FUDO SECURITY

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Fudo Enterprise 5.5.5
Release Note

Date: October 2024

This is a minor Fudo release, introducing a range of improvements and new fixes.

NEW FEATURES

- Redesigned and enhanced Fudo Officer 2.0, now supporting the Just In Time feature, available on both Android and iOS.
- Added new RDP functionality in the Safe configuration, allowing custom content to be added to the generated RDP file.
- Introduced a beta feature to set timeouts for both the Admin and User panels. The upcoming release will support separate timeout settings for the Admin Panel and Access Gateway.

IMPROVEMENTS

- Implemented security patches for the following vulnerabilities: CVE-2024-43102, CVE-2024-45287, and CVE-2024-45288.
- Implemented general improvements and fixes to the sorting functionality across various lists, including Users, Servers, Listeners, and Accounts tabs, among others:
  - Added 'Search' field and alphabetic sorting for servers and accounts in the drop-down menu in the Password Changers tab.
  - Added 'Search' field and alphabetic sorting for 'Add remote app' drop-down menu in the Accounts tab.
  - Restored the missing 'Password Changer' filter on the Accounts tab.
  - Fixed an issue where default settings for some filters were cleared when using filters with drop-down lists.
- Updated missing translations across the interface.
- Added a notification that timestamping requires RAW dump recording while recording mode for the account is set to *'none'* or *'noraw'* .

API CHANGES

- Updated the *'Status'* endpoint to report all three load average values: 1, 5, and 15 minutes.

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BUG FIXES

- Fixed the issue with the "Missing X-CSRFToken" error, which was causing problems with certain requests.

- Fixed an issue where users with access to a large number of records were unable to view the accounts list in the Access Gateway.

- Resolved various filtering issues, including handling of special characters and incorrect values in search fields.

- Fixed an issue with the UCARP service script using an improper pattern to search for running processes.

- Resolved an issue with Kerberos authentication for large tickets.

- Addressed an issue causing SSO login failures and portal unavailability due to a stalled *whlkerb* process.

- Provided a fix for the CWE-79 vulnerability, which could potentially lead to cross-site scripting (XSS) attacks.

- Fixed an issue where an operator could access sessions without proper read or live session access permissions.

- Addresses an issue causing SSO login failures and portal unavailability due to a stalled whlkerb process.

- Optimized the timeout period for Fudo Enterprise to declare a KDC server as unreachable.

- Restored the missing 'pool' label in the accounts list to distinguish assigned pools from servers.

- Resolved an issue where, upon session expiration, users were caught in a refresh loop instead of being properly logged out.

- Addressed an issue where Fudo Enterprise was generating an excessive volume of unnecessary DNS PTR record requests.

- Resolved an issue that prevented all accounts from being displayed in the drop-down list for the "Replace secret with: Other Account" option.

- Fixed an issue with improper form refreshing when creating multiple external authentication configurations.

- Fixed an issue where editing the IP address of an existing server with a subnet mask other than 32 would default to 32 after saving.

- Resolved an issue with LDAP sync where password changes via Access Gateway failed for users with Active Directory external authentication when the User Principal Name (UPN) differed from the domain name.

- Fixed an issue where tooltips were not hiding properly and failing to display the full text.

- Fixed an issue with synchronizing time with the NTP server after boot.

- Fixed an issue where refreshing the list of connections in Access Gateway always redirected to the first page.
- Fixed an issue where clicking links to Account and Server from the Session tab caused Fudo to freeze.
- Fixed an issue in Access Gateway where the password checkout time limit was not displayed or enforced correctly.
- Fixed an issue where LDAP-synchronized users could be incorrectly added to safes from the Safes tab.
- Fixed an issue where no message was displayed when attempting to save an account linked to a deleted server.
- Fixed inconsistencies in displaying available bind addresses across different forms in the Fudo Enterprise.
- Fixed an issue where the 'SSH Key' method was incorrectly available for all server types, instead of being limited to SSH servers.
- Fixed an issue where the admin user could not download sessions if the connection was established using the web client.
- Fixed the misalignment of the menu header bar with the interface color.
- Fixed an issue requiring OTP tokens to be re-initialized for LDAP-synced users already synced from a different AD group.

ADDRESSED KNOWN ISSUES FROM VERSION 5.5.4

The following known issues from version 5.5.4 have been addressed in this release:

- Admin-type users cannot open the 'Downloads' tab.
    - **Status:** This issue has been resolved in version 5.5.5.
- Missing *'Password changer'* filter for *'Accounts'* tab.
    - **Status:** This issue has been resolved in version 5.5.5.
- Some translations may be missing in redesigned tabs.
    - **Status:** This issue has been resolved in version 5.5.5.

BEFORE YOU UPGRADE

It is highly recommended to perform the *'Upgrade check'* before the proper upgrade. The result of the failed check may contain information about configuration changes that needs to be done by a Fudo administrator to successfully upgrade Fudo.

There are a few things that need to be verified before this upgrade can be applied:

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- Make sure your Fudo instance isn't undergoing any system-wide process, such as storage rebuild, or the system isn't under full-load.
- In a cluster configuration, make sure all nodes are synchronized and upgrade the slave node first.
- Make sure you have an active Premium or Standard Support maintenance contract.

Mobile Token

Note: Fudo Enterprise 5.5 and later versions no longer support the **Mobile token** authentication method used to bind Fudo Officer mobile application to a User. Please ensure that the mobile application is unlinked from any User configuration. Otherwise, the upgrade will fail, and the script UPG000685 will return a list of users who have the mobile application linked.

To unlink the Fudo Officer mobile application, please edit the user configuration, then:

1. Go to the 'More' tab, and in the 'Fudo Officer' section, unlink the application using the 'Cancel binding' button.
2. Alternatively, go to the 'Settings' tab, in the 'Authentication' section find the 'Mobile token' method and remove it using the 'Delete' button.

Reconfiguring External Password Repository to HTTPS/LDAPS

As Fudo Enterprise 5.5 and later versions no longer support unencrypted connections for external password repositories, all repositories using HTTP/LDAP URLs must be reconfigured to HTTPS/LDAPS prior to the upgrade.

Steps to resolve:

1. Navigate to *'Settings > External passwords repositories'.*
2. Edit every configured external password repositories URL to use HTTPS/LDAPS.

RECOMMENDED UPGRADE PATH

Before proceeding with the upgrade, please verify the version number of your Fudo Enterprise instance. Depending on the version number, you will need to follow a specific upgrade path. To learn more, please refer to the [Fudo Enterprise Product Upgrade Path](#) article.

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Note: Fudo Enterprise 5.4.11 introduces a new upgrade barrier in the Product Upgrade Path. If you are upgrading from any version of Fudo 5.4, please ensure you upgrade to at least version 5.4.11 before proceeding to version 5.5.x.

HOW TO UPGRADE YOUR FUDO

1. Login to your Fudo Admin Panel.
2. Select *'Settings > System'* from the main menu on the left-hand side and go to the *'Upgrade'* tab.

Note: If your Fudo is running in a cluster, start the upgrade on the Slave node, and only when the upgrade finishes successfully start upgrading the Master node. When both systems are running the same Fudo version cluster communication will be restored.

3. Select 'Upload' from the top right side and upload the previously downloaded and unzipped upgrade package file.
4. Select *'Run Check'* to determine if your upgrade file is correct and can be applied to the existing Fudo configuration. Refresh your browser window to see *'Upgrade check'* current progress.
5. Upon a successful *'Run Check'* result, upgrade your Fudo by using the *'Upgrade'* button. Upon system restart, all active sessions will be terminated.

Note: In case of an unsuccessful check do not upgrade your system, double check your upgrade file checksum. If you encounter any problems, get in touch with us and we will assist you.

HOW TO IMPORT SYSTEM CONFIGURATION

Note: Importing a configuration file and initiating system with imported data will delete all existing session data.

1. Login to your Fudo Admin Panel.
2. Select *'Settings > System'* from the main menu on the left-hand side, then go to the user menu in the upper right corner.
3. Select *'Import configuration'* from the user menu.
4. Upload the *'Master key'* file and *'Configuration file'* exported from another Fudo instance and click *'Confirm'* to proceed with the import.

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Note: For more details, please refer to the 'Exporting/Importing System Configuration' section of the Fudo Enterprise documentation.

THE ROLLBACK PROCEDURE

If you are experiencing issues with the newly installed version, you have an option to roll back to the previous version of Fudo running on this machine. To do so, click the user menu on the top right, select *'Restart'*, and select previous system revision from the drop-down list.

Note: Please keep in mind any session recordings performed on a newer version will be lost upon upgrade rollback execution.

CONTACT US

If you have questions or concerns, please get in touch at support@fudosecurity.com or by phone: +48 22 100 67 09.

Sincerely,

Fudo Security Team