IBM Aspera High-Speed Transfer Server

Universal data transfer server for desktop browsers, mobile clients, and web

Key benefits & capabilities

- Robust and reliable transfers with automatic retry and resume logics
- Highly scalable, with thousands of concurrent transfer sessions and multi gigabit-per-second aggregate throughput.
- Maximum control, even resource usage, and flexibility configurations
- Guaranteed delivery times with “minimum transfer rate”
- Leverage Aspera’s robust developer tools
- User authentication, encryption in transit and at rest and data integrity verification

IBM® Aspera® High-Speed Transfer Server is an industry software standard for transferring files, directories and large data sets with many users over any distance on wide area networks. It combines nextgeneration transport with exceptional transfer and user management capabilities for enterprise applications.

With the patented Aspera FASP® transport technology at its core, the Aspera High Speed Transfer Server software delivers unmatched performance with maximum transfer throughput independent of distance and network conditions. It achieves speeds up to 100s of times faster than FTP/SCP, with end-to-end security and exceptional bandwidth control.

This Aspera transfer server software can connect to IBM Aspera cloudbased applications to provide highly scalable, on demand storage and computing capacity.

Fast, reliable transfers

Manually or automatically transfer files and directories or schedule repeating transfers. Allocate bandwidth based on transfer priority. Enable connections with a variety of client options including desktop applications, and mobile apps. Provide worry-free experience with automatic retry-and-resume from the point of interruption.

Thanks to a set of rich APIs, the Aspera High-Speed Transfer Server can be embedded into any web application to serve as the highspeed backbone for transfers of file-based and streaming data over public Internet or private IP links.

Scalable and efficient transfer environment

The high-performance Aspera FASP transport supports thousands of concurrent transfer sessions and delivers solid throughput over high-loss and high-delay networks and maximizes utilization of allocated bandwidth on low capacity and on multi-gigabit networks

File-based workflow automation

Create repeatable and scheduled transfers (one time and recurring) using templates in IBM Aspera Console. Develop custom pre- and post-transfer processing with hot folders, scripts, web services and third party embedded clients. Accept non-Aspera file transfers and automatically forward files to any other Aspera transfer server.

Enterprise-grade security

The Aspera FASP transfer protocol protects your vital digital assets with thorough SSH authentication, in-transit and at rest encryption, and data integrity for each transmitted block.

Granular administrative options

Server administrators can create user accounts with varied levels of access control, while also defining “root” directory, security requirements and bandwidth profiles. Admin-level users have access to real-time transfer monitoring and detailed reporting as well as control over aggregate and perflow transfer rate caps and prioritization.

Features and benefits

Versatile file transfers

- Transfer initiation from web browser, mobile app, desktop client, endpoint, command line, or third-party embedded client.
- Guaranteed delivery times with a configurable “minimum transfer rate” transfer priority levels.
- High-availability cluster configuration options (active/active or active/ passive) and reliable deliveries with automatic retry and resume of partial or failed transfers.
- Simultaneous multi-location file delivery using multi-point transfers.
- Automatic, fast and lossless inline compression reduces data set transfer sizes, providing further boost to Aspera’s industry leading transfer performance.
- Maximum control, balanced resource usage, and faster transfer times with configurable options for controlling the intra-file ‘splitting’ over the parallel sessions.

Cloud Ready

- Can be deployed in cloud infrastructure as an Aspera on Demand offering, taking advantage of unlimited storage and transfer scale-out and with optimized cloud I/O for maximum transfer speeds.
- Available on Amazon Web Services and IBM Cloud.

Transfer automation

- Create repeatable and scheduled transfers (one-time and recurring) through templates using Aspera Console.
- Utilize hot folder services and define custom pre- and post-delivery functionality using scriptable command line, web services or SDK library.
- Automatically forward uploaded files to any other Aspera node, even when files arrives via non-Aspera means (e.g. FTP deliveries).

Comprehensive administration

- Create unlimited number of users, define access rights and transfer settings for each user, and enforce security settings based on organizational requirements.
- Set transfer priorities and define aggregate or per-flow bandwidth allocation; vary transfer settings based on time-of-day/day-of-week, per user or group, and by client IP address or metadata.
- Monitor all incoming and outgoing transfers in real-time; cancel, pause, resume or reorder transfers in the queue on the fly; configure email notifications and delivery confirmations on client and server.
- Using Aspera Console, access detailed server transfer logs in a centralized database and run pre-defined or custom reports for billing and auditing.

Comprehensive built-in security

- Keep your business-critical digital assets safe with Aspera’s enterprise-grade security features, which include thorough SSH authentication, FIPS 140-2 Level 1 compliant cryptographic module, and data integrity verification for each transmitted block.
- AES-128/192/256 data encryption in-transit and at-rest., both client side and server side, with configurable per-user encryption setting and minimum password strength.

Supported platforms

Server

- Windows and Windows Server
- Linux 64-bit
- Mac OS
- AIX
- Linux on Z 64-bit

Browsers

- Windows: Chrome, Microsoft Edge, Internet Explorer, Firefox, Firefox ESR
- Mac OS X: Chrome, Firefox, Safari, Firefox ESR
- Linux: Chrome, Firefox, Firefox ESR

About IBM Aspera

IBM Aspera offers next-generation transport technologies that move the world's data at maximum speed regardless of file size, transfer distance and network conditions. Based on its patented, Emmy® award-winning FASP® protocol, Aspera software fully utilizes existing infrastructures to deliver the fastest, most predictable file-transfer experience. Aspera's core technology delivers unprecedented control over bandwidth, complete security and uncompromising reliability. Organizations across a variety of industries on six continents rely on Aspera software for the business-critical transport of their digital assets.

For more information

On IBM Aspera solutions, please visit us at https://www.ibm.com/products/aspera or contact aspera-sales@ibm.com.

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Produced in the United States of America
May 2020