

Peer DRS

Real-time and scheduled database transaction replication and protection

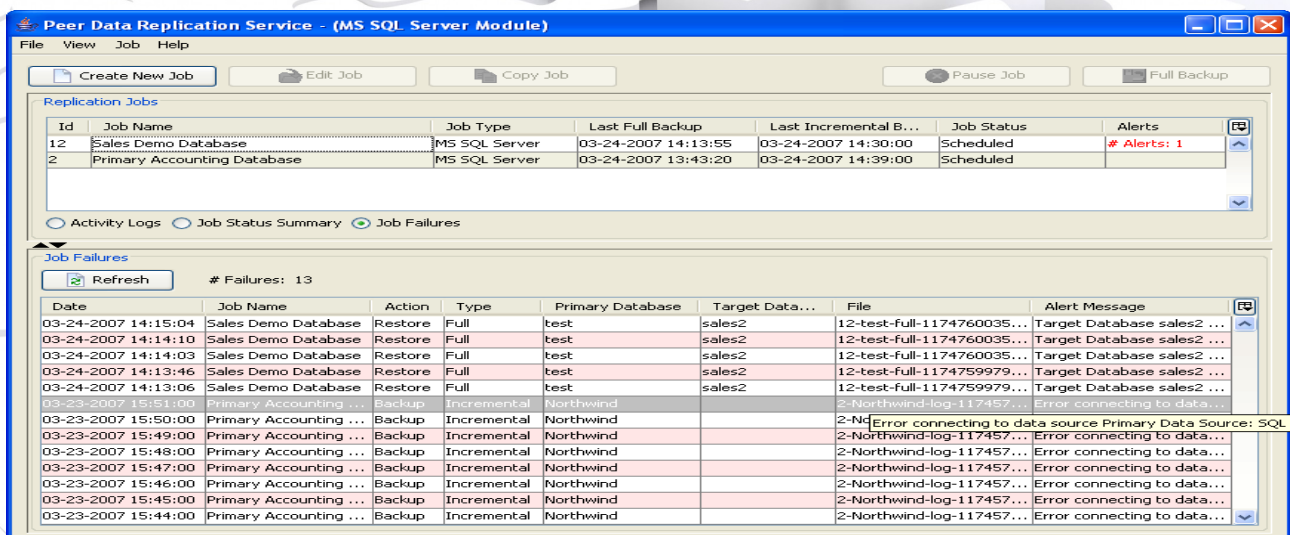
Peer DRS is an application that can give you continuous database protection. It is capable of backing up various types of databases (e.g., MS SQL Server and MS Exchange Server). Peer DRS replicates database changes in near real-time to one or more remote locations acting as warm or cold standby servers based on the supported database platform's capabilities.

Peer DRS employs a form of log shipping. This is the process of automating the backup of databases and transaction log files on a primary server, and then restoring them onto a target standby server. The key feature of log shipping is the automatic backup of transaction logs throughout the day (or on whatever interval you specify), and the ability to then automatically restore them on a standby server located anywhere in the world. This in effect keeps the two databases in synchronisation with one another. Should the production server fail, all you have to do is point the users/applications to the new server and perform a database role reversal.

Peer DRS is unique from other products. It provides a centralised way to remotely manage and monitor all of your database backups from a single location and from a single application. It has a plug-in architecture allowing it to support different types of database backups from a single application, e.g. SQL Server, Exchange Server, etc. In addition, it is extremely flexible and can be configured to handle almost any type of backup scenario. Peer DRS has an easy and intuitive configuration wizard and management GUI making backups simple.

Features

- Support for SQL Server from version 7.0 onwards, and Exchange Server from 2000 onwards.
- Performs full backups on-demand or at a scheduled time.
- Performs up to the minute incremental backups with replication to warm standby's.
- Configure and manage all database backups remotely from a central, client-based GUI.
- Runs as a system service or run in background in system tray.
- Replicate across a WAN via FTP, SFTP, SSH or a password protected Network Shared drive.
- Resume a file copy from where it last left off for failed file copies to target.
- Transfer backups securely across a WAN or LAN using SSH or SFTP
- Configure backup jobs on a per database basis with different configurations and schedules.
- Specify various archiving options and configure how long to keep backups and transaction logs.
- Perform backups without restoring to a standby server for remote storage and DR.
- Possible to use the standby server as a live read-only database.



Peer Data Replication Service - (MS SQL Server Module)

File View Job Help

Create New Job Edit Job Copy Job Pause Job Full Backup

Replication Jobs

Id	Job Name	Job Type	Last Full Backup	Last Incremental B...	Job Status	Alerts
12	Sales Demo Database	MS SQL Server	03-24-2007 14:13:55	03-24-2007 14:30:00	Scheduled	# Alerts: 1
2	Primary Accounting Database	MS SQL Server	03-24-2007 13:43:20	03-24-2007 14:39:00	Scheduled	

Activity Logs Job Status Summary Job Failures

Job Failures

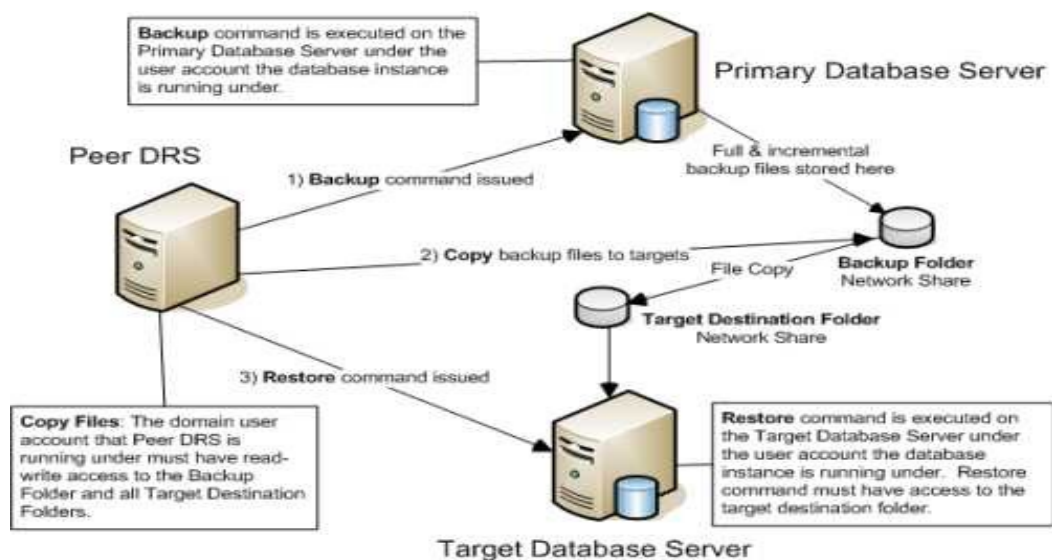
Refresh # Failures: 13

Date	Job Name	Action	Type	Primary Database	Target Data...	File	Alert Message
03-24-2007 14:15:04	Sales Demo Database	Restore	Full	test	sales2	12-test-full-1174760035...	Target Database sales2 ...
03-24-2007 14:14:10	Sales Demo Database	Restore	Full	test	sales2	12-test-full-1174760035...	Target Database sales2 ...
03-24-2007 14:14:03	Sales Demo Database	Restore	Full	test	sales2	12-test-full-1174760035...	Target Database sales2 ...
03-24-2007 14:13:46	Sales Demo Database	Restore	Full	test	sales2	12-test-full-1174759979...	Target Database sales2 ...
03-24-2007 14:13:06	Sales Demo Database	Restore	Full	test	sales2	12-test-full-1174759979...	Target Database sales2 ...
03-23-2007 15:51:00	Primary Accounting ...	Backup	Incremental	Northwind		2-Northwind-log-117457...	Error connecting to data...
03-23-2007 15:50:00	Primary Accounting ...	Backup	Incremental	Northwind		2-Northwind-log-117457...	Error connecting to data...
03-23-2007 15:49:00	Primary Accounting ...	Backup	Incremental	Northwind		2-Northwind-log-117457...	Error connecting to data...
03-23-2007 15:48:00	Primary Accounting ...	Backup	Incremental	Northwind		2-Northwind-log-117457...	Error connecting to data...
03-23-2007 15:47:00	Primary Accounting ...	Backup	Incremental	Northwind		2-Northwind-log-117457...	Error connecting to data...
03-23-2007 15:46:00	Primary Accounting ...	Backup	Incremental	Northwind		2-Northwind-log-117457...	Error connecting to data...
03-23-2007 15:45:00	Primary Accounting ...	Backup	Incremental	Northwind		2-Northwind-log-117457...	Error connecting to data...
03-23-2007 15:44:00	Primary Accounting ...	Backup	Incremental	Northwind		2-Northwind-log-117457...	Error connecting to data...

How it works

Peer DRS uses a form of log shipping as its methodology for replication, and in order to understand how Peer DRS works, you need to understand how log shipping in general works.

Peer DRS log shipping implementation is straightforward:



1. A Full backup of the database is taken on the primary server and stored in a backup folder located either on the primary server, or more than likely, a network shared drive accessible by the Peer DRS application. The files in this Backup Folder can also serve as your backup archives.
2. If the target copy destination folder is different than the Backup Folder, the files are copied to the destination folder of all configured targets, otherwise no copy is performed.
3. The target standby server maintains a copy of the full database. The target database is not operational; but it can stay in read-only mode.
4. Based on the configured incremental backup schedule (e.g. every 15 minutes), incremental changes are recorded in transaction log files and stored in the shared Backup Folder
5. Transaction log backup files are copied to all configured target database destination folders immediately after an incremental backup of the primary database is performed.
6. Transaction log backups are applied to the target database on the target server in the order that they were taken on the primary server.

The Small Business Edition has all the great features of the full product, runs on all the same SQL Server versions and Windows versions, but with a few limitations, and a great price! Maximum of 2 systems acting as source and target machines. Maximum of 4 databases per source server. Maximum of 1 warm standby target servers. Transfers via SSH and SFTP are disabled .

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