Configuration and Best Practices

Successfully installing Microsoft SQL Server 2012 is only the beginning. Proper post-installation steps are crucial for ensuring optimal performance and security.

Configuring SQL Server Management Studio (SSMS)

Although SSMS often installs alongside the database engine, it may require a separate installation depending on the edition. SSMS is the primary tool for managing SQL Server instances, writing queries, and performing administrative tasks.

Applying Service Packs and Updates

Microsoft SQL Server 2012 has received multiple service packs and cumulative updates aimed at fixing bugs, patching security vulnerabilities, and improving performance. Keeping the server updated is a best practice to maintain system integrity.

Setting Up Backups and Maintenance Plans

Reliable backup strategies are non-negotiable in database administration. SQL Server 2012 offers built-in tools to schedule full, differential, and transaction log backups. Maintenance plans can automate index reorganizations, database integrity checks, and statistics updates, which are vital for database health.

Security Hardening

Security hardening measures include:

- Disabling unused features and services.
- Enforcing strong password policies for SQL Server logins.
- Implementing transparent data encryption (TDE) where necessary.
- Using contained databases to isolate user authentication.
- Regularly auditing and monitoring server activity.

These tactics reduce the attack surface and comply with industry regulations.

Utilizing Microsoft SQL Server 2012 Features Effectively

Beyond installation and configuration, leveraging the advanced features of SQL Server 2012 can significantly enhance organizational data management.

AlwaysOn Availability Groups: Setting Up High Availability

This feature allows multiple databases to be replicated across different nodes, providing seamless failover capabilities. Setting up AlwaysOn requires configuring Windows Server Failover Clustering and enabling the feature within SQL Server. While complex, this setup is invaluable for mission-critical applications requiring minimal downtime.

Data Warehousing with Columnstore Indexes

Microsoft introduced columnstore indexes in SQL Server 2012 to optimize query performance for large-scale data warehouse environments. They store data in a columnar format, enabling faster aggregation and scan queries. Proper use of these indexes can reduce query execution times dramatically.

Business Intelligence Enhancements

The integration of Power View and improvements in PowerPivot enable more interactive and intuitive data visualization. Combined with SQL Server Reporting Services (SSRS), these tools support self-service BI, empowering business users to generate insights without heavy reliance on IT teams.

Comparisons and Considerations

When evaluating Microsoft SQL Server 2012, it is useful to compare it with later versions and other database systems. While newer SQL Server releases offer enhanced cloud integration, improved performance, and modern security features, SQL Server 2012 remains relevant for legacy systems and scenarios requiring proven stability.

Compared with open-source alternatives like MySQL or PostgreSQL, SQL Server 2012 provides tighter integration with Microsoft ecosystems, advanced analytics capabilities, and comprehensive tooling at the cost of licensing fees. Organizations should weigh these factors based on their specific requirements and budget constraints.

The step-by-step approach to Microsoft SQL Server 2012 installation and management outlined here reflects the careful balance between usability, scalability, and security that the platform offers. As enterprises continue to rely on structured data and analytics, understanding the nuances of this SQL

Server version remains a valuable asset for database professionals.

Microsoft Sql Server 2012 Step By Step

microsoft sql server 2012 step by step: Microsoft SQL Server 2012 Step by Step Patrick Leblanc, 2013

microsoft sql server 2012 step by step: Microsoft SQL Server 2012 Step by Step Patrick LeBlanc, 2013-02-15 Your hands-on, step-by-step guide to building applications with Microsoft SQL Server 2012 Teach yourself the programming fundamentals of SQL Server 2012—one step at a time. Ideal for beginning SQL Server database administrators and developers, this tutorial provides clear guidance and practical, learn-by-doing exercises for building database solutions that solve real-world business problems. Discover how to: Install and work with core components and tools Create tables and index structures Manipulate and retrieve data Secure, manage, back up, and recover databases Apply techniques for building high-performing applications Use clustering, database mirroring, and log shipping

microsoft sql server 2012 step by step: Microsoft SQL Server 2012 Management and Administration Ross Mistry, Shirmattie Seenarine, 2012-09-06 If you need to deploy, manage, or secure Microsoft SQL Server 2012, this is the complete, fast-paced, task-based reference you've been searching for. Authored by a worldclass expert on running 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 first cloud-enabled database platform. Designed for maximum practical usability, it's packed with expert tips and up-to-date real-world configuration guidance you simply won't find anywhere else. As someone who helped influence the design of SQL Server 2012 and drawing on many months of beta testing, Ross Mistry provides immediately usable solutions for installation and upgrades, management and monitoring, performance and availability, security, consolidation, virtualization, troubleshooting, and more. Mistry identifies new features and corresponding best practices in every chapter, helping you take full advantage of new SQL Server innovations ranging from private cloud support to AlwaysOn Availability Groups. Understand how to: Efficiently install or upgrade the SQL Server 2012 database engine Administer and configure database engine settings, storage, I/O, and partitioning Transfer data on-premise or to the cloud Manage and optimize indexes Learn how to consolidate, virtualize and optimize SQL Server for Private Clouds Harden and audit SQL Server 2012 environments Administer security and authorization, including new Contained Databases Encrypt data and communications Design and deploy new AlwaysOn high-availability and disaster recovery features Implement maintenance best practices, including Policy-Based Management

microsoft sql server 2012 step by step: Windows Azure SQL Database Step by Step Leonard G. Lobel, Eric D. Boyd, 2014-06-24 Your hands-on guide to Azure SQL Database fundamentals Expand your expertise—and teach yourself the fundamentals of Microsoft Azure SQL Database. If you have previous programming experience but are new to Azure, this tutorial delivers the step-by-step guidance and coding exercises you need to master core topics and techniques. Discover how to: Perform Azure setup and configuration Explore design and security considerations Use programming and reporting services Migrate data Backup and sync data Work with scalability and high performance Understand the differences between SQL Server and Microsoft Azure SQL Database

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content, this is the industry's most complete, useful guide to SQL Server 2012. You'll find start-to-finish coverage of SQL Server's core database server and management capabilities: all the real-world information, tips, guidelines, and samples you'll need to create and manage complex database solutions. The additional online chapters add extensive coverage of SQL Server Integration Services, Reporting Services, Analysis Services, T-SQL programming, .NET Framework integration, and much more. Authored by four expert SQL Server administrators, designers, developers, architects, and consultants, this book reflects immense experience with SQL Server in production environments. Intended for intermediate-to-advanced-level SQL Server professionals, it focuses on the product's most complex and powerful capabilities, and its newest tools and features. Understand SQL Server 2012's newest features, licensing changes, and capabilities of each edition Manage SQL Server 2012 more effectively with SQL Server Management Studio, the SQLCMD command-line query tool, and Powershell Use Policy-Based Management to centrally configure and operate SQL Server Utilize the new Extended Events trace capabilities within SSMS Maximize performance by optimizing design, queries, analysis, and workload management Implement new best practices for SQL Server high availability Deploy AlwaysOn Availability Groups and Failover Cluster Instances to achieve enterprise-class availability and disaster recovery Leverage new business intelligence improvements, including Master Data Services, Data Quality Services and Parallel Data Warehouse Deliver better full-text search with SQL Server 2012's new Semantic Search Improve reporting with new SQL Server 2012 Reporting Services features Download the following from informit.com/title/9780672336928: Sample databases and code examples

microsoft sql server 2012 step by step: Installing SQL Server 2012 Step By Step Stephen P Thomas , 2013-02-23 This book will quickly show you step by step how to install SQL Server 2012; how to enable protocols so that SQL Server can be access by external applications; how to start, stop, pause, and restart services; how to change the properties of each SQL Server service; how to reconfigure service instance login properties. It can be used as a quick reference or a standard how to document for your development or database team. Most database administrators or developers are overloaded with many tasks and have limited time to search online and more advertisements are found in internet search results that will waste more of the little time that remains. How can one still be effective? Reduce the noise and obtain information free of it. That is our goal. These are the prerequisites for becoming a successful Microsoft Certified Professional.

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Beginning Microsoft SQL Server 2012 Programming begins with a quick overview of database design basics and the SQL query language and then quickly proceeds to show you how to implement the fundamental concepts of Microsoft SQL Server 2012. You'll explore the key additions and changes to this newest version, including conditional action constructs, enhanced controls for results paging, application integration with SharePoint and Excel, and development of BI applications. Covers new features such as SQL Azure for cloud computing, client-connectivity enhancements, security and compliance, data replication, and data warehouse performance improvements. Addresses essential topics including managing keys, writing scripts, and working with stored procedures. Shares helpful techniques for creating and changing tables, programming with XML, and using SQL Server Reporting and Integration Services. Beginning Microsoft SQL Server 2012 Programming demystifies even the most difficult challenges you may face with the new version of Microsoft SQL Server.

microsoft sql server 2012 step by step: Professional Microsoft SQL Server 2012

Administration Adam Jorgensen, Steven Wort, Ross LoForte, Brian Knight, 2012-03-28 An essential how-to guide for experienced DBAs on the most significant product release since 2005! Microsoft SQL Server 2012 will have major changes throughout the SQL Server and will impact how DBAs administer the database. With this book, a team of well-known SQL Server experts introduces the many new features of the most recent version of SQL Server and deciphers how these changes will affect the methods that administrators have been using for years. Loaded with unique tips, tricks, and workarounds for handling the most difficult SQL Server admin issues, this how-to guide deciphers topics such as performance tuning, backup and recovery, scaling and replication, clustering, and security. Serves as a must-have how-to guide on the new features of the 2012 release of Microsoft SQL Server. Walks you through ways to manage and monitor SQL Server and automate administration. Guides you through SQL Azure for cloud computing, data replication, and data warehouse performance improvements. Addresses client-connectivity enhancements, new features that ensure high availability of mission-critical applications, and tighter integration with Excel and SharePoint for data analysis and reporting. Highlights major changes to the suite of SQL Server BI tools, including integration, reporting, and analysis services. Includes real-world case examples and best practices from Microsoft insiders. If you're a database administrator eager to get started with the newest version of SQL Server, then this book is essential reading.

microsoft sql server 2012 step by step: Installing Windows 8 Step by Step Stephen P Thomas, 2013-03-09 This book will quickly show you how to upgrade your Windows computer to the new Windows 8. What you will learn:

- What you should know about before you attempt to upgrade your Windows computer
- What is new in Windows 8
- How to backup your files
- How to create your windows install DVD from ISO file
- Tips and Tricks
- Step by Step process of upgrading and installing your new Windows 8.

Windows 8 is a major step in the right direction for the Windows operating system. It has been the least understood version of Windows but in my opinion the best upgrade since Windows XP. In order to relieve one from shell shock there are things that should be initially understood. With this understanding, you will find that Microsoft has made some very good decisions with Windows 8, to adapt with the major changes in computer devices such as tablets and smart phones. These devices will dominate in the very near future and any operating system that is going to be relevant in this new world will have to be compatible with them otherwise it will go the way of the dinosaurs. The concept that made me quickly adapt to Windows 8 is to understand that in previous versions of Windows there was a start button, this start button was replaced in Windows 8 by a much more robust interactive start screen. So rather than clicking this overcrowded nested start button, which on many computers reached its physical limit of the number of icons that can be reasonably displayed, you are now redirected to the start screen than can be personalized in ways which has never before been accomplished in desktop computing. I must say that this is the most useful desktop of any Windows version up to date. I now use the Windows 8 start screen more than ever. With previous versions of Windows I rarely used the desktop. I must say that my productivity has increased 100 percent since I started using Windows 8. My first computer was a Commodore

Vic-20 so I can say I have used almost every user interface invented since the 1980s. If I can quickly adapt so can you.

microsoft sql server 2012 step by step: Professional Microsoft SQL Server 2014 Administration Adam Jorgensen, Bradley Ball, Steven Wort, Ross LoForte, Brian Knight, 2014-09-08
Learn to take advantage of the opportunities offered by SQL Server 2014 Microsoft's SQL Server 2014 update means big changes for database administrators, and you need to get up to speed quickly because your methods, workflow, and favorite techniques will be different from here on out. The update's enhanced support of large-scale enterprise databases and significant price advantage mean that SQL Server 2014 will become even more widely adopted across the industry. The update includes new backup and recovery tools, new AlwaysOn features, and enhanced cloud capabilities. In-memory OLTP, Buffer Pool Extensions for SSDs, and a new Cardinality Estimator can improve functionality and smooth out the workflow, but only if you understand their full capabilities. Professional Microsoft SQL Server 2014 is your comprehensive guide to working with the new environment. Authors Adam Jorgensen, Bradley Ball, Ross LoForte, Steven Wort, and Brian Knight are the dream team of the SQL Server community, and they put their expertise to work guiding you through the changes. Improve oversight with better management and monitoring Protect your work with enhanced security features Upgrade performance tuning, scaling, replication, and clustering Learn new options for backup and recovery Professional Microsoft SQL Server 2014 includes a companion website with sample code and efficient automation utilities, plus a host of tips, tricks, and workarounds that will make your job as a DBA or database architect much easier. Stop getting frustrated with administrative issues and start taking control. Professional Microsoft SQL Server 2014 is your roadmap to mastering the update and creating solutions that work.

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Go-to guide for using Microsoft's updated Hyper-V as a virtualization solution Windows Server 2012 Hyper-V offers greater scalability, new components, and more options than ever before for large enterprise systems and small/medium businesses. Windows Server 2012 Hyper-V Installation and Configuration Guide is the place to start learning about this new cloud operating system. You'll get up to speed on the architecture, basic deployment and upgrading, creating virtual workloads, designing and implementing advanced network architectures, creating multitenant clouds, backup, disaster recovery, and more. The international team of expert authors offers deep technical detail, as well as hands-on exercises and plenty of real-world scenarios, so you thoroughly understand all features and how best to use them. Explains how to deploy, use, manage, and maintain the Windows Server 2012 Hyper-V virtualization solutions in large enterprises and small- to medium-businesses Provides deep technical detail and plenty of exercises showing you how to work with Hyper-V in real-world settings Shows you how to quickly configure Hyper-V from the GUI and use PowerShell to script and automate common tasks Covers deploying Hyper-V hosts, managing virtual machines, network fabrics, cloud computing, and using file servers Also explores virtual SAN storage, creating guest clusters, backup and disaster recovery, using Hyper-V for Virtual Desktop Infrastructure (VDI), and other topics Help make your Hyper-V virtualization solution a success with Windows Server 2012 Hyper-V Installation and Configuration Guide.

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development projects do not allow a developer to click wizards and create an application, based on requirements, by the private or government sector. In order to be a professional .NET developer in these situations one must be an expert with all aspects of code in WPF. That is with the language you are programming, the declarative markup code, and the SQL language for the database. One must also understand the definition of each of the property settings used for each user control. In addition to the classes that defines each user control. These are the prerequisites for becoming a successful professional .NET developer.

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