



# MULTI-CLOUD SECURITY SOLUTIONS

New multi-faceted, integrated platform helps organizations meet the demands for securely managing multi-cloud deployments and decentralizing risks while centralizing visibility for compliance.

## Overview

Entrust is the go-to expert for multi-cloud deployments. We help organizations navigate the increasing complexities of securely managing the deployment of, and access to, virtual machines (VMs) and containers across multi-cloud deployments – all while meeting compliance requirements.

As a trusted advisor, leveraging expertise in data protection and encryption, certificate solutions, and identity, Entrust is delivering an enterprise-grade platform combining cryptographic asset management for VMs and containers. The platform provides encryption, integrity protection, environment hardening, and robust compliance management to prevent policy violations and inadvertent misconfigurations – which can lead to malicious attacks or unplanned outages. The Entrust platform ensures organizations have a robust cloud security posture that can be established and maintained.

## The Challenge

As organizations migrate more operations to multi-cloud environments, consistent security and compliance is becoming increasingly difficult. Problems often encountered include managing the security of VMs and containers across their lifecycle and ensuring deployment and access is in line with policy. Preventing that misconfigurations do not lead to malicious attack is critical as multi-cloud deployments scale. Ensuring consistent security policies are applied across the board by administrative teams tasked with deploying and maintaining large scale, dynamic virtual machine and container environments.

Establishing and maintaining a robust and consistent security posture across diverse cloud deployments is vital

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for proper security auditing and compliance with growing government and industry cybersecurity regulations.

## The Solution

A multi-cloud security platform that provides a unified approach to compliance management for building and deploying virtual machines, software as a service applications and containerized environments. By establishing consistent security policy and preventing misconfigurations, the platform facilitates compliance. Enabling visibility and knowledge of the cryptographic assets allows the organization to bring them under control. And protecting the data ensures workloads do what they are supposed to do. Together, the unified multi-cloud security platform delivers:

**VM and container cryptographic key management, policy management, and compliance management** to prevent policy violations and misconfigurations that can lead to malicious attacks.

**Cloud security posture management (CSPM)** to discover and identify assets, monitor and assess compliance and risks, and provide a granular alert and remediation capability while maintaining established levels of security hygiene.

**Role-based access control (RBAC) allied with certificate and secrets management** to ensure that users and containers have necessary credentials for communicating with other services, authenticating themselves using passwords, API keys or certificates.

**VM and container image signing and encryption** to ensure protection throughout the lifecycle.



# Entrust Multi-Cloud Security Platform

## The Entrust Difference

Entrust brings together the foundational elements necessary for a comprehensive multi-cloud security strategy into a multi-faceted, integrated platform. Combining what has to date been independent point solutions including CSPM, encryption, cryptographic key, and certificate management, Entrust delivers what no other vendor has been able to offer – a single platform providing comprehensive visibility of the environment and consistent configuration and policy enforcement. The new offerings include an extensive set of cloud-enabling features to support containers and Kubernetes, bring your own key (BYOK) capabilities, web services, secrets management and multi-cloud key management.

The Entrust platform empowers customers to evolve their infrastructure with solutions that avoid vendor lock-in. One example is the unique Security World key management architecture that delivers trusted cryptographic services with scalability, failover, and load balancing from the data center to the multi-cloud environment.

The platform evolves traditional on-premises product offerings including PKI, identity, and data protection, encryption and cryptographic key management, to an as a service model that lets customers use what they need, when they need it. The Entrust solution enables greater flexibility and a transfer from capital to operational expenditures. With new datacenters across the globe, Entrust ensures customers have localized access to services with optimal performance and geo-fencing capabilities.

Protecting multi-cloud deployments includes not only securing assets and workloads across multiple cloud services. They also must identify, authenticate and control access of the users and machines that interact with these distributed systems.

Offerings from other vendors might focus on encryption and key management or cloud security posture management, but these solutions cannot enable the wide security coverage that Entrust provides through its combination of data protection, certificate and identity solutions.

## Benefits

- Provide unified policy, visibility, and administrative guardrails establishing a baseline that can constantly monitor deployments
- Discover and identify workloads, monitor, and assess compliance and risks – while providing granular alert and remediation capability
- Leverage built-in compliance templates for hardening virtual machine and containerized environments
- Ensure users and containers have the necessary credentials to communicate with other services, authenticating themselves using password, API keys or certificates
- Offer identity orchestration to bridge the gap between different systems and enable identity services from diverse vendors to be seamlessly monitored, managed and secured to avoid vendor lock-in
- Simplify authentication, authorization and risk policy decisions
- Protect the integrity of deployed VMs and containers by signing and encrypting their images
- Secure distributed workforces and provide secure access to applications from anywhere
- Deliver automation with real-time compliance and security

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# Entrust Multi-Cloud Security Platform

## Entrust Products Supporting the Platform

**KeyControl** simplifies management of encrypted workloads across multi-cloud environments by automating the lifecycle of encryption keys, including key storage, distribution, rotation and revocation. KeyControl also offers bring your own key (BYOK) capability to generate, manage, and use your own encryption keys across cloud service providers, including AWS, Google Cloud Platform and Microsoft Azure.

**DataControl** delivers data encryption, multi-cloud key management and workload security while enabling compliance with data privacy regulations.

**CloudControl** provides a unified framework for security and compliance across the hybrid and multi-cloud environment, including centralized authentication, authorization, and audit control to reduce both risk and operational overhead.

**nShield HSM** and **nShield as a Service** provide a secure solution for generating encryption and signing keys, creating digital signatures, encrypting data and securely executing sensitive applications within a protected FIPS 140-2 or FIPS 140-3 certified environment.

## Entrust Multi-Cloud Security Solutions Integrate With Leading Technology Providers



**Entrust Identity Enterprise** and **Identity as a Service** delivers cloud-based identity and access management with multi-factor authentication, credential-based password-less access, and single sign-on.

**Entrust PKI** establishes and maintains a trustworthy networking environment by providing key and certificate management services (on-premises or managed as a service) that enable encryption and digital signature capabilities across a wide set of applications.

**Certificate Hub** enables customers to find, control, and automate the management of the device and use digital certificates that help ensure only authorized access to multi-cloud services.

**Professional Services** helps customers with the skills and expertise to develop the solution that is right for their specific needs. Custom cryptographic solutions include Internet of Things, enterprise code signing, HSM application integration, cryptography as a service and encryption applications among others.

**nShield Security World** offers a common key management framework across all nShield HSM products that provides strong, granular controls over the access and usage of keys and policies.

**nShield Option Packs** extend the capabilities of nShield HSM deployments with easy to set up software to support web services, containers, time stamping, cloud integrations, and database security.

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# Entrust Multi-Cloud Security Platform

## Key Features

- Combine encryption, integrity controls, cryptographic key, and compliance management in a unified platform
- Enforce a robust cloud security posture across all deployments
- Enable a broad security coverage for risk mitigation
- Ensure compliance with data security and privacy regulations



Learn more at

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