

# SQL Package Extract Action



The SQL Package actions in Continua are a wrapper around the SqlPackage command line. If you're having trouble using any of the SQL Package actions, please refer to the [Command Line Reference](#).

The SQL Package Extract action is a [premium action](#) that creates a database snapshot (.dacpac) file from a live SQL Server or Azure SQL Database.

## SQL Package Extract

SQL Package Extract Action

Premium

SQL Package Extract

Source

Properties

Options

Environment

Comments

Required Field

Name

SQL Package Extract

☒ Enabled

Target File

SWorkspace\extract.dacpac

Path to a target data-tier application package file to save the live database snapshot to. This should have the extension .dacpac. [/TargetFile]

☒ Overwrite existing files. [/OverwriteFiles]

Using

SqlPackage.2019

Validate

Save

Cancel

Help

### Name

A friendly name for this action (will be displayed in the [actions workflow area](#)).

### Enabled

Determines if this action will be run within the relevant stage.

### Target File

The path to a target data-tier application package file to save a logical copy of the database schema and data to. This should have the extension .dacpac. [/TargetFile]

### Overwrite Files

Whether the action should overwrite the file it is generating. [/OverwriteFiles]

### Using

The Using drop down is populated with any property collector whose namespace matches the pattern defined by the SQL Package Extract action. The pattern for this action is `^SqlPackage\.*`

If you create a property collector for this action, make sure you select the **Path Finder Plugin** type and give it a name that will match the pattern above in blue. Example names listed [here](#), search the table's Plugin column for "SQL Package Extract".

For more in-depth explanations on property collectors see [Property Collectors](#).

Alternatively, you can select the **Custom** option from the Using drop down list and specify a path in the resulting input field that will be displayed. Please read [Why it's a good idea to use a property collector](#) before using this option.

## Source

### Source Type

Whether to use a connection string or specify each part of the connection separately.

### Connection String

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Source Type

Connection string

Required Field

Connection String

A valid SQL Server/Azure connection string to connect to the source database. [/SourceConnectionString]

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### Connection String

The SQL Server/Azure connection string to connect to the database. [/SourceConnectionString]

An example of a valid connection string is:

```
Provider=SQLNCLI11;Password=myPassword;User ID=[username]@[servername];Initial Catalog=databasename;Data Source=tcp:[servername].database.windows.net;
```

### Connection Properties

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Required Field

Source Type

Connection properties

Server Name

SERVER\INSTANCE

The name of the server hosting the source database. [/SourceServerName]

Database Name

Production

The name of the source database. [/SourceDatabaseName]

Authentication Type

Username and password

Username

Password

☐ Use SQL encryption. [/SourceEncryptConnection]

☐ Trust server certificate

Tick to bypass SSL certificate validation. [/SourceTrustServerCertificate]

Connection Timeout

The timeout for establishing a connection to the database in seconds. Leave blank to use the default of 15 seconds. [/SourceTimeout]

Validate

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### Server Name

The name of the server that hosts the database. The server should be accessible by the agent running the action. [/SourceServerName]

### Database Name

The name of the source database. [/SourceDatabaseName]

### Authentication Type

The authentication method. Either by using a Username and Password or Windows Authentication.

### Username and Password

#### Username

The name of the user who has permissions to perform the operation on the database. [/SourceUser]

#### Password

The password for the user connecting to the database. [/SourcePassword]

### Windows Authentication

If this is selected, windows authentication is used to gain permission to perform the operation on the database.

### Use SQL encryption

If this is ticked, SQL encryption is used. [/SourceEncryptConnection]

### Trust server certificate

If this is ticked, SSL certificate validation is bypassed. [/SourceTrustServerCertificate]

Connection Timeout

The timeout for establishing a connection to the database in seconds. Leave blank to use the default of 15 seconds. [/SourceTimeout]

Properties

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Required Field

Properties

property\_name=property\_value

Specify one property per line. [/p]

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Properties

Specify one property per line in the format of **property\_name=property\_value**. The full list of properties can be found at [SqlPackage.exe](#). [/p:]

Options

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Environment

Comments

Required Field

Logging Verbosity

Normal

Specifies the amount of information to display in the build log. [/Quiet|/Diagnostics]

Command Timeout

The command timeout in seconds when executing queries against SQL Server. Leave blank to use the default of 30 seconds. [/p:CommandTimeout]

Max Parallelism

8

Degree of parallelism for concurrent operations running against a database. [/MaxParallelism]

Additional Arguments

Any extra command-line parameters for SQLPackage.exe.

Timeout (in seconds)

0

How long to wait for the action to finish running before timing out. Leaving this blank (or zero) will default to 86400 seconds (24 hours).

☐ Treat failure as warning

Tick to continue build on failure marking the action with a warning status.

☐ Ignore warnings

Validate

Save

Cancel

Help

## Logging Verbosity

Specifies the amount of information to display in the build log. [/Quiet | /Diagnostics]

## Command Timeout

The command timeout in seconds when executing queries against SQL Server. Leave blank to use the default of 30 seconds. [/p:CommandTimeout=]

## Max Parallelism

Degree of parallelism for concurrent operations running against a database. [/MaxParallelism]

## Additional Arguments

Any extra command-line parameters for SQLPackage.exe. The full list of extra arguments can be found at [SqlPackage.exe](#).

## Timeout (in seconds)

How many seconds to wait for the action to finish before timing out. The default is 86400 seconds (24 hours).

## Treat failure as warning

Tick to continue build on failure marking the action with a warning status.

## Ignore warnings

If this is ticked, any warnings logged will not mark the action with a warning status.

## Environment

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Comments

Environment Variables

Required Field

variable\_name=variable\_value

Specify one name & value pair per line.

☒ Log environment variables

☐ Generate system environment variables

Tick this to set new environment variables prefixed with 'ContinuaCI.' for system objects and variables.

Validate

Save

Cancel

Help

## Environment Variables

Multiple environment variables can be defined - one per line. These are set before the command line is run.

### Log environment variables

If this is ticked, environment variable values are written to the build log.

### Generate system environment variables

Tick this checkbox to set up a list of new environment variables prefixed with 'ContinuaCI.' for all current system expression objects and variables.

### Mask sensitive variable values in system environment variables

This checkbox is visible only if the 'Generate system environment variables' checkbox is ticked.

If this is ticked, the values of any variables marked as sensitive will be masked with \*\*\*\* when setting system environment variables. Clear this to expose the values.