Replacing FTP Scripts with Managed File Transfer

Agenda

1. The Context
2. Common Issues with Homegrown Solutions
3. Why Managed File Transfer
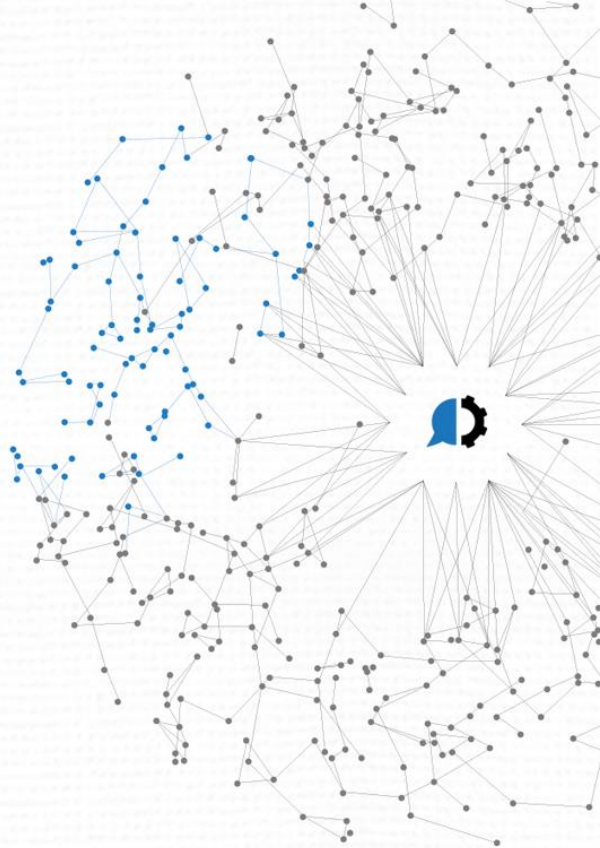4. GoAnywhere Intro & Live Demo
5. Q&A
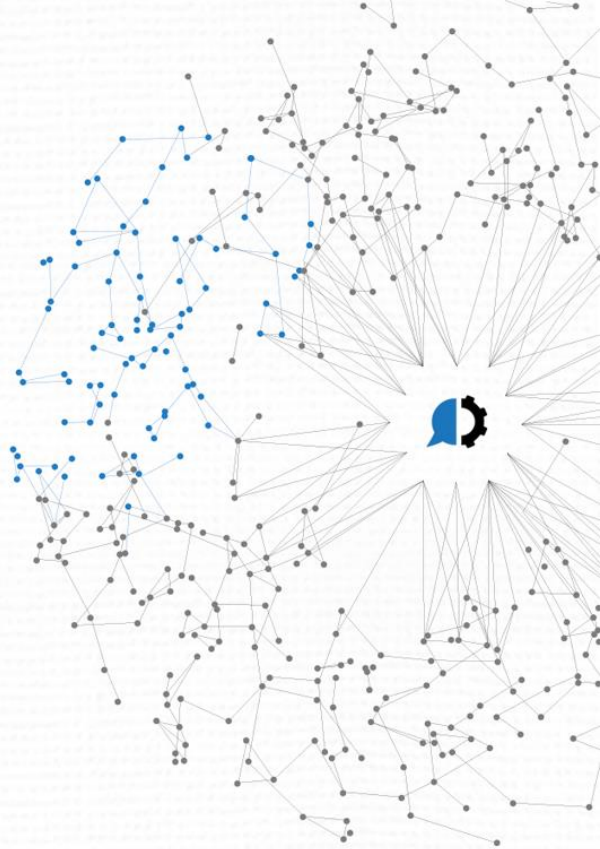
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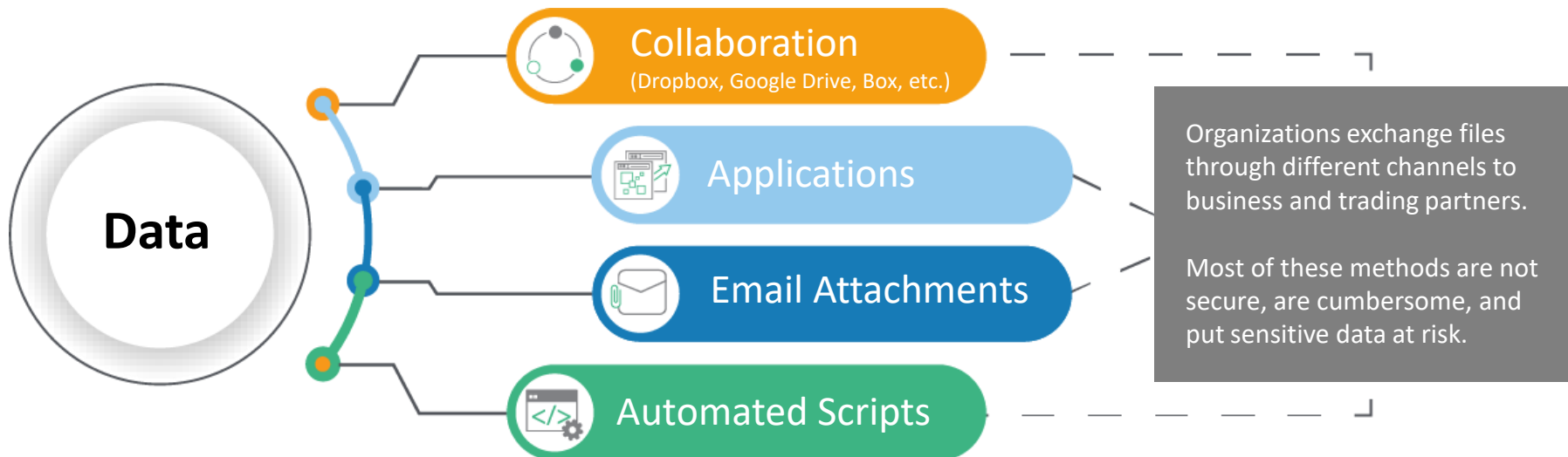# Heath Kath

Sr. Solutions Consultant

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The Context

File Exchange and File Movement

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The MFT Context

Data

Collaboration
(Dropbox, Google Drive, Box, etc.)

Applications

Email Attachments

Automated Scripts

Organizations exchange files through different channels to business and trading partners.

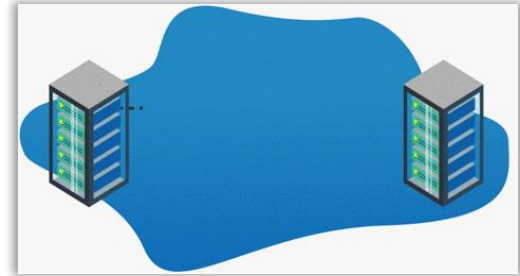Most of these methods are not secure, are cumbersome, and put sensitive data at risk.

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File Exchange Types

▶ **SERVER TO SERVER/PERSON (B2B/B2C)**
  - ▶ Automated & unattended file transfers
  - ▶ No human intervention
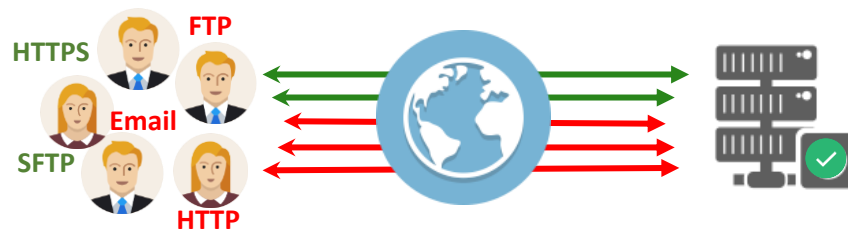 - ▶ Common channels: FTP, SFTP, FTPS, HTTPS

▶ **PERSON TO PERSON/SERVER**
  - ▶ Ad-hoc file transfers
  - ▶ Individual & team collaboration
  - ▶ Common channels: email, FTP, web, cloud services

External Exchanges

Enable **secure and reliable** data channels to deal with partners, providers, customers, etc.

HTTPS **FTP**
Email
SFTP
HTTP

E2E encryption, at rest, to add an extra layer of protection.
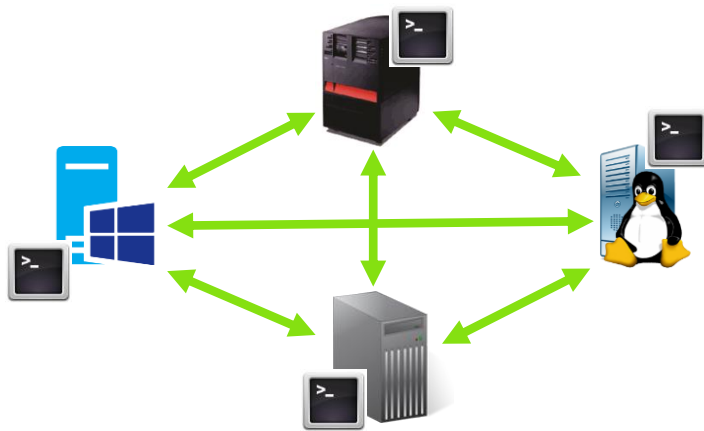
EDI document translation based on homegrown solutions or expensive tools.

EDI

ERP

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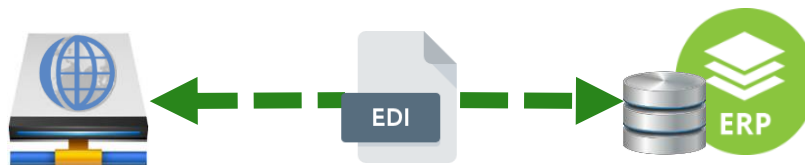
Internal Exchanges

Application integration, data workflows, and ETL, based on manual tasks or scripting.

Internal file movement among different servers, platforms, and applications.

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Internal Exchanges Within Locations

File exchange between **remote locations** (offices, stores, dealers, hotels, etc.) and the headquarters
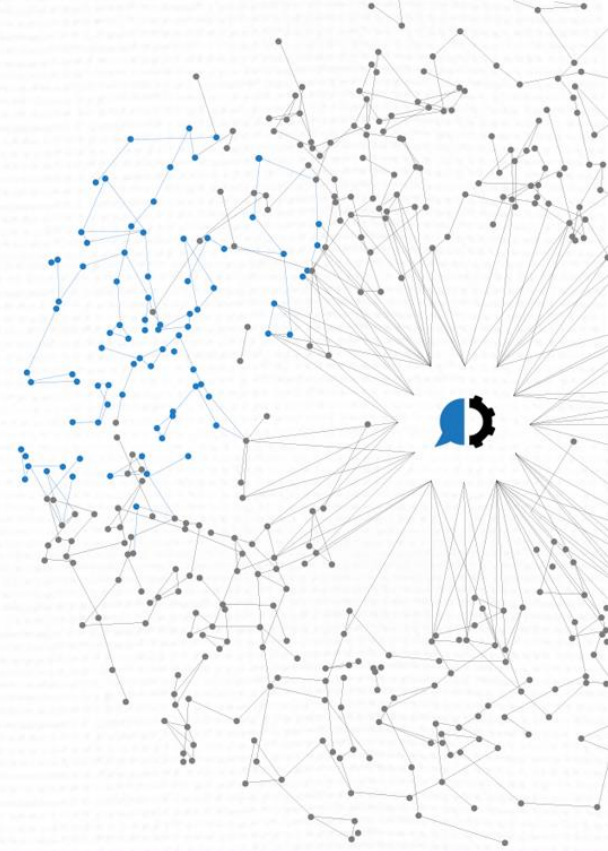
- ▶ Different networks
- ▶ Non-secure channels (FTP, mail)
- ▶ High admin and maintenance costs

Accelerate transfers of large files between remote sites.

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Common Issues with Homegrown Solutions

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Development and Maintenance

- Implementation and changes depend on the development team

- Outdated or misconfigured tools

- Difficult to keep the solution up to date with the latest security standards (PCI with TLS 1.2).

- Heterogeneity of scripts, codes, and programming technologies (Batch, Shell, PowerShell, Java, Python...)

- Replicated and duplicated scripts

- Lack of knowledge of how secure protocols work (SSL, SSH, OpenPGP, AES, DES...)

- Locating and solving problems is time consuming

Decentralized Administration

- ▶ Complex administration of various scripts, tools, and solutions

- ▶ Different applications to activate services to receive information from third parties such as SFTP, FTPS, HTTPS, AS2, etc.

- ▶ Management of service users in multiple applications/systems

- ▶ No integration with Active Directory/LDAP

- ▶ Management of encryption keys is cumbersome

Limited Automation Capabilities

▶ Reliability: No auto-resuming and retry mechanisms to ensure delivery

▶ Simple workflows: Limited automation for file transfer. No data transformation or integration between applications capabilities.

▶ Users manually operating with sensitive data: payment of payroll, orders, etc.

▶ File encryption/decryption is still a manual process

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Audit and Notifications

- ▶ No centralized audit trails

- ▶ Non-existent/incomplete execution log of workflows

- ▶ File auditing

- ▶ Mail alerts not always implemented (i.e. user disabled)

- ▶ Audit compliance: The GDPR, PCI DSS, SOX, HIPAA, Central Banks and more

Date / Time	Command	IP Address	User	File	Remarks
3/14/17 7:46:00	Login	209.191.2.3	partnerabc		
3/14/17 7:47:12	Download	209.191.2.3	partnerabc	orders1.csv	
3/14/17 7:47:14	Download	209.191.2.3	partnerabc	orders2.csv	
3/14/17 7:48:16	Upload	209.191.2.3	partnerabc	confirmation.xml	
3/14/17 7:49:18	Logout	209.191.2.3	partnerabc		
3/15/17 3:23:00	Login - Failed	171.8.79.143	root		Malicious user name
3/16/17 0:13:21	Login - Failed	139.224.24.26	admin		5 invalid login attempts
3/17/17 9:05:43	Login - Failed	125.88.74.122	test		Invalid user id

Security

▶ ENCRYPTION

- ▶ Use of unsafe transport protocols... FTP! Also for internal movements
- ▶ Files being sent without encryption
- ▶ Use of vulnerable algorithms and encryption
- ▶ Passwords in the clear as part of script cod.
- ▶ Missing a key and certificate management system

▶ ACCESS MANAGEMENT

- ▶ Segregation of duties
- ▶ Deactivation of accounts due to failed login attempts
- ▶ Strict password policies; multi-factor authentication

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Security

ARCHITECTURE

- The DMZ network is more vulnerable, and files could be accessed by hackers.
- The credentials are contained outside the security of the private network.
- The availability of the FTP service itself may be compromised.
- Scripts must be created to "move" the files to the internal network.
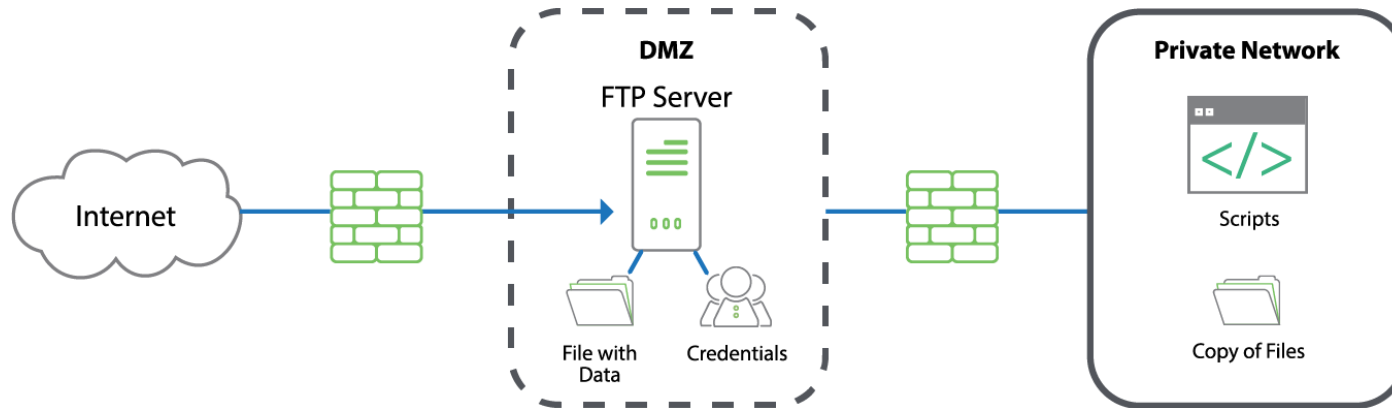
Security

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- ▶ The availability of the FTP service itself may be compromised.
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▶ AVAILABILITY

- ▶ High availability
- ▶ DOS features or brute-force attack
- ▶ High transmission errors and interrupted connections
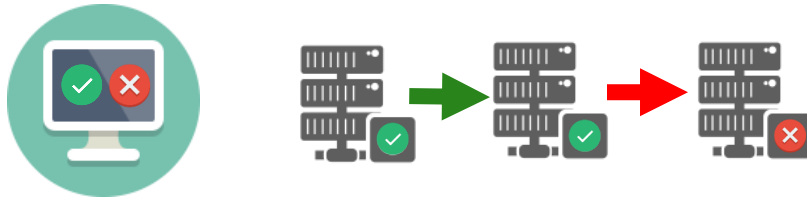
▶ INTEGRITY

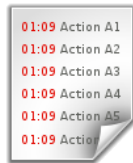- ▶ Has the data been unaltered when received by the recipient?

Common Needs

Protect the data that is being exchanged and guarantee the delivery.

Manage and control file transfers from a central site, a single pane of glass.

Regulation compliance: PCI, SOX, the GDPR, ISO: encryption, auditing, and reporting

Why Managed File Transfer

SECURE FILE EXCHANGE MANAGEMENT

CENTRALIZED ADMINISTRATION

FULL TRACEABILITY AND CONTROL

AUTOMATION

GoAnywhere MFT

GoAnywhere MFT

Modern MFT Solution
A unified web-based solution that has great technology and is being continually developed

Ease of Use
Easy to deploy, maintain, update, and manage as organizations' needs change or develop

Cross Platform
Our customers have diverse environments and need a solution that deploys everywhere

Extensibility
Meets customers where they are now and in the future with flexible pricing and configuration

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Server Connectivity

- File Systems
  - Network Shares (SMB/CIFS)
  - Local File System
  - WebDAV
  - Amazon S3
- Database
  - DB2
  - Oracle
  - Microsoft SQL Server
  - Sybase
  - MySQL
  - PostgreSQL
  - Informix
- Enterprise Messaging (JMS)
  - Websphere MQ
  - SonicMQ
  - ActiveMQ
  - SwiftMQ

- FTP
  - Standard FTP
  - SFTP (FTP over SSH)
  - FTPS (FTP over SSL)
  - SCP (Secure Copy)
- File Acceleration
  - GoFast
- Web Sites
  - HTTP
  - HTTPS (HTTP over SSL)
  - Web Services (SOAP/REST)
  - AS2
- Email
  - POP3
  - IMAP
  - SMTP
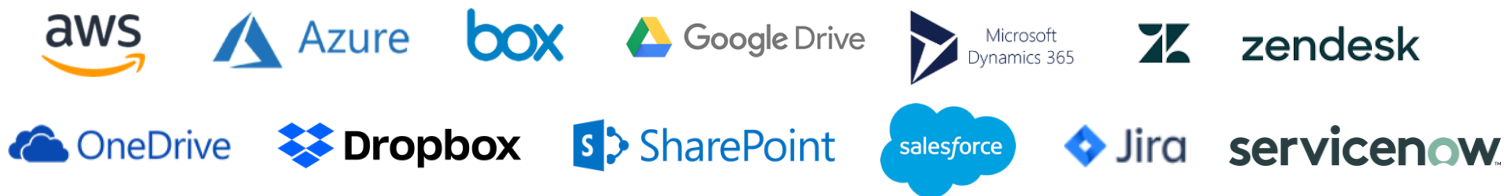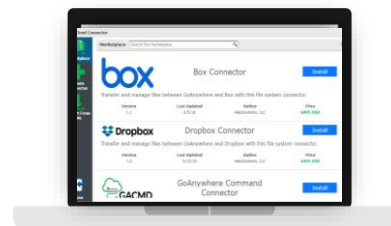
Cloud Application Connectors

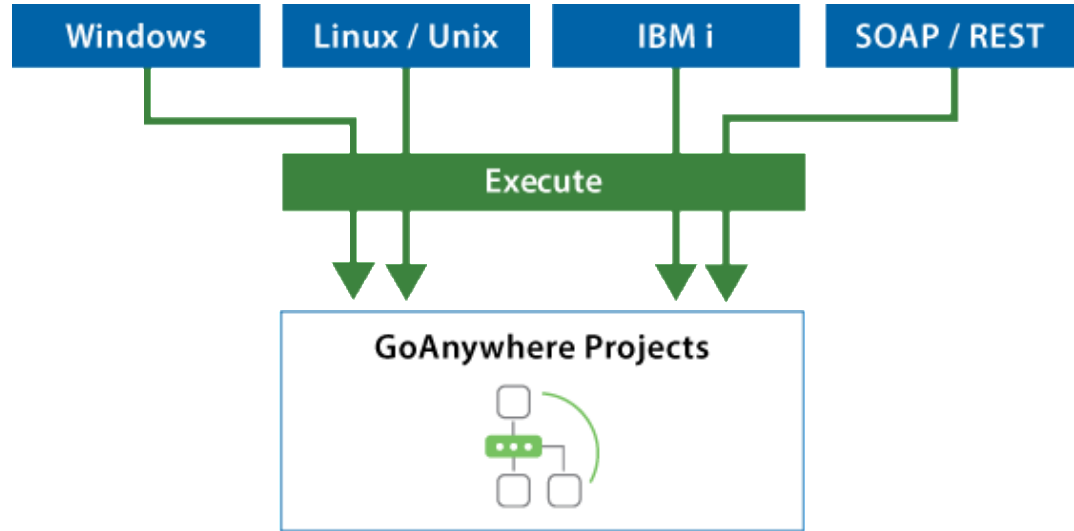**Out-of-the-box integration** with the most common cloud applications

Build your own Cloud Connectors with our intuitive drag-and-drop interface.

Download Cloud Connectors from our **online marketplace.**

Commands and APIs

▸ Run workflows in GoAnywhere using the provided commands and APIs

▸ Available for IBM i (iSeries), AIX, UNIX, Linux and Windows

▸ SOAP and REST enabled

▸ Requests sent over HTTP/s

▸ Override variables

▸ Run interactive or batch

▸ Trap for errors

Windows	Linux / Unix	IBM i	SOAP / REST

Execute

GoAnywhere Projects

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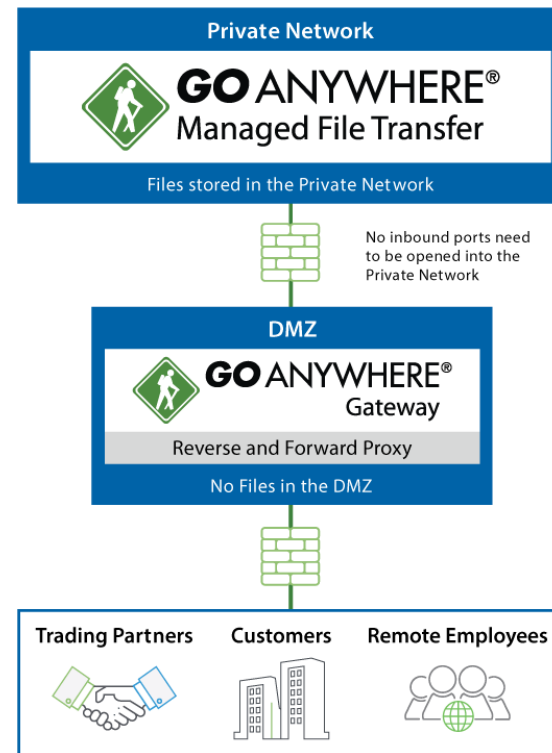# GoAnywhere MFT Advantages

GOANYWHERE®
Managed File Transfer

Multiplatform - Installs to most operating systems including IBM i, Windows, Linux, AIX, UNIX, Amazon and Azure.

Batch and Ad Hoc - Allows organizations to perform both scheduled batch transfers and user-to-user file sharing.

Auditing - Generates detailed audit logs of all file activity including batch, ad hoc, inbound and outbound transfers.

Interface - Provides a browser-based interface for all administration and monitoring. No desktop client is needed.

Inbound Services - Allows inbound connections from trading partners over SFTP, FTP/S, HTTPS and AS2 (Drummond Certified).

Key Management - Provides integrated tools for creating and managing Open PGP keys, SSH keys and SSL certificates.

Encryption - Protects files "at rest" and "in-motion" with FIPS 140-2 validated AES-256 encryption.

Admin Controls – Implements role-based administration, security domains and granular permission controls.

Agents – easily automate and secure file transfers from/to remote locations all managed from the central MFT server.

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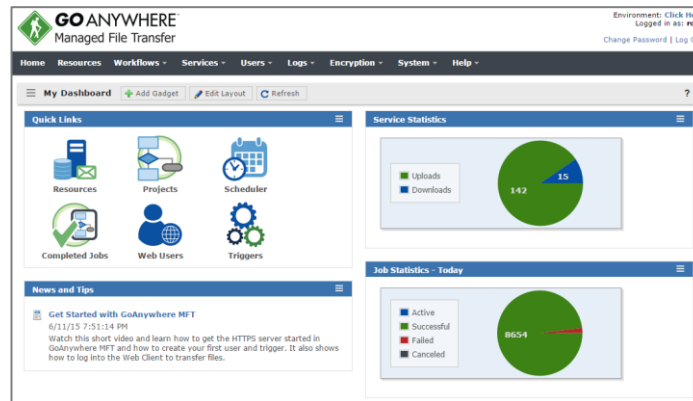
GoAnywhere MFT Advantages

✓ **Private Cloud –** Eliminates the need for public file sharing services like Dropbox, Box, Google Drive and OneDrive.

✓ **Customer Portal –** Allows organizations to provide a custom-branded web interface for secure file transfers over HTTPS.

✓ **Synchronization -** Includes mobile, Windows and Mac OS clients for Enterprise File Sync and Sharing (EFSS).

✓ **Secure Mail –** Allows employees to send large or confidential files through secure email links. Includes an Outlook plugin.

✓ **Two-Factor -** Authenticates with user credentials and RSA SecurID, RADIUS, SSH keys or X.509 certificates.

✓ **DMZ Secure Gateway -** Keeps services and files in the private network (out of the DMZ) without requiring inbound ports.

✓ **Job Control -** Provides extensive job management features including job queues, run priorities and clustering.

✓ **File Transfer Acceleration -** Enables high speed transmission of large files between systems using UDP channels.

Private Network

GOANYWHERE®
Managed File Transfer

Files stored in the Private Network

No inbound ports need to be opened into the Private Network

DMZ

GOANYWHERE®
Gateway

Reverse and Forward Proxy

No Files in the DMZ

Trading Partners   Customers   Remote Employees

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GO ANYWHERE®
Managed File Transfer

GoAnywhere Leads as #1 MFT Solution, According to Info-Tech Research Group

GoAnywhere had the highest satisfaction score and net emotional footprint when compared to Progress (formerly Ipswitch) MOVEit, Globalscape EFT, Citrix ShareFile, and 30+ other file transfer solutions
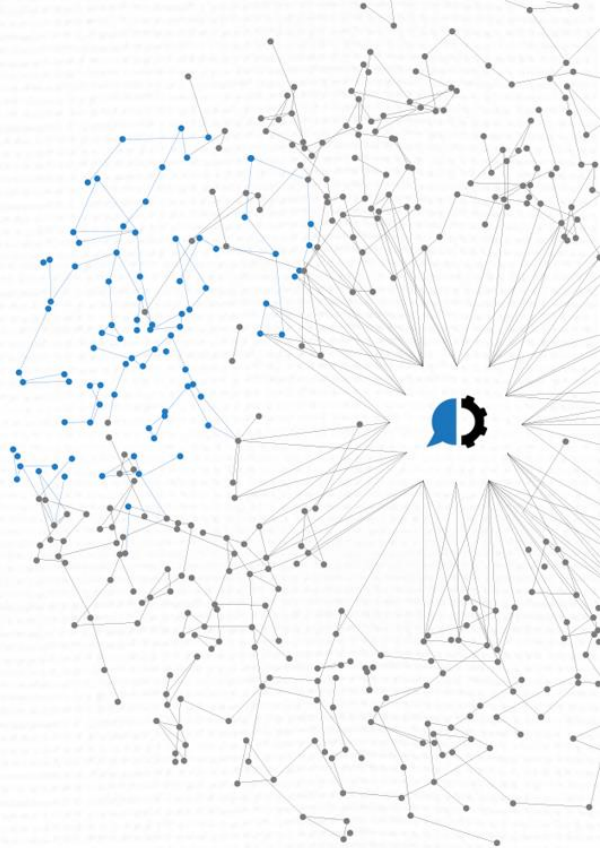
Download the report at
www.goanywhere.com/info-tech

SoftwareReviews — MANAGED FILE TRANSFER — Data **Quadrant**

PRODUCT INNOVATOR — LEADER

GoAnywhere MFT

Coviant Diplomat MFT
Ipswitch MOVEit System
Globalscape EFT
IBM MFT

PRODUCT FEATURES AND SATISFACTION

Oracle MFT
Citrix ShareFile
SolarWinds Serv-U

Adobe Send & Track

CHALLENGER — SERVICE STAR

VENDOR EXPERIENCE AND CAPABILITIES

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Live Demo

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  ▶ www.goanywhere.com

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Any
Questions