

# Create Backup Policies CLI Commands

SQL Safe provides you with CLI commands to help you manually create backup policies.

## Options to Create Backup Policies

To create backup policies with minimal required options use the following command:

- `SQLsafeCmd Create-Policy Backup <policy_name> -IncludeInstance <name> -IncludeDatabases <db_name> [<db_name> ...] [options] [-BackupType <type> [backup options] [-BackupType <type> [backup options] ...]]`

The following options can also be used to create backup policies:

Option	Description
<code>-ActionType &lt;action&gt;</code>	Specifies the policy action.  <action> - SqlAgent, SqlSafeBackupAgent, MonitorOnly.  Note: the default is the SqlAgent action.
<code>-RestrictRun [on off]</code>	[on off] - Enable/Disable the policy.
<code>-Description &lt;description&gt;</code>	<description> - specifies the policy description.
<code>-IncludeInstance &lt;instance_name&gt;</code>	<instance_name> - the instance name to include in policy.  Option can be used one or more times. There must be NO OPTIONS between -IncludeInstance and -IncludeDatabases options.  Note: this parameter is required.
<code>-IncludeDatabases &lt;db_name&gt; [&lt;db_name&gt; ...]</code>	<db_name> [<db_name> ...] - one or more names of database(s) to include in policy.  Special keywords: {All}, {AllSystem}, {AllUser}.  Note: it is required for each -IncludeInstance option.
<code>-Exclude &lt;db_name&gt; [&lt;db_name&gt; ...]</code>	<db_name> [<db_name> ...] - one or more names of database(s) to not backup.

## Email Options

You can set email notifications for your backup policy creations by using the following options:

Options	Description
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<p>-MailTo &lt;email&gt; [&lt;email&gt; ...] &lt;on_event&gt; [&lt;on_event&gt; ...] [&lt;frequency&gt;]</p>	<p>&lt;email&gt; - specifies where to send the notification.</p> <p>&lt;on_event&gt; - specifies the event on which to send the notification.</p> <p>Valid events are: OnError, OnSkip, OnCancel, OnWarning, OnSuccess.</p> <p>The default is no event.</p> <p>&lt;frequency&gt; - specifies the notification frequency.</p> <p>Valid values: Once, Always, Never.</p> <p>The default is never.</p>
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Note: you can optionally specify email settings.

## Backup Options

The following backup option help you create backup policies:

Option	Description
<p>-BackupType &lt;type&gt;</p>	<p>Specifies backup type for policy.</p> <p>&lt;type&gt; - {Full, Differential, Diff, Log}.</p> <p>Option can be used one or more times.</p> <p>Note: the default type is "Full" with default settings.</p> <p>This parameter is optional.</p>

There are available options for -BackupType option:

Option	Description
<p>-CompressionLevel &lt;level&gt;</p>	<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>
<p>-EncryptionType &lt;type&gt;</p>	<p>The type of encryption used to encrypt the backup.</p> <p>&lt;type&gt; - {AES128, AES256}.</p>

- BackupEncryptionPassword <pwd>	<pwd> - specifies the password for encrypted backup file.
-Verify <yes no>	Verifies the backup set after backup is complete.
-IncludeLogins <yes no>	For backup, includes the database logins in the backup file.  For restore, creates the logins from the backup file on the destination server.  Note: this parameter is optional.
-GenerateMap <yes no>	Generates maps.  Note: for InstantRestore and SQL virtual database.
-Threads <number>	<number> - specifies the number of threads that should be used to distribute the backup process across multiple processors.
-Checksum <yes no>	Instructs SQL Server to generate backup checksums during a backup, or verify backup checksums during a verify or restore.  Note: for SQL 2005 and later only.  This parameter is optional.
-ContinueAfterError <yes no>	Instructs SQL Server to continue the operation despite encountering errors such as invalid checksums.  Note: for SQL 2005 and later only.  This parameter is optional.
-CopyOnly <yes no>	Specifies that the backup does not affect the normal sequence of backups.  Note: for SQL 2005 and later only.  This parameter is optional.
- ReadWriteFileGroups <yes no>	Instructs SQL Server to perform a partial backup, which includes the primary filegroup and any read-write secondary filegroups.  Note: for SQL 2005 and later only.  This parameter is optional.

<p>- TruncateTransactionLog &lt;yes no&gt;</p>	<p>Removes inactive entries for transaction log in "Log" backup option. Optional.</p> <p>Note: by default, this option is enabled.</p>
<p>-Location &lt;type&gt;</p>	<p>Specifies backup storage type.</p> <p>&lt;type&gt; - {Single File, TSM, Striped Files, Data Domain, S3 Cloud}.</p> <p>Note: The default value is "Single File".</p> <p>This parameter is optional.</p>
<p>-Overwrite &lt;yes no&gt;</p>	<p>Overwrites existing archive if one exists.</p> <p>Note: The default value is "no".</p> <p>This parameter is optional.</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>

<p>-DeleteMirror &lt;n&gt;&lt;time_period&gt;</p>	<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>
<p>-BackupFile &lt;filename&gt;</p>	<p>Specifies additional backup archive files to be used for striping backups.</p> <p>&lt;filename&gt; - specifies the backup archive files.</p> <p>Note: use once for each additional stripe.</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>

-UseAgentAccount <yes no>	Specifies Agent account for accessing to files.  Note: by default, the policy uses Agent account.  This parameter is optional.
-WindowsUsername <domain\user>	<domain\user> - specifies user name, used when writing to remote files during backup.
-WindowsPassword <pwd>	<pwd> - specifies password.
-BucketName <bucket_name>	<bucket_name> - specifies the cloud bucket name.
-SecretKey <key>	<key> - specifies the cloud secret name.
-AccessKey <key>	<key> - specifies the cloud access key.
-FileSize <file_size>	<file_size> - specifies the cloud file size.
-Region <region>	<region> - specifies the cloud region.
-StorageClass <storage_class>	<storage_class> - specifies the cloud storage class: Standard, Standard-IA, and OneZone-IA.  Note: this setting is optional. The default value is Standard.

### Schedule Options

You can schedule the creation of backup 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>	<p>&lt;day&gt; - specifies a day of the week or a day of a month.</p> <p>Note: it is valid only with Weekly, Monthly schedule types.</p> <p>Valid values for Weekly: MON - SUN and * (every day). SUN is default.</p> <p>Valid values for Monthly: MON - SUN, Weekday, WeekendDay, Day or number 1 - 31. Is required when -MonthDay option is used.</p>
-MonthDay <month_day>	<p>Specifies how often the policy runs.</p> <p>&lt;month_day&gt; - FIRST, SECOND, THIRD, FOURTH, LAST use with -Day option. LASTDAY - the policy runs on the last day of the month.</p>
-StartTime <time>	<p>&lt;time&gt; - specifies the time of day that the policy runs.</p> <p>Note: it is required with a "once" frequency.</p> <p>The default value is the current local time when policy creates.</p>
-EndTime <time>	<p>&lt;time&gt; - specifies the time of day that the policy ends.</p> <p>Note: it is is not valid in a "once" frequency.</p> <p>The default value is the "23:59:59".</p>
-Frequency <n><time_perio d>	<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>
-StartDate <date>	<p>&lt;date&gt; - specifies the date that the policy starts.</p> <p>Note: the default value is the current date.</p> <p>It is optional.</p>
-EndDate <date>	<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>It is optional.</p>

Note: you can optionally specify backup job occur schedule.

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

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