2017 VM Workshop - Ohio State University - June 22-24

All Times E.D.T.	Room 1 - Cartoon Room	Room 2 - Sphinx	Room 3 - Alumni Council	Room 4 - Traditions	Room 5 -Senate Chamber (Labs)	Room 6 - Hays Cape Room
	Wednesday 6/21	Wednesday 6/21	Wednesday 6/21	Wednesday 6/21	Wednesday 6/21	Wednesday 6/21
10:00-17:00					Prepare & Test Your Laptop for non-IBM Hands-On Labs	
	VM	LINUX	VSE	VENDOR / User	LAB	Added 3/17
	Thursday 6/22	Thursday 6/22	Thursday 6/22	Thursday 6/22	Thursday 6/22	Thursday 6/22
07:30-17:00	Registration Table					
07:45-08:45	Continental Breakfast (Sponsor Area)					
09:00-10:00	VM Workshop Opening (Giglio)					
10:00-10:15	Coffee Break (Sponsor Area)					
10:15-11:15	z/VM 6.4: A Customer Driven Release (Bitner)	LinuxONE - The World's Biggest Baddest Linux Server (Bauman)	z/VSE News, Announcements, Trends (Glodowski)	Visual Bash - This is absolutely a serious and useful tool (Flint)	Introduction to Docker Containers for Linux on z Systems (Lewis/Mild) 1 of 2	Integrating Oracle Databases with NoSQL Databases on Linux on z (Amsavelu)
11:30-12:30	z/VM System Configuration (Hayden)	The Emperor Strikes Back - Exploiting New and Advanced z13 Features (Giglio)	z/VSE Technical Update and z/VSE V6.2 Preview (Franzki)	Uh-Oh! Upper Management Wants to Leave the z/VSE Mainframe (McMahon)	Introduction to Docker Containers for Linux on z Systems (Lewis/Mild) 2 of 2	
12:30-13:30	Lunch – (Food Court)					
13:45-14:45	Managing z/VM and Linux Performance Best Practices (Sine)	Blockchain on LinuxONE, the new revolutionary transaction model (Mild)	z/VSE Connectors Introduction, Use Cases, and News (Franzki)	The Junior Woodchuck's Guide to Repairing Your RACFVM Database (B Hugenbruch)	Linux on z Systems Installation and Configuration Hands On (Lewis) 1 of 3	What happened to z/KVM - and other Linux questions answered! (Vosburg)
14:45-15:00	Coffee Break (Sponsor Area)					
15:00-16:00	Making Linux and Open Source first class on the mainframe through the Open Mainframe Project (Mertic)	Managing the BlockChain on Linux on z Systems (Sine)	z/VSE Pricing and Sub-Capacity Reporting (Glodowski/Franzki)	Using Kickstart to Install Red Hat under z/VM (Hartman)	Linux on z Systems Installation and Configuration Hands On (Lewis) 2 of 3	z/VM Tape Options for a Changing Mainframe Landscape (Falknor/Sissman)
16:15-17:15	50 Years of Mainframe Virtualization - CP/40 to z/VM (Elliott)		CICS TS for z/VSE Update including CICS Connectivity Options (Franzki)	My Company is Looking to Cut Costs in IT, Can We Save the Mainframe? (McMahon)	Linux on z Systems Installation and Configuration Hands On (Lewis) 3 of 3	
17:00-19:00	Reception – (Great Hall)					
18:30-20:30	VM Workshop Banquet (Great Hall)					
21:00- . . .	Post-dinner camaraderie & tall tales; "Hospitality Suite"					
	Friday 6/23	Friday 6/23	Friday 6/23	Friday 6/23	Friday 6/23	Friday 6/23
07:30-17:00	Registration Table					
07:45-08:45	Continental Breakfast (Sponsor Area)					
09:00-10:00	REXX Coding Standards & "Better Practices" (Walter)	Around the Wonderful World of PIPELINES in CMS (Kreuter) 1 of 2	z/VSE Networking Options and News (Franzki)	Private Cloud on z/VM and Linux (Tully)	z/VM Installation or Migration or Upgrade (Lewis) 1 of 3	Legacy Application Issues and Challenges (Zozzaro)
10:00-10:15	Coffee Break (location)					
10:15-11:15	z/VM 6.4 Preparation & Use (Bitner)	Around the Wonderful World of PIPELINES -Hands on Session 2 of 2(Kreuter)	IPv6/VSE SSH Secure Copy Facility (Barnard)	Keys to the Virtual Kingdom (B Hugenbruch)	z/VM Installation or Migration or Upgrade (Lewis) 2 of 3	MetalRexx (Ruiter)
11:30-12:30	Backup Strategies for z/VM, Linux on z, and LinuxONE (Dean)	Customer Experiences using Linux on z Systems and LinuxONE (Mild)	News on z/VSE Crypto Support and OpenSSL for z/VSE (Franzki)	Simple Shared Spaces (Troth)	z/VM Installation or Migration or Upgrade (Lewis) 3 of 3	Lessons Learned from running Hyperledger Demos on z/VM Linux (Kim)
12:30-13:30	Lunch – (Food Court)					
13:45-14:45	REXX Language Coding Techniques (Dean)	Linux on z Systems - News and Exploitation (Mild)	Help! My Mainframers are retiring and I need new talent! IBM's z Academic Initiative Program Fills Enterprise Skills Pipeline - (Schroeder)	Product Migration Considerations and Options for z/VSE Users (McMahon)	Blockchain Fabric-composer Hands On Lab - Bring Your Own Laptop (Kim & LaFalce) 1 of 2	Getting Started with SSL/TLS and PKI (Troth)
14:45-15:00	Coffee Break (Sponsor Area)					
15:00-16:00	Docker Technology, Demystified for Mainframers (Mild)	Proactive Monitoring and Operational Support of z/VM and Linux on z (Smrcina)	z/VSE Service and Support (Glodowski)	DNA Sequencing for z/VM Virtual Switch Security (B Hugenbruch)	Blockchain Fabric-composer Hands On Lab - Bring Your Own Laptop (Kim & LaFalce) 1 of 2	Easy DNS using Linux on z/VM (Troth)
16:15-17:15	Why Docker and z/VM (Tully)	Push Button or Hand Build? Getting to ZVM640 One Way or the Other (Kreuter)	z/VSE Base Installation - Step by Step (Franzki)	One Man's Brief Tour of Tor (Troth)	z/VM and Linux Guest Security, Best Practices - Open Discussion (Walter)	

	Saturday 6/24	Saturday 6/24	Saturday 6/24	Saturday 6/24	Saturday 6/24	Saturday 6/24
17:30-19:30	--------Dinner on your own--------					
21:00- . . .	Post-dinner camaraderie & tall tales; "Hospitality Suite"					
	Saturday 6/24	Saturday 6/24	Saturday 6/24	Saturday 6/24	Saturday 6/24	Saturday 6/24
07:45-08:45	**Continental Breakfast (Sponsor Area)**					**N/A**
09:00-10:00	Why the new Linux Ecosystem on LinuxONE and Open Source Technologies Enable New Horizons (Mild)	Ask and Ye Shall Receive - Open Discussion (Walter)	Building, Running, and Managing Docker Containers (Ferguson)	Running a Successful POC for Linux on z Systems (Eggett)	Operational Monitoring and Automation of Multiple z/VM LPARs with Linux Guests (Dean)	**N/A**
10:00-10:15	**Coffee Break (Sponsor Area)**					**N/A**
10:15-11:15	How to Integrate Business Processes, and Data Enforcing Industry Standards (Mild)	Don't Fear the Critical Situation (Bitner)		Mainframe in a Tiny Box: What a Wonderful Concept, a developer's dream come true (King)	Customer Experiences Managing z/VM, Linux on z Systems and LinuxONE (Dean)	**N/A**
11:30-12:30	VM Workshop Conference Closing					**N/A**
12:30-13:30	**Lunch – Box Lunches**					**N/A**
	Post Workshop Committee Meeting					**N/A**
	** Sessions, times and/or presenters may change **					

User session	Lab Session	Open slot			

	A	B	C	D
1	Type	Title	Synopsis	When/Where
2	z/VM	z/VM 6.4: A Customer Driven Release (Bitner)	This session will take a high level view of the new z/VM 6.4 release that became Generally Available on November 11, 2016. It was a release born from customer feedback and with that, each customer should find some significant value in the release. We'll discuss items such as HyperPAV for z/VM ECKD paging, 2TB real memory support, improved SCSI management, a new CMS Pipelines library, and much more.	Thurs 10:15 Cartoon 1/2
3	Linux on z	LinuxONE - The World's Biggest Baddest Linux Server (Bauman)	The IBM LinuxONE server is the world's largest and most sophisticated Linux server. This session will explore the hardware platform and the virtualization infrastructure capable of supporting thousands of servers and tens of thousands of containers. This session will explore workload scenarios making the most sense (saving the most cents) for putting this server to work. This session will conclude with notes on how to analyze the fitness of this server in your IT environment.	Thurs 10:15 Sphinx
4	z/VSE	z/VSE News, Announcements, Trends (Glodowski)	Join this session for the latest News and Announcements about and around z/VSE. We will discuss the z/VSE V6.2 preview announcement, future enhancement, pricing, Statements of Direction, and more.	Thurs 10:15 Alumni Council
5	User/Vendor	Visual Bash - This is absolutely a serious and useful tool (Flint)	Visual Bash is actually beyond merely being a way to bait the Microsoft legal department. It is in fact a disciplined framework for rapid development of very agile bash scripts capable of use typically in DevOps environments. Visual Bash allows for clear documentation and flexible implementation of shell scripts in an operational environment. The Barre Open Systems Institute of Vermont has developed and taught this programming technique to several of our graduates who have gone on to professional operational activities. Finally this fascination with bash has led to some disturbing, disruptive, and humorous behavior which will be demonstrated and discussed. This is useful when developing zLinux management tools of all types.	Thurs 10:15 Traditions
6	Lab	Introduction to Docker Containers for Linux on z Systems (Lewis/Mild) (2 sessions)	In this two-part hands-on lab, students will gain experience installing the contents of the new SLES12 SP1 Containers Module, and then have an opportunity to work with the SUSE provided pre-built SLES12 image, customize that image, and build a new image from that base. There will also be an opportunity to explore docker containers running these images. The second part of this lab will involve deploying and testing a mobile environment and DB2 in docker containers on your SLES12 SP1 system. The second part will emphasize how simple and easy it is to deploy this environment in containers and test using a mobile simulator. (2 sessions)	Thurs 10:15-11:30 Senate Chambers
7	User/Vendor	Integrating Oracle Databases with NoSQL Databases on Linux on z (Amsavelu)	A NoSQL database provides a mechanism for storage and retrieval of Systems of Engagement data which is modeled in means other than the tabular relations used in relational databases like Oracle or DB2. Whereas Relational Databases provides a time tested successful way of storing and retrieving Systems of Records used in applications like ERP, CRM etc., Linux on z systems are excellent choice of implementing both type of databases due to their availability, scalability and security characteristics. In this topic we will explore the NoSQL databases evolution and their availability on IBM Linux on z Systems and we will also discuss about how the data can be integrated between relational and NoSQL databases. Specifically we will provide an example of how records stored in a relational database like Oracle can be replicated with a NoSQL database like MongoDB both running on Linux on z systems.	Thurs 10:15-11:30 Hays Cape
8	z/VM	z/VM System Configuration (Hayden)	A z/VM system configuration file is supplied when you install VM, but do you know about all the choices, options, and features you can specify? What choices help you automate the startup, which ones help with dynamic changes, which ones help you manage the system, and what else is there? In this session, we'll take a detailed look at z/VM system configuration along with IPL options and what happens when a z/VM system starts up. The new settings in z/VM 6.4 are highlighted. Both beginning and experienced system programmers should learn something new from this session!	Thurs 11:30 Cartoon 1/2

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1	Type	Title	Synopsis	When/Where
9	User/Vendor	The Emperor Strikes Back - Exploiting New and Advanced z13 Features (Giglio)	Implementing a new z13 is a nontrivial amount of work. Exploiting new and advanced features like Global Shared LACP VSWITCH, HiperSockets Bridges, and z/VM Live Guest Relocation make the z13 implementation that much more difficult. The goal was to move dozens of production Linux servers from an zEC12 to the z13 without Interruption. We will also talk about some of the challenges and things we learned the hard way. When you exploit the same features on your z13, you can learn the easy way instead of the hard way.	Thurs 11:30 Sphinx
10	z/VSE	z/VSE Technical Update and z/VSE V6.2 Preview (Franzki)	This session discusses the z/VSE Version 6 functionality and latest enhancements. It will also provide more details about functions and enhancements recently announced in the z/VSE V6.2 Preview, such as zHPF, IBM z13 Vector Facility support, CICS Transaction Server for z/VSE V2.2, Security & OpenSSL enhancements, z/VSE connectors enhancements, and networking enhancements. We will also discuss the support for tape-less initial installation using a SCSI installation disk and support for stand-alone dump using a SCSI dump disk.	Thurs 11:30 Alumni Council
11	User/Vendor	Uh-Oh! Upper Management Wants to Leave the z/VSE Mainframe (McMahon)	This session will look at the Total Cost of Ownership on the Mainframe as opposed to simply looking at the high level HW and OS costs of the alternatives. Discussion will include migration costs, considerations such as customizing new applications to deliver equivalent functionality, security considerations, etc.	Thurs 11:30 Traditions
12	z/VM	Managing z/VM and Linux Performance Best Practices (Sine)	In this session, the speaker takes a twofold approach to best practices for z/VM and Linux management. First, the top performance attributes as determined by z/VM development are introduced and reviewed for comprehension, and examples are shown on how to monitor for these performance attributes. Second, discussion on functions and features that should be enabled in your performance tool, and why, to better manage your end user's expectations and understand the performance attributes more completely. Attendees new to z/VM and Linux will gain insight into what are necessary attributes to monitor in order to maintain a healthy z/VM and Linux environment. All attendees will gain best practice recommendations for the latest versions of z/VM and Linux.	Thurs 13:45 Cartoon 1/2
13	Linux on z	Blockchain on LinuxONE, the new revolutionary transaction model (Mild)	Blockchain is a new technology that can increase the efficiencies and economics at companies by creating a more robust environment for real-time and secure recording of transactional workloads using a distributed shared ledger in the most secure environment on z Systems.	Thurs 13:45 Sphinx
14	z/VSE	z/VSE Connectors Introduction, Use Cases, and News (Franzki)	z/VSE offers a huge set of connectors and tools that allow z/VSE to participate in a distributed application environment. This session gives a technical overview about the z/VSE Connectors and discusses typical use cases. In addition, the recently announced z/VSE V6.2 connector enhancements will be previewed: z/VSE SOAP support for channels and containers, the new z/VSE REST Engine with JSON support, z/VSE Database connector enhancements, and more.	Thurs 13:45 Alumni Council
15	z/VM	The Junior Woodchuck's Guide To Repairing Your RACFVM Database (B Hugenbruch)	z/VM requires an ESM for meaningful security at the virtualization layer -- but sometimes, bad things do happen to good security servers. This presentation will crack open the RACFVM database and discuss the following: common configuration scenarios, tools used for analysis (from the scalpel to the chainsaw), the most frequent errors seen with/in the RACFVM database, and tips and tricks to repair it.	Thurs 13:45 Traditions
16	Lab	Linux on z Systems Installation and Configuration Hands On (Lewis) 3 sessions	This hands-on lab will provide an opportunity to install Linux for z Systems into a z/VM virtual machine, do some basic system administration, and configure commonly used packages such as Apache. (3 sessions)	Thurs 13:45-17:15 Senate Chambers
17	Vendor	What happened to z/KVM - and other Linux questions answered! (Vosburg)	z/KVM is no longer offered by IBM, but SLES 12 is ready now to provide the hypervisor you need on z Systems. We will discuss KVM, and why it matters - as well as update you on what SUSE Enterprise for z Systems is doing now - like full system rollback. We will also show a live demo of a full KVM VM rollback. Plenty of time will be available for your questions about KVM and any other Linux on z Systems topics you bring.	Thurs 13:45 Hays Cape

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1	Type	Title	Synopsis	When/Where
18	Linux on z	Managing the Blockchain on Linux on z Systems (Sine)	Blockchain is quickly moving from a theoretical application development model to a running and working application set in the enterprise. Many customers are looking to implement blockchain on Linux on z Systems. Blockchain often consists of the blockchain application, containers, and/or the Operating System. As with all enterprise solutions, monitoring and managing the solution is an important part of maintaining the implementation. The speaker will discuss the blockchain model on Linux on z Systems and help customers to introduce their monitoring and managing best practices into this new application model. A focus on what's available today and what the future may hold will be reviewed.	Thurs 15:00 Sphinx
19	z/VSE	z/VSE Pricing and Sub-Capacity Reporting (Glodowski/Franzki)	This session will provide an overview of the different z/VSE Pricing options available, including the latest updates on Multi-Version Measurement. Sub-capacity has become the favorite choice for many customers. We show how you can use SCRT and CMT for sub-capacity reporting.	Thurs 15:00 Alumni Council
20	User/Vendor	Using Kickstart to Install Red Hat under z/VM (Hartman)	I've used kickstart at several customers to deploy Red Hat servers and have found this is a much more efficient way of deploying servers in a self documenting controlled manner at no additional cost. This same concept can be used with SuSE using AutoYast or Ubuntu using Preseed.	Thurs 15:00 Traditions
21	Vendor	z/VM Tape Options for a Changing Mainframe Landscape (Falknor/Sissman)	Learn about the latest developments for z/VM and z/VSE mainframe tape environments that can help you navigate changes in product support and technology offerings. Topics will include new capabilities and use cases for virtual tape solutions from Luminex. Approaches to migration, vaulting, continuous availability, and DR testing will also be discussed. From a 2U footprint up to multiple petabytes, all environment sizes will be covered.	Thurs 15:00 Hays Cape
22	User/Vendor	My Company is Looking to Cut Costs in IT, Can We Save the Mainframe? (McMahon)	This session will discuss the options for various levels of managed services including Full Blown Outsourcing of All IT Functions, Outsourcing of OS and Infrastructure Resources (on Prem and Remote), "Rent a Programmer"-type solutions for meeting short term needs, etc.	Thurs 16:15 Traditions
23	z/VM	50 Years of Mainframe Virtualization - CP/40 to z/VM (Elliott)	2017 marks the 50th anniversary of CP/40 going into customer production and the 45th anniversary of the announcement of VM/370. This presentation will provide an historical view of the evolution of mainframe virtualization over the decades. Workload evolution will also be covered from early time-sharing to DOS/VS guests through to PROFS and now Linux for z Systems.	Thurs 16:15 Cartoon 1/2
24	z/VSE	CICS TS for z/VSE Update including CICS Connectivity Options (Franzki)	This session gives an update on the recently announced CICS TS for z/VSE release, the CICS Explorer, as well details on new features, such as channels and containers, HTTP 1.1 support and OpenSSL support for CICS Web Support. In addition, we will discuss various CICS connectivity options using CICS Web Support, CICS Transaction Gateway, z/VSE SOAP & REST Support, EZA Multiplexer, and OpenSSL support.	Thurs 16:15 Alumni Council
25	User/Vendor	REXX Coding Standards & "Better" Practices" (Walter)	Notes from decades of real-life experiences. This session won't cover REXX instructions per se, just good standards for formatting production-quality EXECs, and where you can look for help. The following Better Practices will be addressed: the importance of having standards, REXX file formatting standards, and the necessity of CYA. A sample DOCREXX EXEC startup template will be presented as well as a miscellany of other free REXX-related Tools.	Friday 09:00 Cartoon 1/2
26	Lab	Around the Wonderful World of PIPELINES in CMS (Kreuter) 2 sessions	David will conduct lectures & hands-on labs using CMS PIPELINES. CP and CMS command output, CMS file manipulation, and filter stages will be covered. STOP USING EXECIO AND THE PROGRAM STACK! (Laptops required) (2 sessions)	Friday 09:00-11:15 Sphinx
27	z/VSE	z/VSE Networking Options and News (Franzki)	This session provides an overview about the various networking options with z/VSE. It will discuss the new z/VSE Networking Appliance as well as support for VLAN and Layer 2. In addition, it will cover new networking solutions like the z/VSE Fast Path to Linux on System z in a z/VM or LPAR environment as well as z/VSE's z/VM IP Assist function. Besides this, it also covers some IPv6 basics and how you can make use of it.	Friday 09:00 Alumni Council

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1	Type	Title	Synopsis	When/Where
28	z/VM	Private Cloud on z/VM and Linux (Tully)	Cloud systems are usually deployed on distributed systems. Why is this? Is not the mainframe the most reliable computing platform on the planet? Is not 'z/VM' the most mature and robust hipervisor? Is not Linux/UNIX the most versatile operating system? This presentation will describe how 'zLinux' is used in our organization and how a 'self-service portal' (aka 'Private Cloud') solution was designed, written, and runs. It will start at a high level with business questions and solutions, then drill down into details of architecture, platforms, and code. A live demonstration will be given.	Friday 9:00 Traditions
29	Lab	z/VM Installation or Migration or Upgrade (Lewis) 3 sessions	This hands-on lab provides the opportunity to install z/VM 6.4 into a two member SSI cluster, and configure TCP/IP, DirMaint, and Performance Toolkit. If you are experienced with z/VM 6.4 installation, there are two other choices available: Upgrade a z/VM 6.3 system to z/VM 6.4, or Migrate a non-SSI z/VM 6.4 system to create a single member SSI cluster, then clone that member to create a two member SSI cluster. Each of the options provides a comprehensive lab document which will serve as a useful reference in days to come. (3 sessions)	Friday 09:00-12:30 Senate Chambers
30	Vendor	Legacy Application Issues and Challenges (Zozzaro)	This session discusses Legacy Applications - issues, challenges, and pain points shared by many who have a need to maintain, modernize or just understand them. It also discusses CM evolveIT, a product by CM First and how it can help companies with their Legacy Application issues.	Friday 09:00 Hays Cape
31	z/VM	z/VM 6.4: Preparation & Use (Bitner)	z/VM 6.4 was generally available on November 11, 2016 and brought a lot of new capability to the z/VM environment. This presentation reviews some of the key changes in the release. First we'll look at your existing system and discuss what will be different when you go to z/VM 6.4. Next we'll look at what you should change prior to IPLing z/VM 6.4, things like expanded storage or changes for HyperPAV paging. We'll wrap things up with a discussion of how you exploit some of the new features after you are running z/VM 6.4.	Friday 10:15 Cartoon 1/2
32	z/VSE	IPv6/VSE SSH Secure Copy Facility	Introduction and overview of IPv6/VSE's new SSH-based Secure Copy facility. Jeff Barnard of Barnard Software, Inc. will discuss how to use SSH in a z/VSE environment to transfer data and execute commands.	Fri 10:15 Alumni Council
33	z/VM	Keys to the Virtual Kingdom (B Hugenbruch)	IBM z Systems provide cryptographic features to protect the data in your Systems of Engagement and Systems of Record. Intrigued by the possibilities inherent in IBM z Systems cryptographic features? Uncertain as to what all these acronyms mean? Confused about which features operate when running under z/VM? Wondering about the basics of guest crypto configuration? Scared by the word 'cryptography'? This presentation aims to alleviate fear and uncertainty by explaining the IBM z Systems cryptographic "stack": what the features do, how they help, how z/VM virtualizes them, and how a guest can capitalize upon them ... with as few security-related acronyms as possible.	Friday 10:15 Traditions
34	z/VM	MetalRexx (Ruiter)	When Cowlishaw rocks to Zeppelin the result is not always Completely Predictable. Come and brainstorm about some Crazy Possibilities for Rexx.	Friday 10:15 Hays Cape
35	z/VM	Backup Strategies for z/VM, Linux on z Systems, and LinuxONE (Dean)	Whether implementing cloud or supporting server consolidation projects, customers are implementing mission critical applications on Linux on z Systems and LinuxONE. Solutions to manage the infrastructure are key. This session focuses on strategies for backing up and restoring data and disks for z/VM and Linux on z Systems or LinuxONE. Advantages and disadvantages of each approach are discussed, including performing backups from z/OS. The session also includes live demos of how to use IBM Backup and Restore Manager for z/VM to back up and restore z/VM and Linux on z Systems data, including automation.	Friday 11:30 Cartoon 1/2
36	User/Vendor	Customer Experiences using Linux on z Systems and LinuxONE (Mild)	How customers and developers take advantage of Linux on z Systems for the Digital Transformation that supports next-gen mobile, cloud, and analytics solutions while offering enterprise-grade security and reliability with open source flexibility. The requirements for a digital business focus on workloads and characteristics that enable a two-speed IT architecture: one that lets companies rapidly develop customer-facing applications while updating systems of record at a slower pace. Come and see how you can use these technologies as well.	Friday 11:30 Sphinx

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1	Type	Title	Synopsis	When/Where
37	z/VSE	News on z/VSE Crypto Support and OpenSSL for z/VSE (Franzki)	This session will show how to exploit z/VSE Security and Crypto features like the new OpenSSL support and Encryption Facility for z/VSE. We will discuss recent technology news such as Diffie-Hellman key exchange and Elliptic Curve cryptography and how it can be used with z/VSE. In addition, IBM mainframe cryptographic technology, including Crypto Express and CP Assist for Cryptographic Function (CPACF) are discussed. This session will also contain a live demo that shows how to setup and use the new OpenSSL support of z/VSE. It covers all required steps, including key generation, certificate handling, etc. We will SSL-enable the VSE Connector Server and establish a secure connection to z/VSE from the z/VSE Navigator tool.	Friday 11:30 Alumni Council
38	User/Vendor	Simple Shared Spaces (Troth)	This presentation will demonstrate shared disk on z/VM and KVM, and discuss shared disk with VMWare and Xen. This presentation will also demonstrate filesystems in DCSS. We will identify which filesystems are good candidates for sharing.	Friday 11:30 Traditions
39	User/Vendor	Lessons Learned from running Hyperledger Demos on z/VM Linux	Hyperledger is a distributed ledger standard/protocol by Linux Foundation using Blockchain technology which was introduced with Bitcoin Crypto Currency. It is designed to support Enterprise grade security, high availability and scalability for various industries ' critical business applications using distributed/shared database. In this presentation, Alex will share some of the lessons he learned from installing, converting and debugging Hyperledger demo codes running on z/VM Linux systems. He will also show some of Hyperledger demo apps running on z/VM Linux.	Friday 11:30 Hays Cape
40	z/VM	REXX Language Coding Techniques (Dean)	This presentation is aimed at the beginning to intermediate REXX programmer who wants to gain further insight on better REXX programming techniques. We review what REXX products (and related products) are available, both free and priced. Join us to uncover coding techniques, hints and tips, and key instructions like ADDRESS, PARSE, etc. We also discuss compound variables vs. data stack, plus troubleshooting and programming styles for REXX.	Friday 13:45 Cartoon 1/2
41	Linux on z	Linux on z Systems - News and Exploitation (Mild)	Linux on z Systems is enhanced continuously to support the technology which enables an effective exploitation of the IBM z Systems platform. This provides the base for highly scalable and reliable enterprise solutions integrated in a hybrid cloud and built with Microservices to take advantage of the strongest securable platform and its virtualization.	Friday 13:45 Sphinx
42	z/VM	Help! My Mainframers are retiring and I need new talent! IBM's z Academic Initiative Program Fills Enterprise Skills Pipeline (Schroeder)	Discover the programs and offerings that IBM has put in place to help clients to find, attract, train, and retain new z talent. Take note of the no-cost options available to help bring your new hires onboard, and learn about all of the valuable ways that IBM can assist in broadcasting your job openings to z Academic Initiative candidates.	Friday 13:45 Alumni Council
43	User/Vendor	Product Migration Considerations and Options for z/VSE Users (McMahon)	Many of the vendors in the z/VSE space have either left the platform completely, have significantly curtailed/eliminated further development, or have significantly cut back on support personnel. Is this the future of z/VSE or are there options? Discussions will include options for migrating to different vendors for a wide variety of software solutions. In addition, the session will also include migration considerations, migration planning and migration implementation.	Friday 13:45 Traditions
44	User/Vendor	Getting Started with SSL/TLS and PKI (Troth)	Let's Encrypt, y'all! In this presentation we'll explain the basics of SSL (TLS), the bigger picture of PKI, and the purpose of a Certificate Authority. We'll also discuss the differences between an external CA and an in-house CA and demonstrate using both.	Friday 13:45 Hays Cape
45	User/Vendor	Blockchain Fabric-composer Hands On Lab (Part 1 of 2) - Bring Your Own Laptop and Create Your First Blockchain App	Fabric-composer is a development tool to create and deploy blockchain application for Hyperledger Fabric. In this short lab, we will try to show steps for creating business rules, applying application code and deploy the results of the blockchain application to Hyperledger fabric using fabric composer tool. Personal laptop/notebook with web browser is required to participate the lab.	Friday 13:45 Senate Chambers

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1	Type	Title	Synopsis	When/Where
46	Linux on z	Docker Technology, Demystified for Mainframers (Mild)	Application flexibility is getting into new dimensions with Linux containers and Docker. This presentation explains the container technology and Docker in the light of a mainframe specialist. You will recognize in Docker some known concepts from the mainframe and you'll see that it is easier to understand the technology with the mainframe analogy.	Friday 15:00 Cartoon 1/2
47	User/Vendor	Proactive Monitoring and Operational Support of z/VM and Linux on z (Smrcina)	What is proactive monitoring and why is it important? The speaker will explore the capabilities of monitoring your z/VM and Linux systems with the tools provided with the zVPS software suite. We will also show how to integrate proactive monitoring into your regular operations.	Friday 15:00 Sphinx
48	z/VSE	z/VSE Service and Support (Glodowski)	This session will provide an overview of service and support in z/VSE. We will show updates on related tools and will navigate live between RSLs, requirements, supported hardware, and things you probably did not know about the z/VSE web page.	Friday 15:00 Alumni Council
49	z/VM	DNA Sequencing for z/VM Virtual Switch Security (B Hugenbruch)	With the PTF for APAR VM65925, the NICDEF user directory statement is enhanced to provide a set of new operands referred to as Directory Network Authorization (DNA). With DNA, a system administrator can configure and consolidate a virtual NIC device and its network properties in a centralized location, the z/VM user directory. This session will talk through security around the z/VM Virtual Switch using this new feature as a lens. We will focus on specific configuration examples for CP and DirMaint, and discuss the implications to an environment controlled by RACF/VM or another External Security Manager.	Friday 15:00 Traditions
50	User/Vendor	Easy DNS using Linux on z/VM (Troth)	So who's handling your DNS? If you need a reliable domain name server on z/VM, here's how to do it. Sample configuration, DB, startup, and compiling will be provided based on actual personal work.	Friday 15:00 Hays Cape
51	User/Vendor	Blockchain Fabric-composer Hands On Lab (Part 2 of 2) - Bring Your Own Laptop and Create Your First Blockchain App	Fabric-composer is a development tool to create and deploy blockchain application for Hyperledger Fabric. In this short lab, we will try to show steps for creating business rules, applying application code and deploy the results of the blockchain application to Hyperledger fabric using fabric composer tool. Personal laptop/notebook with web browser is required to participate the lab.	Friday 15:00 Hays Cape
52	User/Vendor	Why Docker and z/VM (Tully)	ADP has been very vocal on their implementation of Docker containers for production workload. As of today (2/17/17) we still don't have a GA version of the DOCKER Engine to run on Z. But even without a GA version of Docker the middle-ware teams along with the Z infrastructure teams have built and tested pre-prod versions of docker engine and swarm. We see Z as having a very solid story in this space.	Friday 16:15 Cartoon 1/2
53	User/Vendor	Push Button or Hand Build? Getting to ZVM640 One Way or the Other (Kreuter)	You want to run 640. Good decision. Should you use the migration tool? Should you hand build your way to 640? The presenter, David Kreuter, will share his recent experiences using both methods. The IBM Migration tool set will be compared to the "Dave Way".	Friday 16:15 Sphinx
54	z/VSE	z/VSE Base Installation - Step by Step (Franzki)	This session provides step by step description of the z/VSE base installation. As migration to z/VSE V6 requires a base install, the steps to prepare and execute a tape-less base installation are explained. Also, hits & tips about data migration after the base install is complete are covered.	Friday 16:15 Alumni Council
55	User/Vendor	One Man's Brief Tour of Tor (Troth)	Tunneling into the Tor Network and Hidden Services. This presentation will discuss how to get Tor (the program), how to build it from source (if needed), how to use it with any browser (as a SOCKS proxy), how to use it with SSH and how to create a "hidden service". Anonymity Matters on z/VM too!	Friday 16:15 Traditions
56	User/Vendor	z/VM and Linux Guest Security, Best Practices - Open Discussion (Walter)	Security of any sort is only as good as you know how to make it. Come share what you have done to secure your z/VM systems and Linux guests. Come ask what else you should be doing.	Friday 16:15 Senate Chambers
57	Linux on z	Why the new Linux Ecosystem on LinuxONE and Open Source Technologies enable new horizons (Mild)	Customer solutions vary from simple database services to highly scalable solutions with Mobile and Real time Analytics and potentially Blockchain technology. Come and see best practices from implementations and how you can leverage the open source technologies to integrate Linux workloads in virtualised environments like z/VM in your enterprise.	Sat 09:00 Cartoon 1/2

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1	Type	Title	Synopsis	When/Where
58	User/Vendor	Ask and Ye Shall Receive - Open Discussion (Walter)	An "Open Discussion Session" opportunity to safely ask questions about z/VM, z/VSE, and Linux guests. (You may think they are "dumb" questions but you will NOT be judged or ridiculed.) Everyone started out as a "newbie". Those willing to ask questions learned from the experience of those who came before them. Is there something causing you trouble at work, don't know where to look for help, can't find (or understand) the documentation, etc.? This will be a good place to ask. Responses will depend upon the attendance of experienced z/VM, z/VSE, and Linux experts... perhaps YOU! The moderator will share the locations of common FREE z/VM tool web sites, and describe some free tools often found at experienced z/VM customer sites. What free tools do you run which are not shipped by IBM with z/VM, z/VSE, or Linux?	Sat 09:00 Sphinx
59	User/Vendor	Building, Running, and Managing Docker Containers (Ferguson)	In this session I will examine using the OpenShift tool to manage, build, deploy, and monitor containers. I will also provide an update on the containers ready for use on Linux on z.	Sat 09:00 Alumni Council
60	User/Vendor	Running a Successful POC for Linux on z Systems (Eggett)	Mainline has run over 30 Proofs of Concept for Linux on z Systems. We have encountered many challenges that were overcome to reach success, including politics, scope creep, technical, resources and more. This session will help you understand the importance of upfront planning and how your Business Partner and IBM can help deal with this challenge to help you plan your successful POC for z Linux.	Sat 09:00 Traditions
61	z/VM	Operational Monitoring and Automation of Multiple z/VM LPARs with Linux Guests (Dean)	As the Linux on z Systems environment continues to grow, the need for software and solutions to manage this environment also grows. This session focuses on operational monitoring and automated operations across multiple z/VM LPARs, with or without SSI. It includes live demos of one or more of the following: (1) automatically take action based on messages on z/VM service machines, on Linux guest consoles, and in Linux syslog data (2) view and interact with live consoles, for both monitoring and debugging purposes (3) monitor and manage spool space (4) send alerts to a central alerting system, such as IBM Netcool/OMNIbus or other systems that accept SNMP traps (5) send e-mails based on console messages, spool usage, etc. (6) automatically archive logging data when a disk approaches full.	Sat 09:00 Senate Chambers
62	Linux on z	How to Integrate Business Processes and Data-Enforcing Industry Standards (Mild)	If your business processes need to comply with Industry standards and you want to orchestrate them at the same time with the real time data flow control, this session is perfect. It illustrates solution concepts that you can use now to easily enforce business rules and integrate Open Source technologies and Microservices even in a Hybrid Cloud, to become the most agile and innovative integrated Business.	Sat 10:15 Cartoon 1/2
63	User/Vendor	Don't Fear the Critical Situation (Bitner)	My worst fear used to be a critical situation (crit sit), but now it's a middle seat on a 12 hour flight. I still have a healthy respect for crit sits, but I don't fear them. Sort of like 7th grade, I've been through it, so I know I can do it. The speaker will review various hints and tips about how to live through a crit sit or maybe even avoid it. While many of the stories will be z/VM related and there will be some specifics for collecting data in a z/VM environment, a lot of the information and discussion will apply to IT crit sits in general.	Sat 10:15 Sphinx
64	User/Vendor	Mainframe in a Tiny Box: What a Wonderful Concept, a developer's dream come true (King)	This presentation shows technology behind this powerful and personal mainframe and demonstrates a working environment illustrating the power and possibilities this distributed platform brings to the DevOps Community. Everyone can have their own mainframe.	Sat 10:15 Traditions
65	User/Vendor	Customer Experiences Managing z/VM, Linux on z Systems, and LinuxONE (Dean)	Whether implementing cloud or supporting server consolidation projects, customers are implementing mission critical applications on Linux on z Systems and LinuxONE. In this session, the speakers will focus on real customer problems and associated solutions with managing this new infrastructure, including monitoring messages, monitoring spool space, sending alerts, automatically fixing a problem, and backing up and recovering critical data.	Friday Sat 10:15 Senate Chambers
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