SHARE 2019 PITTSBURGH

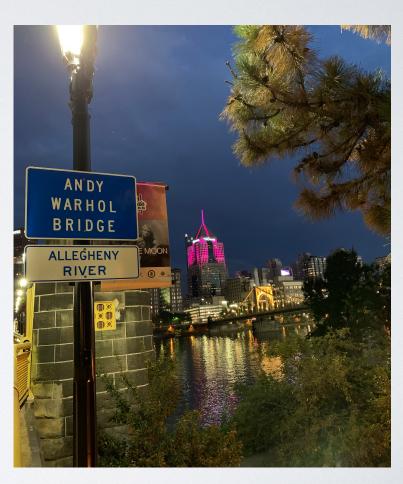August 4-9, 2019
By Ed Webb

AGENDA

- Why Go to SHARE?

- Odds and Ends

- Quotes of Interest

- Best Sessions

- System Z Strategies

- z/OS 2.4 Upgrade

- SHARE Status

WHY GO TO SHARE?

- z/OS 2.4 Previews and Upgrade Planning

- Late-breaking z/OS 2.3 News

- Networking with peers and IBM developers and executives

  - APAR PH16079 for z/OSMF resulted from a conversation at 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

- Wrap Up Outstanding APARs and Moving My SHARE Requirements Along Toward Availability or Rejection

- I Had Permission

ODDS AND ENDS

- Search for "SHARE Association" to find the SHARE App

  - Hint: Use SHARE App to get Session Presentations

- Hot Topics Still Maintained by IBM Systems Magazine but now at http://ibmsystemsmag.com/IBM-Z/Hot-Topics (a new URL)

  - Recent Hot Topics include "Importing TCPIP Config into Config Assistant" and "ICSF Delivers With the FMID HCR77D0 Release"

ODDS AND ENDS

- JES3 Migration is a Big Topic for a Few

  - SSA is largest JES3 shop in the world

  - In z/OSNext (a.k.a. 2.6?) in 2023, JES3 will not ship with z/OS

  - Many JES2 changes are to accommodate JES3 concerns

ODDS AND ENDS

- 25310 What's New in IBM Support?

  - By John Goodson and Marg Bennett of IBM

  - https://events.share.org/Summer2019/Public/SessionDetails.aspx?FromPage=Sessions.aspx&SessionID=8847

- Cognitive Support Portal (CSP) at www.IBM.com/mysupport

- Migrated The Weekend of July 26, 2019

QUOTES OF INTEREST

- "They always say time changes things, but you actually have to change them yourself" - Andy Warhol

- "I don't think less is more. More is better" - Andy Warhol

- "Sleep is for the weak and feeble" by Mark Wilson of RSM Partners

- 220+ Billion lines of COBOL supports 70% of business transactions by Kershaw Mehta of IBM

BEST SESSIONS

- All Sessions are at https://events.share.org/Summer2019/Public/sessions.aspx

- 25312 JES2 Product Updates and Latest Status

  - By Tom Wasik of IBM

- https://events.share.org/Summer2019/Public/SessionDetails.aspx?FromPage=Sessions.aspx&SessionID=8849

- SPOOL Encryption, Policies for Exits, JES3 Functionality

- OA56772 PSA overlay resulting in MVS wait state

BEST SESSIONS

- 25711 JES2 V2R4: Exploiting New Functions

  - By Tom Wasik of IBM

- https://events.share.org/Summer2019/Public/SessionDetails.aspx?FromPage=Sessions.aspx&SessionID=9181

- JES2 Policies

BEST SESSIONS

- 25306 Install Using z/OSMF Software Management

  - By Kurt Quackenbush

- https://events.share.org/Summer2019/Public/SessionDetails.aspx?FromPage=Sessions.aspx&SessionID=8843

- Software Management, Portable Software Instance, Software Update

BEST SESSIONS

- 25755 SMB to NFS

- https://events.share.org/Summer2019/Public/SessionDetails.aspx?FromPage=Sessions.aspx&SessionID=9219

- IBM's View by Kershaw Mehta of IBM

- Another View by Ed Jaffe of Phoenix Software

BEST SESSIONS

- 25972 z/OS Executive Panel Discussion

  - With Dave Jeffries of IBM, z/OS Development VP

- Episode 2 Review

- Episode 4 Preview

- Episode 3

SINCE EPISODE 2 IN PHOENIX

- z/OS 2.4 ESP Live

- Managed Beta for zCX (z/OS Container Extensions)

- ZOWE Open Source thru Open Mainframe Project

- zAcademy is live - worldwide (Oct. 21-25 in POK - free except Travel and Living)

- Community workflows on Github is live (ZORROW)

- Tailored Fit Pricing available

- First IBM fellow for z/OS - Elpida Tzortatos!

- Z/OS 2.4 Preview in Feb. 2019, a second in May for Hybrid Cloud, Z/OS 2.4 Full Announce on July 23

EPISODE 4 PREVIEW (NEXT 6 MONTHS)

- G.A. z/OS 2.4

- Openshift/RedHat

- Containers - see https://hub.docker.com/u/s390x/

- zAcademy 2020

- Kubernetes

- zNext

EPISODE 3 (Q&A)

- Memory is not cheap enough

    - Average zEC12 customer had 150 MB real memory

    - Average z14 has 1.8 TB

    - Interesting things before end of Year

- Storage is not cheap enough

- Why upgrade instead of migration? Migrate implies same function, Upgrade implies better function

- Metrics for z/OS function use - Need experiential data so SHARE may do a survey of customers

EPISODE 3 (Q&A)

- Zowe Enterprise-level Support

  - Give open source community a chance to resolve problem But no 24/7 support

  - IBM will support what we ship

    - If Zowe part of an IBM commercial product, then fully supported

  - Broadcom provides Zowe-only, fee-based support

SYSTEM Z STRATEGIES

- 25964 MVS Program and Keynote

  - By Jeff Magdall, Program Director for IBM Z Strategy

- https://events.share.org/Summer2019/Public/SessionDetails.aspx?FromPage=Sessions.aspx&SessionID=9419

- See This Session's Handout for More Info

SYSTEM Z STRATEGIES

- Annually 29 billion ATM transactions, 87% of all credit card transactions, 90% of all airline reservations

- Daily 30 Billion transactions, 40 million retail, 1 million hotel rooms each night

SYSTEM Z STRATEGIES

- Quantum computing

- Federated Analytics

- Hybrid Multicloud

- Pervasive Security

SYSTEM Z STRATEGIES

- New form factor for Z Next

  - Packaging changes

    - Later 7 nm chips with alliance with Samsung

    - More racks linked together

    - No GPU on Z

- Design changes will drive performance improvements

- Recovery Boost

  - Exploit unused CP capacity temporarily for recovery

- Z performance is improved in z/OS and applications

Z/OS V2R4 UPGRADE

- Several Sessions Provided Information about z/OS 2.4

  - 25754 What's New in z/OS 2.4 - Three Rivers Edition

  - 25295 z/OS 2.4 Upgrade - Planning

  - 25296 z/OS 2.4 Upgrade - Technical Actions

  - 25309 What's New in z/OSMF?

  - 25241 What's New in z/OS Open SSH V2R4

  - 25312 JES2 Product Updates and Latest Status

  - 25711 JES2 V2R4: Exploiting New Functions

  - 25047 z/OS V2R4 User Experience

  - 25755 SMB to NFS

Z/OS V2R4 UPGRADE

- Challenges

  - No Migration Book

  - User Key 8 Common Usage

  - zCX File System Size

  - Open SSH Upgrade

  - SMB to NFS Migration

Z/OS V2R4 UPGRADE

- No Migration Book

  - z/OSMF Workflows for V2.3 to V2.4 or V2.2 to V2.4 at GitHub

    - First step automatically discovers and marks unneeded Steps

  - z/OSMF Workflows Printed Copies at Knowledge Center

Z/OS V2R4 UPGRADE

- ALLOWUSERKEYCSA YES in DIAGxx is Not Allowed

  - Force User Keys Out of Common via USERKEYCADS NO

  - RUCSA is Priced for z/OS 2.4

    - Restricted user key CSA support via SAF

    - Pre-2.4 version is Not Priced

Z/OS V2R4 UPGRADE

- zCX File System Size

    - Container Extensions (zCX) FMID HZDC7C0

    - zCX (not Red Hat Linux today) needs 5200+ Cylinders

Z/OS V2R4 UPGRADE

- Open SSH Upgrade

- What is SSH?

  - Secure (encrypted) over one TCP/IP socket between a client and a server (host)

  - Authenticates client and server

- Multiple application channels such as terminal, sftp, command, port forwarding, etc.

- OpenSSH is most popular implementation, PuTTY is a popular free Windows client

Z/OS V2R4 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/OS V2R4 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) Not Available Until 2H 2020 (maybe earlier if the testing goes well)

- Other Security Changes (CIM, RMF, etc.)

SHARE STATUS

- Lots of YouTube videos from SHARE that have not been published

- Want to make them publicly available so we can post to YouTube

- What's New at SHARE Pittsburgh?

  - Security Warrior Digital Badge

    - Attend 15 of 45 security warrior sessions

SHARE STATUS

- Longer Lunch Breaks, Slightly Longer Day

- Sunday Welcome reception at 7 p.m.

  - Away from Convention Center

  - Entire Andy Warhol museum open until 9 p.m.

SHARE STRATEGIES

- Digital Badging

- Women in IT

- zNextGen

- Partner Program

- Strategic Partner

- Year-Round Education and Training

SHARE STATUS

- 200 MVSE Requirement Subscribers

  - 44 IBMers can't vote

  - 24 eligible voters from 14 ISVs

  - 134 eligible voters from 108 companies

- SHARE has close to 900 corporate members

SHARE STATUS

- In z/OS 2.4, IBM Has Done This Work on SHARE Top 85 Requirements

  - 14 delivered

  - 15 declined

  - 4 planned for future

  - 47 uncommitted

- SHARE May go to Yes or No for Voting instead of 1-10

- IBM RFE Process lifetime? (DB2 has gone to AHA?)

SHARE STATUS

- See You in Fort Worth, Texas - February 23-28, 2020