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

August 8, 2023



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 onpremise 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.

© 2023 IBM Corporation

- 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 ondemand 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.

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

- 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.

- 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.

Role-based Access

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

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.

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

<u>Unified Key Orchestrator for IBM z/OS</u>

Documentation	Technical Documentation	Software Requirements for UKO for z/OS	
	<u>UKO for z/OS 3.1</u>	Requirements	
Learn More	<u>UKO Demo</u>	Pervasive Encryption	
Related Products	IBM Cloud Hyper Protect Crypto Services with Unified Key Orchestrator	IBM PCIe Cryptographic Processor	IBM Security Guardium Key Lifecycle Manager

© 2023 IBM Corporation

Thank you

Rachael Freitas

IBM Z Security Product Manager

© Copyright IBM Corporation 2023. IBM Systems, New Orchard Road Armonk, NY 10504. Produced in the United States of America.

IBM, the IBM logo, ibm.com, IBM Cloud, IBM IBM Z, Db2, Guardium, RACF and z/OS are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml. This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates. The performance data and client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT.

IBM products are warranted according to the terms and conditions of the agreements under which they are provided. The client is responsible for ensuring compliance with laws and regulations applicable to it. IBM does not provide legal advice or represent or warrant that its services or products will ensure that the client is in compliance with any law or regulation. Statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

