RELEASE NOTE

Date: 4-Dec-24

Subject: New features, bug fixes, etc.

Software: Fortanix Data Security Manager Accelerator

Version: 4.34

OVERVIEW

This document provides an overview of the performance statistics for the Fortanix Data Security Manager (DSM) Accelerator 4.34 release.

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	2 GiB
VM Type	Standard D4ds v4 Azure VM
Docker Runtime Configuration	`sudo docker run -d --network host --memory=1g --memory-swap=2g --log-driver json-file --log-opt max-size=100m`

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

- **DSM Accelerator Webservice**

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KEY TYPES AND OPERATIONS	THROUGHPUT (Operations/second on a 1-node cluster re-using a single TLS session)
AES 256: CBC Encryption/Decryption	23,192/22,462
AES 256: GCM Encryption/Decryption	23,458/23,361
AES 256: FPE Encryption/Decryption	9,657/9,654

- **Additional Modes**

KEY TYPES AND OPERATIONS	THROUGHPUT (Operations/second on a 1-node cluster re-using a single TLS session)
AES 256: CBCNOPAD Encryption/Decryption	22,920/22,797
AES 256: CFB Encryption/Decryption	23,025/22,987
AES 256: CTR Encryption/Decryption	23,478/23,525
AES 256: OFB Encryption/Decryption	23,731/23,525
AES 256: CCM Encryption/Decryption	22,974/22,771

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.
- Create two or more System Administrator accounts.

DOWNLOADS

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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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