Sectigo Certificate Manager: HashiCorp Vault PKI Plugin

Issue and Manage Both Publicly-Trusted and Private Certificates in HashiCorp Vault with Sectigo Vault PKI Plugin

DevOps teams rely on HashiCorp Vault to make it easy to generate and store private SSL/TLS certificates for containers on demand. Yet, these private certificates aren't trusted by popular browsers when external-facing applications are deployed into production. Furthermore, engineers cannot issue code signing certificates through the same interface and your DevSecOps team has difficulty enforcing corporate security policy and maintain visibility of private certificates issued by HashiCorp's built-in CA.

To avoid reverting to cumbersome processes rife with workarounds and rogue certificates that exposed applications to risk, DevOps teams need a third-party public CA that seamlessly integrates with HashiCorp Vault to:

- ✓ Issue both private and publicly-trusted certificates quickly and at scale
- ✓ Manage container certificates and sign code automatically through a single pane of glass platform
- ✓ Provide DevSecOps the visibility required to enforce certificate policies and remain compliant

Sectigo can help

Sectigo can help. Sectigo HashiCorp Vault PKI plugin easily requests and issues both publicly-trusted and private certificates at the scale and speed you need for your DevOps environment. The Sectigo HashiCorp Vault integration provides a seamless solution using the same Vault processes you use every day to enroll, collect, revoke, renew, and replace public SSL and private container authentication certificates issued by Sectigo Certificate Manager.

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Figure: Public and Private certificates are managed using the Sectigo HashiCorp Vault PKI plugin
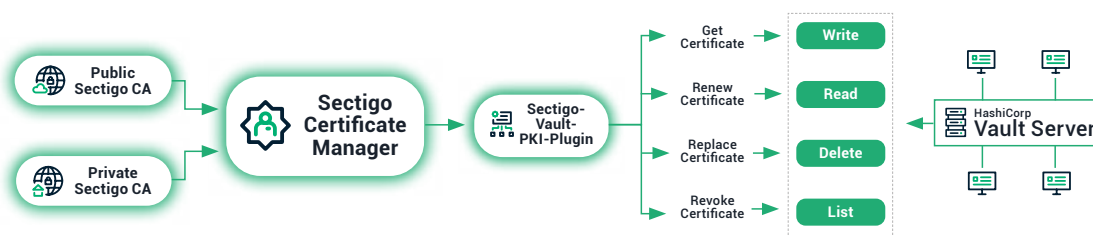
Extending HashiCorp Vault Using Sectigo Certificate Manager

Integrating Sectigo HashiCorp Vault PKI plugin and Sectigo Certificate Manager, your DevOps team continues to leverage the benefits of HashiCorp Vault while incorporating compliant certificate processes into your normal workflow, and also benefitting from:

- **Publicly-trusted certificate issuance:** Sectigo HashiCorp Vault PKI plugin supports the issuance of new SSL/TLS certificates and container client certificates in HashiCorp Vault using Sectigo public CA.

- **Private certificate issuance:** Sectigo HashiCorp Vault PKI plugin enables issuance and storage of HashiCorp private certificates, Sectigo Private CA certificates, or your own existing private root CA certificates that support RSA 2048, 3072, and 4096-bit private key and CSR generation.

- **Code signing certificates:** Sectigo Certificate Manager automates the deployment and management of code signing certificates as well as all of the types of certificates you use from one dashboard.

- **Automated certificate lifecycle management:** The Sectigo HashiCorp Vault integration provides a seamless solution for the automated enrollment, collection, revocation, renewal, and replacement of public SSL and private container authentication certificates issued by Sectigo Certificate Manager.

- **Enhanced visibility and policy enforcement:** Sectigo Certificate Manager ensures compliance with certificate policies before issuance as well as automates discovery and tracking of the large quantities of short lifetime container certificates deployed throughout your DevOps environment.

- **Direct integration with Vault:** Engineers can interact with Vault and pass configuration parameters directly through the Vault CLI tool or programmatically through the exposed API endpoints using cURL.

- **Private CA setup:** If you need to stand up a new Private CA, Sectigo Private CA and Sectigo Certificate Manager make it easy to set up your Private CA and its topology instantly through a simple to use UI.

With Sectigo HashiCorp Vault PKI plugin, your DevOps team gets programmatic issuance and management of both private and publicly-trusted certificates for containers and code signing using HashiCorp Vault as they usually do, and your DevSecOps team gets the visibility needed to enforce certificate policies and the peace of mind that critical business systems remain compliant.

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