







What's in a Name?



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Or maybe...

- Herding z Penguins
- Hording the Penguins
- Who's your Penguin?
- · Occupy the Penguins
- Spanking the Penguins
- Penguin Spring
- Angry Penguins
- Here Comes Penguin Boo Boo









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Nesting the Penguins

- System z Hardware
 - z/OS & z/VM support
 - · Linux support
- Networking
- Virtualization
 - z/VM Hypervisor
 - CPU
 - DASD
 - Memory



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Feeding the Penguins...

- SLES 11 Linux for System z
 - Build Template servers
 - Sized by application type
 - Six Gigabyte basic
 - Thirteen gigabyte Modest Application
 - Twenty-seven Gigabyte Larger Application
 - · Clone and grow
 - Six or 20 gigabyte increments





....Feeding the Penguins...

- Cloning
 - SERVER FILE list of servers and unique attributes
 - Copy virtual disks of template server to new] server
 - Configure with unique values name, IP addresses, etc
 - Provision a new virtual server in five to ten minutes



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...Feeding the Penguins DASD Cloning - Flash Copy Define Target disk Issue an OS command to copy one virtual disk to another Disk subsystem Bitmap Completes copy in background OS resumes next step





Protecting the Penguins

- Monitoring
 - z/VM Hypervisor
 - Linux Servers
- Alerts
- Storage Management
- Penguin Security









Alerts...

- We need to know when
 - Server is down
 - Server is looping
 - File system is almost full
 - System storage is almost full
 - System is too busy
 - Other bad stuff













Penguin Security

- z/VM Security
 - RACF for VM
 - Independent database

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- · Admin use only
- Logon to 3270 (green screen)
- Active Directory (AD)
 - Integrate Linux servers into existing AD environment

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- Group structure
 - Developer
 - Server Admin
 - System Admin





Working the Penguins...

- WebSphere Application Server (WAS)
 - Home grown applications
 - Vendor applications
- Provisioning
 - Environments / number of servers
 - Size depending upon application
 - Clone and Deploy servers
 - Install / verify / implement applications







...Penguin Jobs...

- WebSphere Process Server (WPS)
 - IBM application
 - Work Flow management
 - Now IBM BPM
- Learning experience
 - Install failure SLES Service Pack
 - Larger servers more virtual storage (and more...)
 - Numerous environments WPS cloning







Penguin Jobs...

- "Shelter Search"
 - WAS 6.1 application
 - Locally Developed
 - Insured / Agent search
 - Multiple environments
 - Previously multiple Wintel servers
 - Moved all environments to Linux 2010

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Hatching new Penguins

- More workload moving to Linux on z
 - WAS
 - New applications
 - Move from Intel
 - IBM recommendations other stuff
 - "Best Fit"
 - "Good Fit"









...New Penguin Jobs Common Services (CSA) SOA Enablement Home grown service bus WebSphere Registry WebSphere and Repository (WSRR) Customer Access WebSphere Enterprise eCommerce Service Bus (WESB) Prototype envirnomnet 42 SHARE Complete your sessions evaluation online at SH. anciscoEval •• in San Francisco



Best Fit Application Workloads*

- WebSphere **MQ Series**
- DB2 Connect
- · CICS Transaction Gateway, IMS Connect for Java
- WebSphere and JAVA applications development
- · WebSphere Application Server (WAS), Portal
- Domino
- Network Infrastructure: FTP, NFS, DNS etc..,
- · Applications requiring top end disaster recovery model
- Virtualization and Security Services
- InfoSphere/Cognos

*Bill Reeder – IBM Linux for System z Sales and Strategy	
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Good Fit Application Workloads*



- DB2 (LUW)
- Apache web serving
- SAMBA
- TIM/TAM (LDAP Services)
- TSM



*Bill Reeder – IBM Linux for System z Sales and Strategy





Actual Software Stack

- z/VM IBM
 - Virtualization
 - System management
 - RACF, DIRM, RSCS
- SLES SUSE
 - Linux servers
- zVPS Velocity
 - Monitor
 - Alerts

- IBM Tivoli Monitoring
 - Enterprise Framework
- Service Desk CA
 - Problem and Incident
 - Notification
 - FDR on z/OS
 - Backup, restore, recover

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Penguins Quality of Service Maturity

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- VM:Manager tools
 - Backup, Tape
 - Schedule, Operations
 - Move away from z/OS reliance
- TSM Backups
 - DB2 databases
 - IBM BPM



- SSI cluster
- Two production images
- App split across both
- Dev image / Test Image
- SUSE Manager
 - Centralize server configuration and maintenance







People - Processes - Tools











This is Real





