



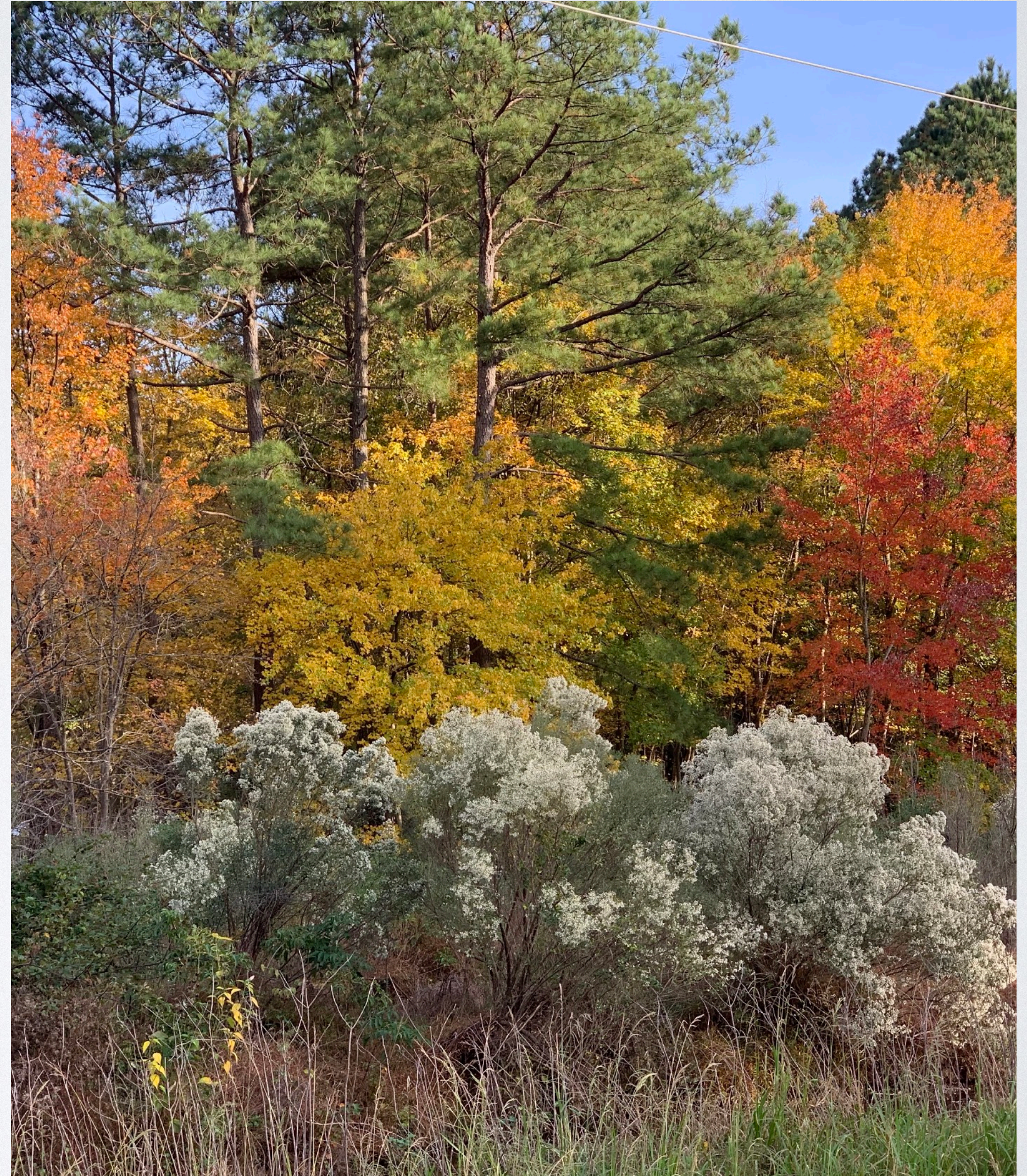
SHARE 2021 VIRTUAL SUMMIT

March 2-24, 2021

By Ed Webb

AGENDA

- Why Go to SHARE?
- Odds and Ends
- Quotes of Interest
- Best Sessions
- Other Sessions of Interest
- SHARE Status



WHY GO TO SHARE?

- z/OS 2.5 Announced first Tuesday of SHARE (March 2, 2021) - What's In It?
- z/OS 2.4 Upgrade Planning and User Experience
- Late-breaking z/OS 2.4 and z/OS 2.3 News
- SHARE Requirements Carry More Weight with IBM than RFEs
- Networking with peers and IBM developers and executives
 - At Fort Worth, Spent an hour in a z/OSMF Lab with the z/OS Architect

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)

ODDS AND ENDS

- Curious about some new function, then locate details here:
 - <https://www.ibm.com/support/pages/new-function-apars-zos-platform>
- RFE 119498 (#17) z/OSMF Workflow, Column of date updated or date created or both - Delivered
- RFE 101870 (#12) IOEFSUTL format and other functions should identify Version of zFS formatted or changed - Uncommitted Candidate
- <https://www.ibm.com/support/z-content-solutions/management-services>

QUOTES OF INTEREST

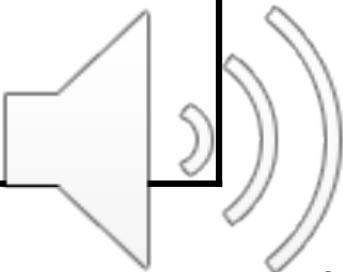
- “z/OSMF is critical to the future of z/OS” - Dave Jeffries, IBM VP z/OS
- “MVS provides the essential operating system services of z/OS. It includes I/O Control Program, the z/OS Unix System Services Kernel, and z/OS XML System Services.” - IBM Knowledgecenter per Ed Jaffe

BEST SESSIONS

- **All Recorded Sessions and Files are at <https://event.share.org/attendee-portal>**
- **28678 What's New in z/OS 2.5: Winter 2021 Virtual Edition** By Gary Puchkoff of IBM
 - See 2020 Fort Worth Session 26203 What's New in z/OS 2.4: Cowtown Edition for original z/OS 2.4 functions
 - See 2020 Virtual Session 28075 What's New in z/OS 2.4: Virtual Edition for z/OS 2.4 Continuous Delivery enhancements Since SHARE in Fort Worth in Late February 2020
- **Workload Enablement** - Built to Scale and Support Agile business use cases for Hybrid Cloud and AI Capabilities
- **OS Management Simplification** - Easier installation, management, and use of z/OS by admins and developers with no special skills
- **Cyberthreat Secure Z and Intelligent Resiliency** - Cyber security Systems integrity, heightened application availability, and automated detection and mitigation procedures to resist cyber attacks and maintain exceptionally resilient environments

z/OS V2.5 Release Overview - Release Highlights

Feature	Description
Workload Enablement	Workload Enablement: An Application Developer , can treat z/OS the same as any other operating system platform with respect to hybrid cloud deployment, achieving rapid application development and provisioning, demonstrating z/OS's ability to match or exceed any other operating system.
Intelligent Resiliency	Resiliency: An Infrastructure Architect will gain enhanced resiliency capabilities that provide heightened application availability, modernized tools and automated detection/mitigation procedures, enabling them to maintain exceptionally resilient environments in half the time and with reduced skill requirements.
Cyber Threat Secure Z	Security: A Security Architect can leverage cyber security system hardening and analytics to readily exceed regulatory compliance requirements and to provide a new level of cyber resiliency for the enterprise.
OS Management Simplification	Systems Management: An early tenure z/OS System Programmer , can independently, confidently, and successfully deploy, maintain, and manage z/OS (and stack) software functions using guided and customized instructions and workflows.



z/OS V2.5 Release Overview – 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		9/18	9/21 ²
z/OS V2.2		X	X	X	X	X	X	9/20	9/23 ²
z/OS V2.3				X	X	X	X	9/22 ¹	9/25 ²
z/OS V2.4				X	X	X	X	9/24 ¹	9/27 ²
z/OS V2.5 ³					X	X	X	9/26 ¹	9/29 ²

Notes:

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

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

³ - z/OS 2.5 is the last release of z/OS that will include IBM JES3

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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BEST SESSIONS

- **28678 What's New in z/OS 2.5: Winter 2021 Virtual Edition**

- **IBM z15 Support**

- DFSort Accelerator (SORTL on z15 only)
- System Recovery Boost now includes Sysplex Partitioning, CF structure Recovery, CF data sharing member recovery, HyperSwap, RMF Reporting

- **ICSF is changing how Cryptographic Hardware support is delivered**

- No more web deliverables. ICSF will ship new HW support via APARs with SMP/E FIXCAT tags.
- New ICSF FMIDs will be delivered with new z/OS releases only. Older FMIDs will remain in service as appropriate.
- HW exploitation on older z/OS releases will be via updates to HCR77D1 only.

z/OS V2.5 Release Overview

Usability and Skills

z/OSMF Desktop filter and type ahead, Workflow management and logging, simpler configuration, performance improvements, SCA for external apps, Diag Assist, Sysplex Mgmt and Policy Editor, Console UI enhancements, zMSC, ...

Application Development

z/OS Container Extensions, Web Enablement toolkit, OAM with DB2, ISPF, ABO, Java, Node.js, Python, Go...

Scalability & Performance

...Vtoc I/O, zHyperLink write Stats, WLM batch improv., IWQ for zCX, TCT, RMF



Availability

Arm, Anomaly Mitigation, Catalog improvements, logical corruption protection, system recovery boost, CF monopolization avoidance...

Systems Management

z/OSMF install of products/fixes, DFSMSshm UNIX indiv file backup and to new directory, Multiple NFS servers on a system, JES2 MAS-wide policy support, CP&M time limits, zWIC, SDSF SRB displays, DFSMSrmm z/OSMF plug-in....

Enhancing Security

PassTicket Improv, spool encrypt, Certificate simplification, FIPS, Data Privacy for Diagnostics, TCT full volume dump, zACS...

Networking

SMC-Rv2, TLS V1.3, zERT, Sysplex Network Health, stack services...



Usability & Skills

IBM z/OS Management Services Catalog – Planned new plugin

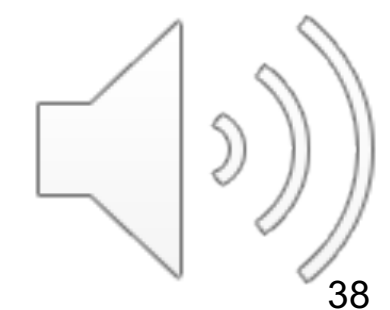
z/OS Management Services Catalog in z/OSMF plans to leverage the power of z/OSMF workflows to enable system programmers to run services that help complete z/OS management tasks faster and with fewer errors.

- Experienced z/OS system programmers are planned to be able to create a catalog of customized services, each written with unique institutional knowledge, protocols, and processes.
- These services can then be run by less experienced colleagues.
- IBM plans to provide an initial set of services to help z/OS system programmers of all skill levels get started, demonstrate accepted practices, and simplify information sharing.
 - Such as grow a ZFS.

Capabilities:

- Planned are a powerful graphical interface for creating new services, editing IBM-provided services, and updating existing services
- Step-by-step guidance for completing z/OS management tasks
- History of all services performed on a system is planned

You can learn more and watch for future developments on the release at the [z/OS Management Services Catalog content page](#).



BEST SESSIONS

- **28634 - Highlights of Upgrading to z/OS V2.4 and Beyond**

- By Marna Walle of IBM

- **z/OS 2.4 Reminders**

- Priced - z/OS Authorized Code Scanner
- Deleted - BookManager Read....
- Last order will be produced in Jan. 2022 - so get V2R4 before 2022; end of service in 2024
- Cryptographic Support (HCR77D1) was available after 30Sep2019 but HCR77D0 is part of z/OS 2.4
- no Upgrade book, use GitHub to get z/OSMF Workflow, workflow can be upgraded if IBM updates the Workflow

BEST SESSIONS

- **28634 - Highlights of Upgrading to z/OS V2.4 and Beyond** continued
- **z/OS 2.5**
 - Ordering starts in Sep. 2021; end of service in 2026
 - HCR77D2 ICSF is part of z/OS 2.5 and will be upgraded via PTFs for new Hardware support - No web-deliverable
 - JES2 Level z11 no longer supported, must be at z22
 - no DASD size changes between 2.4 and 2.5
 - no zEC12 and zBC12 support
 - IBM.TargetSystem-RequiredService.zOS25 is FIXCAT

BEST SESSIONS

- **28634 - Highlights of Upgrading to z/OS V2.4 and Beyond** continued
- **Big Migs [Migration Actions] for z/OS 2.5**
 - z/OSMF ServerPac driving system requirement
 - JES2 moved to Level z22
 - Use SAF-based security for SDSF functions
 - No ISFPARMS or ISFPRMxx security
 - HFS removed
 - JES3 last release

BEST SESSIONS

- **28634 - Highlights of Upgrading to z/OS V2.4 and Beyond** continued
- **Upgrade Workflow APAR OA60711 (for 2.3 and 2.4 as well)**
 - Not on GitHub, instead IBM Service will support via PTFs
 - **/usr/lpp/bcp/upgrade** will have upgrade [a.k.a. Migration] workflows
 - zOS_V2.5_from_V2.4_Upgrade_Workflow_V1.0.xml
 - zOS_V2.5_from_V2.3_Upgrade_Workflow_V1.0.xml
 - zI5_zOS_Upgrade_Workflow.xml
 - PTF UJ05021 (7B0 z/OS 2.3) and PTF UJ05022 (z/OS 2.4) available as of March 18, 2021

BEST SESSIONS

- **28634 - Highlights of Upgrading to z/OS V2.4 and Beyond** continued
- **Driving System Requirement Change for z/OS 2.5**
 - ServerPac for z/OS 2.5 is a Portable Software Instance for z/OSMF installation
 - Must have z/OSMF on Driving System with Software Management functions enabled
- **z/OSMF ServerPac** - Dec. 2019 for CICS, Aug. 2020 Db2 and IMS, Sept 2021 z/OS 2.5 (slide 20)
 - MQ comes with z/OS SREL change
- **CustomPac ServerPac (legacy ServerPac) - Jan. 2022 withdrawn for 2.4 and 2.5 for all SRELs**

BEST SESSIONS

- **28637 - z/OSMF V2R4 Implementation and Configuration**

- By Xiao Zhen Zhu [Joey] of IBM (10 years developing z/OSMF)

- **z/OSMF V2R4 Lite Configuration**

- z/OSMF nucleus
- 9 z/OSMF Core Services - each separately documented
- 11 z/OSMF Optional Services - each separately documented
- Advanced configuration moved to later chapter of Config Guide

BEST SESSIONS

- **28637 - z/OSMF V2R4 Implementation and Configuration** continued
 - [**https://ibm.github.io/zOSMF/**](https://ibm.github.io/zOSMF/) is the **z/OSMF One Stop Hub**
 - **z/OSMF Security Configuration Assistant**
 - PH29907 Feb. 2021 SCA now supports External Products if product ships a JSON-format Security Descriptor File
 - SDSF SCA function coming in z/OS 2.5 since SDSF requires SAF-based security

BEST SESSIONS

- **28637 - z/OSMF V2R4 Implementation and Configuration** continued
 - **z/OSMF Nucleus setup**
 - Verify Java 8 64-bit level
 - IZUNUSEC job to setup security
 - Create z/OSMF data file system (IZUMKFS) /global/zosmf/
 - Make sure z/OSMF data file system is added to BPXPRMxx so it's mounted at IPL
 - Update PROCLIB with z/OSMF procedures
 - Start z/OSMF

BEST SESSIONS

- **28623 z/OS Communication Server Update**

- by Sam Reynolds of IBM

- **z/OS Encryption Readiness Technology (zERT)**

- z/OSMF zNA plug-in for analyzing SMF 119 Type 11 zERT records
- zERT Aggregation Recording Interval (new in 2.3 and 2.4) to reduce volume of SMF 119 records with new Type 12
- zERT SoD in z/OS 2.5 to support policy-based enforcement of rules in realtime - Coming soon!
 - uses Network Configuration Assistant (z/OSMF) to create rules
 - puts rules into Policy Agent and installs into the TCP/IP stack
 - Actions taken to report violations, and later, if you choose, terminate connection

BEST SESSIONS

- **28623 z/OS Communication Server Update** continued
- **IPSec certificate reporting enhancements in z/OS 2.5**
- **AT-TLS and IPSec certificate diagnostics**
- **Share Memory Communications V2 (SMCv2)**

BEST SESSIONS

- **28623 z/OS Communication Server Update** continued
- **TCP/IP initialization complete or is it?**
 - EZAIN111 All services...available but Dynamic VIPA and PAGENT and other servers may not be ready yet
 - In z/OS 2.5, new messages (and ENF signals) to say we are really really initialized
 - EZD13141 TCP/IP and Extended Services are now initialized for Stack: tcpstackname
 - Eventual action messages to provide reason for delays EZD1315E...
 - Defaults should be good for most environments but GLOBALCONFIG statements can tweak settings

BEST SESSIONS

- **28623 z/OS Communication Server Update** continued
- **Function removals in z/OS 2.5 - see list in presentation**
 - TN3270E Telnet Server, FTP SERVER, and DCAS now require AT-TLS - old native TLS/SSL will not work
- Follow Comm Server on new IBM Communities <https://www.ibm.com/community/z/software/comm-server/>

BEST SESSIONS

- **2864 I - Hidden Treasures in z/OS (a.k.a. Bit Bucket x'3D')**
 - **SHARE 2021 Virtual Summit Best Session Awards for each speaker**
 - **ISPF Crazies by Tom Conley**
 - CUCI (Kookie) CBT file967 cbttape.org
 - Jan. 2021 VIR4 including JSON Highlighting, other enhancements
 - Feb. 2021 VIR5 including SAS and XMLASCII highlighting
 - Feb. 2021 Revised previous changes based on feedback

BEST SESSIONS

- **2864 I - Hidden Treasures in z/OS (a.k.a. Bit Bucket x'3D')** continued
 - **That Really Ticks Me Off (Proportional fonts madness)** by Ed Jaffe
 - Hardware/software problem reporting/tracking system should support monospaced fonts
 - IBM's Cognitive Support Portal doesn't support embedded screen shots (Quill-based); can upload as jpg or pdf
 - What about text-based info?
 - Pasted text is always proportional, garbles monospaced fonts
 - IBM explained how to force monospaced fonts - ``` monospaced text ```
 - That is: triple back ticks, then monospaced text, then triple back ticks (back tick on same key as tilde)

BEST SESSIONS

- **2864I - Hidden Treasures in z/OS (a.k.a. Bit Bucket x'3D')** continued
- **Analysts Killing Mainframe** by Sam Knutsen
 - Perception is that analysts never say anything good about the mainframe. Is it true?
 - Gartner and Forrester are major analysts
 - Very hard to find research on Mainframe
 - Mike Chuba and Thomas Kline of Gartner - Chuba mainframe hardware focus in the past, Kline also does good work
 - Publishes MIPS charts for IBM Mainframes
 - G00383838 Leaving IBM? Better look at the paper first
 - compare.com/mainframe-economics by Dr. Rubin
 - Every \$1 on infrastructure costs, mainframe organizations earn \$10.55 versus non-mainframe

OTHER SESSIONS OF INTEREST

- **28639 Install ServerPac Using z/OSMF Software Management**
 - By Kurt Quackenbush of IBM
- **28638 Applying PTFs using z/OSMF Software Update**
 - By Kurt Quackenbush of IBM
- **28688 Unmasking ZOROW - The Legend of z/OSMF Workflow**
 - by Hiren Shah of IBM
 - Z Open Repository of Workflows (ZOROW)
 - Vendors and System Programmers to contribute and share z/OSMF Workflows
 - z/OSMF required for ServerPac install of z/OS 2.5
 - Samples provided by IBM and at ZOROW

OTHER SESSIONS OF INTEREST

- **28640 - Watson & Walker zRoadShow**

- by Frank Kyne and Cheryl Watson of W&W www.watsonwalker.com >215 attendees

- **SMF Topics**

- What's New in z/OS 2.5 SMF? See links on slide 22 or Gary Puchkoff's slides in Session 28678
- SMF documentation - new naming
 - see Changes section in each manual for Continuous Delivery updates
- See SMF Reference Summary at W&W Publications for 219 SMF record types from IBM and vendors



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Today's Sessions



Room 1 - March 23

Launch Zoom Room

Security in the Enterprise
All times in CDT

8:50am - 9:20am: The Role of IBM Z in the Evolution of Secure Hybrid Clouds - *Sponsored by IBM*

9:25am - 9:55am: Getting to Zero Trust: How to Get Started - *Sponsored by Broadcom*

10:00am - 10:40am: 28580 - Security Project Opening: Executive View of the Security Landscape

10:45am - 11:10am: 28662 - Expert Panel - Audit Findings and How to Mitigate Them

11:15am - 11:55am: 28601 - Addressing the Top 3 Concerns with Privileged Users

Room 2 - March 23

Launch Zoom Room

Enterprise-wide
All times in CDT

10:00am - 10:25am: 28658 - How To Spin Up and Spin Down environments9 for Mainframe Development And Testing

10:30am - 10:55am: 28659 - Why Do We Need A Cultural Change For DevOps Transformation In The Enterprise

11:00am - 11:25am: 28441 - Performing Application Development with a Dynamically Created Environment

11:30am - 11:55am: 28585 - Mainframe Embraces DevOps for the Enterprise

Announcements

- [SHARE Virtual Summit Week 3 Recap](#)
March 18, 2021 - 12:02 PM
- [Complete Today's Session Evaluations](#)
March 11, 2021 - 05:59 PM
- [Thank You to Today's Sponsors](#)
March 11, 2021 - 01:46 PM
- [Access On-Demand Sessions Anytime](#)
March 11, 2021 - 09:59 AM
- [Complete Today's Session Evaluations](#)
March 10, 2021 - 05:11 PM

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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

- April 26, 2021 Virtual Status of SHARE online meeting
 - [Register Here](#)
- See You at SHARE 2021 Virtual in August 2021 - watch [SHARE.org](#)
- See You in person in ??? in March 2022