

SHARE 2022 COLUMBUS

August 21-26, 2022
By Ed Webb

AGENDA

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

Cover: Tarantula Nebula from James Webb Space Telescope
Here: Cartwheel Galaxy from James Webb Space Telescope
Courtesy of NASA



WHY GO TO SHARE?

- zI6 Announced on April 5 - IBM Provided Details on z/OS Changes
 - IBM Telum Processor for IBM Z – an 8-core, 7nm microprocessor with transparent main-memory encryption, 1.5X cache of zI5, and > 6 TFLOPs AI acceleration per chip.
- z/OS 2.5 Upgrade Planning and Look Ahead
- Late-breaking z/OS 2.5 and z/OS 2.4 News - 1Q2022 and 2Q2022 C.D. Functions
- SHARE Requirements Carry More Weight with IBM than Ideas (were 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 starting in 1979, then SHARE in 1999
- Networking with Friends and Vendors
- Staying Current and Being Re-energized about z/OS
- First Full-Week SHARE In-Person Since Pandemic Lockdown in 2020

SHARE 2022 COLUMBUS

5 Days In-Person and Some Streaming with Recordings!

- Five Days with Full Content with some rooms live-streamed and recorded
- SHARE Tech Exchange only Monday and Tuesday evenings with food
- Broadcom-sponsored Lunch on Wednesday
- Recorded sessions are available now (Ends December 31, 2022)
 - 45-50 minute sessions - video and audio with handouts in most cases
- SHARE Partners with dedicated sessions on Mon. and Wed.

QUOTES OF INTEREST

- “Passwords are for tree houses” - Frank Abagnale of FBI
- “IBM Z is a critical part of the Global Economy: 67 of the Fortune Top 100 companies, 45 of 50 top global banks, 8 of 10 top insurers, 24 of top 25 Countries (based on GDP)” - Jose Castaneda of IBM
- “April 30, 2030 projected date when quantum computing will start breaking encryption algorithms” - Rebecca Levesque, President of 21st Century Software

ODDS AND ENDS

- Curious about some new z/OS function? Then locate details here:
 - <https://www.ibm.com/support/pages/new-function-apars-zos-platform>
 - <https://www.ibm.com/support/z-content-solutions/management-services>
- MR00071167/RFE51590 Storage Management with Facility Profile
 - Dave Crow's requirement - Operations no longer need ALTER access

ODDS AND ENDS

- zCX Growth - no longer requires hardware option on z15 (monthly license)
- IBM Container Hosting Foundation + IBM Container Repository
 - Container Registry - trusted registry for open-source container images
 - built by IBM and scanned by IBM, applications are not supported by IBM
- Proactive Resilience Discovery Workshop offering - free IBM offering
 - contact zos@ibm.com

ODDS AND ENDS

IBM Change Tracker for z/OS 2.5

by Marne Walle of IBM and Chris Taylor, 21st Century Software

- New Priced Feature now available in z/OS 2.5
 - 21st Century is the Change Tracker development partner for IBM
- SOD 15Mar2022 Comprehensive configuration change management tool for tracking, controlling, and managing software changes



SHARE COLUMBUS
AUGUST 21-26

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EDUCATION **EVENTS** **CONNECT** **SHARE'D INTELLIGENCE** **PARTNERS** **ABOUT**



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PARTNERS

ABOUT

In-person and online events are a hallmark of SHARE, where plentiful learning and networking benefit the entire community.

ABOUT SHARE EVENTS

- Event Calendar
- Partner Opportunities

PAST EVENTS

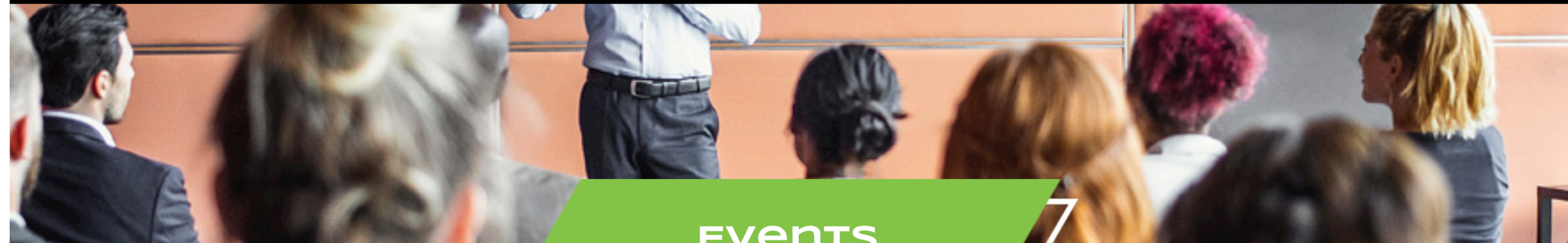
- Proceedings

SHARE DALLAS 2022

- Technical Agenda
- Attendee Resources

SHARE COLUMBUS 2022

- Registration
- Schedule-at-a-Glance
- Hotel and Travel
- Speaker Resources
- Keynote Speaker



EVENTS

PROCEEDINGS FILE LIBRARY

Access the archive of SHARE Proceedings to view content from past SHARE events, including past session presentations and handouts. The SHARE Proceedings library is a **SHARE membership benefit**, and you must be a **SHARE member** to view the full content.

Session recordings for past events are only available to those who registered for the event. Full event PDF proceedings are available to ALL SHARE members.

With enhanced search functionality, you can find the exact content you are looking for quickly and easily. Try the filters to drill down by the hot topic subject area of your interest across years of SHARE events. You can also use the search box to view the entire archive by the key search terms of your choosing. Click the "Tags:" underneath each header to take a deep dive into all content related to your interest.

search



Number of search result: **202**

FILTER BY:

ISPF Hints, Tips, and Recent Improvements

BEST SESSIONS

SHARE Program Opening Keynote

By Frank Abagnale of the FBI and “Catch Me If You Can” bio-movie

- Taught at FBI Academy for 40 years
- **Restitution (most lost cash will never be returned or recovered)**
- **Every 2 seconds someone’s identity is stolen**
 - In 2018, 3.6 billion identity records stolen
 - Carnage of compromised credentials, especially during pandemic
 - Every single breach is a failure of someone, or people

BEST SESSIONS

SHARE Program Opening Keynote continued

- **People steal credentials and wait 3.5 years before using them**
 - >>1 or 2 year credit monitoring is worthless
- **Child identities are 10% of all stolen IDs**
 - 12 year old identity is worth twice that of a 64 year old
 - New born identity is worth even more
- **Cryptocurrency means there will also be ransomware**
- **Phishing e-mails have gotten much better**

BEST SESSIONS

SHARE Program Opening Keynote continued

- **Soft spots**
 - Out-of-office messages, etc.
 - Vulnerable access points in smart buildings
 - Home hazards: internet-of-things, smart televisions, smartphones and tablets, Mac and windows computers
 - How would someone misuse this technology?

BEST SESSIONS

SHARE Program Opening Keynote continued

- **Building security into our technology**

- Passwords are for tree houses
- 18 billion password attacks a year
- \$100 million a year to reset passwords in 3 largest banks in US
- Identification by device and personal id are heading toward eliminating passwords

- **Stay off social media**

- Date of birth and where you were born are 2 of three items needed to steal your identity
- 70% of employers vet based on social media
- 54% of employers have rejected candidates after finding objectionable material

BEST SESSIONS

SHARE Program Opening Keynote continued

- **Shred everything**
 - ribbon shredder (30 minutes to recreate)
 - criss-cross shredder (recreated in a few hours)
 - micro-cut shredder cannot be recreated
- **Freeze your credit**
 - Credit monitoring - take responsibility to protect yourself
 - Daily credit scoring, review reports for errors, see all queries plus other
- **Checks - do not use from most accounts (too much personal info, easy to steal)**
- **Credit card is safest, not debit/credit card**

BEST SESSIONS

SHARE Program Opening Keynote continued

- **Pandemic fraud**
 - **\$860 billion given to states for unemployment**
 - **\$160 billion was fraudulently obtained**
- **Medicare fraud is \$100 billion a year**
- **Cartels have better technology than governments**
- **\$37 billion stolen by scammers targeting elderly adults, 10,000 a day**

BEST SESSIONS

SHARE Program Opening Keynote continued

- ***Scam Me if You Can* book by Abagnale**
 - royalties to AARP
- **Millennials are scammed more, Seniors lose more money**
- **Red flags - money now, ask for personal information**
- **Caller identification easily manipulated**

BEST SESSIONS

SHARE Program Opening Keynote continued

- **No technology can defeat social engineering, only people can**
- **Education is critical**
 - **Yet No public service ads or information stuffers any more to educate about scams and rip-offs**
- **<https://www.abagnale.com>**
- **800-237-7443**

BEST SESSIONS

Installing z/OS v2r5 using z/OSMF Software Management

By 4 presenters from Banco de Brasilia (BRB)

- Moved from Unisys to IBM Z in the past 8 years (completed in 2018)
- Bank established 2020 marketing partnership with Flamengo soccer team
 - Tremendous growth from 1 million customers to now 4.4 million customers
 - MSUs consumed per month doubled from Feb21-Jul22
- Software and Hardware Environment
 - 2 sites with same equipment - one for PROD and one for DEV/TEST+DR

BEST SESSIONS

Installing z/OS v2r5 using z/OSMF continued

z/OS 2.5 Release Beta Program

- March 2021 initial 2.5 materials available
- April client education by IBM
- May Shopz order
- June beta Serverpac arrived
- June 8 start order, June 15 1st IPL, June 16 IPL on support with automation

BEST SESSIONS

Installing z/OS v2r5 using z/OSMF continued

z/OS 2.5 Release Beta Program continued

- July complete installation
 - July 13 1st IPL on development
- Sept. official z/OS 2.5 GA
- Dec. 2021 exit beta review

BEST SESSIONS

Installing z/OS v2r5 using z/OSMF continued

z/OS 2.5 Release Beta Program continued

- Lessons Learned
 - Reduces error
 - Reduces complexity
 - Early tenure system programmers can do this
 - Facility to edit JCL and configure all steps

BEST SESSIONS

Data Set File System Use Cases

Understanding the Support behind SHARE's #1 Requirement

by Kershaw Mehta of IBM

- July 2021 SOD about file system support to access z/OS data sets
- June 2022 part of z/OS 2.5 2Q 2022 enhancements announcement
- Data Set File System is only on z/OS 2.5
- Use z/OS data sets from z/OS Unix
- Several APARs (see Kershaw's handout)

BEST SESSIONS

Data Set File System Use Cases - continued

- Data set serialization like ISPF
- SAF-based security applies
- /dsfs is a new Mountpoint provided by IBM
 - /dsfs/txt code page IBM-1047
 - Text file does not contain a <NEWLINE> character
 - /dsfs/bin (binary) RECFM FB or U
 - /dsfs/rec (variable length binary)

BEST SESSIONS

Data Set File System Use Cases - continued

- Kershaw.jcl.cntl mapped to /dsfs/txt/Kershaw/jcl.cntl
- Kershaw.proj.source(myfile) maps to /dsfs/txt/Kershaw/proj.source/myfile
- Dsadm is new Unix command
 - Dsadm createparm to specify MVS data set attributes RECFM and LRECL and such
 - Attributes similar to BPXWDYN keywords
- Grep works within a PDS
- Cmp (compare) two members

BEST SESSIONS

The Magic of PSWs and Registers

By Patty Little, Elliott Picker, John Shebey of IBM

- A great Look at the underpinnings of z/OS Architecture
- Very helpful for Debugging
- PSW (Program Status Word) and (in 2000) z/Architecture PSW (zPSW)
- scrunching 128>64 and unscrunching 64>128

BEST SESSIONS

z/OS 2.5 User Experience

By Ed Jaffe of Phoenix Software International

- Ed J. plays when system is up so this session focuses on that work, not on install
- IBM delivers an average 6.5 SPEs a week across the z/OS world
- Early delivery of z/OS 2.5 delayed 4.5 weeks by LOG4J issues

BEST SESSIONS

z/OS 2.5 User Experience - continued

- z/OSMF File, Folder and Job manipulation
 - JOB Output list needs work
 - Liked the red for failed jobs
- Browse looks good, right-click for command palette
- Data Set File Search looks good but a couple of concerns
- Edit very good, links to other files
- Compare is excellent
- Data set list has no additional info (tracks, volume, attributes) - not good

BEST SESSIONS

z/OS 2.5 User Experience - continued

- z/OSMF CFRM Policy Editor
 - Export results can be put in PARMLIB for future restarts
- Updated RACF PassTicket Capabilities
 - Enhanced PassTickets including option to change timeout/expiration interval
- Enhanced System Recovery Boost (ESRB)
 - Not a technical restriction, limited function to zI6 just to sell more zI6s

BEST SESSIONS

z/OS 2.5 User Experience - continued

- **Data Privacy for Diagnostics**

- Use sample job in SYSL.SAMPLIB(BLSDPJIN)
- Redact, Analyze, Report
- analysis_config.json for analyzer
- Use Report output to review analysis report and flag what was not correct
 - Not sure Sysprogs should look at sensitive stuff
 - 94% false
 - FEEDBACK function updates analyze file so future dumps have less false positives
 - Recommends one (long) pass at least to reduce false positives
- Ingest of additional sensitive data identifications
 - See APAR OA58114 for additional doc

BEST SESSIONS

z/OS 2.5 User Experience - continued

- **z/OS Data Set file System**
- pwd (print working directory)!
- DSFS needs better way of managing contention instead of timer checks
- Migrated data sets are not processed by DSFS - big problem for Phoenix Software International (PSI)

BEST SESSIONS

So I Bought a z114!

By Enzo D'Amato Enzo@enterpriselab.dev

- 16 year old high school student with Asperger's syndrome
- Built first computer in 4th grade
- April 2021 saw State of NY selling z114 for \$500
 - Parents did not want to build a power substation
 - LICCC codes for the CPCs were destroyed so hardware was useless
- Found a unit on eBay and bought it with parents' permission

BEST SESSIONS

So I Bought a zll4! - continued

- Physical Planning followed the Installation Manual for Physical Planning
 - 3-phase 220V
 - Avoid multi-frame models as 3-phase power required
 - Wired 2 phase together to provide power to single frame
 - Seller had no forklift to get on pallet
 - LiftStar had to find someone with lift gate and truck
- Paid for shipping and machine and worked on getting peripherals

BEST SESSIONS

So I Bought a z114! - continued

- OSA/ICC and printers run over TCP/IP
- DASD is nightmare
 - FBA with Linux driver
 - CKD storage is almost impossible to find
- Machine too big for truck doors, took computer covers off and got it on truck
- 1800 lb. Mainframe slightly too tall for garage door, broke door frame to get machine into garage
- 2012 z114 model arrived in mid-2022

BEST SESSIONS

So I Bought a z114! - continued

- Initial setup
 - Missing hardware was eventually shipped to him
 - Fiber Channel took I/O Centos software updates to make work
- TS7720 machine never setup
- IOCDS “read the manual”
 - Help from Gary Eheman at FlexCUB
 - Got working

BEST SESSIONS

So I Bought a z114! - continued

- Linux and z/VM installation and configuration
 - 1 GB and 10GB network cards are not connected
 - Program ACL on storage box and software broken
 - Finally linux works
 - z/VM install ran fine
 - IPL from SCSI requires very specific HCD parameters
- Dirmaint

BEST SESSIONS

So I Bought a z114! - continued

- VSEn installation went fine (thanks to 21st Century Software)
- A week until slides were due to SHARE about z/OS
- “Mainframe from Scratch” Redbook is awesome
- IBM is sending z/OS ServerPac (for free!)
- Message on Linked-In and ask nicely is secret to get software

BEST SESSIONS

What's New in z/OS 2.5: The BuckEye Edition

By Gary Puchkoff of IBM

- z/OS V2R5 became generally available in late September 2021
 - After July 10, 2022, all SRELs must be installed using z/OSMF Software Management
 - IBM V2.5 System Functions will support IBM Semeru Java DK V11 (64-bit only) by V2.5 end of life (2026)
 - Available for z/OS in Nov. 2021
- z/OS Container Extensions (zCX – Linux Docker containers running on z/OS)
 - IBM Z and LinuxONE Container Registry enhances customer trust in this technology <https://ibm.biz/BdfAdW>
 - IBM zCX Foundation for Red Hat OpenShift - New Product 1Q2022
- Modernization, simplification, automation e.g., via Ansible – z/OSMF integration
- SOD June 2020 Native z/OS containers, cloud storage for z/OS data

BEST SESSIONS

What's New in z/OS 2.5: The BuckEye Edition

- Cyber resiliency, pervasive encryption, anomaly mitigation e.g., using Predictive Failure Analysis, System Recovery Boost, Run-Time Diagnostics, etc.
- z/OS Data Set File System is Available; previously a Statement Of Direction
- PDSE member compression - automatic, transparent to user
- Security enhancements - lots of them!
 - RACF Health Checks
 - Data Privacy for Diagnostics (dump data for IBM and vendors)

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	z16	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	X	9/22 ¹	9/25 ²
z/OS V2.4				X	X	X	X	X	9/24 ¹	9/27 ²
z/OS V2.5 ³					X	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 & BDT

WdfM - Server has been withdrawn from Marketing

Legend

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

Generally supported

BEST SESSIONS

What's New in z/OS 2.5: The BuckEye Edition

- z/OS Education Assistant for z/OS 2.5 materials at z/OS github:
 - <https://github.com/IBM/IBM-Z-zOS/tree/main/zOS-Education/zOS-V2.5-Education>
- z/OS Requirements (RFEs) are now Ideas based on AHA platform:
 - <https://ideas.ibm.com>
- Here's the Link to User Requirements satisfied by z/OS 2.5:
 - <https://www-01.ibm.com/servers/resourcelink/svc00100.nsf/pages/zosv2r5-user-req?OpenDocument>
- Use SHARE requirements to submit requirements
 - <https://www.share.org/Connect/Advocacy-Requirements-System>

BEST SESSIONS

Bit Bucket x'40'

It's a Small zFS After All... by Tom Conley of Pinnacle

- Zfsadm shrink is hard to use
- Zfsadm shrink -aggregate ZFS.dsname -size l

Procrastination...It's Making Me Wait for Access by James Lund of Texas A&M

- Managed services company to install and upgrade to z/OS 2.4 from 2.2

Ode to a Mainframe Legacy - over 60 years of IBM by James Lund of Texas A&M

- Texas A&M shutting down mainframe
- Retirement scheduled for February 2023

SESSIONS OF INTEREST

See Notes on [SPARTA Website](#)

- SHARE Attendee Orientation (August 10, 2022)
- Zowe Day Part 3: Deploy & Configure Zowe (Security Update Overview)
- Creating a z/OS Instance During your Coffee Break
- Open Source Sysprogs
- Implementing JES2 Policies from an IBM and Customer Perspective
- SLIP, ZAP, TERSE, Xmit?? What's It All About?
- Modernize z/OS Systems Management with As-A-Service Approach

STATUS OF SHARE

- SHARE 2023 Atlanta will be a four-day event March 5-8.
- More sessions than the four-day SHARE 2022 Dallas event.
- SHARE 2023 New Orleans will be a full five-day conference August 13-18. SHARE was last planned to occur in New Orleans in Spring 2006 but Hurricane Katrina in August 2005 derailed those plans. Looking forward to some good cajun cookin'.
- Visit SHARE's [Event Calendar](#) for more details soon.



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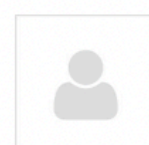
SHARE

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Latest Discussions



zSecure Error trying to run Reports in Batch - File ...

By: **David Astemborski** , 25 days ago

Posted in: **Security and Compliance (SEC) Open Community**

Upcoming Events

SHARE Columbus 2022

Aug 21, 08:00 - 17:00 (CT)

QUESTIONS?

- Next SHARE is in Atlanta, Georgia on March 5-8, 2023
- Later, SHARE is in New Orleans, Louisiana on August 13-18, 2023