

RELEASE NOTE

Date: 9-Apr-21

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

Software: Fortanix Confidential Computing Manager

Version: 3.0

OVERVIEW

This document provides an overview of known issues as well as general enhancements and improvements in the Fortanix Confidential Computing Manager (CCM) 3.0 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

- Added Azure Active Directory (Azure AD) single sign-on (SSO) support for users to log in to a Fortanix CCM account using Azure AD authentication. For more details refer to the [User's Guide: Azure AD Authentication](#).
- This release adds a captcha to the signup page to secure applications from bots.
- For applications that use EnclaveOS added `ustat()` syscall support.
- To improve security, Fortanix CCM now uses structured bearer tokens, which are transferred using cookies. Sessions are extended more explicitly, and the token is short-lived (60 sec). Customers using the previous method for acquiring auth token when using Fortanix CCM web services API's will need to change their API code. The new method for acquiring auth token is outlined in the [support page examples](#).

BUG FIXES

- EnclaveOS fixes:

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- The previous release (2.13) made the container's filesystem root read-only. This is necessary for protecting the integrity of files in the container but caused applications to terminate with filesystem integrity issues when the container runtime environment changes files like `/etc/resolv.conf`. The symptom for failures of this type is:

```
FS Integrity assert failed : /home/jenkins/workspace/zircon-  
release/shim/src/fs/shim_integrity_info.c:368  
EnclaveOS has encountered an internal error and cannot continue.
```

In this release, the root of the filesystem is marked as read-only, but the `/etc` directory has been marked as read-write. This will address the above symptom when it is due to files under `/etc` that are changed by the container runtime.

There may still be failures with the above symptom due to files outside of `/etc` changing.

- Copyright banner updated to 2017-2021 from 2017-2019.
- CCM SaaS fixes:
 - App config gets overwritten even if ports are changed.
 - If the combination of labels and configuration items are not unique, then saving app configuration throws 409, but the reason for failure is not communicated to the user.
 - Leave account does not work as expected and gives an error.
 - Node agent gets a 403 forbidden error on all post-enrollment API calls.
 - Reporting of node agent failure in the database before obtaining an attestation is not working.

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KNOWN ISSUES

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- CCM SaaS issues:
 - The task for “Application Cert Issuance” shows as pending even after being approved.
 - The `get_PCK_cert` API does not require authentication currently.
 - Node agents are presenting an invalid certificate chain length.
 - Converter should throw an error if the certificate key is not in an encrypted folder.
 - Reservations are not rolled back on Cassandra error.
 - 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.
 - If a workflow is deleted, the “Pending” page shows a 404 screen.
 - When you upload a SIGSTRUCT file while creating an EDP application, it clears the value in the “Image Version” field.

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

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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

- **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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