

RELEASE NOTE

Date: 30-Sep-22

Subject: Software changes, updates, bug fixes, etc.

Software: Fortanix Confidential Computing Manager

Version: 3.22

OVERVIEW

This document provides an overview of new features, improvements, bug fixes, and known issues in the Fortanix Confidential Computing Manager (CCM) 3.22 release.

PREREQUISITES

- A container registry account to push the converted application container Image(s).
- A subscription account on Azure Portal to create Compute Node/s.

NEW FEATURES

- CCM SaaS:
 - Added file system support for AWS Nitro Enclaves.

IMPROVEMENTS

- CCM SaaS:
 - Added support for scenarios where there is no EPC size to display in the UI, for example for AWS Nitro Enclaves.
- EnclaveOS:
 - The AWS Nitro converter now runs with privileged access to accommodate file system support.
 - The AWS Nitro converted applications now run with a modified enclave kernel which includes NBD, DM_CRYPT, and dependent kernel modules built into it.
 - Added file system support to use the luks2 encryption format for encrypting data written into the file system by the application.

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- The AWS Nitro converted applications can now pass environment variables to the enclave at runtime. This can be done with the help of docker's `-e` option.
- This release allows command line arguments from the docker run command that is used to run the AWS Nitro converted application to be propagated to the enclave program.

BUG FIXES

- CCM SaaS:
 - Fixed an issue where the Get all ApprovalRequest API did not return the requests when the user was a viewer or reviewer.
 - Fixed an issue where the task details were not shown if the corresponding application was deleted.
 - Fixed an issue where, when delisting a compute node, the list of nodes would not get automatically refreshed.
- Enclave OS:
 - Fixed an issue where the NodeJS app fails on SGX.
 - Fixed an issue that resulted in AWS Nitro parent base crashing when enclave exits first. The parent is now expected to exit without a console read error.
 - Fixed an issue that now catches unexpected exits from background tasks that run alongside the enclave application.

KNOWN ISSUES

- CCM SaaS issues:
 - The `get_PCK_cert` API does not require authentication currently.
 - Node agents are presenting an invalid certificate chain length.

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- The converter should throw an error if the certificate key is not in an encrypted folder.
- Curl request fails for deployed Docker Hub stock Tensorflow app image inside the AWS Nitro enclave.
- Error starting Docker Hub stock Elasticsearch app inside the AWS Nitro enclave as default enclave user is root.

LIMITATIONS

Fortanix has a fair usage policy in this Early Customer Access Program. Hence, Fortanix has limited the resources one can create per account. Therefore, it is expected to observe a resource creation failure message once you have reached the max limit.

To report an issue/bug, visit <https://support.fortanix.com/hc/en-us/requests/new>.

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. Additionally, 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.
- Utilize strong passwords.
- Monitor logs.

NODE AGENT DOWNLOAD

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- **Download link for SGX Platform:** <https://support.fortanix.com/hc/en-us/articles/360043407012-Fortanix-Node-Agent-Software-Intel-SGX-Platform>
- **Download link for AWS Nitro Platform:** <https://support.fortanix.com/hc/en-us/articles/4412575587732-Fortanix-Node-Agent-Software-AWS-Nitro-Platform>



NOTE: The current version of the node agent on Azure Marketplace will not create certificates.

SUPPORT

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

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