SQL Safe Backup

## AUTOMATE SQL SERVER BACKUPS ACROSS YOUR ENTERPRISE

IDERA's SQL Safe Backup provides a high-performance backup and recovery solution for SQL Server. It reduces backup time by up to 50% over native backups and reduces backup disk space by up to 95%. It also enables automated backups of entire SQL Server infrastructures and ensures compliance with the backup and recovery policies of organizations. It turns backup files into virtual databases to query and modify data as if they were real databases without restoring. From tens of local SQL Servers to hundreds of global SQL Servers, it is the only backup and recovery solution that scales to meet the challenge.

WHY SQL SAFE BACKUP?

In many organizations today, SQL Server databases are the repository for large volumes of business critical data. As database size grows, the time required to complete the scheduled backups can easily exceed maintenance windows. Restore operations also become time-consuming, and backups need massive amounts of storage space. Instead, database administrators need instant access to the data in the backup using SQL Server and third-party applications without burdensome restoration. Summarizing, database administrators need a robust backup and recovery solution that significantly reduces backup and recovery time, minimizes storage requirements, and provides enterprise management capabilities to conduct backups across a large number of servers simultaneously. SQL Safe Backup has been specifically designed to meet these requirements, resulting in increased application and business availability for your critical SQL Server infrastructure.

PRODUCT HIGHLIGHTS

- **Backup Faster and Save Space** - dynamic compression with encryption
- **Multiple Recovery Options** - including immediate access
- **Ensure Organizational Compliance** - policy-based management
- **Network Failure Resilience** - reduce backup failures due to network problems
- **Web-based Dashboard** - view status summary, receive alerts, and create reports
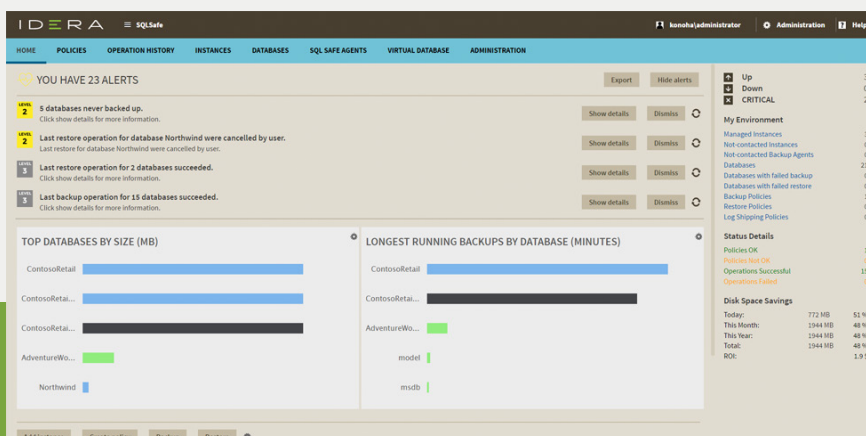
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KEY BENEFITS

Maximize Backup File Compression
The patent-pending IntelliCompress2™ technology continually samples the system resource usage and automatically adjusts the compression level to create the smallest backup files in the fastest possible time given the state of the environment.

Reduce Backup Time Dramatically
Highly advanced compression, disk writing, and multi-threading technologies significantly increase the speed of backup execution. Reducing backup time increases the available window in which to perform other critical SQL Server maintenance activities.

Accelerate Mean Time to Recovery
Select from traditional and advanced restore capabilities that provide greater flexibility and speed when a recovery is required. Especially for emergency recovery situations, this provides flexibility and speed.

Reduce Failures Due To Network Glitches
When a temporary network problem occurs, automatically pause the backup and restore operations. Automatically resume the processes once the system is functional again. This robustness significantly reduces the possibility of backup and restore failures due to temporary network problems.

Ensure Compliance with Corporate Policies
Policy-based management defines and automates backup, restore, and log shipping schedules across multiple servers and databases. Eliminate scripts and overhead of natively backup and restore operations. Report exceptions for jobs that did not complete as planned.

HIGH PERFORMANCE BACKUP & RECOVERY

Availability Groups Configure policies to backup from preferred Availability Group replica. Then restore the database even if the backups originate from different Availability Group members.

Next-generation Object Level Recovery (OLR) SQL Safe Backup exceeds typical object level recovery (OLR). It provides support for all backup file types and recovery of more objects (including those from log backups and foreign key restraints). Backup data files are more comprehensive and include transaction log data that conventional solutions for OLR typically ignore during restore.

Advanced Encryption Protect backups by employing encryption via 128-bit and 256-bit advanced encryption standard (AES) with a performance degradation of less than 0.5%.

Support For Cloud-based Storage Select Amazon Web Services (AWS) Simple Storage Service (S3) and Microsoft Azure Blob Storage as the location for backup, restore, instant restore, and object level recovery (OLR). Initiate cloud storage ad hoc, and select cloud storage in the backup and restore wizards.

IntelliRestore™ The IntelliRestore™ technology provides graphical point-in-time recovery. Choose a point in time using a sliding time scale, and it automatically assembles all of the backup components necessary to restore the database to the specified point in time.

Support for Enterprise Storage Solutions SQL Safe Backup provides integration with solutions for management of enterprise storage from EMC Data Domain and IBM Tivoli Storage Manager (TSM). This connectivity provides backup and restore capabilities to and from EMC Data Domain servers via an easy to setup wizard, and an interface to TSM for permanent storage of backup files. Consequently, adhere to corporate storage standards.

InstantRestore™ The patent-pending InstantRestore™ technology brings the database online immediately to virtually eliminate application downtime. Once online, it streams data from the backup file on-demand to support applications and user requests while completing the restore operation in the background. The database acts as a fully functional database, supporting all read and write operations.

Virtual Database With Virtual Database, manage virtual databases from backups created by native SQL Server and SQL Safe Backup. Attach full backups or a series of backups. Virtual databases behave just like actual live physical databases. Use native tools (such as Microsoft SQL Server Management Studio) and third-party tools (such as IDERA SQL Comparison Toolset) to access virtual databases. They provide complete support for read and write operations, including inserts, updates, deletes, database console commands (DBCC) commands, and other maintenance operations.

Separate Process and Low Impact SQL Safe Backup runs as a separate process outside of the SQL Server process space. It is agentless whereby it does not install any additional databases, dynamic-link libraries (DLLs), scripts, stored procedures, and tables on the managed SQL Server instances. Install and configure the application very quickly and easily -- typically in less than 15 minutes.

Comprehensive Alerting and Reporting Automatically receive alerts on the result of any operation in your environment (including failures, warnings, misses, and successes). Access a comprehensive catalog of reports for best practices that are delivered using SQL Server Reporting Services. All reports can be generated using enterprise data. The reports can be easily customized to meet specific reporting needs.

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ENTERPRISE MANAGEMENT FEATURES

Policy-based Management The unique policy-based management defines and automates backup, restore, and log shipping schedules across multiple databases, servers, and server groups. Automate backups with policies and eliminate the need for scripts and unnecessary overhead of backup and recovery processes experienced when performing backups natively. Create individual backup policies and apply them throughout the SQL environment. Simplifies the task of setting up and managing schedules and report exceptions to highlight jobs that did not complete as planned. Consequently, ensure compliance with organizational policies.

Centralized Management Console The central enterprise console provides real-time and historical monitoring of backup and restore operations and job management capabilities. The dashboard view displays backup and restore issues, backup policies created and more from one consolidated view. Toggle between navigation tabs to perform backup tasks as needed. For example, view top alerts status for failed and incomplete backups, see summary of backup policies across servers and databases, drill-down to backup operations history, one-click for ad-hoc backups and restores, add a new server to backup, view disk space used and savings achieved via compression, and see longest running backup jobs and top database backups by size.

Central Repository SQL Safe Backup stores all backup and restore information in a central repository. This repository allows for full auditing of backup history across the enterprise.

Multiple User Interfaces Choose from multiple interfaces including web console, desktop console, command-line, and XSP web server. The easy-to-use, web-based user interface is accessible from any web browser. SQL Safe Backup also works within IDERA's Dashboard to provide an integrated, centralized console to use across IDERA's products. The intuitive Microsoft Windows based desktop console maintain a single pane of glass functionality. Command-line interface (CLI) commands enable you to create, update, and deploy new database policies, point-in-time restore, and object level recovery (OLR) functions.

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Scalability SQL Safe Backup provides flexible scalability to keep up with expanding environments. With server sprawl, save space, plan for growth, and see all of the metrics that are important for backups -- all in a single, easy-to-use, central console.

Comprehensive Alerting and Reporting Automatically receive alerts on the result of any operation in your environment (including failures, warnings, misses, and successes). Access a comprehensive catalog of reports for best practices that are delivered using SQL Server Reporting Services. All reports can be generated using enterprise data. The reports can be easily customized to meet specific reporting needs.

SECURITY AND STORAGE

Advanced Encryption Protect backups by employing encryption via 128-bit and 256-bit advanced encryption standard (AES) with a performance degradation of less than 0.5%.

Backup Mirroring Write duplicate backup files to different locations during a single backup operation.

Support For Cloud-based Storage Select Amazon Web Services (AWS) Simple Storage Service (S3) and Microsoft Azure Blob Storage as the location for backup, restore, instant restore, and object level recovery (OLR). Initiate cloud storage ad hoc, and select cloud storage in the backup and restore wizards.

Login Copy Bring recovered databases online faster by allowing SQL Safe Backup to create missing SQL Server logins and resolve any orphaned database users.

Support for Enterprise Storage Solutions SQL Safe Backup provides integration with solutions for management of enterprise storage from EMC Data Domain and IBM Tivoli Storage Manager (TSM). This connectivity provides backup and restore capabilities to and from EMC Data Domain servers via an easy to setup wizard, and an interface to TSM for permanent storage of backup files. Consequently, adhere to corporate storage standards.

SYSTEM REQUIREMENTS

Desktop Console and Web Dashboard
• Microsoft Data Access Components: 2.8+
• Microsoft .NET Framework: 4.0+
• Web Browser: Microsoft IE 9.0+, Mozilla Firefox 4+, Google Chrome 6+

Management Console and Management Service
Microsoft Windows: Server 2003 SP2, Server 2008 R2, Server 2008 SP1, Server 2012, Server 2012 R2, Vista SP2+, 7, 8, 10, Server 2016; 32- and 64-bit

Backup Agent
• Microsoft Windows: Server 2003 SP2, Server 2008 R2, Server 2008 SP1, Server 2012, Server 2012 R2, Vista SP2+, 7, 8, Server 2016; 32- and 64-bit
• Microsoft SQL Server: 2005 SP1+, 2008, 2008 R2, 2012, 2014, 2016; all editions (Express, Standard, Enterprise, etc.)

InstantRestore™
Microsoft Windows: Server 2003 SP2, Server 2008 R2, Server 2008 SP1, Server 2012, Server 2012 R2, Vista SP2+, 7, 8, 10, Server 2016

SQL Safe Backup Repository
• Microsoft Windows: Server 2003 SP2, Server 2008 R2, Server 2008 SP1, Server 2012, Server 2012 R2, XP Professional SP3+, Vista SP2+, 7, 8, Server 2016
• Microsoft SQL Server: 7 SP3; 2005 SP1 or later, 2008, 2008 R2, 2012, 2014, 2016; all editions (Express, Standard, Enterprise, etc.)

Supported EMC Environments
EMC Data Domain Operating System: 5.5, 5.6

Supported IBM Tivoli Storage Manager (TSM) Environments
• TSM Client: 7.1.x.x, 6.4.x.x, 6.3.x.x, 6.2.x.x, 6.1.x.x, 5.6.x.x, 5.5.x.x, 5.4.x.x
• TSM Server: SQL Safe supports any version of TSM Server to which the supported TSM Client versions can connect

SQL Safe Backup does not require the installation of any additional databases, dynamic-link libraries (DLLs), scripts, stored procedures, and tables on the SQL Server instances.