Configure options for manual backup

The **Options** tab of the SQL Safe Backup wizard allows you to select additional options, such as compression and encryption, to use for the current backup operation.

What types of compression algorithms are available?

- None.
- IntelliCompress, optimize for size (iSize).
- IntelliCompress, optimize for speed (iSpeed).
- Levels 1, 2, 3, 4.

A backup operation using Level 1 completes fastest but achieves the least amount of compression. Level 4 achieves maximum compression but the backup operation may take longer.

For more information about backup compression, see how to choose compression and encryption.

When performing a backup on a SQL Server format, the compression options available are: none and compress backup.

What types of encryption algorithms are available?

- None.
- AES (128-bit).
- AES (256-bit).

If your SQL Server environment requires FIPS compliance, use the AES encryption option. For more information, see ensure FIPS compliance.

When performing a backup on a SQL Server format, the encryption option is not available.

Does encryption require a password?

When you choose to encrypt an archive, you must designate a password. For security reasons, SQL Safe does not store this password. Ensure you remember the password you select.

What are the advanced options?

The following options are available as Advanced Options:

Options	Description

Number of threads	Allows you to specify how many threads you want SQL Safe to use to distribute the backup operation across multiple processors on the target SQL Server computer. Use this setting to optimize backup performance. Select **Auto** to have SQL Safe determine the optimal thread count for your environment.
Remove inactive transaction log entries	Removes all completed transactions from the transaction log after SQL Safe finishes the backup. This option is only available for Log backups.
Generate maps	Generates maps containing metadata for each database included in your backup file. Depending on the number of transactions completed since your last backup, generating maps may impact the performance of the backup operation. Generating maps is optional, but must exist in the backup file for InstantRestore to accept and restore that file. SQL virtual database can attach SQL Safe backup files without the metadata, but the data files improve SQL vdb performance during creation of the virtual database. For more information, see recover objects using SQL virtual database. This option is selected by default.
Include database logins in backup file	Copies SQL login information for the selected databases, including credentials and privileges, when the backup files are written. To help ensure the security of your SQL Server database, SQL Safe encrypts the login information. This option is available for full backups only.

When performing a backup on a SQL Server format, some advanced options are not available for this type of format.

What are the advanced options for SQL Server 2005 and later?

The following options are available as Advanced Options for SQL Server 2005 and later:

Options	Description
Generate checksums	Generates a checksum for the backup file.
Ignore checksum errors	Select this option to ignore any errors from the generated checksum. ***If checksum errors are encountered***, this option indicates that SQL Safe should continue to back up this database.
Read-write filegroups	Specifies a partial backup, which includes the primary filegroup and any read-write secondary filegroups. Read-write filegroups are not supported by SQL virtual database. ***If this option is selected***, the **Generate metadata** option will be disabled. Additionally, backups created with the read-write filegroups option cannot be used by SQL virtual database to create virtual databases.

What does the option Generate Script do?

You can generate a T-SQL or CLI script that will execute the backup you have defined in the wizard. For more information about generating scripts, see how script generation works.

Once you configure the options for your backup, click **NEXT** to configure notifications.