

Title	Abstract
Building Mainframe Skills & Community	This session will provide an update of the Academic Initiative Program. Also discussed will be ways that you can take advantage of these programs to keep your business well staffed. A brief update on the online z System community (Destinationz.org) will also be provided.
Your Ticket to System z	A user experience detailing the continuing growth of 'Linux on System z' while maintaining continuity with zVSE, zVM and other platform systems.
Intro to Rexx Hands-on Lab	This Hands-on Lab will present a bare minimum of lecture describing the Rexx language, then turn you loose to work on your choice of programming problems. All programming problems will come with suggested solutions so you won't have to start from scratch unless you want to. You will work on your own laptop connected to a common z/VM tool environment; no software will need to be installed.
ADP Customer Experience: Oracle on System Z Linux	A discussion of the experience ADP has with running more than 3000 Oracle databases on the Linux for System Z.
Using Virtual Linux Machines in Programming Classes	The presenters will describe how virtual Linux machines are used in conjunction with several programming classes taught in the Thomas J. Watson School of Engineering and Applied Science, and the behind the scenes system setup and support to make things run smoothly.
Binghamton University President Harvey Stenger kickoff keynote	Keynote and Kickoff presentation. Len S and Eric will prepare Harvey in June timeframe.
Customer Experience with Linux on z Systems	The presentation will address these questions and provide client examples and insight into the motivation and benefits. It will include different industries and application areas, like Oracle database consolidation and SAP.
IT Optimization with Linux on z Systems	What is the difference to a distributed environment, what are the advantages and practical experience? What are our customers doing with Linux on z Systems and why did they chose to run it on z Systems? The presentation will address these questions and provide client examples and insight into the motivation and benefits
Linux on z Systems – Update	What is the difference to a distributed environment, what are the advantages and practical experience? What are the advantages of Linux on System z? Why do clients use Linux on z Systems? The latest enhancements including Elastic Storage, DB2 BLU, and more, as well as future direction will be covered.

<p>50 Years of z/VSE - getting stronger year by year!</p>	<p>2015 is the year for z/VSE to celebrate its 50th anniversary. Please join us in chatting about the good old days and the innovations leading from DOS/360 to today's z/VSE. Bring your own stories, and share your thoughts on what to do to make this unbreakable operating system go even stronger for the next 50 years.</p>
<p>z/VSE Announcements, Trends &amp; Directions</p>	<p>This session provides an overview of the most recent announcements for z/VSE, where it will be going in the future and relevant changes and additions introduced with IBM z13 and exploited by z/VSE V5.</p>
<p>Implementing the z/VSE Fast Path to Linux on System z</p>	<p>This session will give an overview about the Linux Fast Path function and its new features in z/VSE V5.1, such as the new LPAR support, IPv6 support and z/VSE's z/VM IP Assist function. We will discuss what features it provides and what benefits you can expect by using it. This session is of special interest for everybody that runs z/VSE applications communicating with applications running on Linux on System z. Good examples are applications using the DB2 Client, Connectors, VSAM Redirector, etc.</p>
<p>How to secure your z/VSE system and data in today's interconnected world</p>	<p>This session provides an introduction and best practices to the basic security concepts of z/VSE. It will also cover z/VSE security concepts in an open and heterogeneous world where z/VSE may connect to anyone and everyone. This session will also show you how to exploit z/VSE security features like Encryption Facility for z/VSE and the new OpenSSL support.</p>
<p>z/VSE Release Migration and Installation Hints &amp; Tips</p>	<p>This session will give you an overview about the z/VSE release migration and installation process, including Fast Service Upgrade (FSU) overview, what is covered by FSU and how it works. We also discuss the differences of FSU versus initial installation and migration of current data. This session will also describe the new tapeless initial installation of z/VSE 5.2.</p>
<p>z/VSE Today and Future - a technical update</p>	<p>This session will provide technical details about the latest announcements and release content for the z/VSE operating system and its components with the focus on ease of use, security, networking, hardware exploitation and connectivity to Linux on System z or other non-z/VSE platforms.</p>
<p>What you can expect in a new CICS TS release for z/VSE</p>	<p>This session gives an update on the latest CICS TS for z/VSE announcements, the CICS Explorer as well as more details about the latest development.</p>
<p>Customer solutions with z/VSE Connectors</p>	<p>This session provides an introduction into the newest features of the z/VSE Connectors in z/VSE V5. It will focus on why and how customers take advantage of these Connectors in a virtualized z/VM environment integrated with Linux or a remote platform.</p>

The technology of an IBM MobileFirst virtualized environment in Linux accessing z/OS and z/VSE services	The session will give an overview of IBM MobileFirst technical possibilities, will analyze and highlight the challenges in z/VM and Linux and how to define a scalable environment on z systems, especially if designed to access System of Record services in z/VSE or z/OS.
How to decide for the best network for different workloads between z/VSE, z/VM, and Linux on z Systems	In this session, the different workloads in Linux and z/VSE running in a full or mixed virtual environment are analyzed and positioned for the best suited network.
Workshop (Lab) - Unlock your z/VSE data and applications for the mobile world	This workshop will cover the various options to enable existing z/VSE resources for Mobile. The possibilities using the z/VSE Connectors enable the access to applications from a distributed environment and the mobile world.
z13 Server Technology Update	The IBM z13 z Systems server was announced Jan 14, 2015. This talk will technically describe the characteristics of the z13 server, including server design, I/O subsystem enhancements, performance characteristics, and statements of direction. The z13 delivers a great many new features delivering on the promise of "Enterprise Linux".
IT Economics for IBM z Systems (z13)	The goal is to help customers avoid costly mistakes, and at the same time identify ways to lower their costs - providing them a business case from which they can make a financially-based IT decision.
Sizing IFLs for consolidation of distributed servers	This session will be in the form of a demonstration of two tools used for sizing IFLs for consolidation of distributed servers. These include the IBM SCON (Server Consolidation Tool) and SURF (Server Utilization Reduction Facility) tools.
z/VM Platform Update	This fast moving session will survey all the latest news on z/VM. The focus will be on z/VM 6.3 new support for the IBM z13 as well as some other enhancements made via service since the last VM Workshop.
z/VM CPU Pooling and ILMT Support	Support was added to z/VM 6.3 for a new capability known as CPU Pooling. This session will explain how to set up CPU Pooling and how it works.
Keys to the Virtual Kingdom	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.
How to be a Great z/VM System Programmer	This session could also be easily called "Don't be THAT z/VM System Programmer". Tim Reynolds, one of the lead z/VM CP Level 2 members will cover various topics that every system programmer should know.

z/VM Installation, Service and You - A Developer Dialogue	A lot has changed in the z/VM world of installation and service over the past few years. This session will provide a brief overview of the current installation and service options and philosophies (just to get the ball rolling) and then we will have a discussion with you.
z/VM Begins - How Your Configuration Controls what Happens at IPL	We look at what happens when z/VM starts, and how your set up points the system down various paths. We walk through a z/VM system set up by a standard install, pointing out key configuration selections, their effects, and how to change them."
z/VM Paging with SSD and Flash-type Disks	This session will give some background on z/VM paging, a review of device options, and then look at real data from some work in this areas. Included will be discussion of how paging characteristics change under different workloads and circumstances.
How do you spell SMT on z Systems?	This session will explore what SMT is from a hardware perspective and how we implemented it in z/VM. We'll discover the new and changed commands and configuration statements, so you know how to implement it in your shop.
A look at z/VM Performance with SMT	In this session we will take a closer look at z/VM workloads running in an SMT environment. We will also show you how to generate the metrics on your own. This session is intended to help you understand SMT performance.
Oracle on Linux on System z with z13 Update -- Why this is one of the Best and Fastest Growing Linux on z Solutions Available	Hear the latest information for Oracle Database running on Linux on IBM System z and z13, including recent User Experiences.
IBM zAware anomaly detection for Linux on System z	<p>The detailed topic include:</p> <ul style="list-style-type: none"> <li>- What is IBM zAware, and what can it detect?</li> <li>- How can it help identify problems on my Linux on z systems?</li> <li>- How can it help diagnose problems on my Linux on z systems?</li> <li>- Using the IBM zAware GUI</li> </ul>
Migrating live Linux and z/VM systems to new DASD	This presentation will describe in detail the process of migrating Linux (SYSTEM) and z/VM (CP-owned) volumes to new storage controllers, all while the systems remain up. In addition, new tools for interfacing between z/VM and z/OS will be described and made available.
VM Workshop Lab Preparation Session	If you plan to take part in any of the lab sessions at VM Workshop, please drop by this session to make sure you have the prereqs for the labs available and that your laptop or other device works with the lab setup. This session will provide expert assistance with testing your device with the lab environment and helping you get familiar with it BEFORE the lab sessions.

<p>Why we all Need to Use a z/VM Architecture</p>	<p>This presentation focuses on the benefits of user a z/VM architecture to ensure smooth operation and migrations of z/VM and Linux systems. Technical hints and tips on upgrading within a version or upping a version of z/VM. Tools for the heavy lifting of the directory, file migration, RACF considerations, piping, and networking are shown along with a discussion of how long it takes and how to have seamless IPLs from the HMC.</p>
<p>How I Learned to Cope with FCP and Why You Should Too...and Learn to Love it</p>	<p>Having been immersed in an intense FCP-only z/VM and Linux shop for months taught me to love and respect FCP. I will share the techniques I used to build EDEVs for opsys data and dedicated FCPs for Linux payload. Truth be told I am thinking that FCP is the future for all of us. Forget round and brown and spins around 3390s.</p>
<p>Making Your Life Easier with DirMaint</p>	<p>This session will provide an overview of the z/VM Directory Management Facility, better known as DirMaint. Topics will include installation and configuration as well as working with the DirMaint commands to update the user directory. We will finish up with information on integrating DirMaint with RACF and a look at how DirMaint works in an SSI system cluster.</p>
<p>Backup Strategies for z/VM and Linux on z Systems</p>	<p>This session focuses on strategies for backing up and restoring data and disks for z/VM and Linux on z Systems. It 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.</p>
<p>Customer Experiences Managing the z/VM and Linux on z Systems Infrastructure</p>	<p>This session focuses 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.</p>
<p>Are There Free Tools to Use on My z/VM system?</p>	<p>We hear all the time about the open source model and the "free" software available for a Linux system. Are there free tools available for my z/VM system? The answer is "yes" and this session tells you about some of them and where you can get them.</p>
<p>CMS Shared File System Usage and Administration</p>	<p>This session will describe how to configure and use the Shared File System, how space is managed and backup/recovery. Additionally, the Byte File System is discussed.</p>
<p>Lessons Learned from Installing z/VM 6.3</p>	<p>Will talk about how we went about installing z/VM 6.3, the roadblocks we came upon along the way, and how we overcame those roadblocks.</p>
<p>Binghamton University Research Projects</p>	<p>This presentation will provide an overview of ES2 and a more detailed discussion of the research being done at Binghamton University.</p>

REXX Language Coding Techniques	<p>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.</p>
High Availability and Clustering File Systems for Linux on z Systems	<p>In this session a review of a few of these technologies will be undertaken:</p> <ol style="list-style-type: none"> <li>1. High Availability using pacemaker and corosync</li> <li>2. GFS2 - a native file system that interfaces directly with the Linux kernel file system interface (VFS layer). When implemented as a cluster file system, GFS2 employs distributed metadata and multiple journals.</li> <li>3. glusterFS - an open source, distributed file system capable of scaling to several petabytes (actually, 72 brontobytes!) and handling thousands of clients. GlusterFS clusters together storage building blocks over Infiniband RDMA or TCP/IP interconnect, aggregating disk and memory resources and managing data in a single global namespace.</li> <li>4. DRBD - a mechanism to provide network-based RAID1 that is designed as a building block to form high availability (HA) clusters</li> </ol>
Leveraging System z for Business Analytics	<p>Presentation / discussion of how System z provides the entire ecosystem for support of Business Analytics for the enterprise, along with leveraging zVM and Linux on z to provide a complete solution.</p>
How Fast is your Mainframe	<p>This presentation will look at optimizing your configuration and utilizing processor cache statistics for validating the benefit of your configuration changes.</p>
A simple Cloud solution	<p>ZPRO Version 2 is a full re-write. With a focus on the user interface, self-service environments, and working hard to keep the old time sysprog interested in new interfaces. ZPRO has been a pet project for almost 10 years, and mistakes were made. And hear the highlander story as well (There can be only one).</p>

<p>Monitoring Best Practices for z/VM and Linux</p>	<p>This presentation looks at monitoring the z/VM and Linux environment from two distinct angles. First, the top list of performance monitoring best practices documented by Endicott Labs for z/VM and Linux are introduced and the concept of the best practice is reviewed. Next a look at sample metrics from a performance tool will be reviewed to see what attributes help monitor the system to meet these best practices. Attendees will be introduced to several top best practices from the z/VM system as well as the Linux virtual machines. Second, in addition to reviewing the attributes, features of performance tools and the need to implement them (as a best practice) and why will be discussed helping attendees better position themselves for monitoring and managing this unique virtual environment. This presentation shows how OMEGAMON XE on z/VM and Linux can be implemented and configured to monitor for these best practices, yet attendees using other vendor software should easily be able to implement similar functions, features, and use attributes with their tools to meet the same best practices introduced.</p>
<p>z/VM 6.3 SSI Installation or Migration or Upgrade Hands-on Lab</p>	<p>This session is intended for both beginners in z/VM and those who may have familiarity with z/VM but need a refresher. In this lab you will actually install the latest level of z/VM into a two node Single System Image (SSI) cluster (i.e. create two z/VM systems joined together in a single system image).</p>
<p>Linux for z Systems Installation Hands-on-Lab</p>	<p>This Hands-On Lab will provide an opportunity to install and configure 'Linux on z Systems' in a z/VM virtual machine. The hands-on portion of this workshop will be self paced, and result in a 'Linux on z Systems' guest system running Apache, Samba, DNS (BIND), a firewall and the KDE desktop.</p>
<p>z/VM and Linux administration in a no-root login environment</p>	<p>Many organizations do not allow SSH access to Linux as root. The Linux sudo facility and SSH key-based authentication can be used by system administrators who still need root access. As the number of z/VM and Linux systems increases, configuring sudo and SSH results in more work. This presentation will first suggest a model then show a reference implementation for automating the SSH key configuration, and minimizing the need for sudo.</p>
<p>The basics of building RPMs for Red Hat Linux:</p>	<p>This presentation will focus on the design of RPM and SRPM packages for the Red Hat package manager as well as the basic workflow of going from a c++ program to the output SRPM or RPM file. This will include basic edits to the .spec files for changelog updates and patches. Building your own RPMs and SRPMs will allow the end user to easily install your package under a Red Hat based environment.</p>

SUSE Update for System z	<p>The latest SUSE Linux Enterprise Server for System z - version 12 - has a number of compelling features. Updates have been made to filesystems, High Availability, System z specific hardware enablement, and included previews like KVM. Find out how you can benefit from deploying the latest SLES on System z. This session will include a demonstration, and allow time for your feedback.</p>
Advanced Linux on z Systems Management with IBM Wave for z/VM	<p>We'll discuss/demonstrate how IBM Wave for z/VM provides an intuitive GUI creating a single point of control for management, monitoring, and provisioning of z/VM and Linux on System z virtualized resources. IBM Wave enables the graphical visualization of servers, storage, and network; the understanding of system resources status with Intelligent icons; and the provisioning, cloning, and activation of virtual resources, as well as live guest relocation, all accomplished in just a few clicks. It also permits the management of the entire Enterprise and its multiple z/VM guests across LPARs and CECs. Using the Enterprise Viewer and IBM Wave functions such as Projects and Grouping, one can cross manage multiple instances by custom attributes</p>
Pentagon Federal Credit Unions IT evolution with z Systems	<p>Pentagon Federal Credit Union (PenFed) ran a traditional mainframe HOGAN banking system that evolved into SOA and expanded into a .NET supporting infrastructure during the client server boom. With security and support for rapid growth concerns rising, executives made a strategic decision to embrace Linux on s Systems and their journey to cloud computing has begun. The first application put into production "Mobile", has been implemented with zero downtime to date due to proper planning and executive level dedication to the project. This session provides the history with methodology's used by PenFed to achieve a successful System Modernization Program using today's z Systems.</p>