Entrust KeyControl

Multi-cloud key management for encrypted workloads

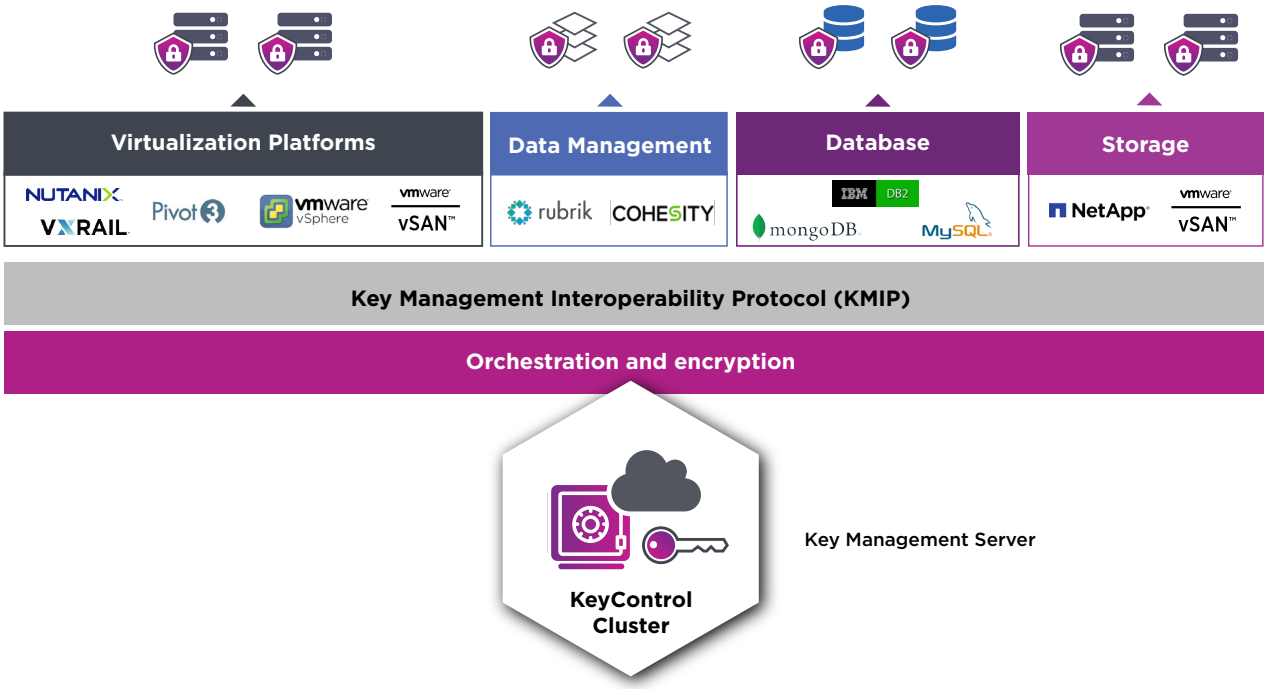
Managing the security of workloads in a virtualized environment is a complex challenge for administrators

Encrypting workloads significantly reduces your risk of data breaches. However, managing the keys for tens of thousands of encrypted workloads is nontrivial. To ensure strong data security, keys have to be rotated frequently, and transported and stored securely. Along with the high demand for strong data security, there is an ever-increasing business need to meet regulatory requirements for Payment Card Industry Data Security Standard (PCI DSS), Health Insurance Portability and Accountability Act (HIPAA), National Institute of Standards and Technology (NIST) 800-53, and General Data Protection Regulation (GDPR) compliance in virtual environments..

With Entrust KeyControl, businesses can easily manage encryption keys at scale. Using Federal Information Processing Standards (FIPS) 140-2 certified encryption algorithms, KeyControl simplifies management of encrypted workloads by automating the lifecycle of encryption keys; including key storage, backup, distribution, rotation, and key revocation.

HIGHLIGHTS

- Deliver enterprise scale and availability, supporting Key Management Interoperability Protocol (KMIP)-compatible encryption agents
- Upgradable to Entrust DataControl for complete, multi-cloud workload encryption
- Provides FIPS 140-2 Level 1 certified assurance with optional upgrade to FIPS 140-2 Level 3 through seamless integration with Entrust nShield hardware security module (HSM)



Learn more about KeyControl at entrust.com

Entrust KeyControl

KEY FEATURES & BENEFITS

Universal key management for KMIP clients

KeyControl is a scalable and feature-rich KMIP server that simplifies key lifecycle management for encrypted workloads. It serves as a KMS for VMware vSphere and vSAN encrypted clients, and a wide range of other KMIP compatible products such as NetApp, Nutanix, Pivot3, DB2, MySQL and MongoDB.

KMIP multi-tenancy support

Allows administrators to isolate different tenant environments for security and compliance.

Enterprise scalability and performance

KeyControl manages the encryption keys for all of your virtual machines and encrypted data stores and can scale to support thousands of encrypted workloads in large deployments. Up to eight key managers can be added to a cluster.

Enhanced multi-cloud workload encryption

KeyControl is easily upgraded to Entrust DataControl, which enables multi-cloud workload encryption and policy-based key management. It ensures policies are enforced, even when moving across cloud platforms – from installation, upon boot, until each workload is securely decommissioned.

Platform support

- Private cloud platforms: vSphere, vCloud Air (OVH), VCE, VxRail, Pivot3, NetApp, Nutanix
- Public cloud platforms: AWS, IBM Cloud, Microsoft Azure, VMware Cloud (VMC) on AWS, Google Cloud Platform (GCP)
- Hypervisor support: ESXi, Xen, AWS, Azure, KVM, Google Cloud Platform

Operating system support

CentOS, Red Hat Enterprise Linux, Ubuntu, SUSE Linux Enterprise Server, Oracle Linux, AWS Linux, Windows Server Core 2012 and 2016, Windows Server 2012 and 2016, Windows 7, 8, 8.1, and 10

Deployment media

ISO, OVA (Open Virtual Appliance), AMI (Amazon Web Services marketplace), or VHD (Microsoft Azure marketplace)

Technical specifications

- VMware certified KMS for vSphere 6.5, 6.7, and 7.0; vSAN 6.6, 6.7, and 7.0; and vSphere Trust Authority 7.0
- Supports KMIP 1.1 – 3.0
- High availability (HA) support with active-active cluster (up to 8 KMS servers per cluster)
- FIPS 140-2 Level 1 Certified
- FIPS 140-2 Level 3 compliance via Entrust nShield HSM on premises or as a service
- Enables the use of Virtual Trusted Platform Module (vTPM) cryptoprocessors in your VMs
- Supports the use of TLS 1.2 between all registered clients

Entrust KeyControl is part of a suite of data encryption, multi-cloud key management, and virtual machine and containerized workload security policy compliance products. See table on next page for details.

Entrust KeyControl

ENTRUST PRODUCT	DESCRIPTION	LICENSING/DEPLOYMENT
KeyControl BYOK	For generating and bringing your own cryptographic keys to AWS, Microsoft Azure, or Google Cloud Platform	Licensed standalone or can be deployed with KeyControl and/or DataControl
KeyControl	Enterprise encryption key management for KMIP-enabled workloads	Licensed standalone or can be deployed with KeyControl BYOK and/or DataControl
DataControl	For fine-grained, agents-based control and encryption key management of virtual machine encryption in multi-cloud environments	Licensed standalone or can be deployed with KeyControl and/or KeyControl BYOK
CloudControl	For automated workload security policy enforcement and compliance in virtualized and containerized environments protecting sensitive data against misconfigurations in the cloud.	

Learn more at
entrust.com

ENTRUST

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