

RELEASE NOTE

Date: 12-Dec-23

Subject: New features, bug fixes, etc.

Software: Fortanix Data Security Manager- Accelerator

Version: 4.24

OVERVIEW

This document provides an overview of general improvements and resolved issues in the Fortanix Data Security Manager (DSM)-Accelerator 4.24 release.

NEW FEATURES/IMPROVEMENTS

- **DSM-Accelerator Webservice:**
 - Added support for integration of Snowflake external tokenization function with DSM-Accelerator Webservice deployed on AWS Lambda (**JIRA: PM-124**). For more details, refer to [Snowflake with DSM-Accelerator Webservice](#).

FORTANIX DATA SECURITY MANAGER – ACCELERATOR PERFORMANCE STATISTICS

• **Runtime Environment**



NOTE:

- The following table lists the standard recommended runtime environment. You can choose a higher configuration for better performance.
- DSM-Accelerator was run in the runtime environment listed below for performance testing.

ITEM	SPECIFICATION
Number of Cores	4
CPU	Intel(R) Xeon(R) CPU E5-2673 v4 @ 2.30GHz
RAM	16 GiB
Docker Configuration	Runtime <code>docker run -d --network host --memory=4g -memory-swap=6g --log-opt max-size=100m</code>

• **DSM-Accelerator Webservice**

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NOTE: The performance numbers below are captured with a single node; if you need higher performance or throughput, then we recommend adding multiple nodes.

KEY TYPES AND OPERATIONS	THROUGHPUT (Operations/second on a 1-node cluster)
AES 256: CBC Encryption/Decryption	16,573/16,703
AES 256: GCM Encryption/Decryption	16,146/16,655
AES 256: FPE Encryption/Decryption	4,883/4,896

- Additional Modes**

KEY TYPES AND OPERATIONS	THROUGHPUT (Operations/second on a 1-node cluster)
AES 256: CBCNOPAD Encryption/Decryption	16,635/16,871
AES 256: CFB Encryption/Decryption	16,497/16,986
AES 256: CTR Encryption/Decryption	16,730/16,835
AES 256: OFB Encryption/Decryption	16,713/16,987
AES 256: CCM Encryption/Decryption	16,075/16,570

BEST PRACTICES

Because our quality assurance process includes continuous security testing, Fortanix recommends keeping all Fortanix products updated with the latest releases as soon as possible. As an overall strategy to reduce risk exposure, customers are encouraged to follow best practices, which include:

- Always keep the product version up to date.
- Only issue accounts to trusted administrators.
- Monitor logs.

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- Create two or more System Administrator accounts.

DOWNLOADS

To download the DSM-Accelerator Webservice, or PKCS#11 client or Java SDK packages, click [here](#).

SUPPORT

For any questions regarding this release note, please contact support@fortanix.com

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Fortanix Data Security Manager Release Notes

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