



ENTRUST



Nutanix Prism Central Integration with Entrust KeyControl and nShield HSMs

Solution enables high assurance lifecycle management of keys protecting data at rest within virtual machine (VM) cluster, on premises, and across multi-cloud deployments

HIGHLIGHTS

- Provides intuitive management of storage and computing infrastructure
- Enables granular control of users performing actions on VM clusters
- Delivers data-at-rest encryption to help satisfy regulatory requirements
- Leverages KMIP open standard for cryptographic key management
- Facilitates auditing for compliance with data security regulations

The Problem:

Widespread use of VM clusters processing sensitive information require data-at-rest security across on-premises and cloud-based deployments

As organizations' computing needs grow, they look to future-proof operations and lower data storage costs through

expanding use of virtualized environments. The critical need to encrypt storage has led to a proliferation of cryptographic keys whose lifecycles need to be managed. As organizations also look to multi-cloud deployments to achieve greater flexibility and business agility, they struggle to control their critical keys that underpin the security of their applications and data.

The Challenge:

Managing increasing volumes of keys and keeping data at rest secured to help achieve compliance with regulatory mandates

While growing use of encryption for data at rest across virtualized environments is a welcomed security practice, the protection of associated keys used to encrypt the data often receive less attention. Lack of clear ownership and scalable management policies, as well as the scarcity of skilled personnel needed to look after key lifecycles, undermines organizational efforts to protect data at rest. A comprehensive approach to cryptographic key lifecycle management, including automated policy enforcement, is required in order to comply with increasing government regulations and industry standards.



Learn more about our HSMs at [entrust.com/HSM](https://www.entrust.com/HSM)



Nutanix Prism Central with Entrust KeyControl and nShield HSM

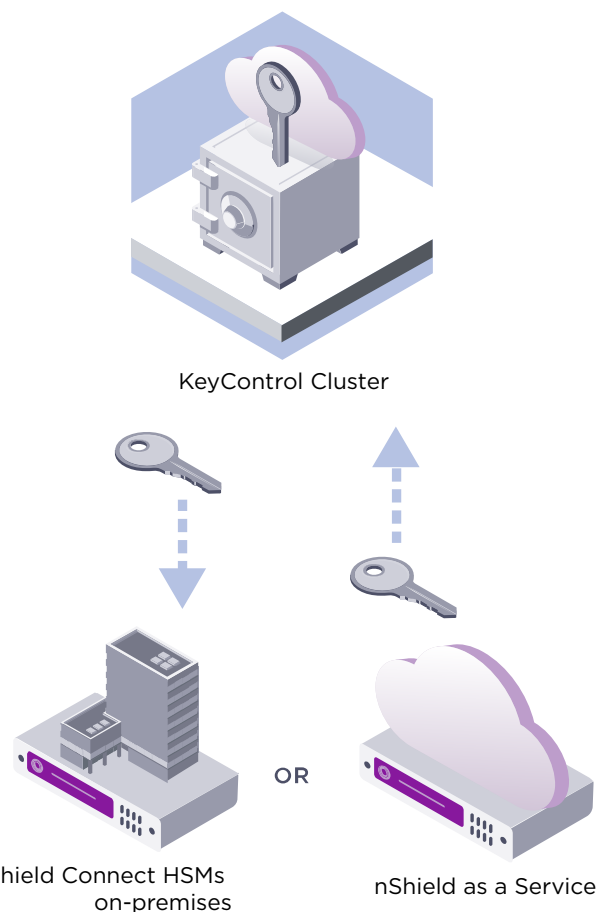
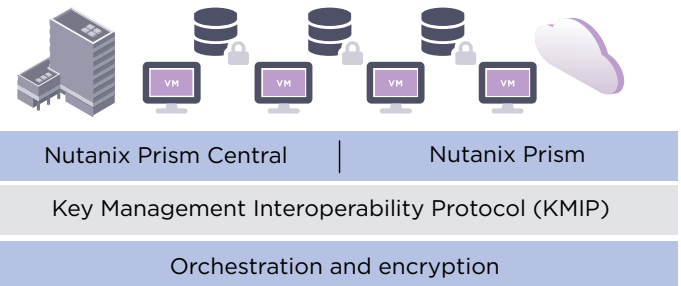
The Solution:

Nutanix Prism Central unified VM cluster management interfaces with Entrust KeyControl (formerly HyTrust) key management software and optional Entrust nShield® hardware security module (HSM)

Nutanix Prism is an end-to-end consumer-grade management and operations solution for virtualized data center environments that combines administration, reporting, and intelligent automation for IT operations. Prism Central provides a unified interface for managing VM clusters globally, from a single management interface. Prism Central allows customers to manage different clusters across separate physical locations on one screen, and offers an organizational view into the distributed environment.

VM clusters are typically deployed in a variety of customer environments requiring different levels of security, including sensitive classified environments. Nutanix data-at-rest encryption for VM clusters protects data at rest and facilitates compliance with regulatory requirements.

Integration of Nutanix Prism Central with Entrust KeyControl key management software adds a certificate authority (CA) generating certificate requests and managing encryption keys. Using the Key Management Interoperability Protocol (KMIP) open standard, KeyControl establishes and enforces key use policies and manages the lifecycle of keys used to protect encrypted data at rest. With the added option to integrate Entrust nShield HSMs, the solution delivers high assurance security with a certified root of trust.



Nutanix Prism Central integrates with Entrust KeyControl and nShield HSMs (on-premises or as a service) to deliver high assurance lifecycle management of keys protecting data at rest in VMs and self-encrypting drives.



Nutanix Prism Central with Entrust KeyControl and nShield HSM

A Closer Look:

Why use Entrust KeyControl with Nutanix Prism Central?

KeyControl manages encryption keys across VMs and self-encrypting drives, and can scale to support increasingly larger deployments. Integration of Entrust KeyControl with Nutanix Prism Central:

- Manages keys used to encrypt data at rest using the KMIP open standard
- Enforces key use policies by separating security and administrative tasks

Why add Entrust nShield HSMs to the solution?

For enhanced security, Prism Central can integrate with Entrust nShield HSMs to establish a FIPS 140-2 Level 3 and Common Criteria EAL4+ certified root of trust for critical certificates and encryption keys. The option to add a certified nShield HSM enables the combined solution to provide a hardened, tamper-resistant environment for robust certificate and key generation. Using HSMs as part of an enterprise encryption and key management strategy is considered a best practice among cybersecurity professionals. Addition of nShield HSMs to the integrated solution:

- Provides tamper-resistant environment for the generation of high entropy cryptographic keys
- Enforces key use policies with dual controls to ensure no single individual can effect changes
- Delivers certified root of trust to facilitate auditing and compliance with security regulations

The integration of Nutanix Prism Central with Entrust KeyControl key management

software and Entrust nShield HSMs ensures key availability by using sophisticated management, storage, and redundancy features to guarantee keys are always accessible to the application when needed.

About Entrust KeyControl with nShield HSMs

Entrust KeyControl is a scalable and feature-rich KMIP server that simplifies key management for encrypted workloads. KeyControl can be upgraded to Entrust DataControl to enable multi-cloud workload encryption and policy-based key management. The solution ensures the enforcement of key use policies, even when moving across private and public cloud platforms. KeyControl can integrate with Entrust nShield HSMs (on premises or as a service) to enable high assurance lifecycle management of keys. nShield HSMs facilitate regulatory compliance, delivering the highest levels of data and application security for enterprise, financial, and government organizations. Learn more at [entrust.com/HSM](https://www.entrust.com/HSM)

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About Nutanix

Nutanix empowers enterprise customers to use cloud platforms in a simple, flexible, and cost-efficient manner, offering freedom of choice to enable true hybrid and multi-cloud computing. Nutanix delivers the performance, resilience, and scalability to power all workloads – virtualized, container-based, and bare metal – in customers' clouds of choice. Learn more at [nutanix.com](https://www.nutanix.com)

Learn more about our HSMs at [entrust.com/HSM](https://www.entrust.com/HSM)

To find out more about
Entrust nShield HSMs

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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



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