

# **Sqitch-configuration - Hierarchical engine and target configuration - V1.0.0**

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## Description

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### Simple description

The specification of database targets is core to Sqitch database change management. A target consists of a database connection URI, a plan file, change script directories, a registry schema or database name, and the path to a database engine command-line client. Sqitch determines the values for these attributes via a hierarchical evaluation of the runtime configuration, examining and selecting from these values:

1. Command-line options
2. Target-specific configuration
3. Engine-specific configuration
4. Core configuration
5. A reasonable default

This document explains how this evaluation works, and how to use the `init`, `config`, `engine`, and `target` commands to configure these values for various deployment scenarios

## Project Initialization

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Typically, the first thing done with Sqitch is using the `'init'` command to start a new project. The most important aspect is to configure the database engine right at the beginning to ensure proper setup. For example, starting a project called "widgets" to manage PostgreSQL databases.

## Global Configuration

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1. Open your terminal.
2. If the `psql` client is not in the path, specify its location: `sqitch config --user engine.pg.client /usr/local/pgsql/bin/psql`
3. This command sets the PostgreSQL client for all Sqitch projects you manage on your host.
4. To configure this setting for all accounts on your host, run: `sqitch config --system engine.pg.client /usr/local/pgsql/bin/psql`
5. This will add the values to the global Sqitch configuration file located at `sqitch --etc-path/sqitch.conf`.

## Engine Configuration

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1. Create a subdirectory (e.g., `pg`) and move PostgreSQL-related files there. Create a subdirectory (e.g., `pg`) and move PostgreSQL-related files there.
2. Open your terminal.
3. Add the PostgreSQL engine to the configuration: `sqitch engine add pg --client /usr/local/pgsql/bin/psql`
4. Set the top directory for the PostgreSQL engine: This command configures Sqitch to use the newly-created `pg` directory for PostgreSQL-related scripts.
5. To verify and view all the settings for the PostgreSQL engine, run: `sqitch engine show pg`
6. The `show` action displays the fully-evaluated configuration, showing the top directory and client settings.
7. To add SQLite support, run the command: `sqitch engine add sqlite --client /path/to/sqlite3`