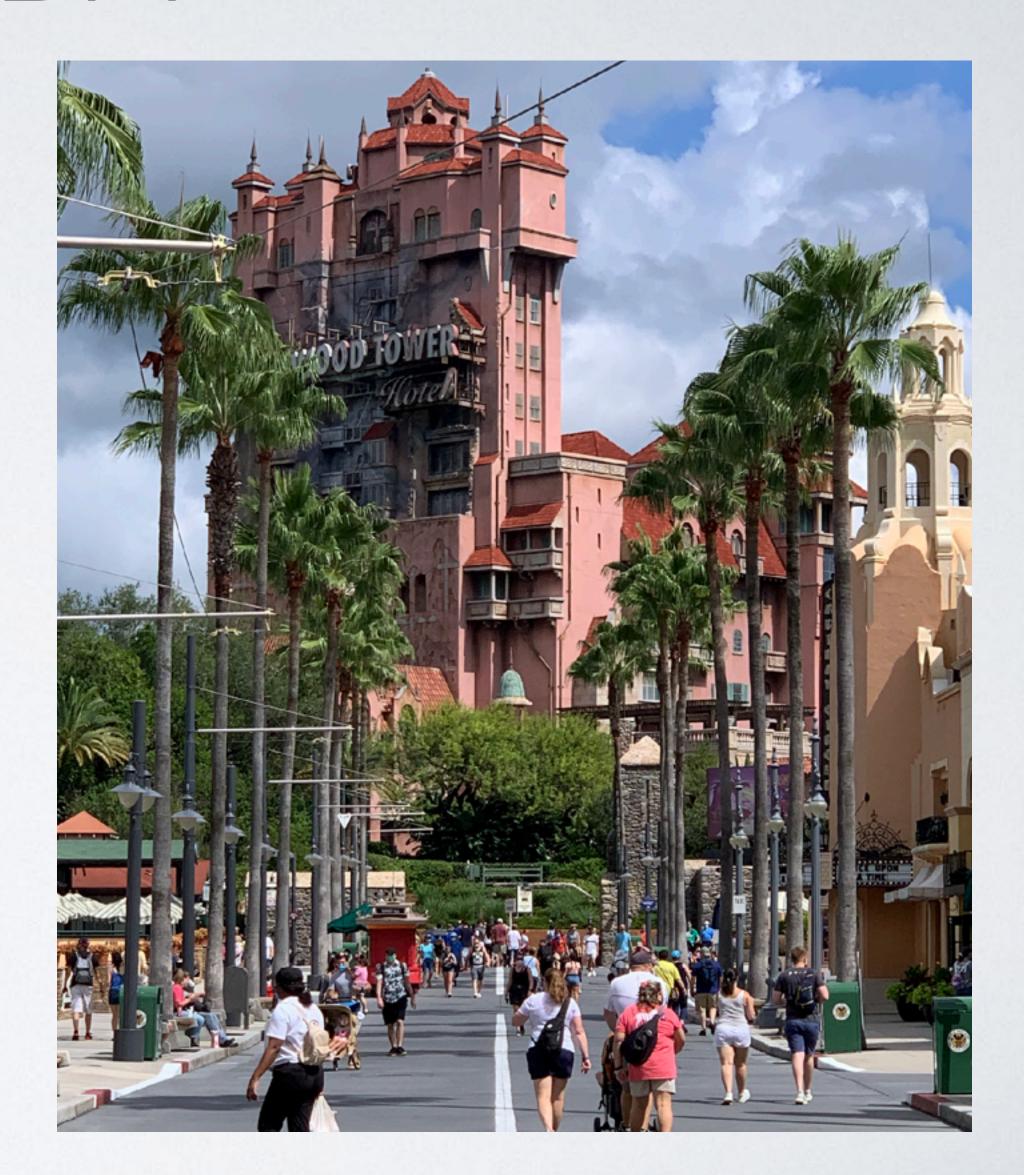


AGENDA

- Why Go to SHARE?
- Odds and Ends
- Quotes of Interest
- Best Sessions
- Other Sessions of Interest
- System Z Strategy
- z/OS 2.4 Upgrade
- SHARE Status



WHY GO TO SHARE?

- z/OS 2.4 Upgrade Planning and User Experience
- Late-breaking z/OS 2.4 and z/OS 2.3 News
- Networking with peers and IBM developers and executives
 - At FW, Spent an hour in a z/OSMF Lab with the z/OS Architect
 - A Story later related to Learning things and Knowing People Through SHARE
- SHARE Requirements Carry More Weight with IBM than RFEs

WHY (DO I STILL) GO TO SHARE?

- Because I'm a Z Person who has attended these conferences since 1979; first GUIDE, then SHARE
- Networking with Friends
- Staying Current and Being Re-energized about z/OS
- SHARE Virtual is Cheap (and I Had Permission)

- Hot Topics Still Maintained by IBM Systems Magazine at http://

 ibmsystemsmag.com/IBM-Z/Hot-Topics
 - Recent Hot Topics include "ServerPac Installation Using IBM z/OS
 Management Facility", "Enabling TLS 1.3 in System SSL Applications"
 and "Run Linux on IBM Z Docker Containers Inside z/OS"
- Search for "SHARE Association" to find the SHARE App
 - Note: SHARE App Is NOT Used for SHARE 2020 Virtual

- Thursday Sept. 24 Keynote "Greatest Invention of All Time" by Ravi Patil of Broadcom
 - Longitude problem solved by an accurate time (to measure distance from Greenwich)
 - A British carpenter Harrison developed a watch for use at sea (chronometer)
 - 1846 anesthesia
 - Printing Press 868 A.D. Chinese printed book (500 years before Gutenberg
 - Internet is virtual printing press printing fomented change as does the internet

- Substantial increase in IBM Z Customer on Demand exploitation in 2020 compared with 2019
- z/OS Strategies: Resiliency, Security, Workload Enablement, z/OS Simplification
- z/OS Authorized Code Scanner (previously known as Integrity Scanning Tool) Now Available for z/OS (a Priced Offering)

- Curious about some new function that I mention here or you hear about elsewhere, then checkout this website to help you locate details:
 - https://www.ibm.com/support/pages/new-function-apars-zos-platform
- Apple uses IBM HyperProtect tools running Z platforms in the IBM cloud to secure Health Data for customers

QUOTES OF INTEREST

- "z/OSMF is critical to the future of z/OS" Dave Jeffries, IBM VP z/OS
- "None of my personal acquaintances can afford a mainframe" unknown survey respondent per IBM's Scott Engleman
- · "Sleep is for the weak and feeble" by Mark Wilson of RSM Partners
- Broadcom "is hiring in the triple digits in its mainframe division" Nicole Fagan of Broadcom

- All Recorded Sessions and Files are at https://virtual.share.org/library#
- · 28075 What's New in z/OS 2.4: Virtual Edition [post-FW] By Gary Puchkoff of IBM
 - See Session 26203 What's New in z/OS 2.4: Cowtown Edition for original z/OS 2.4 functions
 - z/OSMF Software Management Rolling out ServerPac install (CICS in late 2019, Db2 and IMS in August 2020)
 - z/OSMF Security Configuration Assistant available on 2.3 and 2.4
 - · originally for individual users, now Security groups can be checked
 - DFRMM plug-in for z/OSMF
 - DFHSM Unix file backup and restore enhancements
 - KC4z upgraded to V2

- · 28075 What's New in z/OS 2.4: Virtual Edition [Post-FW] continued
 - z/OS Container Extensions Additional Performance and Resiliency
 - DFSort Accelerator (SORTL on z I 5 only)
 - System Recovery Boost now includes Sysplex Partitioning, CF structure Recovery,
 CF data sharing member recovery, HyperSwap, RMF Reporting
 - zHPF now supports VTOC I/O by CVAF and Fast VTOC/VVDS services
 - · Basic, large format, and EXCP enhancements for SMS data sets

z/OS Support Summary



Release	z9 EC z9 BC WdfM	z10 EC z10 BC WdfM	z196 Z114 WdfM	zEC12 zBC12 WdfM	z13 Z13s WdfM	z14 ZR1	z15	End of Service	Extended Defect Support
z/OS V2.1	X	X	X	X	X	X	X	9/18	9/212
z/OS V2.2		X	X	X	X	X	X	9/20	9/232
z/OS V2.3				X	X	Х	X	9/221	9/252
z/OS V2.4				X	X	X	X	9/241	9/272

Notes:

²-Extended support dates are projected and are subject to change or withdrawal without notice.

WdfM - Server has been withdrawn from Marketing

Legend

Defect support provided with IBM Software Support Services for z/OS

Generally supported

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¹-All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice.

- · 28071 Upgrade to z/OS 2.4: Technical Actions
 - By Marna Walle of IBM
- Pre-2.4 Actions
 - BCP defaults changed for CLOCKxx and other PARMLIB members
 - Increase SMS ACDS space APAR OA52913 and doc OA55563

- 28071 Upgrade to z/OS 2.4: Technical Actions (continued)
- Pre-2.4 Actions
 - OA50569 or RACF rule to prevent accidental data set encryption
 - ICSF at HCR77D0 the CSFPARM must be member of PDS
 - RACF 2.3 included only 3 Certificate Authority digital certificates
 - Clean out old ones (pre-2.3 included 26 CA certificates)

- 28071 Upgrade to z/OS 2.4: Technical Actions (continued)
- Pre-2.4 Actions
 - Use Health Check for OpenSSH to see how the upgrade to 7.6p1 in 2.4 affects your shop
 - If BPXPRMxx KERNELSTACKS(BELOW) is specified, change to ABOVE which is only option in 2.4
- CIM Server and RMF (GPMSRVxx) Changed to HTTPS from HTTP

- 2807 I Upgrade to z/OS 2.4: Technical Actions (continued)
- JES2 Changes
 - If your JES2 exit routines or applications use the IAZDSERV macro with the SSI call 71 or the \$DSERV macro, the data area moved to 64-bit from 31-bit storage (or did it?)
 - Is There Time for My Story?

· 28076 What's New in z/OSMF V2R4?

- By Xiao Zhen Zhu [Joey] of IBM (9 years developing of z/OSMF)
- Ansible collection available to drive z/OSMF REST APIs
- Date created column added to Workflow yeah!
- · Workflow panel toggle to collapse Metadata to increase size of working area yeah!
- Lite server stage 2 (PH24527) start only functions you need via z/OSMF UI instead of PARMLIB
 - If using z/OSMF for REST API only, then disable z/OSMF Help to minimize start-up performance

- 28076 What's New in z/OSMF V2R4? (continued)
- · Compresses transmitted data when reading data set or Unix file
- See APARs for more performance enhancements
 - APAR PH24527, PH12643, PH28267, PI13454
 - Repackaged z/OSMF code in compressed .WAR format to speed Initialization
- SETIZU and SET IZU to change many z/OSMF parameters
- Security Configuration Assistant supports Groups to check and variables
- Diagnostic Assistant set logging level before collecting data to send to IBM

- · 27273 ISPF is Dead! Long Live ISPF! 2020 Edition
 - By Tom Conley of Pinnacle Consulting
 - 340 attendees!
- OA59267 available to Define Extended GDG Using ISPF
- Open RFEs and SHARE Requirements to get IBM to add or update support for basic z/OS functions maybe some will happen
- ISPF Cabal Tom Conley, Lionel Dyck, several others trying to keep ISPF relevant for several more years

- · 27273 ISPF is Dead! Long Live ISPF! 2020 Edition (continued)
- CBT USERMOD Collection of ISPF (CUCI [pronounced "kookie"])
 - See File967 for ISPF install
 - 16Nov2017 VIR0 ISPCMDS table entries with abbreviated commands
 - 24Dec2018 VIRI see details in slides
 - 28Jan2019 VIR2 lots of Edit highlighting for a number of languages; prefix unix path for some ISPF functions
 - 12Jul2020 VIR3 (total RFEs delivered 23 to date)
 - edit highlighting for GO (google language)
 - PDSE V2 allocated via ISPF
 - see Tom's presentation for other items

- · 27273 ISPF is Dead! Long Live ISPF! 2020 Edition (continued)
- USRCCONF to set more and different defaults than in ISPCCONF configuration dialog
 - · column arrangements for mount table and directory list, etc.
 - calendar coloring
 - · lots of other great stuff you can standardize for all new users
- · UDLIST Searchfor and then sort message to see hits at top

- 28173 z/OS Keynote ...: What Are Those Folks in z/OS Development Really Thinking?
- With Dave Jeffries of IBM, z/OS Development VP
- August 4 Hurricane Isaias passed near POK
- September 22 repeated his session

- 27518 Bit Bucket x'3C'
- ACEECHK Yourself Before You Wreck Yourself
 - By Tom Conley of Pinnacle Consulting
- ACEE is RACF control block defining user and their privileges
- OA53441, OA55163 added support for a new RACF class ACEECHK
- ACEECHK detects changes to ACEE that raise privilege
- Prevents "magic SVC" or other authorized code from gaining system privileges to circumvent security controls

- · 27518 Bit Bucket x'3C'
- · Before enabling ACEECHK class, apply the following maintenance:
 - DFHSM OA54740, OA55295
 - DFRMM 0A57418
 - RACF OA57421

- · 27518 Bit Bucket x'3C'
- Before enabling ACEECHK class, Update ISV Products (not a complete list) as well:
 - BMC Mainview for DB2
 - FDR/ABR
 - CA-Disk

IBM and major ISVs have been working on the Common Installation Strategy for years.

- IBM has been solidly positioning for installation of ServerPac with z/OSMF:
- Enhanced installation assistance: ServerPac Installation Content Solution on the web.
- Trial package for installation "at home": to verify setup and validate security requirements.
- Consistent conference, seminar, and web casts z/OSMF and z/OSMF installation topics
- Stressed importance of z/OSMF for years.
- Repeated encouragement to get z/OSMF on least a driving system sandbox.

IBM and major ISVs and the Common Installation Strategy

- Focus on simplification for z/OSMF set up:
 - Setup via z/OS ServerPac since z/OSV2.2.
 - z/OSMF Lite setup documentation and samples.
 - z/OSMF Security Configuration Assistant
- Announcements with continual advertisement of enhanced functions to show z/OSMF value.
- Rollback of z/OSMF Software Management functions to all supported releases.
- z/OS V2.3 autostarted at IPL, V2 3 is the minimum supported release as of Sept 2020.
- Customized Offerings Driver (COD) will start z/OSMF at IPL.
- I B M and ISVs have been moving aggressively on packaging products into the z/OSMF Software Management Portable Software Instances.

IBM and major ISVs and the Common Installation Strategy

- Implement z/OSMF Software Management plug-in
 - ServerPac PSI install
 - Test with CICS or recently available Db2 or IMS
 - Software Update for PTFs and RSUs

• [Fort Worth] 27009 Install ServerPac Using z/OSMF Software Management

- By Kurt Quackenbush
- ServerPac in z/OSMF Software Management is the goal, CICS is first, ISVs also involved
- Software Instance is collection of related software data sets and related files
- Portable Software Instance (PSI) paxes a Software Instance into a /Archive_Directory with several files
- Provider supplies an instance that can be downloaded to PC or z/OS with info from Shopz or vendor site

- [Fort Worth] 27009 Install ServerPac Using z/OSMF ... (continued)
- Install PSI by deploying
 - · Configure "draw the picture" of the new environment
 - Model on existing or use shipped model
 - · Use direct or Indirect cataloging
 - PSI laid out after 3 jobs run
 - Perform Workflows

- [Fort Worth] 27009 Install ServerPac Using z/OSMF ... (continued)
- Post-Install Perform Workflows
 - Setup and configure
 - · Verify configuration Post Install actions
- Remote system access requires only z/OSMF nucleus and core and Software Management plug-in on remote systems, that is, Sysplexes

- [Fort Worth] 27043 Applying PTFs using z/OSMF Software Update
 - By Kurt Quackenbush of IBM and Dawn DaMore of Broadcom
- · Software Update is "new" currently a work in progress
- · Part of Software management plug-in
- SMP/E managed software only
- Collaboration between Broadcom and IBM
- Broadcom MSM re-written to provide function under z/OSMF

- [Fort Worth] 27043 Applying PTFs using z/OSMF Software Update (continued)
 - 3 uses fix problem, recommended by vendor, and required for new hardware or software or functions
 - Different look and feel
 - Deliver corrective updates in Software Update first (August SHARE maybe) for V2.4 and V2.3
 - Install Updates enter fix ids (PTFs)

- [Fort Worth] 27043 Applying PTFs using z/OSMF Software Update (continued)
 - · Verifies fixes are ready to install
 - Preparing updates apply check, stops at holds (shop can resolve, postpone until after install, or exclude)
 - Run apply check with bypass (running in TSO address space)

- [Fort Worth] 27043 Applying PTFs using z/OSMF Software Update (continued)
 - Summary of actions to come
 - · APPLY
 - Review post-APPLY output and HOLD files kept in zosmf data directory
 - Eventually ACCEPT will be supported

Z/OSV2R4 UPGRADE

- Challenges
 - No Migration Book
 - User Key 8 Common Usage
 - zCX File System Size
 - Open SSH Upgrade
 - SMB to NFS Migration

Z/OSV2R4 UPGRADE

- Open SSH Upgrade
 - OA57724 Health Check on V2.3 looks for obsolete features that may be used (not available yet)
 - · Copy new version of moduli file to /etc
 - Look at current /etc/ssh ... Configuration files and look for manually changed values

Z/OSV2R4 UPGRADE

- SMB to NFS Migration (see Earlier Slide for Session Link)
- JES2 Policy Processing Implementation Limited Because of SPOOL Encryption Priority at IBM
- JES2 SPOOL Encryption (OA57466) Now Available as of Sept. 2020
- Other Security Changes (CIM, RMF, etc.) with HTTPS required

SHARE STRATEGIES

- Digital Badging
- Women in IT
- zNextGen
- Partner Program
- Strategic Partners In 2019, added Broadcom (a.k.a. CA Technologies)
- Year-Round Education and Training more Webinars

SHARE STATUS

- Oct 27, 2020 Virtual Status of SHARE online meeting
- See You at SHARE 2021 Virtual in March 2021 watch SHARE.org
- See You in Cleveland, Ohio August 8-13, 2021