

IPv6/VSE Migration

VM WorkShop 2018
Barnard Software, Inc.
Jeff Barnard

IPv6/VSE Migration

It's easy, just do it ...

IPv6/VSE Migration

Any Questions?

Thank you!

IPv6/VSE Migration

- Use the IPv6/VSE Migration Guide
 - Also, IPv6/VSE IPv4 Installation Guide
 - And IPv6/VSE IPv4 Users Guide
- This presentation was created using the Migration Guide
- First question everyone asks ...
Can I run both products at the same time?
Yes. No need to 'cut over', easy to run together

IPv6/VSE Migration

- Bring up the BSTTINET TCP/IP stack
- Bring up the BSTTFTPS FTP Server
- Bring up BSTTVNET TN3270E Server
- Migrate FTPBATCH to BSTTFTPC
- Test/modify FTP Server scripts (if necessary)
- Migrate CSI EXEC TCP applications
- Customize AFTP, ALPR (as needed)
- Install/enable SSL support (as needed)

IPv6/VSE Migration

- REXX Tools ...
- BSIREXXC.PROC, Symbolic Var wrapper
- BSTTAFTP.PROC, Auto-FTP
- BSTTALPR.PROC, Auto-LPR
- REXXAFTP.PROC, CSI Auto-FTP Emulation
- BSTTPREP.PROC, EXEC TCP converter
- BSTTC2BF.PROC, CSI to BSI batch FTP
- BSTTC2BE.PROC, CSI to BSI batch Email

IPv6/VSE Migration

- Start with the Stack
- Select Stack ID, IP address, OSAX Adapter
- Bring up BSTTINET IPv4 TCP/IP stack
- BSTTGJCL.PROC will generate starter JCL
- IP, MASK, GW, CUU1, CUU2, PORT, DNS
 - Simple

IPv6VSE Migration

- BSTTFTPS FTP Server
- Easy, simple JCL
- Connect with your favorite FTP client
 - Browse the VSE/Power LST queue
- Update BSTTSCTY.T member to add security
- See IPv6/VSE FTP Security Supplement Guide

IPv6/VSE Migration

- Configure BSTTVNET TN3270E Server
 - Port numbers, LU names
 - Generic vs. Specific LU name assignment
- TERMINAL sessions, PRINTER sessions
- DIRECT, LPR printer sessions too.
- Startup and connect with your TN3270E client
- Customize standard or VTAM emulation menus

IPv6/VSE Migration

- BSTTFTPC Batch FTP
- Option: Emulation vs. Convert
- Actually simple, all batch FTP jobs are basically the same. Change one and you know how to change them all.

IPv6/VSE Migration

- BSTTMTPC Batch Email
- Option: Emulation vs. Convert
- Actually simple, all batch Email jobs are basically the same. Change one and you know how to change them all.

IPv6/VSE Migration

- Everything we have discussed is documented in the IPv6/VSE Migration Guide in much greater detail
- But what about a real life example ...

TCP/IP Migration

Mike Farmer
Commonwealth Automobile Reinsurers

Presented by Jeff Barnard

Our System

- z114
- z/VSE 5.2
- CICS TS and CICS Transaction Gateway
- Datacom/DB
- Datacom SQL Server
- Batch



History

- Old Setup
- TN3270
- FTP Server
- Batch FTP
- Auto LPR
- CICS TS and Transaction Gateway
- Datacom/DB and SQL Server

Why Switch?

- Stack Storage issues ...
 - Causing re-cycle at unexpected times
- Security Exit issues ...
- Finally, enough ...

Initial Contact/Installation

- Contacted BSI
- Discussed issues with BSI
- Downloaded and Installed IPv6/VSE
 - Used test LPAR
 - Shutdown TCP/IP for VSE
 - Started IPV6/VSE
 - Very simple

Initial Testing

- CICS TS, just worked
- Datacom/DB, SQL Server, just worked
- TN3270, Just converted definitions
- Batch FTP
 - Easy to change
 - Choose not to use FTPBATCH emulator
- Auto-LPR
 - REXX based, BSI gave us basic REXX EXEC
 - Allows us to do just about anything

Production

- Cut over
 - Used weekend
- Shutdown TCP/IP for VSE, Started IPv6/VSE
- No apparent changes seen by users
- Operations did visual double check
 - No issues found

Post Cut Over

- Issue with FTP server (we thought)
- Remote clients lying about data
 - ASCII vs Binary
 - Fixed vs Variable length data
 - Format specified in contract!
- Worked w/BSI to adapt FTP Server

Post Cut Over

- Exposed issue with duplicate lines/data
- Operations was fixing files manually
- Fixing files no longer necessary
- Operations very happy

Post Cut Over

- No longer cycle TCP/IP stack
- FTP times reduced by 30%
- Operations feedback
 - “It just runs”
 - “100% better”
- Governing Board
 - Very happy
- No longer have to support TCP/IP

Future

- Currently have external SSL appliance
- Moving to z/VSE based SSL
- Fun!

Questions?

Thank You

Mike Farmer
Commonwealth Automobile Reinsurers

mfarmer@commauto.com