



VM Workshop 2020

Opening

Online around the World

Dianne Griffin, VM Workshop Chairperson



Welcome

“If you can’t come to the VM Workshop,
then the VM Workshop will come to you.”

- Over 250 people registered
- From 17 Countries
- Over 100 Companies
- Hardware, Linux, z/VSE, and z/VM Content
- 23 Technical Sessions
- 8 Sponsor Updates



VM Workshop

Since 1977*

- Grassroots, non-profit organization
- Professional Volunteers and Proud Sponsors
- Committed to the sustainability of:
 - z/VM
 - Linux on IBM Z and LinuxONE
 - z/VSE
- Cost effective, efficient, fully functional
- Networking, education, and fun

* Except 1999 through 2010



Your 2020 VM Workshop Committee

Bill Bitner

Gerard Howells

Marianne Eggett

Bill Munson

Glen Doogle

Mike Riggs

Brian Hugenbruch

Gonzalo Muelas Serrano

Mike Giglio

Brian Jagos

Jim Moling

Neale Ferguson

Chip Davis

Kate Stringfield

Phil Tully

Chuck Morse

Len Diegel

Rich Smrcina

Dave Jones

Len Santalucia

Wilhelm Mild

Dianne Griffin

Marc Smith



**The VM Workshop
is possible because of the
support of our
Sponsors**

<http://www.vmworkshop.org/2020spon.shtml>



Update Session: Tuesday 12:00 EDT



Update Session: Tuesday 12:30 EDT



Update Session: Tuesday 14:00 EDT



Update Session: Tuesday 14:30 EDT



Update Session: Tuesday 15:00 EDT



Update Session: Wednesday 12:00 EDT



Update Session: Wednesday 12:30 EDT



Update Session: Thursday 12:00 EDT



CODENOTARY

CodeNotary, provided by vChain Incorporated
Update Session: Thursday 12:30 EDT





Last Year

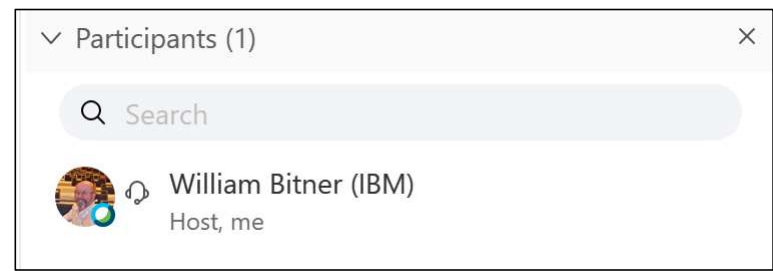


**No Food or Drink
in the Session Rooms**

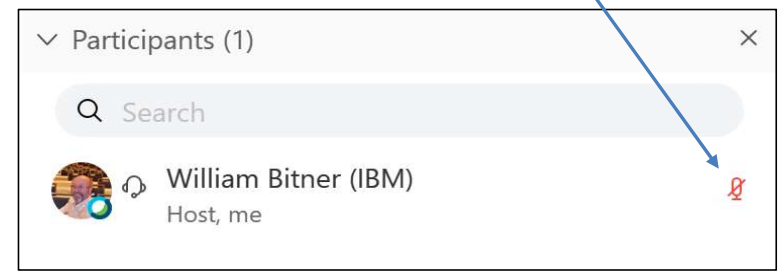


This Year

Mute is off.



Mute is on.

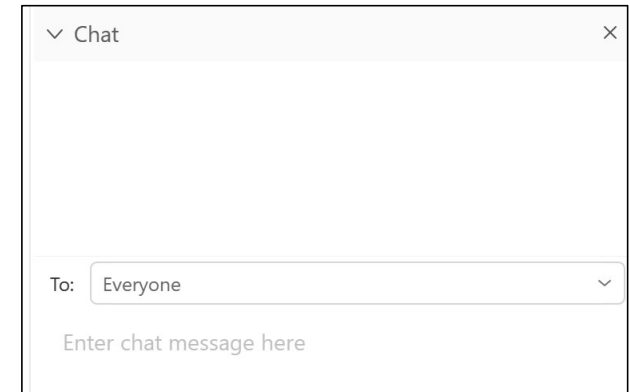
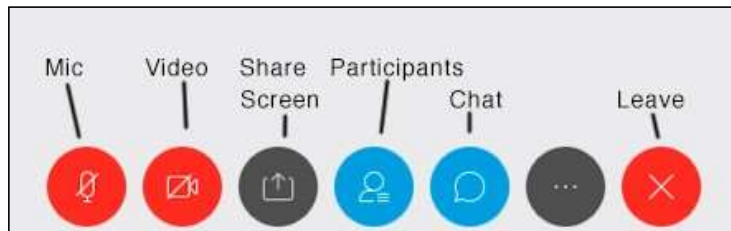


Eat whatever you want, but please stay on mute if not asking a question.



Interact

- Webex Chat function – hover mouse near bottom of screen
 - Participants Icon – clicking brings up the list of participants
 - Chat Icon – clicking brings up window for chatting
 - Chat to “Everyone” or to individuals
 - Ask questions, chat during breaks, make a friend





See you face to face in 2021!



See you next year, June 10th to 12th

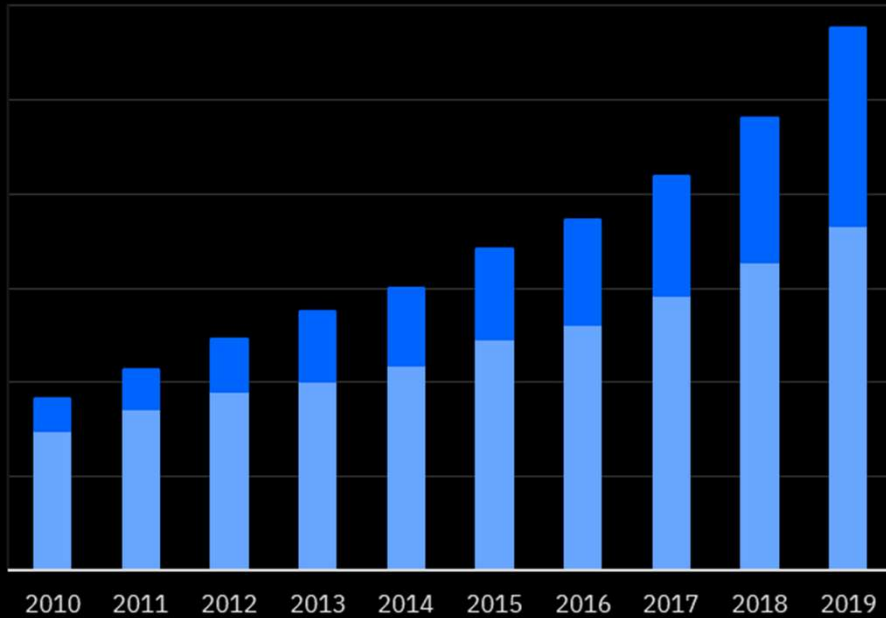
IBM Z and LinuxONE III

VM Workshop
June 2020

Kara Todd
Director of Linux, IBM Z and LinuxONE
@karamtodd
karam@us.ibm.com



Clients driving momentum on the platform



Workload as measured by installed Million Instructions Per Second (MIPS)

Daily

30 billion
transactions

400 million
retail
transactions

1 million
hotel nights

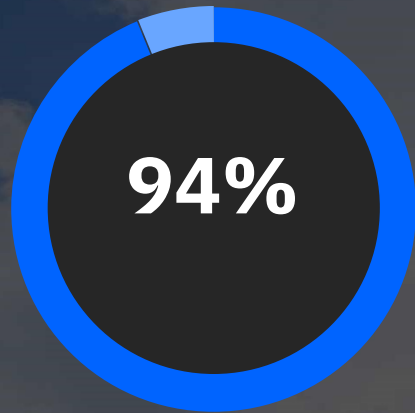
Annually

29 billion
ATM
transactions

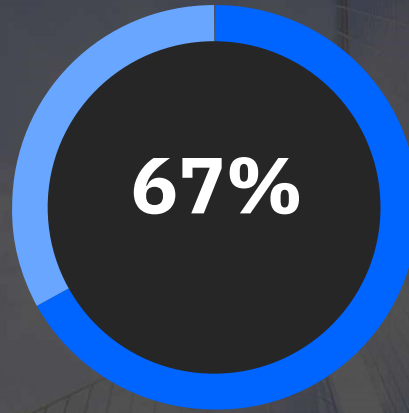
87% of all
credit card
transactions

68% of
IT production
workloads, yet
6% of IT
costs

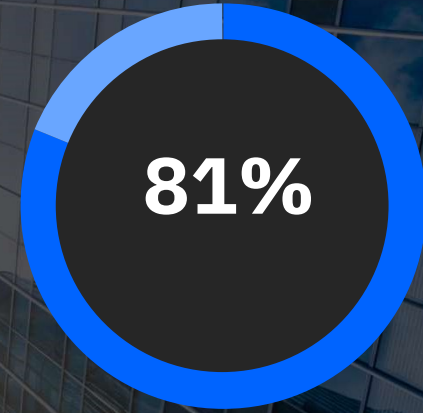
Today we live in a hybrid, multicloud reality



Share of enterprise customers using multiple clouds



Share of enterprise customers using more than one public cloud provider



Use a combination of private and public clouds

Progression from Chapter 1 to 2

Chapter 1

Consumer-driven innovation

Digital/AI experimentation

“User applications” driving cloud
(20% of workloads)

Public cloud

Chapter 2

Enterprise-driven innovation

Digital/AI embedded in the business
and at scale

“Mission critical” workloads
driving cloud
(80% of workloads)

Hybrid cloud
*Public + Private + Traditional
Open and multicloud*

z/VM virtualization for IBM Z and LinuxONE

Infrastructure Simplification

- Consolidate distributed, discrete servers and their networks
- IBM Mainframe qualities of service
- Exploit built-in z/VM system management

Speed to Market

- Deploy servers, networks, and solutions **fast**
- React quickly to challenges and opportunities
- Allocate server capacity when needed

Technology Exploitation

- Linux with z/VM offers more function than Linux alone
- Linux exploits unique z/VM technology features
- Build innovative on demand solutions
- Provide the hypervisor layer for OpenShift on Z



Hybrid multicloud strategy with IBM Z



Built on platform that provides ...

Flexibility and Confidence

- 100% service level compliance
- Superior reliability, scalability and security

Protected Future

- 100% of data protection everywhere
- Privacy with policy

PRIVATE

HYBRID MULTICLOUD PLATFORM

PUBLIC



Self-Service
Multi-language
Automation
Collaboration
Enterprise Grade

Standards-based
Web-scale
Open Source
Multi-tenant
Secure

Build Once

Deploy Anywhere

- Optimize IT to accelerate Digital Transformation
- Modernize applications to increase agility
- Build cloud native to accelerate innovation
- Unleash Data and AI for competitive advantage

Optimize and manage technology transformation securely with velocity

A next generation platform for hybrid multicloud

Business Requirements

World-class public cloud
IaaS & advanced services on IBM's public cloud

Hybrid multicloud platform
Consistent stack and management for multicloud

Business Outcomes

Build with the latest tech on any cloud

Expertise

Advise on cloud | Build for cloud | Move to cloud | Manage on cloud

Innovate faster with greater agility

Improve visibility & control across hybrid, multicloud

Advanced Services

AI | **Hyper Protect** | IoT | **Blockchain** | Analytics | ML | Quantum

Create more insights from data

Ensure app & data portability with no lock in

Capabilities

Application | Data | Integration | Automation | Management | Security

Improve ROI and competitive edge

Optimize on the best fit cloud model and vendor

Foundation

Common Services | RHEL | RH OpenShift | Multi-cluster Management

Infrastructure



IBM Public Cloud



AWS



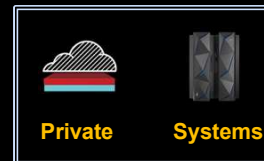
Azure



Google



Edge



Private

Systems

OpenShift on Z: Thank you to our Sponsor Users

75 ↑

Clients interested in OpenShift on IBM Linux on Z / LinuxONE

12 ↑

PoCs in Progress

17 ↑

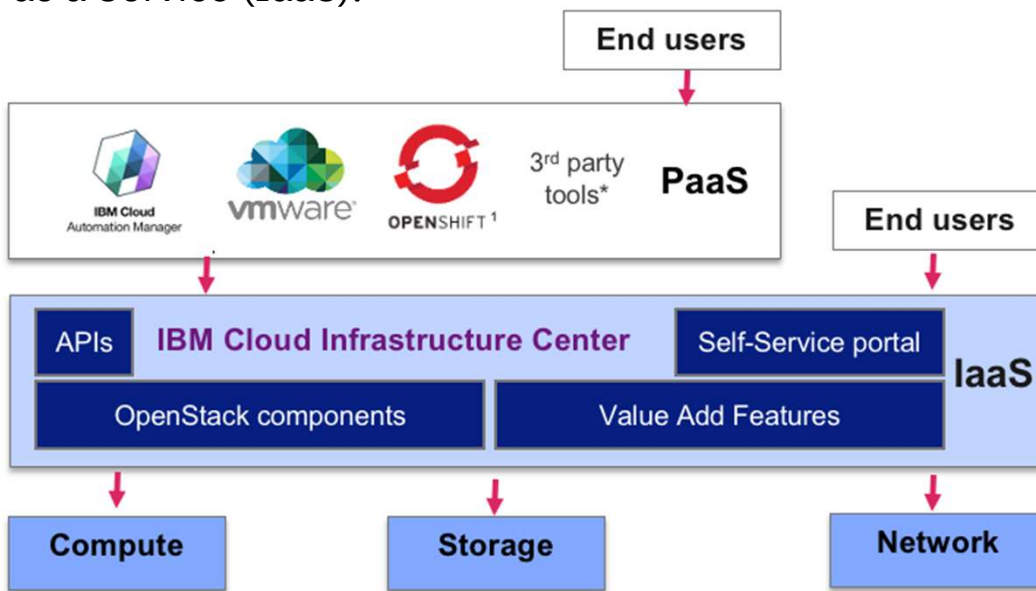
PoCs in Planning Phase

IBM Cloud Infrastructure Center

A new IBM Z and LinuxONE on-premises software offering



Empower how you deploy and manage Infrastructure as a Service (IaaS).



Infrastructure Mgmt

Automation

Cloud Integration

MVP capabilities:

- Consistent, industry-standard user experience to manage the lifecycle of virtual infrastructure
- Multi-tenancy support
- Provisioning of virtual infrastructure to be consumed by OpenShift
- Self-service capabilities with no specific platform skills required by the end user

IBM LinuxONE III™

The cloud you want — with the privacy and security you need



Encryption everywhere

protects you and your ecosystem



Cloud native development

simplifies life for your developers



High availability & reliability

Improves business resilience while reduces complexity



Ready for cloud datacenters

Modular, scalable and proven cloud-ready infrastructure



Thank You