
BACK  **IT**  **UP**
UNIVERSITY *of* PENNSYLVANIA

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Network based backup/recovery service from ISC

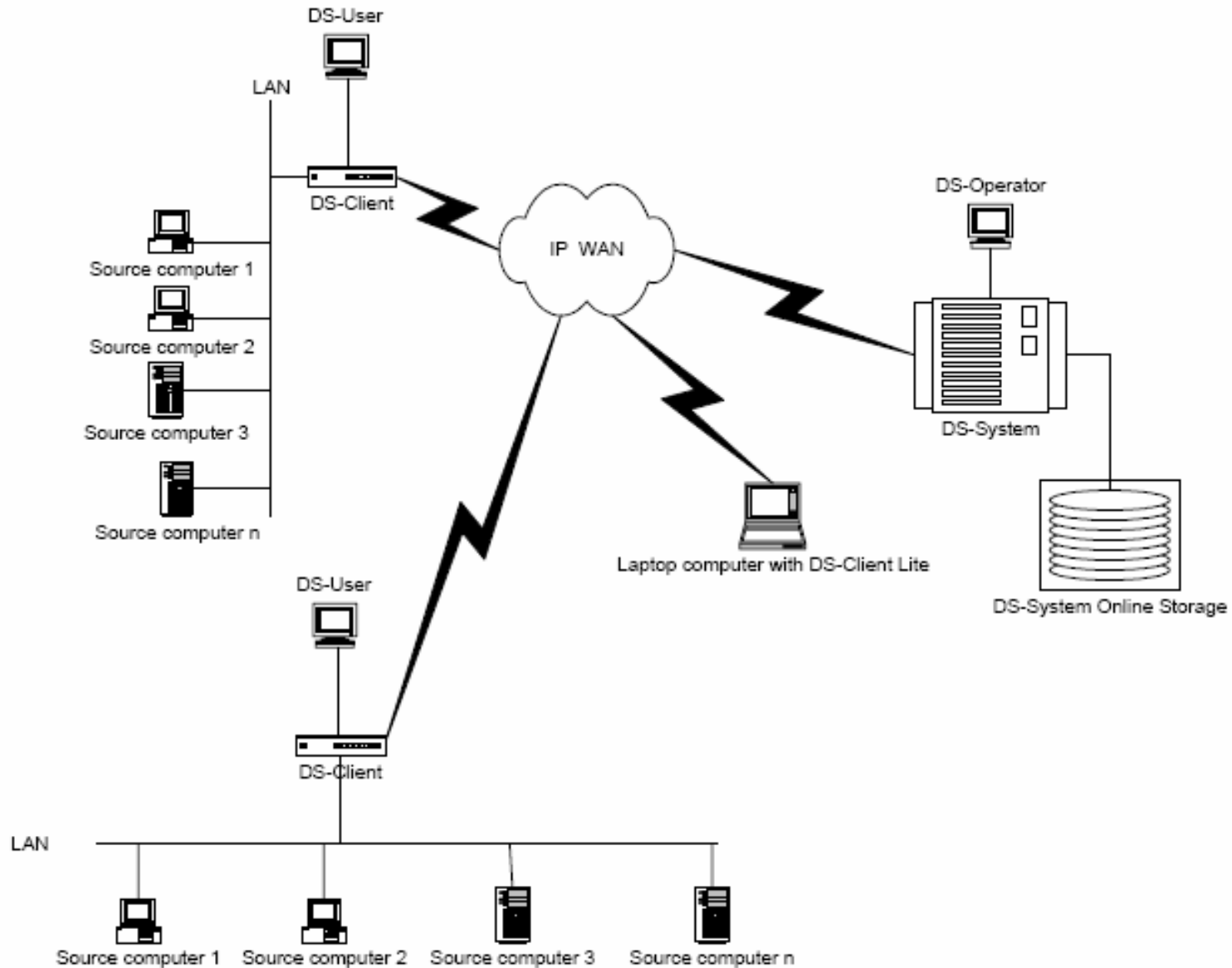
Agenda

- Background
- Architecture
- Supported platforms
- How it works
- Features
- Questions

Background

- Selected vendor: Asigra Televaulting
- Pilot with VPUL and Dental School
- Seamless Connection with SEO Business Continuity program
- Successful recovery of data at Oct 2006 disaster recovery test
- Pricing
- Support Structure

Architecture



Supported OS and Apps

- Operating Systems
 - AS/400
 - Novell
 - VMware
 - Windows (NT, 2000, 2003, XP)
 - Linux (SUSE, Red Hat)
 - UNIX (any flavor)
 - Mac OS X
- Databases
 - Oracle
 - MySQL
 - DB2
 - Postgres
 - SQL Server
 - MSDE
- Email
 - Exchange
 - Outlook
 - Notes
 - Domino
 - Groupwise

How it works

- Backups
 - Install DS Client(s)
 - Create “backup sets” for source computers
 - Schedule backups
 - Notifications
- Restores
 - By generation, file, database, even a specific email
 - On demand
 - Restore to same location or a new location
 - Cross-platform
 - Bare metal restore (windows)

Encryption

- Handled on DS Client, not DS System
 - Only specific DS Client that backed up data can recover it
 - All transmitted packets are encrypted
 - Data stored on DS System is encrypted
- Dual key 128-, 192- or 256-bit
- Source computer credentials encrypted and stored locally

Compression

- Compression
 - ~ 2:1
- Delta processing
 - Not file-level: Block-level analysis of data (except AS/400)
- Common File Elimination (CFE)
 - Common files that exist across multiple directories/computers
 - Only backed up 2 times
 - 3rd time and beyond: not backed up
 - Judged to be common based on CONTENT, not name

Other features

- Autonomic healing
- Allocation limits
- Message level restore (Exchange, Outlook, Lotus, Groupwise)
- Summary reports

Questions?



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