Learn how Unified Key Orchestrator for IBM z/OS simplifies your enterprise's key management needs

—

August 8, 2023

IBM

Unified Key Orchestrator for IBM z/OS streamlines key management across your enterprise

Unified Key Orchestrator for IBM z/OS provides a robust key management solution for handling your sensitive keys

Unified key management

Centrally manage and load keys across on-premise and multiple cloud environments from a single, trusted user interface. UKO for z/OS® provides:

- Centralized management for IBM z/OS data set encryption across z/OS systems

- Prepare and Bring Your Own Key (BYOK) for a secure transfer to IBM Cloud® Key Protect, AWS KMS, Microsoft® Azure, and Google Cloud.

- Volume encryption with zKey integration

- Encryption of storage keys with integration to IBM Security® Guardium® Key Lifecycle Manager

Security & Compliance

Key templates and security-rich key generation allow for consistent and secure creation of keys.

Various forms of access control allow for refinement of privileges at an individual and business level.

Advanced auditability ensures all tasks are logged for auditor review.

Backup & Recovery

Centralized key monitoring, backup, and one-click recovery for keys on-premise and in the cloud.

Key features

- Secure Key Lifecycle Management

- Unified User Interface

- Backup & Recovery

- Access Controls & Compliance

Key templates

Policy-based key generation is based on key templates which enable key to be consistently created on-demand across your enterprise according to NIST key state model.

Enhanced workflows

Employing automated, semi-automated, and bulk key management processes allows your organization to manage high key volumes more effectively.

Key Importing

Continue your key management journey with UKO for z/OS by importing and taking control of existing keys.

Key Rotation

Rotate manage keys, including master keys, on-demand.

Security-rich key generation

Keys are generated in the tamper-responsive IBM Crypto Express Card.

Key features

- Secure Lifecyle Management

- Unified User Interface

- Backup & Recovery

- Access Controls & Compliance

Dataset dashboard

This feature provides an overview of data sets that can be encrypted, cannot be encrypted or are already encrypted in your IBM z/OS data set encryption journey on IBM Z®.

Various search options on this dashboard allow you to determine the encryption status of data sets.

Multicloud Management

Bring Your Own Key (BYOK) to:

✓ IBM Cloud Key Protect

✓ AWS KMS

✓ Microsoft Azure Vault

✓ Google Cloud

Key features

- Secure Key Lifecycle Management

- Unified User Interface

- Backup & Recovery

- Access Controls & Compliance

Central Repository

All keys are stored in a central repository with metadata such as activation dates and usage.

Backup

Backup can be easily achieved by including the central repository in existing database backup procedures. This will facilitate recovery if keys are lost due to cryptographic erasure.

Key features

- Secure Key Lifecycle Management

- Unified User Interface

- Backup & Recovery

- Access Controls & Compliance

Vaults

Vaults are secure repositories for cryptographic keys and keystores. Vaults can be used to grant access to different Resource Access Facility Control (RACF®) user groups supporting multi-tenancy and self-service key management.

Dual Control

Roles can be configured to require two or more persons to be involved in the generation, activation, and distribution of keys thus providing dual control for critical operations.

Role-based Access

The security administrator can define the functions that are available to each role and assign users to these roles.

Audit Logging

Every important activity is logged in an IBM Db2® table.

How IBM can help

Orchestrate your encryption keys across on-prem and multiple cloud environments while maintaining security and integrity of your data

— Reach out to your sales rep about a UKO for z/OS workshop and learn more about our pricing model

— Learn how you can use UKO for z/OS in combination with Enterprise Key Management Foundation Workstation for secure room operation

Product Web Page

Unified Key Orchestrator for IBM z/OS

Documentation

Technical Documentation

UKO for z/OS 3.1

Software Requirements for UKO for z/OS

Requirements

Learn More

UKO Demo

Pervasive Encryption

Related Products

IBM Cloud Hyper Protect Crypto Services with Unified Key Orchestrator

IBM PCIe Cryptographic Processor

IBM Security Guardium Key Lifecycle Manager

Thank you

Rachael Freitas

IBM Z Security Product Manager

IBM