Release Notes: IBM Aspera High-Speed Transfer Server, High-Speed Transfer Endpoint, and Desktop Client, 4.4.2

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This release of IBM Aspera High-Speed Transfer Server (HSTS), High-Speed Transfer Endpoint (HSTE), and Desktop Client provides the new features, fixes, and other changes that are listed in the following sections. In particular, the Breaking Changes section provides important information about modifications to the product that might require you to adjust your workflow, configuration, or usage. Additional sections cover system requirements and known problems.

NEW FEATURES

Added support in async for storing the preserved ACL contents in the async database. (Aspera #25)

Added support for authenticating to Redis by using ACL user identifiers and storing them securely in `askms`. (Aspera #388)

Added support for preserving `Object Lock` and `Legal Hold` metadata for AWS S3 objects when transferring from an AWS S3 source to an AWS S3 destination. (Aspera #413)

Added support for a new option in async to perform deletes before new or updated files are transferred to the destination. (Aspera #514)

Added support for timestamp, uid, and gid preservation for growing files through Watch Folders. (Aspera #546)

Added support for additional parameters for growing files through Watch Folders like ssh fingerprint, read block size, connect timeout, ... (Aspera #617)

Added support for automatically storing and updating the ID of the primary `asperanoded` node in a HA redis deployment. (Aspera #633)

BREAKING CHANGES

If you are upgrading from a previous release, the following changes in this release might require you to adjust your workflow, configuration, or usage.

Aspera #940 - The default for `_transfer_in_bandwidth_flow_min_rate_cap` and `_transfer_out_bandwidth_flow_min_rate_cap` has changed from Unlimited to 0 to prevent setting a minimum rate that conflicts with the vlink configured rate.

Aspera #1056 - The `--log-io` functionality in asperanoded has been removed.

ISSUES FIXED IN THIS RELEASE

Aspera #481 - Fixed a problem where async might not preserve directory permissions correctly for root-owned directories when running with elevated Linux capabilities.

Aspera #474 - Fixed a problem where Lua transfer events stop being processed after an error happened in a Lua script handling transfer events.

Aspera #574 - Fixed a problem where growing files might be copied multiple times and not marked as completed through Watch Folders.

Aspera #579 - Fixed a problem where the async server process might report a 'Disconnected from peer' error to management applications like Aspera Console even though the session was successful.

Aspera #595 - Fixed a problem where a stale lock file is not cleaned up if async fails to start.

Aspera #599 - Fixed a problem where the `asnodeadmin` option `--access-key-restore` returns an error in configurations by using HA redis.

Aspera #612 - Fixed a problem where Node API requests specifying a `'name='` filter might fail if the name is longer than 48 characters.

Aspera #621 - Fixed a problem where iteration tokens that are returned by the `/ops/transfers` Node API endpoint might be incorrect values.

Aspera #665 - Fixed a problem where `ascp4` might hang when a file pair list input file is provided with a large number of file pairs.

Aspera #704 - Fixed a problem where async with the dedup option enabled might not create hardlinks for files that are the same as other preexisting files.

Aspera #716 - Fixed a problem with `asperanoded` being unable to start in AIX.

Aspera #753 - Fixed a problem where `ascp` fails to validate node user bearer tokens when establishing the transfer that uses a WebSocket channel.

Aspera #762 - Fixed a problem where `async` on Microsoft Windows might transfer files that are moved to the `'keep'` directory.

Aspera #787 - Fixed a problem where `ascp4` might not be able to transfer symlinks in a `'receive'` transfer.

Aspera #797 - Fixed a problem with `asperasync` (HotFolders) might fail after a few minutes of activity.

Aspera #846 - Fixed a problem where using `async` on Microsoft Windows with compression enabled might result in the root drive losing its file system ACL entries.

Aspera #921 - Fixed a problem where starting an async job by using the Node API with client async activity logging enabled and that uses a CIFS path as the source might result in the async data being reported to an incorrect key in redis.

Aspera #929 - Fixed a problem where async might update the `mtime` of a symlink target in the destination system when just the symlink was transferred and not the target.

Aspera #1003 - Fixed a problem where the product installer might fail to start with an error when running in a Microsoft Windows system set to a language different than English.

Aspera #1044 - Fixed a problem where async might remain running indefinitely when using multiple transfer threads if one of the `ascp` subprocesses failed.

Aspera #454 - Using HTTP Fallback to upload a file or creating files by using the Node API might not result in setting the permissions for the file specified in the `'create_file_mode'` configuration setting.

Aspera #535 - Fixed a problem where inconsistencies between the client and server databases for an async job might result in async not terminating with pending paths that are not cleared.

Aspera #740 - Fixed a problem where a `vlink` set via schedule might start the transfer with the default capacity rather than the capacity that must apply per the schedule.

Aspera #842 - Fixed a problem where async might not be able to restart a job again if there is an error applying the database journal.

Aspera #904 - Fixed a problem where Watch Folder might enter an invalid state that prevents it from transferring any more files if a file in the transfer set is deleted during the transfer.

Aspera #906 - Fixed a problem where Watch Folder might be unable to delete directories on S3 when `'delete after transfer'` is used.

Aspera #994 - Fixed a problem in `async` where the parent directory's timestamp might not be preserved when a hard link is synchronized.

Aspera #1021 - Fixed an issue in `ascp` where symlinks might cause transfer failures in multi-session mode.

Aspera #1040 - Fixed a problem where a transfer might be unable to resume a previously partially uploaded file to Azure.

Aspera #1073 - Fixed a problem where hardlinks created by async might not get deduplicated with the `--dedup=inode` option.

Aspera #1085 - Fixed a problem where transfers to AWS S3 across accounts might not work when using an access point alias for the bucket.

Aspera #1181 - Fixed a problem where transfers started with the GUI might hang on `'Establishing connection'` when trying the `gssapi-with-mic` authentication option.

Aspera #1196 - Fixed a problem in `ascp` where using `--delete-before-transfer` might result in unexpected paths that are removed from the destination when the source paths are specified through a `--file-list`.

Aspera #1218 - Fixed a problem where async might report a transfer error despite the transfer being successful if a generic cloud storage docroot is specified with the bucket being part of the source directory that is provided to async.

OTHER CHANGES

Using basic tokens generated from node user credentials to authorize transfers is deprecated and will be removed in a future release.

SYSTEM REQUIREMENTS

Linux 64-bit: RHEL 7, 8, 9. Ubuntu 20.04 LTS. Ubuntu 18.04 LTS. Ubuntu 16.04 LTS. SUSE Linux Enterprise Server (SLES) 12. Debian 8+. Kernel 3.10 or higher and Glibc 2.17+. Rocky Linux 8, 9. Amazon Linux 2 and Amazon Linux 2023.

Windows: Windows Server (64-bit) 2012, 2016, and 2019. For client use only, you might also use Windows 10, 11 (64-bit).

macOS: 10.15 (Catalina), macOS 11.0 and 11.1 (Big Sur).

PowerLinux: RHEL 7-8. CentOS 7-8. Ubuntu 20.04 LTS. Ubuntu 18.04 LTS. Ubuntu 16.04.2 LTS. Your OS version must support little-endian (LE) ordering, and it must run on IBM Power hardware that supports LE ordering. Kernel: Linux 4.4.0-116-generic. Architecture: ppc64-le.

zLinux: Linux on z Systems s390, 64-bit. RHEL 7-8. SUSE Linux Enterprise Server (SLES) 12.

AIX: 7.1, 7.2, 7.3.

PRODUCT SUPPORT

For online support, go to the IBM Aspera Support site at https://www.ibm.com/mysupport/. To open a support case, log in with your IBMid or set up a new IBMid account.