

# Edit Log Shipping Policies CLI Commands

SQL Safe provides you with CLI commands to help you manually edit log shipping policies.

## Options to Edit Log Shipping Policies

To edit log shipping policies with minimal required options use the following command:

- SQLsafeCmd Create-Policy LogShipping <policy\_name> -InstanceName <name> - DatabaseName <primary\_db\_name> -NetworkPath <path> [options] -SecondaryDatabase <secondary\_db\_name> -TargetInstance <name> [secondary database options] [- SecondaryDatabase <secondary\_db\_name> -TargetInstance <name> [secondary database options] ...]

The following options can also be used to edit log shipping policies:

Option	Description
-ActionType <action>	Specifies the policy action.  <action> - SqlAgent, SqlSafeBackupAgent, MonitorOnly.  Note: the default is the SqlAgent action.
-RestrictRun [on off]	[on off] - Enable/Disable the policy.
-Description <description>	<description> - specifies the policy description.
-NewName <policy_name>	<policy_name> - specifies a new name of the policy.
-RestoreGracePeriod <n><time_period>	Specifies when SQLsafe should consider this log shipping policy compliant.  <time_period> - {hour, minute}  A log backup must occur within "n" minutes/hours of the scheduled run time.
-BackupGracePeriod <n><time_period>	Specifies when SQLsafe should consider this log shipping policy compliant.  <time_period> - {hour, minute}  A secondary's data is no more than "n" minutes/hours older than the most recent log backup.

## Email Options

You can set email notifications for your log shipping policy editions by using the following options:

Options	Description
-MailTo <email> [<email> ...] <on_event> [<on_event> ...] [<frequency>]	<email> - specifies where to send notification.  <on_event> - specifies the event on which send notification.  Valid events are: OnError, OnSkip, OnCancel, OnWarning, OnSuccess.  The default is no event.  <frequency> - specifies the notification frequency.  Valid values: Once, Always, Never.  The default is never.

Note: you can optionally specify email settings.

### Primary Database Options

The following primary database options help you edit log shipping policies:

Options	Description
-InstanceName <instance_name>	<instance_name> - specifies the instance on the primary database location.  Note: this parameter is required.
-DatabaseName <db_name>	<db_name> - specifies the primary database. Note: this parameter is required.
-Server <server_name>	<server_name> - specifies the server on the primary database location.  Note: this parameter is optional.

### Schedule Options

You can schedule the primary database options to edit log shipping policies by using the following options:

Options	Description
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-CompressionLevel <level>	<p>The compression level used for the backup.</p> <p>&lt;level&gt; - {ispeed, isize, 0, 1, 2, 3, 4}.</p> <p>Note: if the compression level is not specified, ispeed is the default.</p>
-EncryptionType <type>	<p>The type of encryption used to encrypt the backup.</p> <p>&lt;type&gt; - {AES128, AES256}.</p>
- BackupEncryptionPas sword <pwd>	<p>&lt;pwd&gt; - specifies the password for encrypted backup file.</p>
-Threads <number>	<p>&lt;number&gt; - specifies the number of threads that should be used to distribute the backup process across multiple processors.</p>
-UseAgentAccount <yes no>	<p>Specifies the Agent account for accessing to files.</p> <p>Note: this parameter is optional.</p> <p>By default, the policy uses Agent account.</p>
-WindowsUsername <domain\user>	<p>&lt;domain\user&gt; - specifies the user name, used when writing to remote files during backup.</p>
-WindowsPassword <pwd>	<p>&lt;pwd&gt; - specifies the password.</p>
-NetworkPath <path>	<p>&lt;path&gt; - specifies where to store your backup files for primary database.</p>

<p>-Delete &lt;n&gt;&lt;time_period&gt;</p>	<p>After a backup successfully completes, delete archives that are older than the specified amount of time.</p> <p>&lt;n&gt; - amount of time.</p> <p>&lt;time_period&gt; - {minutes, hours, days, weeks, months}.</p> <p>There must be NO SPACE between &lt;n&gt; and &lt;time_period&gt;.</p> <p>E.g., -delete 2hours.</p> <p>Note: if you use the space between &lt;n&gt; and &lt;time_period&gt;, the backup archive filename will be automatically generated with the following pattern:</p> <p>&lt;instancename&gt;_&lt;databasename&gt;_&lt;backuptype&gt;_ &lt;timestamp&gt;. safe</p> <p>where the &lt;timestamp&gt; is in UTC time and in the form of YYYYMMDDHHMM.</p>
<p>-RetryWrites &lt;interval&gt; &lt;retry_time&gt; &lt;total_time&gt;</p>	<p>On a network file error, retry every &lt;interval&gt; seconds for up to &lt;retry_time&gt; seconds. Total retry time allowed is &lt;total_time&gt; minutes.</p>
<p>-FailOnMirrorError &lt;yes no&gt;</p>	<p>To abort backup if a mirror location reports a failure.</p> <p>Note: by default, this option is disabled.</p> <p>This parameter is optional.</p>
<p>-MirrorFile &lt;filename&gt;</p>	<p>Specifies additional backup archive files to be used for mirroring backups.</p> <p>&lt;filename&gt; - specifies the backup archive files.</p> <p>Note: use once for each additional mirror. Up to two mirrors may be specified.</p>

<b>-DeleteMirror</b> <b>&lt;n&gt;&lt;time_period&gt;</b>	<p>After a backup successfully completes, delete mirrors that are older than the specified amount of time.</p> <p>&lt;n&gt; - amount of time.</p> <p>&lt;time_period&gt; - {minutes, hours, days, weeks, months}.</p> <p>There must be NO SPACE between &lt;n&gt; and &lt;time_period&gt;.</p> <p>E.g., -deletemirror 2hours.</p> <p>Note: if you use the space between &lt;n&gt; and &lt;time_period&gt;, the mirror filename will be automatically generated with the following pattern:</p> <p>&lt;instancename&gt;_&lt;databasename&gt;_&lt;backuptype&gt;_&lt;timestamp&gt;. safe</p> <p>where the &lt;timestamp&gt; is in UTC time and in the form of YYYYMMDDHHMM.</p>
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Note: you can optionally specify backup job occur schedule for primary database.

### Secondary Database (s) Options

The following secondary database options help you edit log shipping policies:

Options	Description
<b>-SecondaryDatabase</b> <b>&lt;db_name&gt;</b>	<p>&lt;db_name&gt; - specifies the "Secondary Database" name.</p> <p>Note: it requires -TargetInstance option.</p> <p>Second parameter can be used for removing "Secondary Database" from policy.</p> <p>Note: by default, this parameter is "On".</p>
<b>-TargetInstance</b> <b>&lt;instance_name&gt;</b>	<p>&lt;instance_name&gt; - specifies the target instance.</p> <p>Note: this parameter is required.</p>
<b>-TargetServer</b> <b>&lt;server_name&gt;</b>	<p>&lt;server_name&gt; - specifies the target server.</p> <p>Note: this parameter is optional.</p>

<p>-Initialization &lt;type&gt; [-Backupfile &lt;file_name&gt;]</p>	<p>Specifies the secondary database initialization.</p> <p>&lt;type&gt; - {None, Latest Backup, Create Copyonly, Selection}</p> <p>"none" - Do not initialize. The database exists and has received most recent full backup of primary database.</p> <p>"latest_backup" - Initialize with a newly generated full backup.</p> <p>"create_copyonly" - Initialize with a newly generated copy-only full backup.</p> <p>"selection" - Initialize with selected backups, option -Backupfile is required for this initialization type.</p> <p>Note: The default value is "Create Copyonly".</p> <p>This parameter is optional.</p>
<p>-BackupFile &lt;file_name&gt;</p>	<p>&lt;file_name&gt; - specifies backups for "Selection" database initialization type.</p>
<p>-RecoveryMode &lt;mode&gt;</p>	<p>Specifies the secondary database state after restore.</p> <p>&lt;mode&gt; {NoRecovery, Standby}.</p> <p>Option -DisconnectUsers is applicable with "Standby" recovery mode.</p> <p>Note: the default value is "Standby" with enabled - DisconnectUsers option.</p> <p>This parameter is optional.</p>
<p>-UndoFile &lt;filename&gt;</p>	<p>&lt;filename&gt; - specifies the ABSOLUTE path to the undo filename.</p> <p>Note: for Standby recovery mode only.</p>
<p>-DisconnectUsers &lt;yes no&gt;</p>	<p>Disconnects all users from the target database before the restore operation begins.</p> <p>Note: this parameter is optional.</p>

### Schedule Options

You can schedule the secondary database options to edit log shipping policies by using the following options:

Options	Description
-Schedule <occurs_type>	Specifies the schedule type (occurs type).  <occurs_type> - OnDemand, Daily, Weekly, Monthly.
-Every <n>	Specifies how often the policy runs. It depends on the schedule type.  For Daily: every <n> day(s).  For Weekly: every <n> week(s).  For Monthly: every <n> month(s).  Note: the default value is "1".
-Day <day>	<day> - specifies a day of the week or a day of a month.  Note: it is valid only with Weekly, Monthly schedule types.  Valid values for Weekly: MON - SUN and * (every day). SUN is default.  Valid values for Monthly: MON - SUN, Weekday, WeekendDay, Day or number 1 - 31. Is required when -MonthDay option is used.
-MonthDay <month_day>	Specifies how often the policy runs.  <month_day> - FIRST, SECOND, THIRD, FOURTH, LAST use with -Day option. LASTDAY - the policy runs on the last day of the month.
-StartTime <time>	<time> - specifies the time of day that the policy runs.  Note: it is required with a "once" frequency.  The default value is the current local time when policy creates.
-EndTime <time>	<time> - specifies the time of day that the policy ends.  Note: it is is not valid in a "once" frequency.  The default value is the "23:59:59".

<p>-Frequency &lt;n&gt;&lt;time_period&gt;</p>	<p>Specifies daily frequency (how often the policy runs within a day).</p> <p>&lt;n&gt; - amount of time.</p> <p>&lt;time_period&gt; - {hour, minute}.</p> <p>E.g., -Frequency 2hours.</p> <p>Special keyword: Once. E.g., -Frequency Once.</p>
<p>-StartDate &lt;date&gt;</p>	<p>&lt;date&gt; - specifies the date that the policy starts.</p> <p>Note: the default value is the current date.</p> <p>This parameter is optional.</p>
<p>-EndDate &lt;date&gt;</p>	<p>&lt;date&gt; - specifies the last date that the policy is scheduled to run.</p> <p>Note: by default, the schedules have no ending date.</p> <p>This parameter is optional.</p>
<p>-SetRestoreLocation &lt;path&gt;</p>	<p>&lt;path&gt; - specifies different location for restore.</p> <p>Special keyword: "AsBackup" sets location the same as backup.</p> <p>Note: the default value is the same location as backup.</p> <p>This parameter is optional.</p>

Note: you can optionally specify restore job occur schedule for secondary database.

For detailed descriptions and available options, see the CLI Help (`SQLsafeCmd help Edit-Policy`).

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