

ENTRUST KEYCONTROL

Managing and automating your key lifecycle in
Microsoft Azure & AWS



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SECURING A WORLD IN MOTION

BUSINESS PROBLEM:

Maintain control of your keys in the cloud

Organizations want to migrate workloads to the cloud but prefer to retain control over the keys used by their Cloud Service Providers (CSPs)

- › Cryptographic keys are used by the applications you use in the cloud
- › Security-conscious organizations want to own and control these keys throughout their lifecycle
- › CSP generated keys are sticky and can make migration to other CSPs hard
- › CSPs can be opaque – isn't it more reassuring when you know where and how your keys have been created?
- › Organizations want to automate their key management process from inception through to retirement



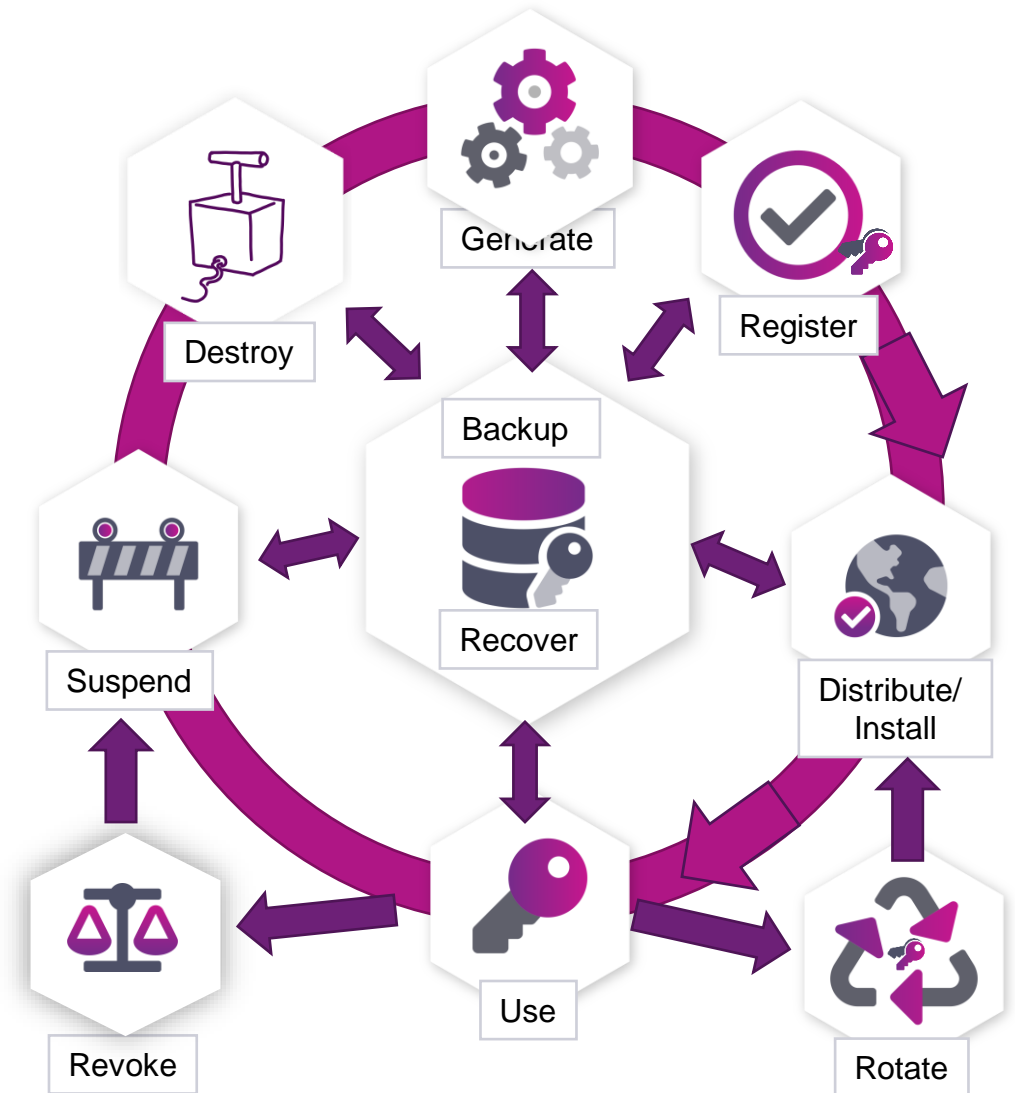
Entrust KeyControl Bring Your Own Keys (BYOK) to Multi-Cloud Environments

- Not just Bring Your Own Key (BYOK)!
 - Management and Automation
- Full granular control and key lifecycle management for CMKs (customer master keys) in Microsoft Azure and AWS



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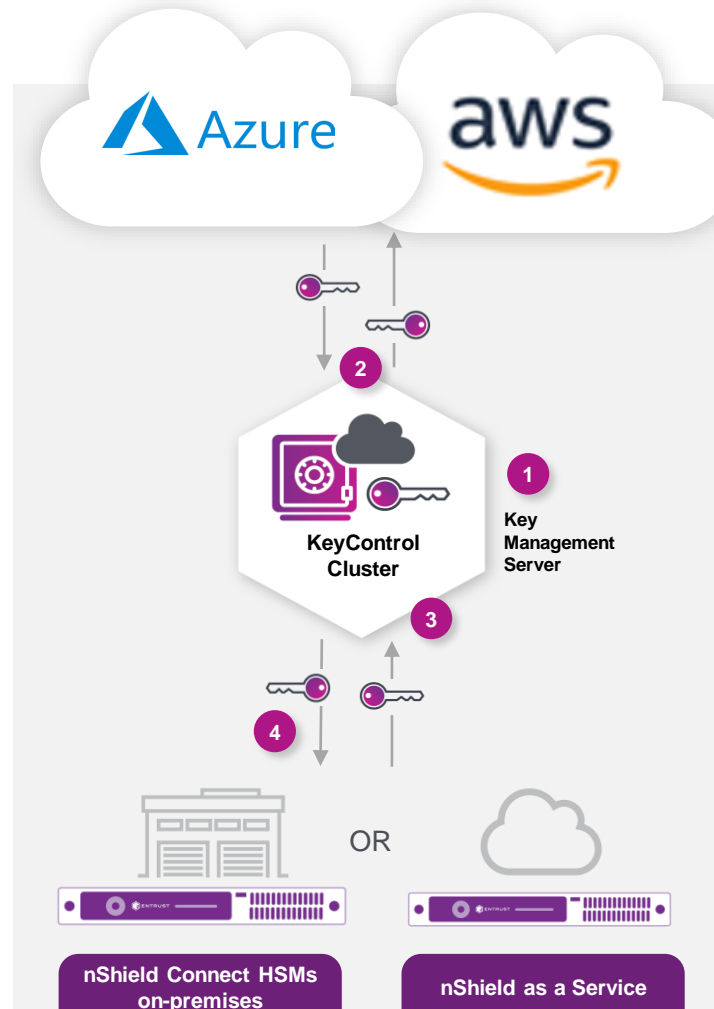
- Not just BYOK!
- Full control and key lifecycle management for CMKs (customer master keys) in Azure and AWS
- FIPS 140-2 certified
- Customer generated and native Azure and AWS cryptographic keys
- Unified single pane of glass, graphical user interface (GUI)



Entrust KeyControl/DataControl Key lifecycle management and automation in multi-cloud environments



- Simplifies process of creating customer's keys and exporting to Azure and AWS
- Leverages nShield HSMs for creating cryptographic material
- Full control over Customer's Master Key in Microsoft Azure and AWS
- Keys backed up (and recoverable) in KeyControl, Key Escrow
- Granular Key lifecycle management
 - expiry actions - disable, delete key material
 - key rotation
- Unified key management experience via GUI/ tool – single pane of glass
 - Manage native Azure, AWS keys and
 - KMS generated keys



- 1 Key Lifecycle management enables fine grained control of:
 - Key rotation
 - Key expiry
 - Key Deletion
- 2 Common Management GUI/ interface
 - **Simple, unified GUI management experience for:**
 - Keys originated in KeyControl and native Microsoft & AWS keys
- 3 Audit Logging
 - Generated in KeyControl
- 4 nShield HSM
 - FIPS 140-2 Level 3 certified
 - Strong entropy source for key generation

Next Steps

- ▶ KeyControl data sheet available [here](#)
- ▶ Key Management for dummies guide [here](#)
- ▶ Sign up for a free KeyControl Trial [here](#)
- ▶ To find out more about Entrust KeyControl:
 - info@entrust.com
 - entrust.com/contact



Entrust KeyControl
Universal 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 GDPR compliance in virtual environments. With Entrust KeyControl (formerly HyTrust), businesses can easily manage encryption keys at scale. Using Federal Information Processing Standards (FIPS) 140-2 compliant encryption, KeyControl simplifies management of encrypted workloads by automating and simplifying the lifecycle of encryption keys, including key storage, distribution, rotation, and key revocation.

HIGHLIGHTS

- Deliver enterprise scale and availability, supporting Key Management Interoperability Protocol (KMIP)-compatible encryption agents
- Upgradeable to Entrust DataControl for complete, multi-cloud workload encryption
- Provide seamless integration with FIPS 140-2 Level 3 Entrust nShield® Hardware Security Modules (HSMs)
- Validated by VMware® to support vSphere® and vSAN® virtualization platforms



Learn more about KeyControl at entrust.com



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