



**ENTRUST**



# Entrust and HashiCorp deliver HashiCorp highly secure centralized enterprise secrets management

Entrust hardware security modules wrap and protect master keys used by HashiCorp centralized secret management solution

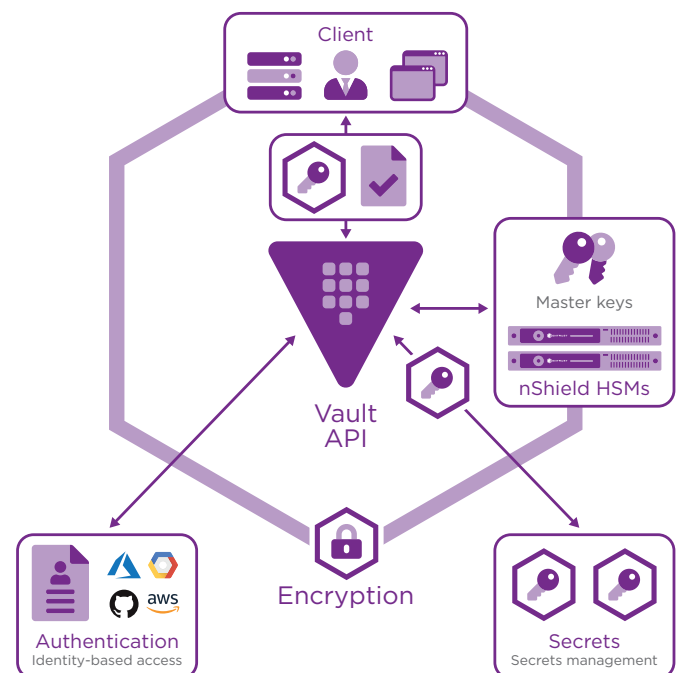
## HIGHLIGHTS

- Enable secure generation, encryption, and decryption of secret assets
- Support organizations' computing needs across myriad of environments
- Mitigate risks created by centralizing/aggregating secrets management
- Address the regulated market needs for reduced risks and compliance
- Provide a FIPS 140-2 Level 3 and Common Criteria EAL4+ root of trust

## The problem: secrets asset management lacks consistent security policies

As more enterprise applications offer their own secure repositories to store secret assets, organizations are uncovering silos, each holding different secrets with varying lifecycle management and protection policies. Unless centrally managed, secrets such as tokens, passwords, certificates, and API keys, can exist in various locations. Not knowing where these are maintained, and applying

inconsistent management policies, creates risks and audit challenges. Centralizing secrets management across the organization enables uniform policy enforcement and facilitates auditing and regulatory compliance, but requires high security.



nShield® hardware security modules (HSMs) secure the key used to unseal HashiCorp Vault by wrapping the Vault master key that encrypts the organization's secrets, credentials, and other confidential assets.

**LEARN MORE AT [ENTRUST.COM/HSM](https://www.entrust.com/hsm)**



# Delivering highly secure centralized enterprise secrets management

## The challenge: managing risks across a centralized secrets management architecture

Centralizing secrets management across the organization enables consistent security policy enforcement and eliminates secrets sprawl. However, aggregation of secrets in one place requires high security. Establishing a root of trust that protects the centralized secrets management repository is critical to enable enterprise access to computing resources across a variety of on-premises and multi-cloud environments.

## The solution: HashiCorp Vault centralized secrets management with Entrust high security nShield HSM root of trust

HashiCorp Vault brings organizational secrets into a single centralized secure repository, enabling consistent lifecycle management and policy compliance. The solution ensures organizations can protect their secrets while enabling applications to access data. By centrally storing, accessing, and distributing dynamic secrets, HashiCorp Vault keeps applications and the data they process secure, while ensuring that a consistent security policy can be easily audited for compliance.

To mitigate potential risks created by aggregating secrets under a centralized management model, HashiCorp Vault integrates with Entrust nShield Connect on-premises HSMs and nShield as a Service cloud-based HSMs to establish a robust root of trust protecting the Vault master keys. The combined solution eliminates secrets sprawl with centralized controlled access, based on trusted identities and policy enforcement.

## Why use Entrust nShield HSMs with HashiCorp Vault?

Encryption keys handled outside the cryptographic boundary of a certified HSM are significantly more vulnerable to attack, which can lead to compromise of critical keys. HSMs are the only proven and auditable way to secure valuable cryptographic material. Entrust nShield HSMs integrate with HashiCorp Vault to provide comprehensive logical and physical protection of master keys used to unseal the Vault content. The combination delivers an auditable method for enforcing security policies and facilitate regulatory compliance.

Entrust nShield Connect and nShield as a Service enable HashiCorp customers to:

- Secure the Vault master key within a carefully designed cryptographic boundary that uses robust access control mechanisms, so the key is only used for its authorized purpose
- Ensure master key availability by using sophisticated management, storage, and redundancy features to guarantee it is always accessible when needed by HashiCorp Vault
- Deliver superior performance to support demanding multi-cloud applications



# Delivering highly secure centralized enterprise secrets management

## Entrust HSMs

Entrust nShield HSMs are among the highest-performing, most secure and easy-to-integrate HSM solutions available, facilitating regulatory compliance and delivering the highest levels of data and application security for enterprise, financial and government organizations.

Our unique Security World key management architecture provides strong, granular controls over access and usage of keys.

## HashiCorp

HashiCorp is a leader in multi-cloud infrastructure automation software. The company's software suite enables organizations to adopt consistent workflows to provision, secure, connect, and run any infrastructure for any application. HashiCorp open source tools are broadly adopted by Global 2000 companies. Enterprise versions of the products enhance the open source tools with features that promote collaboration, operations, governance, and multi-data center functionality.

[www.hashicorp.com](http://www.hashicorp.com)

## Learn more

To find out more about Entrust nShield HSMs visit [entrust.com/HSM](http://entrust.com/HSM). To learn more about Entrust's digital security solutions for identities, access, communications and data visit [entrust.com](http://entrust.com)

To find out more about  
Entrust nShield HSMs

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**entrust.com/HSM**

## ABOUT ENTRUST CORPORATION

Entrust keeps the world moving safely by enabling trusted identities, payments and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.



Learn more at

**entrust.com/HSM**



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