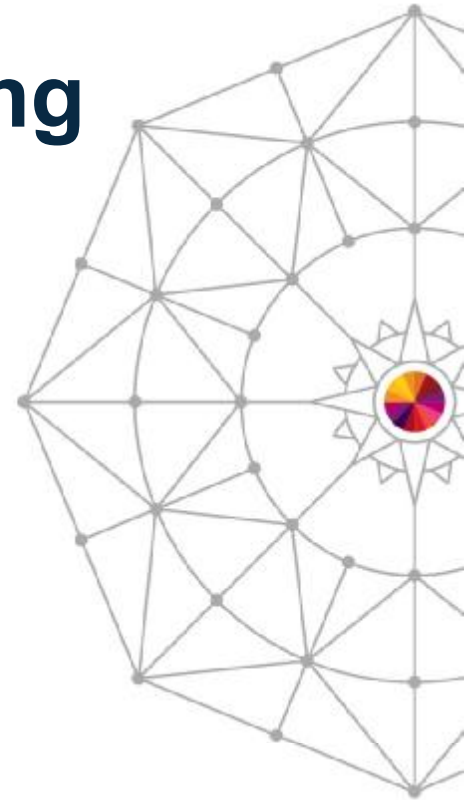# Linux and VM Program Opening

Rick Barlow - Nationwide Insurance

Steffen Thoss, Bill Bitner, Richard Lewis - IBM

August 4, 2014

Session 15535

Welcome to SHARE in Pittsburgh and to the Linux and VM Program

Rick Barlow

Nationwide Insurance

#SHAREorg

SHARE in Pittsburgh 2014

Agenda

- Introduction to the Linux and VM Program
  - What is LVM?
  - Information
    - SHARE – "It's what we do"
    - LVM organization - what are the projects and brief description
    - LVM team; IBM reps & Special guests
  - How to Connect - Look for bears and penguins
  - This week…
    - Highlights and Grid
    - Program Dinner announcement
- Evaluations
- Surveys
  - Endicott VM Lab survey
  - The survey of hardware and software versions

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

Welcome to SHARE
"It's what we do!"

- A volunteer run organization.

- Dedicated to providing top-tier education on IBM and related technologies

- Networking with peers, sharing information and experience

- Industry influence – direct contact with IBM, vendors

- Trade Show – SHARE Technology Exchange (STE) – the latest in commercial offerings

Linux and VM Program (LVM)

More information:

http://tinyurl.com/SHARE-LVM-info

- Dedicated to supporting and promoting the two best operating systems in the known universe
- Provide quality education on both environments, plus the power of combining them.
- Forum for expressing concerns, problems, opinions on future of Linux, VM and System z.
- Find support and help from fellow system programmers and system administrators.

Understanding the "Program"

- SHARE programs consist of "projects" dedicated to specific subjects or issues
- LVM Program has three projects plus the TSC:
  - Linux Project
  - VM Project
  - Virtualization Project
  - Linux and VM Technical Steering Committee

LVM TSC

- <u>T</u>echnical <u>S</u>teering <u>C</u>ommittee
- Small group representing SHARE LVM community
- Membership by individual, not company
- Works year round with IBM under CDA
  - Face-to-face meetings at SHARE Conferences
- Reviews, understands, and assesses certain IBM directions related to Linux and Virtualization
- Provides early feedback and guidance to IBM

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

Special Recognitions

- The Order of the Knights of VM
  - The VM Community has a unique way of honoring individuals who have made a notable contribution to our favorite operating system – VM
    - New inductees each 5 years
    - http://www2.marist.edu/~mvmua/knights.html

- Remembrance and honor
  - Rich Greenberg
    - Active in the formative years of VM at SHARE – 70s, 80s, 90s
    - Started the tradition of staking out a "VM table" at SCIDS
    - Lately - frequent contributor to IBMVM and other lists

Its all about the Volunteers!

All of our Speakers and
Session Chairpersons!

- Project Managers:
  - Linux: Mark Post (SUSE)
  - VM: Dan Martin (Rocket Software)
  - TSC Chair: Marcy Cortes (Wells Fargo Bank)
- Deputies:
  - Neale Ferguson (SineNomine Associates)
  - Openings available
- Scheduler:
  - Rich Smrcina (Velocity Software)
- Chair Wrangler:
  - Brian Jagos (Computer Associates)
- Program Dinner Host:
  - Jim Moling (Dept. of Treasury)

Couldn't do this without them….

- IBM Representatives:
  - Richard Lewis
  - Alan Altmark
  - Bill Bitner
  - Jim Elliott
  - John Franciscovich
  - Romney White

- Special Guests
  - Steffen Thoss
    System z Linux and Virtualization Product Development Team leader
  - George Madl
    Product Development Manager for z/VM and Related Products

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

Product Development Team leader

- Steffen Thoss

Linux on IBM System z in 2Q2014

Installed Linux MIPS at 49% CAGR*

- 26.5% of Total installed MIPS run Linux as of 2Q14

- Installed IFL MIPS increased 15% from 2Q13 to 2Q14

- 39% of System z Customers have IFL's installed as of 1Q14

- 79 of the top 100 System z Customers are running Linux on the mainframe as of 2Q14 **

- 34% of all System z servers have IFLs
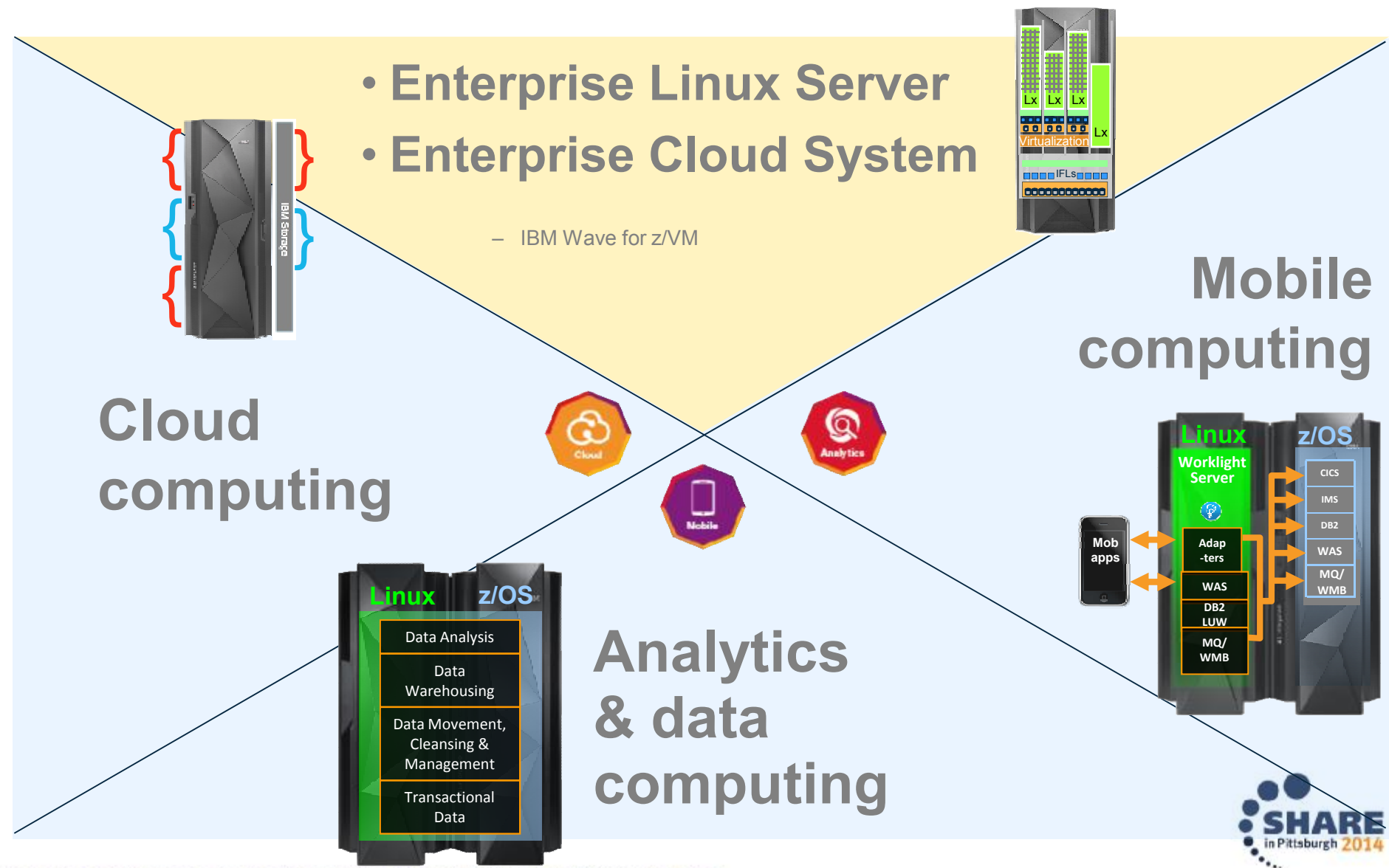
Installed Capacity Over Time
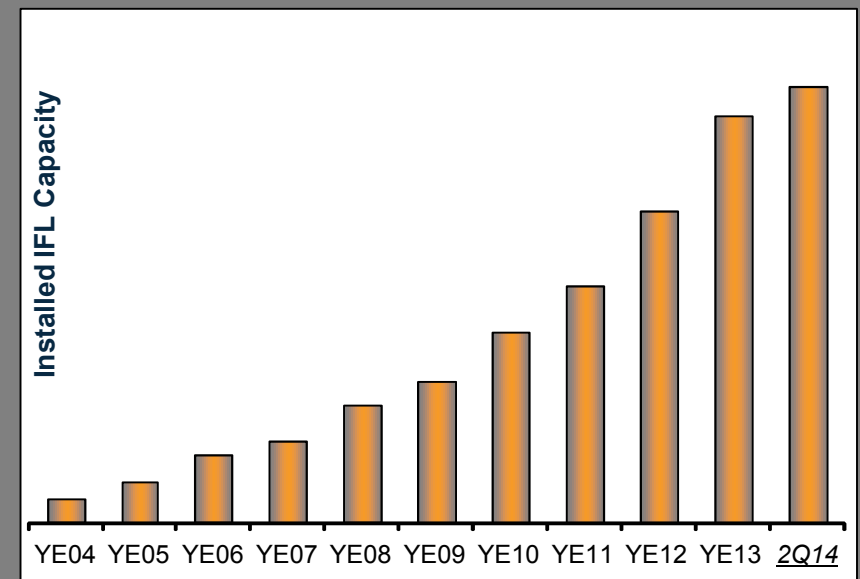
- 56% of new FIE/FIC System z Accounts run Linux (FY10-1Q14)

* Based on YE 2003 to YE 2013   **Top 100 is based on total installed MIPS

"Infrastructure matters"

- **Enterprise Linux Server**
- **Enterprise Cloud System**

  – IBM Wave for z/VM

Mobile computing

Cloud computing

Analytics & data computing

Lx Lx Lx
Lx
Virtualization
IFLs

Linux
z/OS
Worklight Server
CICS
IMS
DB2
WAS
MQ/WMB
Mob apps
Adap-ters
WAS
DB2 LUW
MQ/WMB

Linux
z/OS
Data Analysis
Data Warehousing
Data Movement, Cleansing & Management
Transactional Data

IBM Storage

Cloud
Analytics
Mobile

SHARE
in Pittsburgh 2014

Client Cases

Dundee City Council
Enterprise Linux Server

Lx Lx Lx

Lx

Virtualization

IFLs

Banca Carige
Mobile computing

Linux

z/OS

Worklight Server

Mob apps

Adap -ters

WAS

DB2 LUW

MQ/ WMB

CICS

IMS

DB2

WAS

MQ/ WMB

Vissensa
Cloud computing

Cloud

Analytics

Mobile

White Cube
Analytics computing

Business Anylytics

Data wareh.

Data transfor-mation

Business System / OTLP

Virtualization Management

Hardware resources

IBM Storage

SHARE
in Pittsburgh 2014

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

IBM Enterprise Linux Server
Data enter simplicity inside one box

- IBM zEnterprise® server including
  - Memory
  - I/O
  - Maintenance
- IBM Wave for z/VM
- IBM z/VM plus z/VM features:
  - z/VM Directory Maintenance Facility
  - z/VM Resource Access Control Facility
  - z/VM Performance Toolkit for VM™
  - z/VM RSCS Feature
  - z/VM Single System Image
- Support & subscription for all software
- Utility Pricing
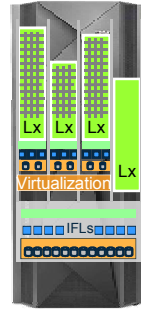
IBM Solution Edition for Enterprise Linux
Attractive pricing for additional Linux workload deployment

IBM Enterprise Cloud System
Trusted Cloud. Simply Delivered.

- IBM zEnterprise® server including
  - Memory, I/O, Maintenance
- IBM DS8870 or Storwize® V7000
- IBM Wave for z/VM
- IBM z/VM plus z/VM features:
  - z/VM Directory Maintenance Facility
  - z/VM Resource Access Control Facility
  - z/VM Performance Toolkit for VM™
  - z/VM Single System Image
- Cloud Management Suite:
  - OMEGAMON® XE on z/VM and Linux
  - Tivoli Storage Manager
  - SmartCloud Orchestrator
- Operations Manager for z/VM
- Backup and Restore Manager for z/VM
- Production Ready in Hours
  - Integrated - Delivered in 30-45 Days
- Utility Pricing
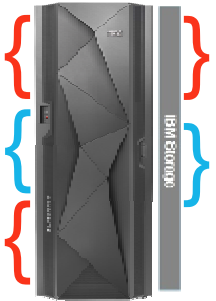
Elastic Storage for Linux on System z
GPFS

16294: User Experiences Running Cluster File Systems on Linux on System z
Thursday: 10:00 AM-11:00 AM
Room 304
Robert (Jay) Brenneman

Steffen Thoss
System z Linux and Virtualization PDT lead
steffen.thoss@de.ibm.com

Highlights for LVM in Anaheim

- Interact with IBM leadership   (Convention Center 318)
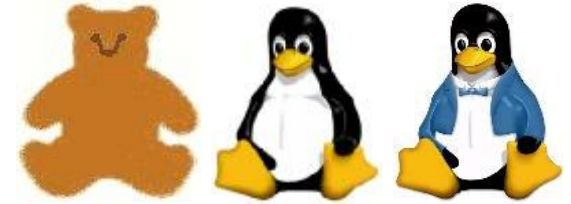   - 15851: z/VM Product Dialogue & Feedback   Wednesday 11:15

- Direct, "hands-on" experience
    - Traditional labs   (Convention Center 301)
        - 15485: Linux for Beginners Hands-on Lab (3 parts)   Monday 10:00
        - 15731: Hands-on Lab: Automation and Backup/Recovery   Tuesday 10:00
        Scenarios for z/VM and Linux on System z Using IBM Solutions
        - 15488: z/VM Installation *or* Migration *or* Upgrade   Tuesday 1:30
        Migration Hands-on Lab (3 Parts)
    - "BYOC" labs   (Convention Center 317)
        - 15735: Introduction to REXX Workshop (2 Parts) (BYOC)   Tuesday 10:00
            - *For "BYOC" – make sure you have a TN3270 emulator installed and fully charge your laptop*

Highlights for LVM in Anaheim

- Customer experience sessions – What's happening at your site?
  - SICOOB – several sessions on Tuesday
  - Customer panels:
    - z/VM Single System Image and Live Guest Relocation Panel Discussion   Wed at 10:00 in 304
    - Experiences With Oracle on Linux on System z – Customer Panel   Thu at 8:30 in 304
    - Experiences With Linux and System z – Customer Panel   Thu at 11:15 in 304

- "Grids" – All of the LVM sessions and some other session of interest
  - **http://tinyurl.com/SHARE123lvm**
  - Cards available with QR code

Complete your session evaluations online at www.SHARE.org/Pittsburgh-Eval

How to Connect

- Many ways to connect
  - Look for the Bears and Penguins

  - SHARE Linux and VM Program web page
    http://www.share.org/p/cm/ld/fid=44
  - SHARE Linux and VM Program community
    http://www.share.org/p/co/ly/gid=1832
    - Requires member login

Linux and VM Program Dinner
Eat, Drink and Be Merry

- Wednesday 7:00 at *Luke Wholey's Wild Alaskan Grille* We will gather in a lobby for the trip (Dutch treat)

- Have dinner; unwind; meet other Linux and VM people

- See Jim Moling if you didn't already sign up

Evaluations are Important!
Tell us how we are doing…

- LVM planners really use information from evaluations to determine what to offer
  - Which sessions are in demand?
  - Which are not?
  - What is missing?

- SHARE uses evaluations to determine best session awards. All speakers are volunteers, so this is recognition is important.

- Evaluate sessions:
  - **www.SHARE.org/Pittsburgh-Eval**
  - **Online and via smart device**

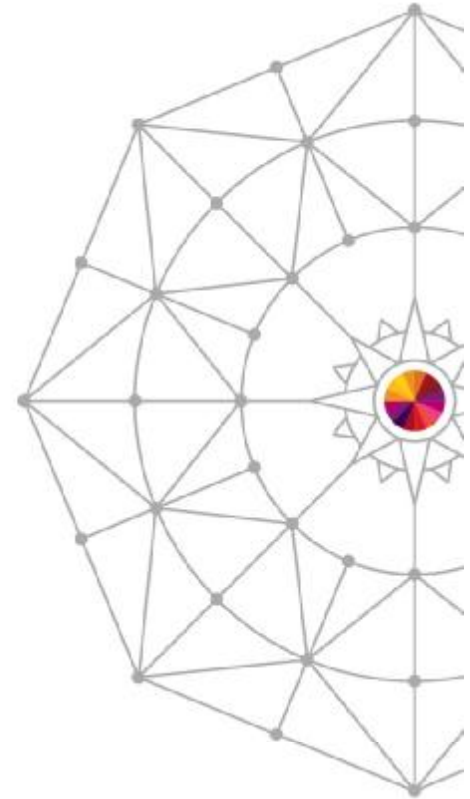# The Endicott Survey

William Bitner - IBM
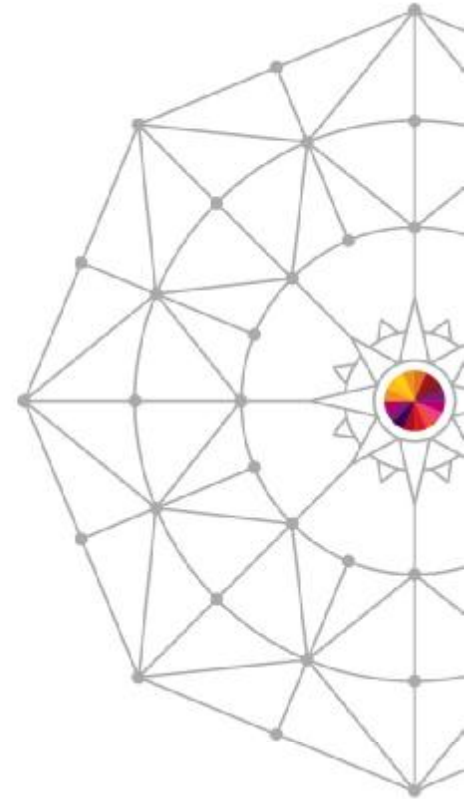
The Survey!

Richard Lewis - IBM

Official Statistician and Triviaologist

PENGUIN ARMY

#SHAREorg

Have a great week!