

RELEASE NOTE

Date: 19-Aug-21

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

Software: Fortanix Confidential Computing Manager

Version: 3.6

OVERVIEW

This document provides an overview of known issues as well as general enhancements and improvements in the Fortanix Confidential Computing Manager (CCM) 3.6 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:
 - **MAL-2241:** Fortanix CCM can now be configured to send audit log entries to external logging systems such as Splunk, Azure Log Analytics, and Syslog. For more details refer to the article: [User's Guide: Logging](#).

BUG FIXES

- CCM SaaS fixes:
 - **MAL-3972:** To renew a node agent's leaf certificate, the Node Client TLS certificate's validity was changed to match the Node certificate.
- EnclaveOS fixes:
 - **ZIRC-1366:** Implemented `chown`, `fchown`, and `lchown` system calls. Fixed issues with `fchmod` system call. This may fix issues related to file accesses failing due to incorrect file permissions.
 - **ZIRC-4760:** Fixed an incorrect panic message when an application terminates due to an unhandled `SIGSEGV` or `SIGBUS`. The

Fortanix, Inc. | 800 West El Camino Real | Suit 180 | Mountain View, CA 94040 | United States of America

✉ info@fortanix.com

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unhandled signal should terminate the application with a message indicating that it is due to an unhandled signal, but the panic message was also being printed by mistake.

- **ZIRC-4772:** Fixed an issue where certain SIGHUP signals were being incorrectly handled, leading to a crash. SIGHUP should now be correctly forwarded to the application, where they can either be handled by the application or may still lead to app termination due to the unhandled signal.
- **ZIRC-4773:** Fixed signal semantics for Pid 1 inside the container. Unhandled asynchronous signals that would normally terminate the process should be ignored by Pid 1.
- **ZIRC-4778:** Resolved Node agent installation issue on azure kernel 5.8.
- **ZIRC-4813:** Fixed adding a user in EnclaveOS by setting a thread's command/name with `prctl(PR_SET_NAME)` and reading it back with `prctl(PR_GET_NAME)`.
- **ZIRC-4816:** Fixed an issue where `/proc/pid/task/tid/comm` returned the process's command/name instead of the thread's command/name.

KNOWN ISSUES

- CCM SaaS issues:
 - **MAL-4441:** Unable to delete existing Fortanix CCM accounts.
 - **MAL-3431:** The task for “Application Cert Issuance” shows as pending even after being approved.
 - **MAL-3429:** The `get_PCK_cert` API does not require authentication currently.

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- **MAL-3409:** Node agents are presenting an invalid certificate chain length.
- **MAL-3375:** Converter should throw an error if the certificate key is not in an encrypted folder.
- **MAL-3287:** A user session expires:
 - When switching from an account with new features (app, configs, datasets, and workflows) to an account without new features.
 - When a user accesses a draft/approved workflow created by another user.

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.

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NODE AGENT DOWNLOAD

- **Download link:** <https://support.fortanix.com/hc/en-us/articles/360043407012-Fortanix-Node-Agent>



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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