

SHARE MARCH 2019

MARCH 10-15, 2019
PHOENIX, AZ



SHARE PHOENIX WRAPPED UP!



By Holden O'Neal



SHARE
Phoenix

#SHAREphx

AGENDA

- Why Go to SHARE?
- Odds and Ends
- Best Sessions
- Sessions of Interest
- z/OS Service Status
- SHARE Status

WHY GO TO SHARE?

- z/OS 2.4 Preview and late-breaking z/OS 2.3 news and IBM review of z14 ZR1
- Networking with peers and IBM developers and executives re-energizes your z work back home
- SHARE Requirements Carry More Weight with IBM than an individual RFE
- IBM's committed to satisfy 20% of SHARE Core Technology Top 80 Requirements in z/OS 2.3
 - Delivered 5, Rejected 6, Planned 4 of Top 82

ODDS AND ENDS

- Request for Enhancements (RFE) for new suggestions or requirements to IBM
 - <http://www.ibm.com/developerworks/rfe/>
- IBM z14 HMC Does Not Have Classic Interface
 - Order It Now for your z13 HMCs
 - Mobile HMC app for iOS and Android
 - “Starbucks IPL”
- Search for 'share inc a2z' for SHARE App

ODDS AND ENDS

- Hot Topics Now Maintained by IBM Systems Magazine
- <http://ibmsystemsmag.com/mainframe/hot-topics/>
- Recent Topics:
 - [Trusted Key Entry Policy Wizards](#)
 - [IBM Z Content Solutions](#)
 - [Container Pricing for Z Brings Predictability to Costs](#)
 - [What to Do When Tape Delivery Disappears](#)

BEST SESSIONS THAT I ATTENDED

- **24738 Keynote: Endeavor to Succeed**
 - **By Captain Mark Kelly, US Navy, ex-Astronaut**
- Practice, Perseverance, Communicate with co-workers
- "None of us is as dumb as all of us"
- Competent co-workers, "no" not "yes" men

BEST SESSIONS THAT I ATTENDED

- **24658 Zowe Installed and Configured: A User's Experience**
 - **By Dan Jast of IBM POK, a Systems Programmer**
- Zowe GA v1.0.0 Feb 8 2019
- Zowe has 4 parts: REST services, API Mediation Layer, Web User Interface, Command Line Interface
- z/OSMF provides Dataset, JES, z/OS Unix Services, other APIs
- CLI (command line interface) enables line command access to z/OS
- Pre-Requisites
 - good Zowe install documentation but lacks pre-req details
 - ICSF, REXX, CEA, CIM, Java, Console Commands, z/OS Provisioning Toolkit

BEST SESSIONS THAT I ATTENDED

- **24658 Zowe Installed and Configured: A User's Experience (continued)**
- z/OSMF needs to be fully configured (mostly)
 - May need to download z/OS Provisioning Toolkit
 - `zospt ps -a` to verify setup
- Node.js - free download, may need to refresh frequently
 - Only need node.js, not NPM
- Zowe 1.0 has a new (second) Server
 - Invokes BPX services to create a User Address Space to run commands
 - Moving more to this model
 - S ZWESIS01 and P ZWESIS01

BEST SESSIONS THAT I ATTENDED

- **23964 Mainframe Penetration Testing 101**
 - by Mark Wilson of RSM Partners
- Mark is funny, good video before the session started
- “Mainframes rule the world as Systems of record”
- Security assessment
 - Read-only auditor and check everything
- Vulnerability Scanning
 - Scanning software to meet integrity and security objectives

BEST SESSIONS THAT I ATTENDED

- **23964 Mainframe Penetration Testing 101 (continued)**
- Penetration testing
 - Blue team is assessment
 - Red team is adversarial
- What is it?
 - Security test with permission
 - Uses techniques employed by bad guys
 - Non-disruptive
 - Identify security issues to minimize risk of an attack compromising your system
- Find holes before somebody else does!

BEST SESSIONS THAT I ATTENDED

24123 Use z/OSMF to install a Software Product

by Kurt Quackenbush of IBM

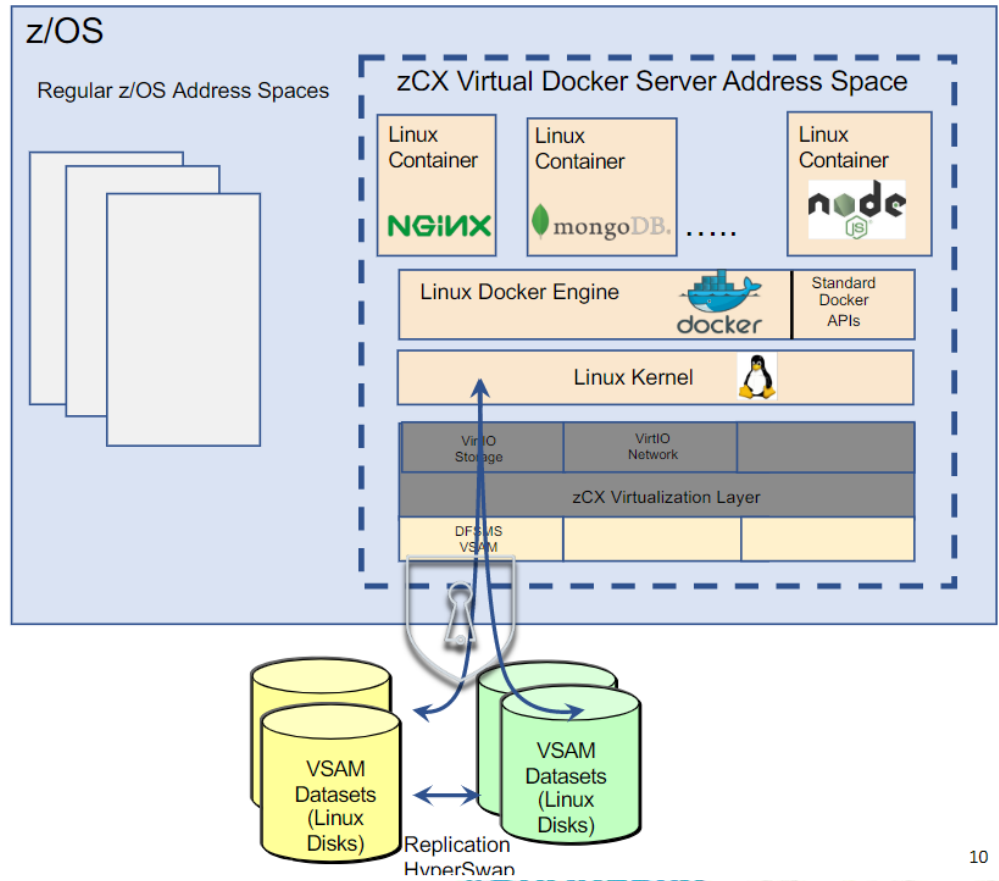
- What is software instance?
 - Bunch of SMP/E data sets, might include non-SMP/E data sets
 - Deploy as a unit
 - VSAM, PDSE or PDS, sequential, zFS
- What is a Portable SI?
 - Exported software instance in /archivedirectory with pax files, maybe text files created by GIMZIP
 - Download via z/OSMF use From Download Server choice
 - Store and forward to z/OS from desktop via HTTPS
- Install a Portable Software Instance Overview

BEST SESSIONS THAT I ATTENDED

- **24622 What's New in z/OS 2.4 – Valley of the Sun Edition**
 - By Gary Puchkoff of IBM
- z/OS 2.4 Preview Announcement in February 2019
- zCX z/OS Container Extensions
- Container pricing on IBM Z
- Open Data analytics on z/OS
- ==>> ICSF HCR77D0 web-deliverable
- Usability and Skills mainly via z/OSMF
 - New Icon-based Desktop
 - Sysplex Management including action commands

IBM zCX – z/OS Storage Integration

- z/OS Linux Virtualization Layer:
 - Allows virtual access to z/OS Storage, Network
 - Using virtio Linux interfaces
 - Allows us to support unmodified, open source Linux for Z
- Linux storage/disk access (via z/OS owned and managed VSAM datasets)
 - Leverages latest I/O enhancements (e.g. zHyperLinks, I/O fabric diagnostics, etc.)
 - Built-in host-based encryption
 - Replication technologies and HyperSwap



BEST SESSIONS THAT I ATTENDED

- **24622 What's New in z/OS 2.4 (continued)**
- z/OSMF Software Management
 - Portable Software Instance
 - Workflows for Configuration
 - Both IBM and ISV software will ship PSIs and Configuration Workflows
 - See Ed Jaffe's Workflow Video from early March
- z/OSMF Workflows can exported to print and to PDF
 - Migration book is gone, use Upgrade Workflow for z/OS 2.4
 - Export to Print if you want the book
- z/OSMF Lite
 - Configuration Book restructured to get z/OSMF Nucleus setup quickly
- JES2 policies to reduce Exits

BEST SESSIONS THAT I ATTENDED

- **24622 What's New in z/OS 2.4 (continued)**
- Scalability and Performance
 - Reduce SVC Dump Capture Time
- Availability
 - Online HFS to zFS migration
 - zFS High Availability support
- Systems Management
 - DFSMS Unix file backup and restore
 - JES3 Statement Of Direction – will not ship after z/OS “2.4 +1”
 - JES3 to JES2 migration support
- Security
- Application Development
 - Web enablement toolkit (contiguous delivery)

BEST SESSIONS THAT I ATTENDED

24583 z/OS Executive Forum

by David Jeffries, IBM VP of z/OS and many others

- Since SHARE in St. Louis 6 months ago
 - Missing documentation improving, more controls to stop deletions
 - JES3 Workgroup
 - Work to standardize Container Pricing
- Back at Lab
 - z/OS development and offering management team changes
 - zInternship program
 - DevOps - developing z/OS with Open Source and modern tooling
 - Agile 2.0 and Nirvana up and running

BEST SESSIONS THAT I ATTENDED

24583 z/OS Executive Forum (continued)

- z/OS 2.4 Preview announcement
 - Changing client journey
 - More data before or at launch
 - Not redbooks 6 months afterwards
 - z/OSMF substantial improvements
 - Workflow engine is core and is getting lots of attention
 - Codify standard activities with best practices
 - Committed to Zowe success - security, REST services
- JES3 - why deprecated?
 - Make a decision - we did
 - 10.5 years to move JES3 to JES2
- 1000 schools participated in Master the Mainframe in 2018-2019

SESSIONS OF INTEREST

24028 Curious about SR changes and Support Transformation

By Michael Stephens of IBM

- SR and PMR are now Cases
 - TSnnnnnnnnn (9 characters prefixed by TS)
- Mid-2018 Distributed Software Support now using Salesforce
- <https://www.ibm.com/mysupport>
- IBM Support Guide (support handbook redone)
- Target for z/OS is August 2019 SHARE
- Hardware is by country or parts of country
 - radically different, see hardware stuff we haven't seen before
 - USA may be done by SHARE Winter 2020
- Setup under your IBM profile to add case title and latest case update

SESSIONS OF INTEREST

- **23895 Bit Bucket x'39' (57 Sessions)**
 - by a host of characters
- Coffee Has Gotten Expensive by EJ
 - Java will be chargeable by Oracle in commercial uses including software
 - "Customers who use the IBM SDK or JRE bundled with their IBM..."
LinuxONE, IBM i, and z/OS platforms are also not affected by Oracle's changes.
 - OpenJDK with Eclipse OpenJ9 download from IBM's website

SESSIONS OF INTEREST

- **23895 Bit Bucket x'39' (continued)**
- ISPF Crazy by Tom Conley
 - ISPF is no longer strategic for IBM
 - Future changes limited to infrastructure
- CBTtape.org file967 User Collection for ISPF (CUCI)
 - ISPCMDS USERMOD to abbreviate commands
 - ISPF 3.17 UID 0 changed back to user UID on exit from UDLIST
 - Block deletes in ISPF 3.4 including VSAM data sets but errors are bypassed
 - Do a Refresh to verify that all deletes are completed
 - Edit Highlighting CUCI v1r2 28Jan2019
 - Several languages added: FORTRAN, SQL, CARLA, JAVA, RUBY, SHELL
 - HILITE OTHER first
 - HIGHLITE language is new command
 - Brackets are a problem if not using Codepage 37 and 1047
 - Pretend USS path for compare, copy, create, replace

Z/OS SERVICE STATUS

- z/OS 1.12 End of Service was Sept. 30, 2014
- z/OS 1.13 End of Service was Sept. 30, 2016

- z/OS 2.1 End of Service is Sept. 30, 2018
- z/OS 2.2 End of Service is Sept. 30, 2020
- z/OS 2.3 End of Service is Sept. 30, 2022
- z/OS 2.4 End of Service will be Sept. 30, 2024

- z/OS V2 has 5 years of Support plus 3 more years of fee-based Support



STATUS OF SHARE

SHARE STATUS

- SHARE Attendance Trending Upward
 - 1400 at Phoenix is larger than San Antonio in 2016
- 4 Women in IT sessions
- No Sessions Recorded in Phoenix
 - SHARE is re-evaluating recordings for Pittsburgh
- Laptop Covers Given Away at Phoenix
- SHARE 132 was March 10-15, 2019 in Phoenix

SHARE STATUS

- SHARE Affiliate Rate is \$99 Per Year (no voting)
- SHARE Select Membership (Annual Corporate)
- SHARE Monthly Webinars between Conferences
 - Registration required but free
 - Some vendor sponsored
- SHARE “Day” 8:30-5:30 (most breaks 15 min.)
 - 2-hour lunch starting in Pittsburgh (to accommodate Lunch and Learn issues)

SHARE STATUS

- [SHARE Mobile App](#) for iOS and Android
 - Earlier Availability
 - Sharing between devices still needs work
- Submit [Your Proposal](#) to Speak at SHARE in Pittsburgh by Friday, March 29, 2019
- SHARE Proceedings Access Needs SHARE Userid (free)
 - Go to www.share.org

SHARE STATUS

- **Future SHARE Conferences**
- Pittsburgh, Pennsylvania
 - August 2019
 - Make Hotel Reservations Now
- Fort Worth, Texas
 - Feb. 23-28, 2020
- Boston, Massachusetts
 - August 2-7, 2020

SHARE SACRAMENTO RESULTS

Number of People Onsite

Seattle (2015)	Orlando (2015)	San Antonio (2016)	Atlanta (2016)	San Jose (2017)	Providence (2017)	Sacramento (2018)
1,004	1,106	1,300	1,133	1,222	1,252	1,268

Number of Attendees (excludes exhibitors, compensated speakers, press, and staff)

Seattle (2015)	Orlando (2015)	San Antonio (2016)	Atlanta (2016)	San Jose (2017)	Providence (2017)	Sacramento (2018)
830	892	928	750	888	876	908

SHARE SACRAMENTO RESULTS

Number of Companies Represented

Seattle (2015)	Orlando (2015)	San Antonio (2016)	Atlanta (2016)	San Jose (2017)	Providence (2017)	Sacramento (2018)
290	314	358	545	259	236	259

SHARE SACRAMENTO RESULTS

First-time Attendees

Seattle (2015)	Orlando (2015)	San Antonio (2016)	Atlanta (2016)	San Jose (2017)	Providence (2017)	Sacramento (2018)
174	266	268	205	214	208	276

As a Percentage of Total Attendance

Seattle (2015)	Orlando (2015)	San Antonio (2016)	Atlanta (2016)	San Jose (2017)	Providence (2017)	Sacramento (2018)
17.33%	24.05%	20.6%	18.18%	17.5%	16.6%	27.8%