

1

A Real World Server Consolidation

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Sytek Services

- Formerly VM Assist Inc.
- Why the Name Change?
- Nationwide VM & VSE Services
 Provider Primarily System Support
- Now providing OS/390 Services
- Consultants Work from Their Homes Across the Country



Last Year's Environment

Two Novell Netware Servers

- Non-Y2K com pliant& disk-constrained
- Netware-proprietary communications
- Outside Vendors Provide:
 - -Webhostingservices
 - E-m ailservices
 - Remote backup services



Last Year's Environment

- Outdated MS-DOS In-house Software
 - Time Tracking Application
- Individual, Loosely Connected PCs





Current Configuration

- Novell Servers Eliminated!
- VM/ESA on a Dell Workstation
 - -Using "*Flex-ES*" from Fundamental Software
 - 27G ig (data space) Raid-1 disk
 - Desktop Tape Drive
 - Laser Printer
 - Communication Equipment
 - 256M DSL line; Ethemet
- Individual, Loosely Connected, PCs



Web Server

- Formerly Hosted by ISP
- Now Hosted on our VM Platform
- Using Sterling's VM:Webgateway
- One CGI needed Mailto
- Equivalent Performance
- Greater Reliability



E-mail

- Formerly Hosted by ISP
- Now Hosted on our VM Platform
- Using URI POP Server
- Restrictions "Tolerable"
 - -4.8 Megemailsize 1 in it
 - 50 e-m ails retrieved atonce
- Removed "annoying" ISP SMTP Restriction



E-mail Backup

- Goldmine for our E-mail Client
- Built-in Synchronization and Archive for:
 - E-m ail
 - Critica l Business Data



Benefits

- Lower Cost
 - Adm in Costs (Novelland ISP Interface)
 - ISP Costs (for W eb and E m ail)
- Greater Flexibility
 - Add & Remove E-mailAddresses & Aliases
 - Changes to our Web Site & CGIC apability
- Increase in Reliability & Availability
- Unsupported Netware s/w
- Elimination of ISP's SMTP Restriction



- Delays The Biggest "Why"
- IMAP E-mail Server
- ADSM for PC Backup
- NFS for file Sharing
- Time Tracking Application



- "The Best Laid Plans..."
- Four Months to Install a Working DSL Line
- Server Moved from San Francisco to Bellingham, WA Corporate Offices
- ISP "Difficulties"



IMAP

- IBM IMAP Server Still in Beta Test
- Our Current E-mail Client Does Not Support IMAP
- Currently No Plans to Pursue IMAP



Backup

- Evaluated ADSM
- Concluded: Not Practical Because:
 - Volume of data across dialup lines
 - Som e consultants can only getslow (28.8K) connections
 - A 11 consultants have personal data on our personal PC s
- Individual Consultants Are Responsible for PC Backup



NFS File Sharing

- Files Currently Still Shared on a PC
- VM NFS Still to be Implemented
- Delayed Due to Scheduling Conflicts
- No Technical Obstacles to Implementation



Time Tracking Application

- Old MS-DOS Application
- Currently Still Using It As Year 1900 (Leap Year Nota Concern for this Application)
- Still Plan on Replacing It
- Was Planned to be on VM using Java, Using DB2 (aka: SQL), QMF for Windows
- "Proof of Concept"



Java on VM

- Java vs. Rexx for Portability
- Performance
 - Inadequate for a Production Application
- JDK 1.1.4 (Recently Upgraded to 1.1.6)
- OS/390 Java is 1.1.8 going to 1.3.x or "Java2" Functionality
- Is Java on VM Strategic? or "Functionally Stabilized"?



What Does The Future Hold?

• VM – or Hardware?

- A fter 20+ years working with VM, it may finally be time to look elsewhere...
- OS/390
 - Java & Websphere
 - Time Tracking Application Host
 - Lotus Notes for E-Mail



What Does The Future Hold?

- Linux
 - "Has the Linux 'dream machine'arrived?"
 By ZDNetNews
 - Expecting m ore comments like:
 "XYZ is not supported on VM. Note that XYZ
 W ILL be supported on Linux for S/390 w hich of course runs just great under VM."



Summary

- PC to Mainframe Server Conversion <u>Is Viable</u> and <u>Can Be Cost Effective</u>
- Choose Your Server Wisely





Thank You!

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