

Simplify Secrets Management

The Challenge

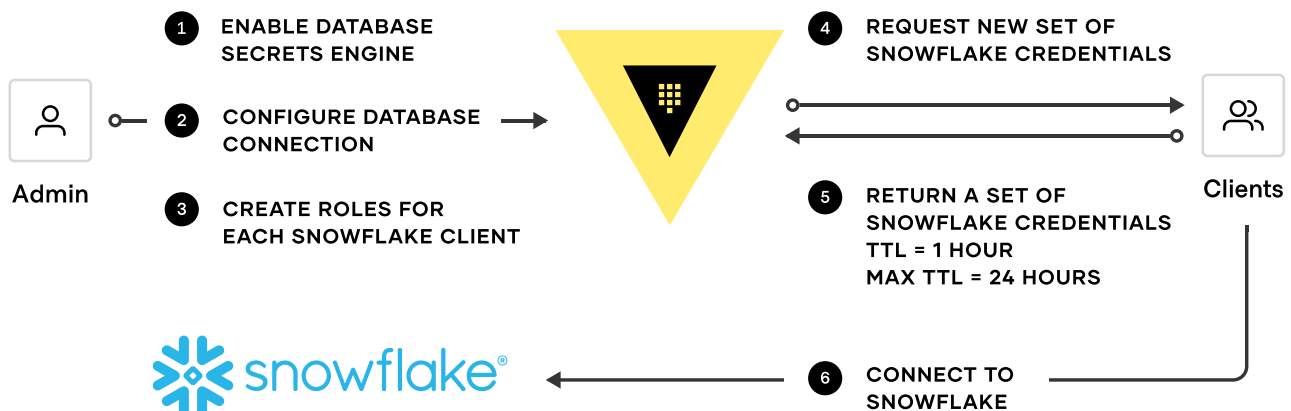
Simplify secrets management for your Snowflake cloud databases with HashiCorp Vault.

The HashiCorp Vault Snowflake Secrets Engines make it easy to manage and control access for database users and API keys programmatically to reduce security risk and increase developer productivity.

Product Integration

Snowflake is one of the supported plugins for the database secrets engine. This plugin generates database credentials dynamically based on configured roles for Snowflake hosted databases, and also supports Static Roles. [See the database secrets engine docs](#) for more information about setting up the database secrets engine.

The HashiCorp Vault Snowflake Secrets Engine, supports root credential rotation as well as dynamic and static roles (these are not to be confused with roles in Snowflake such as accountadmin). The Snowflake secrets engine supports the setting of default password policies so the generated passwords will meet an organization's password requirements for both static and dynamic roles.



How It Works

While many Snowflake customers may have single sign-on (SSO) set up for end users, they may still have some passwords to manage in Snowflake. This plugin can manage the lifecycle and access to those passwords with HashiCorp Vault.

Root accountadmin user:

- Customers will want at least one user with an accountadmin role in Snowflake that can authenticate using a username and password in Snowflake. This user is required to fix SSO issues. Since this is a privileged user with the highest level of access, the password of this user needs to be protected. Vault can be used to manage this password and rotate it on demand in regular intervals.

Service user accounts:

- Snowflake users may have ETL and other automation tools that connect to Snowflake using a service account user. If these tools support username and password authentication only, then Vault can be used to generate dynamic, short-lived credentials for these service user accounts.

Use Cases

Simplify Secrets Management

Generate and manage secrets for Snowflake database users and programmatic API keys with HashiCorp Vault.

Standardize and Control Workflows

Manage access to Snowflake databases in the same way as other cloud tools and services with HashiCorp Vault.

Cloud-First and Platform Agnostic

HashiCorp Vault and Snowflake make it easy to programmatically manage secrets across cloud providers and platforms.

Company Info

Snowflake delivers the Data Cloud — a global network where thousands of organizations mobilize data with near-unlimited scale, concurrency, and performance. For more information, visit www.snowflake.com

