

VM Workshop 2020 - Session Abstracts

Title	Synopsis	Presenter
Configuring SSL a User Experience	<p>There have been MANY presentations over the years at SHARE, at the VM Workshop and at User Groups about how to setup SSL servers including the ultimate authority Chapter 16. of the TCP/IP Planning & Customization manual.</p> <p>Attend this session for an overview of z/VM's SSL, material 'Borrowed' from other presentations, my discussions with friends from Endicott (I hope they still are), material posted on the IBMVM list. And find out who was finally able to help me.</p> <p>Most Important though is HOW-TO create a certificate request AND send it to your company's Security team to sign and HOW-TO find your company's Trusted Primary and Intermediate Certificates.</p>	The Earl of Tabasco
zPRO V4 - High Octane On-prem Private Cloud for Linux on Z	<p>There are three big problems we are all facing: management decisions to move everything to "the cloud" and off Z, finding people with z/VM skills to keep existing Linux farms going, and very few (one!) reliable and easy products to manage your Z cloud. zPRO Version 4 is ready to help solve these problems and more. In this session hear stories about actual customers utilizing zPRO for their cloud that not only freed up precious time, but also helped Linux on z/VM flourish. zPRO from Velocity Software has been developed by, and for system admins and end- users alike to enable them to build and manage Linux on Z servers quickly and easily. You will hear how fast you can install and set up zPRO and how it can be used on any z/VM system, with or without a directory or security manager and how you can "plug it in" to other virtual server management systems with our RESTful APIs. Plus, with zPRO Version 4, you only need to be logged on to one system to manage ALL your enterprise z/VM systems running Linux servers.</p>	James Vincent
Monitoring z/VSE with zVPS	<p>With the introduction of SNMP for z/VSE some time ago, Velocity Software has been able to monitor z/VSE systems with our performance suite that runs on z/VM. We are improving and enhancing that capability to add TCP/IP monitoring and CICS monitoring. Come to this session to hear what we are doing and to see our live systems via a demo. You will also be able to follow along either in the session or post-workshop to show interested parties in your company.</p>	Rich Smrcina
IBM LinuxONE Hardware and Technology Update	<p>IBM continues to churn out new hardware products and technologies and capabilities supporting the evolution of Linux in the "enterprise" space. This talk will start with the latest "Z core", and from there build and overview the technology stack and latest capabilities instilled therein to run Linux-based systems in differentiated fashion for security and scale and resilience required by "enterprise" users.</p>	Monte Bauman
Backup Strategies for z/VM and Linux	<p>As the Linux on IBM Z environment continues to grow, the need for software and solutions to manage this environment also grows. In this session, the speaker will focus on the various approaches customers use to back up and restore data and disks for z/VM and Linux IBM Z, including the advantages and disadvantages of each method. It will include a live demo of one method, including automation. If time allows, the presentation will also include considerations for a z/VM SSI cluster.</p>	Tracy Dean

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Operational Monitoring and Automation of Multiple z/VM LPARs with Linux Guests	As the Linux on IBM Z environment continues to grow, the need for 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) taking actions on other LPARs based on events on one LPAR, (2) automatically take action based on messages on z/VM service machines, on Linux guest consoles, and in Linux syslog data (3) view and interact with live consoles, for both monitoring and debugging purposes (4) monitor and manage spool space (5) send alerts to a central alerting system, such as IBM Netcool/OMNIbus or other systems that accept SNMP traps (6) send e-mails based on console messages, spool usage, etc. (7) automatically archive logging data when a disk approaches full. If you're a beginner or intermediate REXX programmer who wants further insight on better REXX programming techniques, this session is for you! In Part 1, we'll review available REXX products and related products--both free and priced, an introduction to functions vs instructions vs procedures, variable visibility, and parsing. Attend Part 2 for more topics.	Tracy Dean
REXX Language Coding Techniques - Part 1	If you're a beginner or intermediate REXX programmer who wants further insight on better REXX programming techniques, this session is for you! In Part 2, we'll review compound variables vs. data stack, troubleshooting, and programming styles for REXX.	Tracy Dean
REXX Language Coding Techniques - Part 2	Whether implementing cloud or supporting server consolidation projects, customers are implementing mission critical applications on Linux on IBM Z and LinuxONE. In this session, the speaker will focus on real customer problems and associated solutions with managing this new infrastructure, including monitoring messages, monitoring spool space, sending alerts, feeding data to analytics platforms, automatically fixing a problem, and backing up and recovering critical data. Missing industry-standard Infrastructure-as-a-Service capabilities automating throughout compute, storage, and network is one of the biggest inhibitors for clients to integrate IBM Z / LinuxONE into their cloud environments. With the new IBM Cloud Infrastructure Center software offering for IBM Z / LinuxONE we provide a consistent, industry-standard user experience to define, instantiate and manage the life-cycle of z/VM based virtual infrastructure, and integrate with higher-level Platform-as-a-Service software such as IBM Cloud Automation Manager and VMware vRealize Automation. Join this session to learn more about the new offering and how it can help you and your company's journey to cloud. Get inspired and learn how to use IBM Cloud Infrastructure Center to manage hosts and virtual machines on Linux on IBM Z & LinuxONE. The session illustrates how to operate in support of PaaS layer solutions and Cloud automation / orchestration solutions. We will guide you step by step through key tasks and show how to add a compute node and manage virtual machines, easily and simplified in support of Cloud-type operations.	Tracy Dean
Customer Experiences Managing z/VM and Linux		Tracy Dean
The journey of Virtual Infrastructure using IaaS tooling simplified for IBM Z and LinuxONE		Stev Glodowski
Start your cloud journey on Linux on IBM Z & LinuxONE with IBM Cloud Infrastructure Center		Stev Glodowski

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VSE to z/OS Conversion Project	<p>From late 2015 to 2018 America First Credit Union undertook an ambitious project to convert our core business system environment, including a home-grown CICS/Batch application from VSE to z/OS.</p> <p>In this session I'll cover my experience with this project, some of the gotchas and hangups we encountered along the way and a feel for how such a process goes when you're servicing tens of millions of transactions on a daily basis.</p>	Gerard Howells
Re-thinking DataPrep on the z-Architecture	<p>The field of 'DataPrep' has been rapidly growing recently, driven by two major factors: large and growing data volumes, and the de-coupling of data from legacy integrated systems into object-stores and data-lakes. Legacy systems (such as EDWs from Teradata, IBM, Oracle-EMC) incorporated both data and the processing engine (SQL). This has been disaggregated with the rise of public and private clouds, where data storage is separate from the processing platform. Object-stores and data-lakes are now being filled with data from disparate legacy systems as well newer, online data sources. This has created a demand for data-preparation tools that can access, transform, cleanse and integrate these data sources. At small scales, many such tools exist in the market. Large scales require large computation capacity and therefore require a re-thinking towards distributed computing for scalability.</p> <p>The very survival of your business may depend upon how quickly you can react to and recover from an unplanned outage such as disk failure or entire site failure. Are your critical business applications protected from the many unplanned and planned outages that can contribute to application and data unavailability? Do you put off system maintenance and upgrades to avoid system downtime? This session will first overview how GDPS, IBM's multi-site application availability solution, integrates key availability technologies such as z/VM and remote copy technologies (Metro Mirror, Global Mirror, Global Copy, FlashCopy) with automation to enhance application availability and improve DR for z/OS, z/VM and Linux on z. Then this session will dive into daily operations of managing z/VM and Linux guests across sites.</p>	Ravi Chandran
GDPS + z/VM = Multi-site Resiliency for Linux guests	<p>With the spotlight more and more on securing your data at rest and in flight, the IBM z14/z15 with Crypto Express provides the highest cryptographic security available commercially.</p> <p>The presentation will cover how to configure the crypto cards on the Hardware Management Console/Support Element, under z/VM and on the Linux guests to enable SSL/TLS offload processing when using encrypted communications under Linux.</p> <p>There will be a demo to show the IFL savings that can be achieved when using the Crypto Express Cards.</p>	Steven Cook
Linux on Z and Crypto Express Cards	<p>In the journey to digitalization, Container technologies are playing a crucial role. In Linux on IBM Z and LinuxONE, in a Secure Service Container and inside z/OS you can now take advantage of Container technologies and enable new workloads, integrate easier in DevOps and easier handle high dynamic workloads and deployment flexibility. The session also outlines the diversity of the Container Ecosystem on IBM Z.</p>	Andy Hartman
Discover the variety of Container technologies available on IBM Z including zCX		Wilhelm Mild

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Red Hat OpenShift on IBM Z - the kid on the block is flying	With Red Hat OpenShift on IBM Z, you have now the possibility to orchestrate entire clusters on Linux on IBM Z & LinuxONE and build your DevOps pipeline and life cycle management much easier and effective. The session will show the technical details of an OpenShift environment on Linux on IBM Z.	Wilhelm Mild
Where to place your workloads in an IBM Z environment	Different workloads can profit from their placement. LPAR, SSC, Hypervisor or Containers - IBM Z has architectural advantages. Where you want to place your workloads and how you can profit of IBM Z architecture will be outlined in the technical characteristics of the different options.	Wilhelm Mild
IBM LinuxONE and System Z Server Technology Update	IBM continues technology and IBM Z server innovation. Come to this session to hear the latest news on the hardware front. What has IBM done to make the world's best Enterprise Server even better in 2020?	John McLemore