

## Edit Backup Policies CLI Commands

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

### Options to Edit Backup Policies

To edit 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 edit backup policies:

| Option   | Description  |
|--|--|
| <code>-ActionType &lt;action&gt;</code>                                      | Specifies the policy action.<br><br><action> - SqlAgent, SqlSafeBackupAgent, MonitorOnly.<br><br>Note: the default is the SqlAgent action.   |
| <code>-RestrictRun [on off]</code>   | [on off] - Enable/Disable the policy.  |
| <code>-Description<br/>&lt;description&gt;</code>                            | <description> - specifies the policy description.  |
| <code>-NewName<br/>&lt;policy_name&gt;</code>                                | <policy_name> - specifies a new name of the policy.  |
| <code>-IncludeInstance<br/>&lt;instance_name&gt;</code>                      | <instance_name> - the instance name to include in policy.<br><br>Option can be used one or more times. There must be NO OPTIONS between -IncludeInstance and -IncludeDatabases options.<br><br>Note: this parameter is required. |
| <code>-IncludeDatabases<br/>&lt;db_name&gt;<br/>[&lt;db_name&gt; ...]</code> | <db_name> [<db_name> ...] - one or more names of database(s) to include in policy.<br><br>Special keywords: {All}, {AllSystem}, {AllUser}.<br><br>Note: it is required for each -IncludeInstance option.                         |
| <code>-Exclude &lt;db_name&gt;<br/>[&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 editions by using the following options:

| Options   | Description   |
|---|---|
| -MailTo <email> [<email> ...] <on_event> [<on_event> ...] [<frequency>] | <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> |

Note: you can optionally specify email settings.

## Backup Options

The following backup option help you edit backup policies:

| Option                      | Description  |
|-----------------------------|--|
| -BackupType <type> <on off> | <p>Specifies backup type for policy and Enable/Disable it.</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   |
|---------------------------|---|
| -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> |

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|-------------------------------------|--|
| -EncryptionType<br><type>           | The type of encryption used to encrypt the backup.<br><br><type> - {AES128, AES256}.   |
| - BackupEncryptionPassword<br><pwd> | <pwd> - specifies the password for encrypted backup file.  |
| -Verify <yes no>                    | Verifies the backup set after backup is complete.  |
| -IncludeLogins<br><yes no>          | For backup, includes the database logins in the backup file.<br><br>For restore, creates the logins from the backup file on the destination server.<br><br>Note: this parameter is optional.           |
| -GenerateMap<br><yes no>            | Generates maps.<br><br>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.<br><br>Note: for SQL 2005 and later only.<br><br>This parameter is optional. |
| -ContinueAfterError<br><yes no>     | Instructs SQL Server to continue the operation despite encountering errors such as invalid checksums.<br><br>Note: for SQL 2005 and later only.<br><br>This parameter is optional.                     |
| -CopyOnly <yes no>                  | Specifies that the backup does not affect the normal sequence of backups.<br><br>Note: for SQL 2005 and later only.<br><br>This parameter is optional.   |

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|--|--|
| <p>- ReadWriteFileGroups &lt;yes no&gt;</p>                                | <p>Instructs SQL Server to perform a partial backup, which includes the primary filegroup and any read-write secondary filegroups.</p> <p>Note: for SQL 2005 and later only.</p> <p>This parameter is optional.</p>                    |
| <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>-EnableMirroring &lt;yes no&gt;</p>                                     | <p>&lt;yes no&gt; - Enable/Disable mirroring.</p> <p>Note: 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<br/>&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;.<br/>safe</p> <p>where the &lt;timestamp&gt; is in UTC time and in the form of YYYYMMDDHHMM.</p>    |
| <p>-BackupFile<br/>&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<br/>&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;.<br/>safe</p> <p>where the &lt;timestamp&gt; is in UTC time and in the form of YYYYMMDDHHMM.</p> |

|                                   |  |
|-----------------------------------|--|
| -UseAgentAccount<br><yes no>      | Specifies Agent account for accessing to files.<br><br>Note: by default, the policy uses Agent account.<br><br>This parameter is optional. |
| -WindowsUsername<br><domain\user> | <domain\user> - specifies user name, used when writing to remote files during backup.  |
| -WindowsPassword<br><pwd>         | <pwd> - specifies password.  |
| -BucketName<br><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.   |

### Schedule Options

You can schedule the edition of backup policies by using the following options:

| Options                    | Description  |
|----------------------------|--|
| -Schedule<br><occurs_type> | Specifies the schedule type (occurs type).<br><br><occurs_type> - OnDemand, Daily, Weekly, Monthly.  |
| -Every <n>                 | Specifies how often the policy runs. It depends on the schedule type.<br><br>For Daily: every <n> day(s).<br><br>For Weekly: every <n> week(s).<br><br>For Monthly: every <n> month(s).<br><br>Note: the default value is "1". |

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| -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<br><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<br><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<br><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<br><n><time_perio<br>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<br><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<br><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 Edit-Policy`).

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