LEARNING TO LOVE LINUX AND Z/VM

V2.1 RSU 2201

Gerard Howells Chief Client Architect **kyndryl**

MY BACKGROUND









2002

Helpdesk

- Password Monkey™
- pOwErPoiNt
- Heavy monitors
- Floppy disks
- Introduced to Linux

2005

Sysadmin

- SCO Unix (shudder)
- AIX (RS6000)
- Informix
- Physical Tape
- Driving a lot
- Kernel panics
- Impact printers
- Lots of Bash

2007

Forensics

- Encase
- File systems
- Lots of Hex
- Progress bars
- Regular Expression
- Court Appearances
- Evidence Bags
- Misanthropy

2013

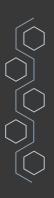
The Mainframe



kyndryl

2021

Architecture



Distributed Systems

Kyndry_M

IPO

11/04/221

88,000+

Employees

LARGEST

IT Serveices Company

LINUX AND Z/VM AT KYNDRYL

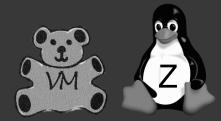
- Experience
- Product knowledge
- A holistic perspective
- Independence ² Platform agnosticism



ZLINUX
LINUX ON Z
LINUX ON Z SYSTEMS
LINUX ON SYSTEM Z
LINUXZ?

WHAT IZ IT??

I mean, it's just Linux right? Well yeah, but also, kinda.





What do you mean virtualization has been around since 1967?



There's seriously no way you can run that many virtual machines on one piece of hardware.

WAIT, WHAT?



RAS

All those nines after the decimal are just marketing jive, right?



WHY IS IT A SECRET?

Well, it's not, but it might as well be. The academic initiative is key.

PARLEZ VOUS MAINFRAME?



Getting Familiar



- Beginning to see differences
- But it was still comfortable
- □ Still had Bash, grep, awk, sed
- Started recognizing power of Z
- Curiosity about VM was growing
- Symbiotic relationship of VM and Linux
- □ Becoming a padawan

OTHER Hypervisors



Z/VM

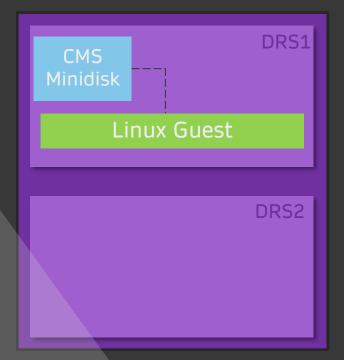
EMULATION ----- vs ----INSTANTIATION

ARCHITECTURAL BENEFITS

Primary Data Center

PDC1 Live Guest Relocation PDC2

Disaster Recovery Site



REXXCUSE ME?

Who is REXX and why is he all over the place in VM?
The real "eureka moment" was:

PIPES!



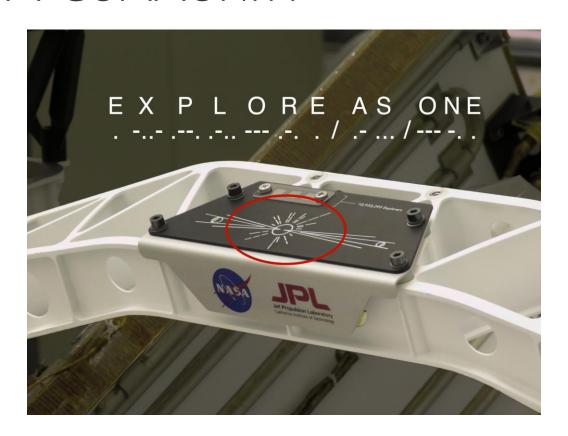


VM WORKSHOP 2022!

Registration open! June 16th – 18th Binghamton, NY

VMWORKSHOP.ORG

THE VM COMMUNITY



QUESTIONS?

Mockery and insults welcomed



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