EnduraData
Pervasive data and content

E N D U R A D A T A

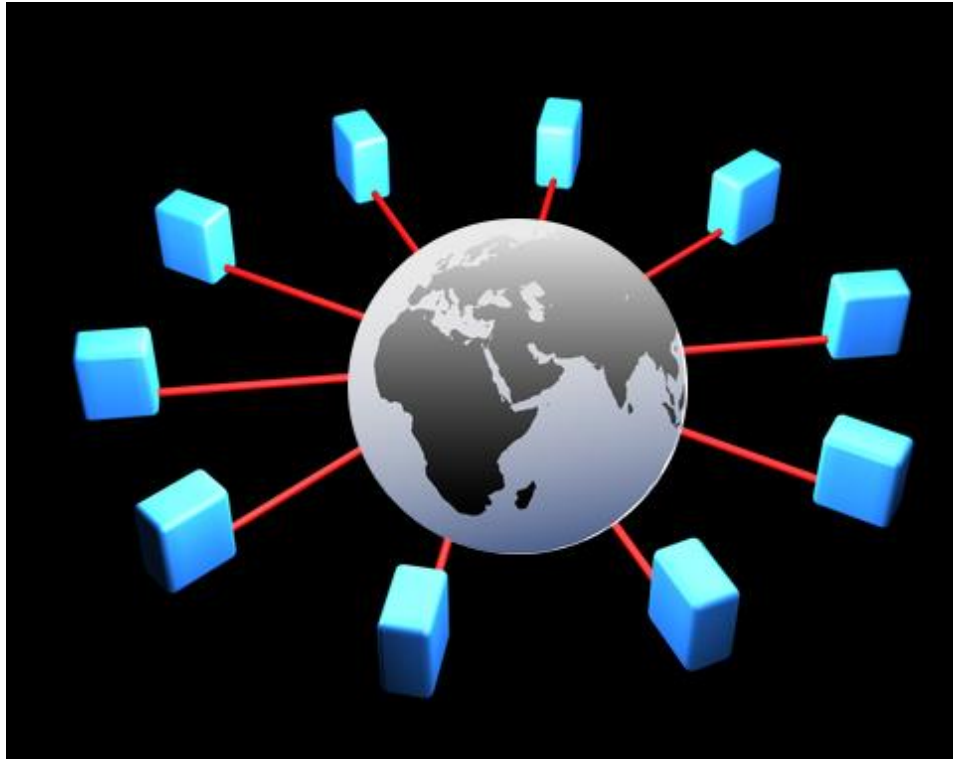## EDpCloud: A File Synchronization, Data Replication and Wide Area Data Distribution Solution

CROSS PLATFORM AUTOMATIC FILE REPLICATION AND SERVER TO SERVER FILE SYNCHRONIZATION

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EnduraData EDpCloud

WHAT IS IT?

Enduradata's EDpCloud software is a cost effective and secure solution that allows IT and operations to distribute data and applications files from one computer to one or more computers. The file size can be small or very large. EDpCloud combines the solution with work flow automation to achieve significant operational efficiencies and low total cost of ownership.

The solution allows you to synchronize data from (a) one computer to another computer; (b) one to many computers (c); many to one computer. The computers can be connected using high speed local area networks or the Internet. No additional hardware or software is required to use EDpCloud. Files can be deleted from one location and restored at any time. Older versions of your files can be retrieved if you need to do so. Data can be accessed from anywhere in a secure way.

Above all, EnduraData provides a full range of services to integrate its solution in various operations.

HOW DOES IT WORK?

By installing EnduraData's content distribution software on your server or PC; you decide what data to distribute to remote locations for safekeeping and for sharing with authorized users. The software does the rest by sending only data that changed. The software will keep as many versions of the data as you want. You can create additional snapshots and archives any time you want. Only changed data is sent across the network to rebuild a complete mirror of your data on a remote PC. Therefore, reducing risks, costs of management and increasing availability. Unlike traditional backup, you have full access to your remote data without the need for restore or for additional software agents.

EXAMPLES

- An employee that works from home can save critical files on the corporate site in a transparent automatic and efficient way. Her work is available to her team in all remote sites auto. Hence increasing the team's access to data and improving productivity.

- A company with many branches uses EDpCloud to send content to the data center, to backup important data to a remote location, and to post some of the data to multiple production web sites as it is created. This reduces costs and increases the value of the data through automation and near real time information dissemination.

- A printing company receives jobs from its clients and graphic artists each time they make changes. These changes are validated, edited, and automatically queued in the workflow or sent to printing spool areas in a consolidated and efficient way. Furthermore, this increases the reach of the printer and increases revenues while reducing customers 'costs and reducing turn around time.

- A government agency has many sensors in the field to collect data. EDpCloud is used to automatically ingest data in a single data center's database and workflow. Once data is processed, operational products are created and automatically distributed for posting on several distributed web sites. Another copy of the data is sent to long term archive repository. This automated process improves the agencies' operations and saves costs significantly by reducing labor costs, streamlining operations and using fewer storage tapes.

- A financial institution generates transaction logs that are used in production. The same transaction logs are replicated to a remote development or testing farm. Hence, developers live system data for testing. This reduces the cost of development and helps avoid any surprises and delays when the system is deployed in production environments.

NETWORK CONFIGURATION

Support of LAN, WAN, WLAN or other TCP/IP based private networks.

One to One Computer Replication

This configuration is used to replicate and distribute data from one site or host to another site or host within the same LAN or in a remote site. The hosts can be heterogeneous since EDpCloud is a cross platform solution that works with operating systems such as Macs, Windows, Linux, Solaris, etc.
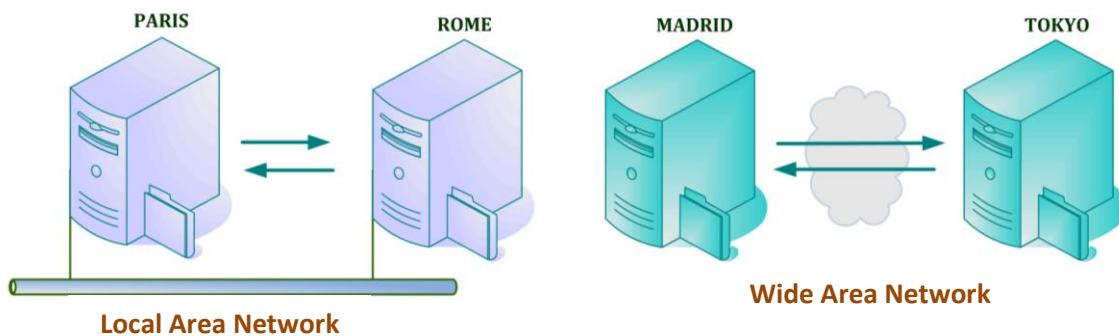

Fig. 1: One to one computer replication

One to Many Computers Content Distribution

This configuration is used to replicate, distribute and consolidate content from one site or host to many sites or hosts. The remote hosts can have the same or heterogeneous operating systems, hardware or storage. This configuration allows users to:

- Reduce costs by synchronizing data automatically between one geographic site and many other remote geographic sites
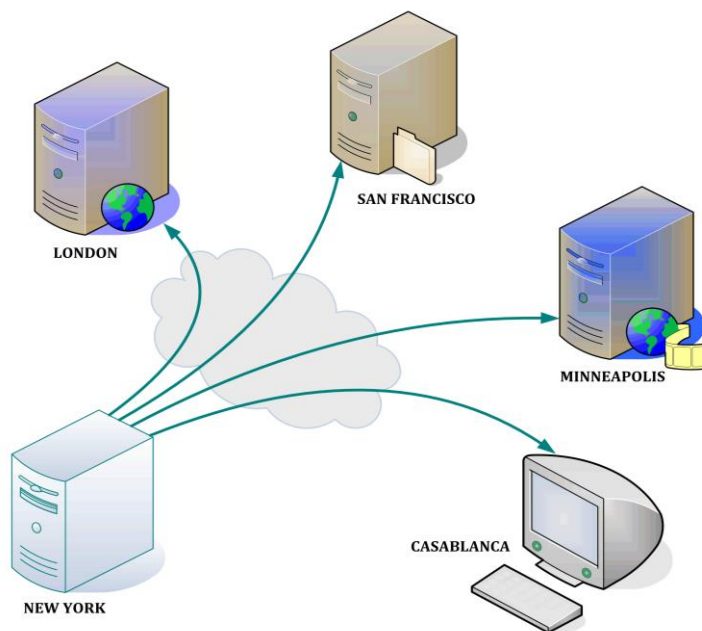- Leverage data to increase revenues.

Fig. 2: One to many computers content distribution

Many Computers to One Content Distribution and Consolidation

This configuration is used to send data from many sites or hosts to a single site or host, and to consolidate data into a single point. Therefore allowing customers to:

- Aggregate data
- Consolidate backups
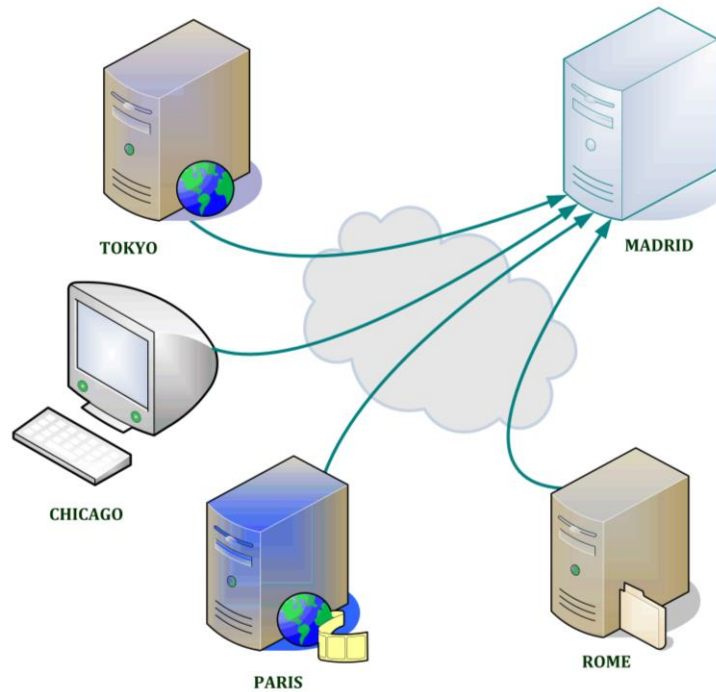- Reduce risks
- Reduce costs.

Fig. 3: Many computers to one content consolidation and distribution

CROSS PLATFORM CAPABILITIES

EDpCloud is available and interoperates with multiple platforms: Windows, Mac, Linux, Solaris x86, Solaris SPARC and other UNIX platforms. The solution works with existing hardware, existing storage and existing file systems.

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PARTIAL LIST OF FEATURES AND BENEFITS

FEATURES	BENEFITS
Easy installation and configuration	Install and configure in minutes
Central management console	Easy to learn, use and manage Save on initial cost and on management costs Low cost of ownership Increase operational efficiencies
Copies of your data stored remotely (automatically)	Allows your teams to have access to data on remote locations Increase operational efficiencies, reduce risks and costs Avoid data loss due to mistakes, hardware failures or disasters Recover data from anywhere
Advanced synchronization algorithms	Uses data de-duplication technology Sends minimal amount of data over the network Synchronizes faster: Reduces the windows of vulnerability to data loss and make data available remotely faster (Risk and cost reduction).

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FEATURES AND BENEFITS (Cont'd)

Data sharing between work groups and processes	Allows you to access the same data shared between remote groups
Leverage existing investments hardware	Works with existing file systems and hardware Increases ROI No other downloads, no compiling
Leverage investments in existing software	Works with existing software (Cost reduction) Runs on many existing software platforms and comes with all required modules Helps save money and time
Complete solution	Does not require the download of any other third party software Allows the customer to install and configure the software in minutes and to focus on business tasks Avoids disaster when it strikes
Data compression	Saves on bandwidth and synchronization time Reduces the time to end of synchronization (RISK And COST control)
Copy only data that changed	Saves bandwidth Reduces windows of vulnerability and avoids disasters. Increases operational efficiency
Versions, archives and snapshots support	Keeps as many versions as you want. Creates your own snapshots Revert to any older versions of your data if you need to recovers deleted or corrupted files. Preserve evidence (Compliance)
Cross platform solution	Interoperate between hardware platforms and operating systems One solution, one interface, one source (reduce costs)
Multi-threaded software	Takes advantage full of multi- processors
Use in LAN, private networks or INTERNET	Helps build your own cloud, use co-location, external ISPs or your own satellite offices to have remote copies of your data
File filtering using file patterns	Allows you to filter files sent or accepted based on file names or patterns in the file name. Example: a. send only documents but not *.exe files. b. accept all *.pdf and *.db files but reject *.o files.
Multiple levels of security, access control and transactions audit trail	Allows only authorized users and servers to send data to destination servers for synchronization. All communications between systems are encrypted by default. Files are encrypted at rest. Password protected access. Data push requires both a valid password and a valid source host address. Use logs for audit trail.
Use of any type of storage	Synchronizes from and to: NAS, SAN, DAS, etc.
Use of any type of file systems	Synchronizes from and to: ext2, ext3, XFS, CXFS, NFS, CIFS, FAT, ... NFS support
Use of strong journaling	Uses journaling to reduce the effect of link and network failures Resumes from where it left off Resilient and saves time Reduce windows of vulnerability
Bandwidth limits	Control the bandwidth used by each link or receiver, set priorities for each job. Set limits on the bandwidth used.
Priority Control	Set priorities for individual distribution.

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FEATURES AND BENEFITS (Cont'd)

One to one replication	Allows you to have access to remote copies of your data. No restore needed. Just point your computer to the remote location and start using the data. Increase availability and reduce data loss. Backup your files from Windows to Linux, WINDOWS, Mac, ...
Many to one replication	Consolidates data to a single remote location Backup multiple local or remote PCs to a single server Archive files from many sources to a single server Takes advantage of collecting data from many remote sites to a single site Reduces management and backup costs Ensure that all edge sites are protected
One to many content distribution	Distribute content between many sites for sharing or for protection
Cascaded distribution	Scales very well by cascading and distributing the load and risk.
Stats and logs records	Reviews logs and statistics
Pause/Resume capabilities	Pauses or resumes replication any time you want
Support of many operating systems	Supports Mac, Linux, Windows, Solaris x86, Solaris SPARC, UNIX
Compact software	Uses low memory foot print and usage
Ease maintenance	Easy upgrades and maintenance. No need to reboot No need to compile or recompile anything
Friendly professional support	Friendly 9-5 or 24h/7 support Upgrades and maintenance allow you to have painless access to new versions and new enhancements

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