

Fudo Enterprise 5.4.2

Release Note

This is a major Fudo release, introducing new features, improvements, API changes, and bug fixes.

NEW FEATURES

- Enhanced Discovery feature:
 - Two new Discovery scanner types added:
 - *Domain Controller Servers* scanner for discovering servers on domain controllers,
 - *Windows Local Accounts* scanner for discovering local accounts on Windows servers.
 - Enhanced *Accounts* scanners:
 - Now you have the possibility to choose password changer and password changer policy, which will be automatically assigned to discovered accounts.
 - Password changers have the ability to assign predefined values, which should be configured to determine how the password changer will function immediately after being assigned to a discovered and onboarded account.
 - You can use *Base DN* and *Group DN* during Domain Controller Accounts scan.
- Added support for LAPS and CyberArk Credential Provider external password repositories.
- The LDAP synchronization has been enhanced to include certificate subject assignment and SSH key retrieval from the domain. Now you can obtain a subject from the user's certificate or retrieve an SSH key from the certificate to assign it as one of the user's authentication methods.
- Support for Kerberos in Active Directory external authentication method. The Kerberos authentication option is enabled by default and can be enabled or disabled globally. By enabling it, Kerberos will be used as a first step in RDP sessions authentication against the server and in the Active Directory external authentication method.
- Uploading servers list from CSV file. This new functionality enables you to create a large number of servers automatically based on data placed in a text file.
- Support for SFTP backup protocol.
- Support for certificate authentication in the Management Panel.

IMPROVEMENTS

- Optimization of the Listeners tab interface - configuring, searching, and filtering listeners is now easier and faster.
- Optimization of the Users tab interface - configuring, searching, and filtering users is now easier and faster.

API CHANGES

- New endpoints related to enhanced Discovery features implemented. Now you can use batch requests to assign onboarded and quarantined status to discovered accounts or servers.
- Introduced in APIv2 `/healthcheck` endpoint allows to check the overall health of Fudo Enterprise and verify its proper functioning.
- The new `/status` endpoint allows retrieving detailed information about the Fudo Enterprise status, including cluster status, CPU cores temperature, disk status, system load, device memory utilization, number of currently active sessions, and more.
- The new endpoints related to external password repository management allow for creating, changing, deleting, and retrieving the information about existing external password repositories.
- New *API Key* user authentication method added.
Reminder: The new method should be used instead of APIv1 `api/system/login` endpoint.
Support for this endpoint will be removed in the next release.
- The new Atomic functionality introduced to enhance batch operations execution control and ensure that all batch requests must be fulfilled.

DISCONTINUED FEATURES

- Fudo Enterprise 5.4 no longer supports **password changers custom plugins** functionality.
- Fudo Enterprise push notifications are now managed on a custom server. Fields related to push notifications were removed from the license content. It **won't be possible** to upload a **license containing** `apns_key`, `apns_cert` and `fmc_key` fields.
- The **One Time Password** authentication method is **no longer supported**. Please remove all instances of this method before the upgrade.

ANNOUNCEMENTS

- Fudo Enterprise 5.4 is the **last version supporting CyberArk Enterprise Password Vault** external password repository. The support will be **removed** in the **next release**. Users using this integration need to migrate to CyberArk Credential Provider external repository.
- Fudo Enterprise 5.4 is the **last version supporting Application to Application Password Manager**. The AAPM will be replaced by the functionality of APIv2 in the **next release**.
- Fudo Enterprise 5.4 is the **last version supporting Ticketing systems**. The support will be **removed** in the **next release**.
- Fudo Enterprise 5.4 is the **last version supporting APIv1**. The support will be **removed** in the **next release**. All scripts using this APIv1 should be rewritten to use APIv2.

BUG FIXES

- Access Gateway timeout rule changed - logout is not automatically performed when there is at least one active Web Client session.
- Fixed issue of Users with the Operator role access loss to Servers after upgrading Fudo Enterprise.
- Fixed issue with duplicates on the sessions list and problems with sessions preview.
- Fixed issue with the *fudopv* authorization error when using monitored connection *getpass fudo*.
- Changed the default length of the OATH token to 6 digits to ensure compatibility with common authentication apps.
- Fixed an issue with the missing "*Upload CA certificate*" option while creating a Scanner for the Discovery feature.
- Fixed issue related to *Native connection* button display error while OTP and Web Client options are disabled for current Safe.
- Fixed issue related to highlighting active *Access policy* buttons in the Safe configuration tab.
- Fix for an issue related to the DUO authentication method not working properly.
- Fix for an issue regarding the possibility of saving SMS authentication method form with empty fields.
- Fix for an issue with clearing the *Response reason* field after accepting/rejecting the access request or after reopening the *Request response* window.
- Fixed issue related to displaying fields for Host, IPv4, and IPv6 configuration while editing a Server.
- Fix for an issue with marking sessions as backed up even when the backup option was disabled.

- Fixed issue with terminating the MySQL sessions in the Session player.
- Fixed issue with missing login fields during authentication when using the incorrect OpenID Connect setup.
- Fixed issue with displaying long Accous names in the Safe creation form.
- Fixed issue with unnecessary logs displaying while creating an Account.
- Fixed issue related to display resolution scaling in Native Client RDP connections.
- Fixed issue related to desktop flickering in Web Client RDP connections after resizing the browser tab.
- Fixed issue with missing login process status indication on the Admin Panel login screen.

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:

- 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.

IMPORTANT INFORMATION FOR UPGRADING FROM VERSIONS 5.2.x AND OLDER

Due to the significant changes in the database, the upgrading process from 5.2.x and older versions might take more time than usual.

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

- 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.
- As of Fudo PAM 5.3, Citrix, ICA, and Oracle protocols are no longer supported; it is required to remove the sessions (except those already exported) associated with these protocols.
- It is required to have the "Use root store certificates" option enabled in every HTTP server configuration.

- “Hitachi ID Privileged Access Manager” and “Lieberman Enterprise Random Password” must be removed from the External password repositories configuration.
- Users with names containing ‘#’ or ‘%’ chars must be removed or renamed.
- If there are multiple servers with the same address and port pair but different protocols, then only one of them can be left and the other must be removed.
- Remote app configuration must be removed from all the servers and accounts.
- In password changers configuration the server properties: “*protocol*”, “*secproto*”, “*ssl_to_server*”, “*ssl_v2*”, “*ssl_v3*”, “*subnet*” are no longer supported and must be removed.
- Port number 8888 is now reserved. Listeners using this port must be modified to use another port.
- Port numbers greater or equal 60000 are now reserved. Listeners using these ports must be modified to use other ports.

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.

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.

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.

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.

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.

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