

Restore CLI Commands

SQL Safe provides you with CLI commands to help you manually restore a database.

To restore a database use the following commands:

- SQLsafeCmd Restore <db_name> <backup_archive> [options]
- SQLsafeCmd Restore <db_name> <point_in_time> [options]
- SQLsafeCmd Restore <db_name> TSM [options]

Where:

Action	Description
<db_name>	Name of the database.
<backup_archive>	Path to the backup archive.
<point_in_time>	Date/Time {"MM/dd/yyyy hh:mm:ss"} to restore to.
Tsm	Use Tivoli Storage Manager (see below for special options).

Common Options

The following options help you perform restore operations:

Options	Descriptions
-BackupSet <index>	<index> - the index of the backup set within the backup archive. (1-based).
-DisconnectUsers	Disconnects all users from the target database before the restore operation begins.
-DownloadFileFromCloud	False.
-TempDownloadLocation	Temporary Download Location For cloud.
-PartSize	10.
-EncryptedRestorePassword <pwd>	<pwd> - the encrypted password used to decrypt the backup.
-InstanceName <name>	<name> - SQL server instance name. Note: it is not required if the instance is set as a default on the target server.

-Move <logical_filename> <target_filename>	To move the database logical database file to the physical target file. <logical_filename> - the database logical database file. <target_filename> - the physical target file. Corresponds to the WITH MOVE option in the RESTORE DATABASE T/SQL command.
-Password <pwd>	<pwd> - the non-encrypted password used to encrypt the backup.
-Server <hostname>	<hostname> - the hostname of server hosting the SQL Server where the operation should be performed. Note: this option is required for accessing remote or clustered SQL Servers (where applicable).
-Replace	Overrides database if exists.
-SectorType	Public or Government based on Azure Sector.

Security Options

Secure your restore operations with the following options:

Options	Description
-NoPrompt	Never prompt for credentials even if necessary.
-SecurityModel <model>	The security model used to log into SQL Server. <model> - {Integrated, SQL}. Note: Integrated (Windows authentication) is the default.
-SqlUsername <username>	<username> - the SQL Server username. (SQL SecurityModel).
-SqlPassword <pwd>	<pwd> - the SQL Server password. (SQL SecurityModel).
-EncryptedSqlPassword <pwd>	<pwd> - the encrypted SQL Server password generated by EncryptSqlPassword action. (SQLSecurityModel).
-WindowsUsername <domain\user>	<domain\user> - the Windows user that will be used to read/write the backup archive.

-WindowsPassword <pwd>	<pwd> - the password for the Windows user.
-EncryptedWindowsPassword <pwd>	<pwd> - the encrypted password for the Windows user generated by EncryptWindowsPassword action.

Advanced Options

The following advanced options help you perform restore operations:

Options	Description
-ArgsFile <filename>	The path to a file containing command-line arguments. <filename> - specifies the file that contains the command line arguments.
-BackupFile <filename>	Specifies additional backup archive files to be used for striping backups. <filename> - specifies the backup archive files. Note: use once for each additional stripe.
-ContinueAfterError	Instructs SQL Server to continue the operation despite encountering errors such as invalid checksums. Note: for SQL 2005 and later only.
-IncludeLogins	For backup, includes the database logins in the backup file. For restore, creates the logins from the backup file on the destination server.
-ReportTLog	For backup, 'Yes' reports Skipped T-Log backups against databases that are in simple mode with a SUCCESS status rather than SKIPPED.
-KeepCDC	Flag to indicate whether the restore will support the Microsoft SQL Server Change Data Capture (CDC) feature. The possible values are 1 (CDC restore will be supported) or 0 (CDC restore will not be supported). If the KeepCDC parameter is set to 1 then the CDC enabled database will be restored along with the CDC related artifacts and the Capture and Cleanup jobs will be created with the default options. If the parameter is omitted, CDC restore will not be supported.
-KeepReplication	Preserves replication settings when restoring a published database to a server other than that on which it was created.

-MailTo <email_address>	<email_address> - an email address(es) to send the notification via SMTP. Note: multiple addresses may be separated by spaces, semicolons, or commas.
-NoStatus	Prevents status messages from being cached or sent to the Repository.
-RecoveryMode <mode> [-UndoFile <filename>]	Specifies the mode in which to leave the database after the operation is completed. <mode> - {NoRecovery, Standby}. Note: for Standby mode an undo file may be specified with the -UndoFile option.
-UndoFile <filename>	<filename> - specifies the ABSOLUTE path to the undo filename. Note: for Standby recovery mode only.
-RetryReads <interval> <retry_time> <total_time>	On a network file error, retry every <interval> seconds for up to <retry_time> seconds. Total retry time allowed is <total_time> minutes.
-StopAt <datetime>	Specifies the database to be restored to the state it was in as of the specified date and time. <datetime> - {"mm/dd/yyyy hh:mm:ss"}. Note: for Log BackupType only.
-StopAtMark <mark> [-After <datetime>]	Specifies recovery to the specified <mark>, including the transaction that contains the <mark>. Note: for Log BackupType only.
-StopBeforeMark <mark> [-After <datetime>]	Specifies recovery to the specified <mark> but does not include the transaction that contains the <mark>. Note: for Log BackupType only.

-After <datetime>	Recovery stops at the first <mark> having the specified name exactly at or after <datetime>. Note: only valid with -StopAtMark/-StopBeforeMark options. For Log BackupType only.
- PreCommandRun	Specifies that a pre-command is expected. No value is expected here, just the presence of the parameter -PreCommandRun. Note: Optional.
- PreBackupDestination	The UNC location and filename of the pre-backup command. -PreBackupDestination = '\\myserver\safecommands\prebackupcommand.bat' Note: Optional.
- QuitJobPreJobFail	Quits the backup operation if the pre-backup command fails. No value is expected here, just the presence of the parameter -QuitJobPreJobFail. Note: Optional.
- PostCommandRun	Specifies that a post-command is expected. No value is expected here, just the presence of the parameter -PostCommandRun. Note: Optional.
- PostBackupDestination	The UNC location and filename of the post-backup command. -PostBackupDestination = '\\myserver\safecommands\postbackupcommand.bat' Note: Optional.

Tivoli Storage Manager Options

There are TSM options for your restore operations:

Options	Description
-TsmClientOwnerName <name>	<name> - the client owner name.
-TsmClientOwnerPassword <pwd>	<pwd> - the client owner password.
-EncryptedTsmClientOwnerPassword <pwd>	<pwd> - the encrypted TSM client owner password.
-TsmConfigFile <filename>	<filename> - the configuration file location.

-TsmHighLevel <name>	<name> - the high level file specification (path).
-TsmLowLevel <name>	<name> - the low level file specification (file name).
-TsmTcpServerAddress <address>	<address> - the TCP/IP address for the TSM server.
-TsmTcpPort <port>	<port> - the TCP/IP port address for the TSM server.
-TsmId <object_id>	<object_id> - The TSM object id. Note: if the object id is provided, high level and low level are not needed.

For detailed descriptions and available options, see the CLI Help (SQLsafeCmd help Restore).

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