Globalscape® Solution for Onboarding Big Data

*Globalscape is a Hortonworks technology partner.*

Big data is a collection of data sets so large and complex that it becomes difficult to process using existing database management tools or traditional data processing applications. This influx of data sets also brings the challenges of capture, curation, storage, analysis, and visualization along with it. As businesses work with an increasing number of partners, the size of the data being exchanged increases in terabytes or exabytes in size. The Apache Hadoop Big Data Platform was built as a "big data tool" in order to assist with these large exchanges.

What is Hadoop?

The Apache Hadoop software library is an open source framework that allows for the distributed processing of large data sets across clusters of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, each offering local computation as well as storage. Rather than rely on hardware to deliver high availability, the library itself is designed to detect and handle failures at the application layer. Deploying a highly available service on top of a cluster of computers can prevent the computers from failing.

How Can Globalscape® Help?

Globalscape Enhanced File Transfer™ (EFT™) platform and DMZ Gateway® together provide a simple, reliable, secure, and streamlined process for your data's gateway to Hortonworks Data Platform (HDP), maintaining security, visibility, and compatibility with Internet open standard protocols.
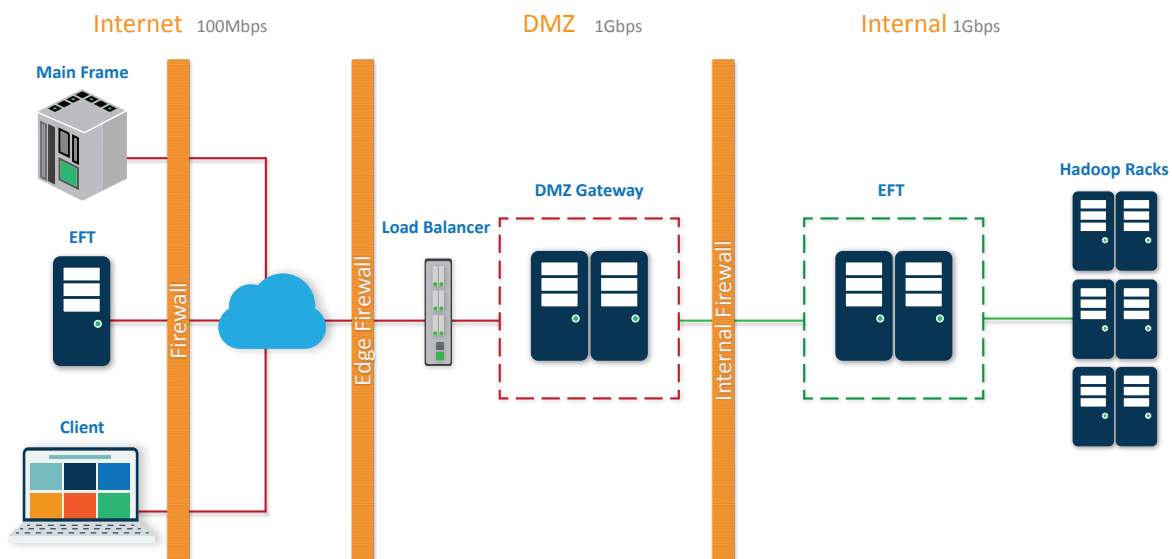
A single instance of EFT Enterprise in the internal network layer of the datacenter and a single instance of the DMZ Gateway component installed in the DMZ (edge, outward facing) network layer can be used to consolidate data generated from multiple locations into one central data center with a Hadoop cluster. The EFT Enterprise located in the internal network transfers data into Hadoop, and maintains security, tracking, and auditing of every file transferred.

Whether you prefer an on-premises solution, or a system in the cloud, Globaslcape can provide an out-of-the-box connection with Hadoop to deliver data securely and give you insight into the transfer. In addition to its military-grade security, EFT has amazing load capacity. Some of our clients use EFT to transfer thousands of files per second. EFT provides the perfect tool to handle the sheer size and amount of data that businesses have come to require, all while maintaining a fast, secure, and reliable connection.

EFT and DMZ Gateway is the solution for any enterprise that needs to:

- *Capture Large Amounts of Data from Multiple Sources*

  EFT can act as a staging point for your data, a gateway with a variety of secure, platform-independent, industry-standard protocols to receive data, with the added capability of reaching out to retrieve that data, as needed. FTP, FTPS, SFTP, HTTPS, CIFS, and NFS capabilities give you excellent connectivity coverage so you can be confident your existing systems won't require new or proprietary software just to get the data to where it needs to be.

- *Secure that Data Through Proper Configurations, Authentications, and Authorizations*

  Keep your data safe with extensive options for highly secure configurations, authentication, authorization, encrypted communications, and a stellar track record on intrinsic software security. With the power of Globalscape's DMZ Gateway, you can facilitate transfers across the open Internet with military-grade security.

- *Transfer the Data Reliably over Often Unreliable Networks*

  EFT offers a full suite of data integrity and assurance capabilities, automatic file hash validation, smart resume (sometimes referred to as checkpoint restart), and more. Our solutions are trusted to transfer critical data reliably over even the slowest and most unreliable networks around the world, successfully battling high latency and intense packet loss. EFT can ensure your data will arrive completely and correctly.

- *Review the Details of the Transactions and Interactions with Complete Auditing and Reporting*

  Detailed transactions and interactions with EFT, even administrator actions, can be audited in near real time and provide a full audit trail for all activity. The status of ongoing transactions, an overview of the entire transaction lifecycle, built-in reporting, and an integrated API combine to provide complete visibility into the data being added to your Hadoop implementation.

Contact a Globalscape solution specialist today to make EFT Enterprise and DMZ Gateway an integral part of your big data solution.