Release Notes: IBM Aspera IBM Aspera High-Speed Transfer Server 3.9.3

Product Release: November 4, 2019
Release Notes Updated: November 4, 2019

This release of IBM Aspera IBM Aspera High-Speed Transfer Server (HSTS) 3.9.3 provides new features, fixes, and other changes.

Upgrading to 3.9.3 is recommended for all customers, but is *required* for entitlement customers (consumption-based customers).

See the Breaking Changes section provides important information about modifications to the product that may require you to adjust your workflow, configuration, or usage. Additional sections cover system requirements and known problems.

NEW FEATURES

General

- For customers that have a user-managed HSTS that functions as a "tethered node" with Aspera on Cloud, the Aspera Event Journaling Daemon (AEJD) service can be configured to send transfer data to the Activity app.
- For customers that have access to Aspera on Cloud, the HSTS Aspera License Entitlement Engine (ALEE) service can be configured to use bearer tokens for authentication with the Aspera entitlement and usage facility.
- Aspera has upgraded its metering and billing service for entitlement customers.
- New conf/access key configuration option to be able be able to report the number of files (default 100,000) and to ignore skipped files for a single transfer against the /ops/transfers endpoint.
- Node API include and exclude pattern lists for POST /ops/transfers.
- Console smart transfer "Specify base for source path" is ignored when the destination is an ATCM node. (CIM-2538)
- Refactor of NODE API transfer manager provides more reliability around initiating and retrying transfers via POST to /ops/transfers endpoint.
- New transfer_manager options to control initiating transfer via POST to /ops/transfers:

  - transfer_manger_max_retries specifies the number of times a transfer will be retried on failure (default 3)
  - transfer_manager_max_concurrent_session will limit the number of running ascp session to this number (default 20)

BREAKING CHANGES

General

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

- asdelete does not delete symlink when target file does not exist. (CIM-2586)

Entitlement Customers

⚠️ **CAUTION:** This release is a required update for all entitlement customers (consumption-based customers). Aspera has upgraded its metering and billing service, and this release includes features required for its use. Aspera requests that you upgrade to HSTS 3.9.3 by December 15, 2019 and configure your firewall appropriately. If you are not able to do so, please contact Aspera (`aspera-upgrade@ibm.com`). Without this upgrade and firewall configuration, entitlement transfer servers will not be able to transmit data after the switchover to the new service.

The required firewall configuration is as follows:

- Allow outbound traffic on TCP port 443.
- Whitelist the following ranges of IP addresses:

169.48.106.192/26
169.61.54.112/29
169.60.151.232/31
169.60.129.66/31
169.60.197.0/26
169.61.233.80/29
169.46.4.68/31
169.46.4.70/31
169.48.249.64/26
169.48.226.120/31
169.48.236.50/31

ISSUES FIXED IN THIS RELEASE

ES-1348 - HSTS documentation for Access Key Authentication Configuration Examples is missing bucket attribute. (CIM-2485)

ES-1317 - Correct HSTS documentation for redis.conf.

ES-1192 - Document missing backup steps for HSTS. (CIM-1775)

ES-1180 - Document how to address a temporary connectivity issue between the `asperanoded` service and the `asperalee` service by configuring `asperanoded` to depend on `asperalee` to start. (CIM-1874)

ATT-1037 - Ascp completes transfer, but keeps running and blocks queue. (CIM-2588)

ATT-1035 - Ascp option --delete-before-transfer freezes. (CIM-2587)

ATT-993 - Ascp, Ascp4, and Async operate without restriction if aspera.conf is not found or is unreadable. (CIM-2420)

ATT-971 - Ascp does not complete the session when trapd returns "ERR TRAP Invalid element in cloud-metadata" and "ERR I/O could not be negotiated". (CIM-2369)

ATT-959 - IVF validation_file_start event is skipped on trapd transfers. (CIM-2309)

ATT-958 - Ascp4 option --file-list does not validate relative filepath characters, which allows a user to copy/upload files to any directory. (CIM-2317)

WAT-929 - Async Send_half_final_commit_journal is too big to send. (CIM-2601)

WAT-927 - Deleted files are not deleted on the destination when filtering is used. (CIM-2631)

NODE-911 - Node API supports remove-after-transfer when initiating transfer via POST to /ops/transfers.

NODE-909 - HTTP fallback does not work with AES-192, AES-256, or GCM. (CIM-2625)

NODE-863 - Node API option to disable retries. (CIM-2294)

NODE-835 - Source_Paths are empty in /ops/transfers output. (CIM-2077)

NODE-830 - GET request for files/0 removes file id 1. (CIM-2029)

ATT-829 - Client-side encryption at rest resumption not supported with PVCL based docroot. (CIM-1980)

NODE-826 - Aspera on Cloud download failure with large number of dropboxes associated to user due to uncompressed bearer token larger than buffer. (CIM-2009)

SYSTEM REQUIREMENTS

Enterprise Server, Connect Server, Point-to-Point Client, and Desktop Client

- **Linux 64-bit**: Ubuntu 14.04 LTS, 16.04 LTS, 17.10; RHEL 6-7; CentOS 6-7; SLES 11-12; Debian 7-9; Fedora 26-27; Kernel 2.4 or higher and Glibc 2.5+
- **Windows 64-bit**: Windows Server 2019, or Windows 7 with service pack 1, 8.1, 10
- **Mac**: OS X 10.11, macOS 10.12 (Sierra), 10.13 (High Sierra)

Client Browsers for High-Speed Transfer Server UI

- Linux: Chrome 64-71, Firefox 58-64, Firefox ESR 52-60
- Windows: Chrome 64-71, Microsoft Edge 41-44, Internet Explorer 11, Firefox 58-64, Firefox ESR 52-60
- macOS: Chrome 64-71, Firefox 58-64, Safari 11-12, Firefox ESR 52-60

KNOWN ISSUES

The following known issues have been discovered since the 3.9.1 release, and have not yet been fixed.

General

- NODE-857 - asconfigurator can set negative activity_files_max values.

Docs

- NODE-938 - Docs do not specify how to use GCM based ciphers for asperahttpd and asperanoded. (CIM-2705)

DEPRECATED FEATURES

The HSTS web UI is deprecated, and will be removed from the product in a future release.

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.