



Why you should focus on Linux on IBM z Systems with z13

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World's leading businesses run on the mainframe



92 of the top 100 worldwide banks



10 out of 10 of the world's largest insurers



23
of the top 25
US retailers



23
out of 25 of the world's largest airlines

Processing the world's transactions & data

30 billion

business transactions processed on the mainframe per day

91 percent

of surveyed CIOs said that new customer-facing applications are accessing the mainframe

80 percent

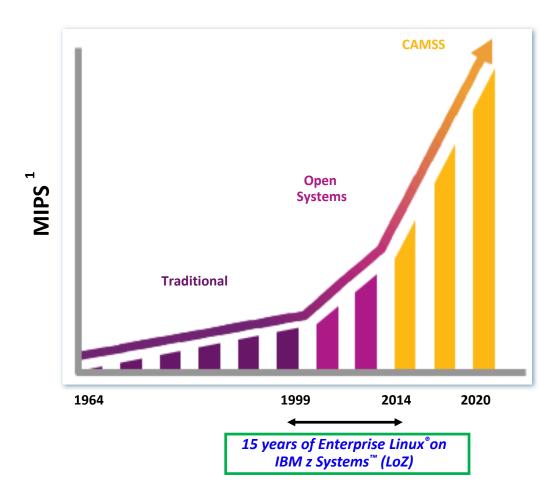
of the world's corporate data resides or originates on mainframes

55 percent

of all enterprise applications need the mainframe to complete transactions



New marketplace dynamics will drive hyper growth opportunity for the IBM Mainframe



- 1. MIPS: Millions of Instructions per Second or the metric z uses to measure client workload
- 2. CAMSS: Cloud, Analytics, Mobile, Social, Security

Traditional

1964-2014

- Batch
- General Ledger
- Transaction Systems
- Client Databases
- Accounts payable / receivable
- Inventory, CRM, ERP

Linux & Java

1999-2014

- Server Consolidation
- Oracle Consolidation
- Early Private Clouds
- Email
- Java®, Web & eCommerce

CAMSS²

2015-2020

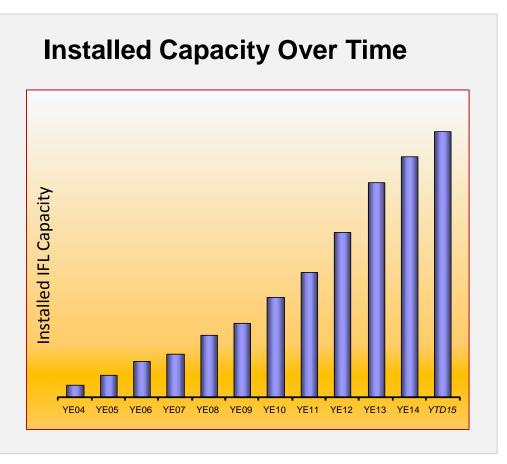
- On/Off Premise, Hybrid Cloud
- Big Data & Analytics
- Enterprise Mobile Apps
- Security solutions
- Open Source LoZ ecosystem enhancement



Linux on IBM z Systems in 2Q2015

Installed Linux MIPS at 45% CAGR*

- 26.7% of Total installed MIPS run Linux as of 2Q15
- Installed IFL MIPS increased by 16% YTY from 2Q14 to 2Q15
- 39% of System z Customers have IFL's installed as of 2Q15
- 79 of the top 100 System z
 Customers are running Linux
 on the mainframe as of 2Q15 **
- 35% of all z Systems servers have IFLs

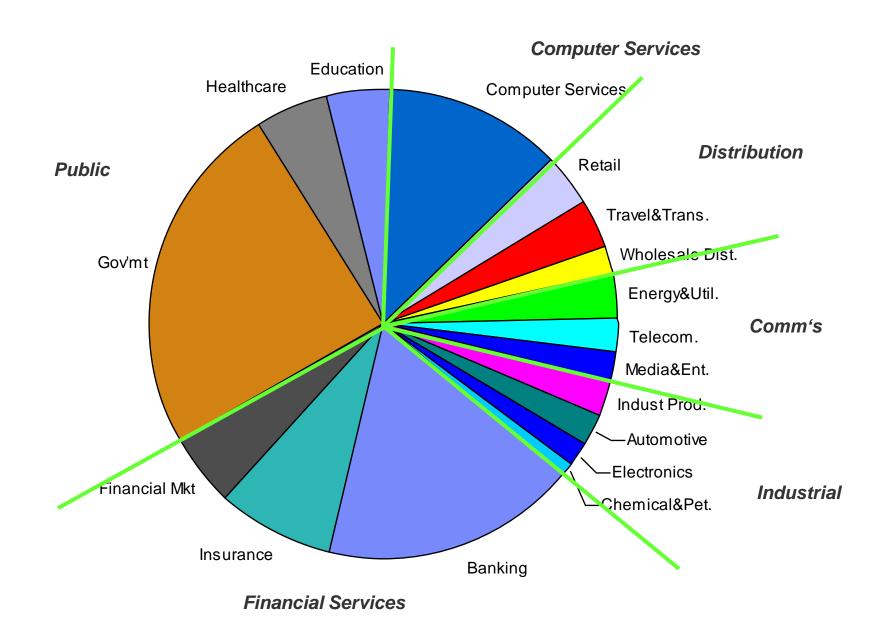


67% of new FIE/FIC z Systems accounts run Linux





Linux on z Systems omnipresent in Industry



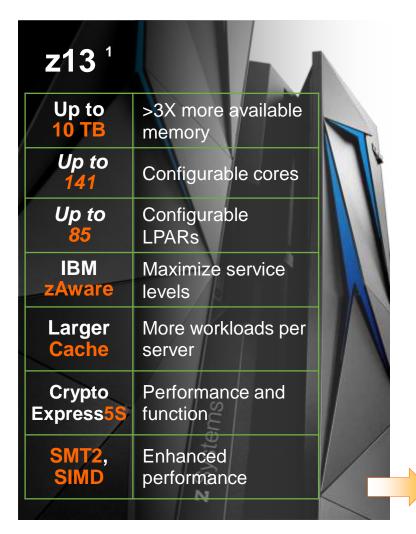
Linux on z Systems value proposition: Premier quality of service at lowest platform total cost



- **1.** IT economic advantage¹ with:
 - Lowest Linux platform TCO for selected workloads & environments
 - Greenest server allowing upgradeability & investment protection
- 2. Highly efficient scaling with industry-leading levels of resource sharing & utilization
 - Scale up -High server capacity with up to 141 cores running at 5 GHz
- 3. An open and standard environment, with support for key open source software & applications
- 4. Integrated SOE/SOR environment for business processes including cloud, analytics and mobile
- 5. Leadership levels of availability & disaster recovery, with non-disruptive growth of compute capacity
- 6. Leading security environment EAL5+ support with high-speed cryptography
- 7. Cloud ready with support for multi-tenancy, rapid provisioning, scaling on demand

IBM z13 and Linux

The enterprise grade Infrastructure stack for Linux solutions



Enterprise grade Linux solution:				
SOD: IBM GDPS® appliance	Continuous availability & Disaster recovery			
IBM Spectrum Scale (IBM GPFS technology)	Clustered file system			
SOD: KVM for z Systems	Open source virtualization			
IBM Infrastructure Suite	Management suite for z/VM and Linux			
IBM Wave for z/VM	Intuitive virtualization management			
IBM z/VM	Virtualization with efficiency at scale			
IBM z13	Unmatched server technology & capacity			

^{*} All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

¹ Total capacity improvement over zEC12 of 40+ percent

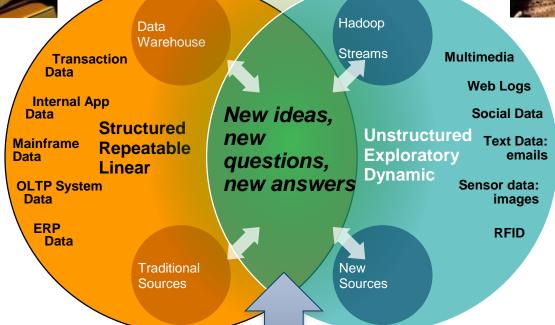
Imagine the possibility of leveraging all of your data assets



Traditional Technique Structured Analytical Logical Emerging Technique
Creative
Holistic thought
Intuition



"Here's a question, what's the answer?"



"Here's some data, are there correlations?"

<u>Transformational</u> benefit comes from integration of new data sources with traditional corporate data

Building an Infrastructure for real-time Analytics, Mobile and Cloud consider end-to-end solutions and operational impacts

Real-time "integration of analytics and transaction processing" increases customer value with every interaction

- Deliver real-time insights at the point of impact
- Manage data lifecycle and governance
- Eliminate redundancy and avoid ETL



IBM Software examples

- Cognos BI
- SPSS
- Query Management Facility
- DB2
- DB2 Analytics Accelerator
- InfoSphere® Warehouse
- InfoSphere Information Server
- InfoSphere Data Replication
- InfoSphere Master Data Mgmt
- DB2
- IMS, VSAM
- Non IBM, e.g. Oracle

"Cognos generates insightful reports and sophisticated dashboards, providing quick and accurate information to senior management. We are now adding more reporting functionality - on business revenue, credit data, loan risks, and so on - to make Cognos the complete decision-support system for Sicoob."

- Paulo Nassar,

IT Processing and Storage Infrastructure Manager, Sicoob

IBM Cognos Business Intelligence and additional analytics software is running on Linux on z Systems



High Availability scenario as Active/Passive with System z

Active / Passive Deployment.

- Workload normally contained at Site 1, standby server capability at Site 2
- Primary and secondary disk configurations active at both sites.

 During fail over, Capacity Upgrade on Demand (CUoD) adds resources to operational site, and standby servers are started. Helps save hardware and software costs, but

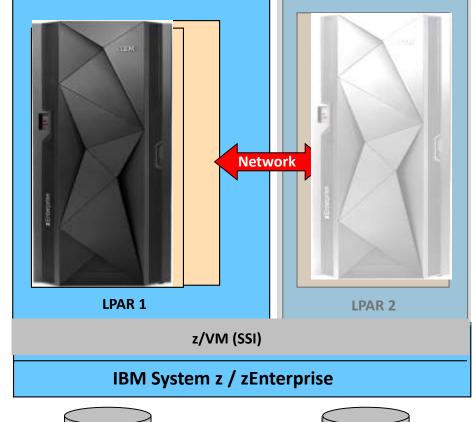
requires higher recovery time.

Hot / Cold scenario

- -Workload is not split.
- –Each site is configured to handle all operations
- Cold environment needs longer to get active – often used in DR

Hot / Warm scenario

- -Workload is not split
- -Each site is configured to handle all operations
- Warm environment is idling.





IBM

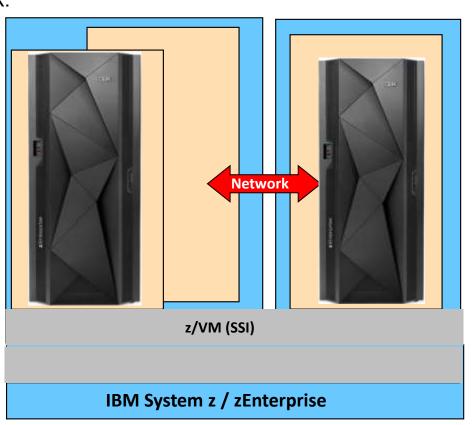
High Availability with an active/active environment on System z

Active / Active Deployment -Expendable work.

- Workload is normally split between 2 or more sites
- Each site is (over) configured to be able to instantly cover the workload if needed.
- During normal operation, excess capacity at each site is consumed by lower priority, work like development or test activities
- In a failover situation, low priority work is stopped to free up resources for the production site's incoming work.

Capacity Upgrade on Demand (Active / Active)

- -Workload is normally split between sites.
- –Each site is configured with capacity to handle normal operations–Special setup with
- Capacity Upgrade on Demand (CUoD).
- In a failover situation, additional CPUs are enabled at the operational site.



GDPS for Linux on z Systems:

New

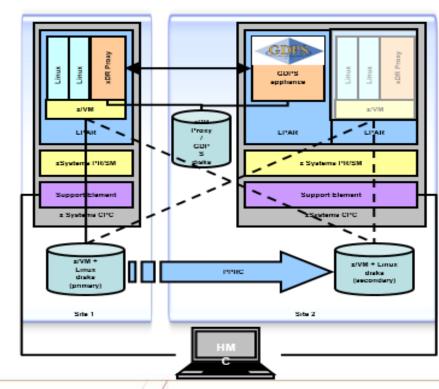
IBM GDPS appliance for Linux on z Systems

 The IBM GDPS appliance for Linux on z Systems will provide high availability in case of system, application or network failure

 In the first half of 2015, IBM intends to deliver a GDPS/Peer to Peer Remote Copy (GDPS/PPRC) multiplatform resiliency capability for customers who do not run the IBM z/OS operating system in

their environment.

- This solution is intended to provide IBM z Systems clients who run IBM z/VM and their associated guests, for instance, Linux on z Systems, with similar high availability and disaster recovery benefits to those who run on z/OS.
- The implementation of the new GDPS
 Appliance for Linux will offer business
 continuity for Linux-only environments.



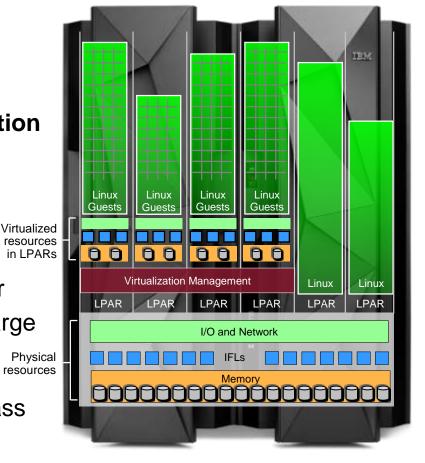


IBM Enterprise Linux Server (ELS) & IBM Enterprise Cloud Server (ECS)

Data center simplicity inside one box

An enterprise grade Linux infrastructure solution

- Proven Linux platform with:
 - Data center simplicity
 - Trusted operations
 - Unrivalled economics
- Allows to start small and grow inside the server
- Server and virtualization capabilities to run a large number of workloads
 - Highly efficient and economical
- Designed from the ground up for enterprise-class workloads
 - Unrivaled levels of qualities of service
 - Supports all kind of workload deployments
 - Enables cloud, analytics, mobile computing at an attractive price





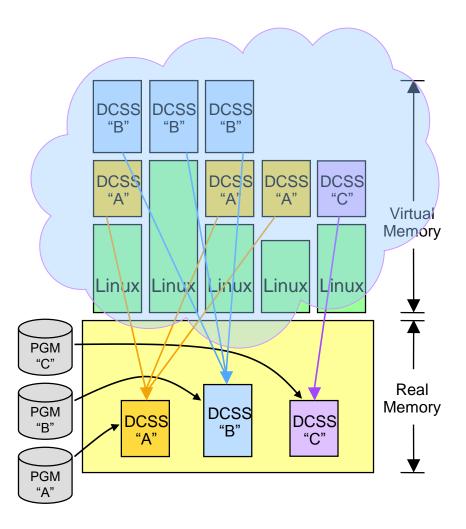


Effective Virtualization with Linux on z and z/VM shared memory

Linux Shared Memory Exploitation for many Virtual machines

z/VM Discontiguous Saved Segments (DCSS)

- DCSS support is Data-in-Memory technology
 - Share a single, real memory location among multiple virtual machines
 - Can reduce real memory utilization
- Use Cases:
 - As fast Swap device
 - For sharing read only data
 - For sharing code (e.g. program executables/libraries)
- The large DCSS allows the installation of a full middleware stack in the DCSS (e.g. WebSphere, DB2, etc)
- The DCSS becomes a consistent unit of one software level



IBM Cloud Manager with OpenStack for z Systems



Easy to deploy, simple to use Cloud Management Solution

Heterogeneous and integrated management support

- z Systems managing Power ® and x86 servers
- Central management across multiple hypervisors & domains
- All IBM server architectures & major hypervisors supported

Accelerated time to market with pattern support

- Chef-based patterns based on OpenStack® Heat pattern engine is now supported on z Systems
- Workload deployment based on patterns speeds delivery of new services

Hybrid Cloud support

Hybrid Clouds on and off premise options via SoftLayer support



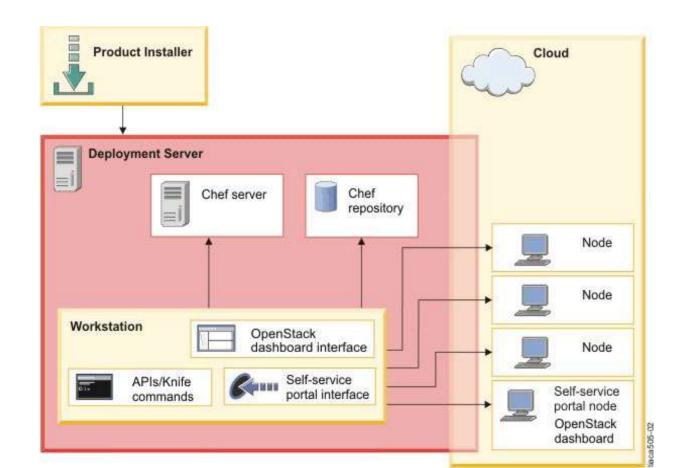






IBM Cloud Manager (ICM) with OpenStack 4.2

- Easy-to-use cloud management offering based on OpenStack and Chef
 - •Integrates Chef server/client for Linux on z; built-in HEAT engine works with Chef
 - http://www.ibm.com/developerworks/servicemanagement/cvm/sce/
 - •IBM value-add: simplification, robustness enhancements, and support



The Cloud Manager Appliance (CMA) – via z/VM 6.3 service



In order to provide an easy method to deploy an OpenStack controller or compute node with z/VM support and to provide an entry level IBM Cloud Manager with OpenStack for z Systems, the z/VM Cloud Manager Appliance (CMA) is provided.

CMA contains the following parts:

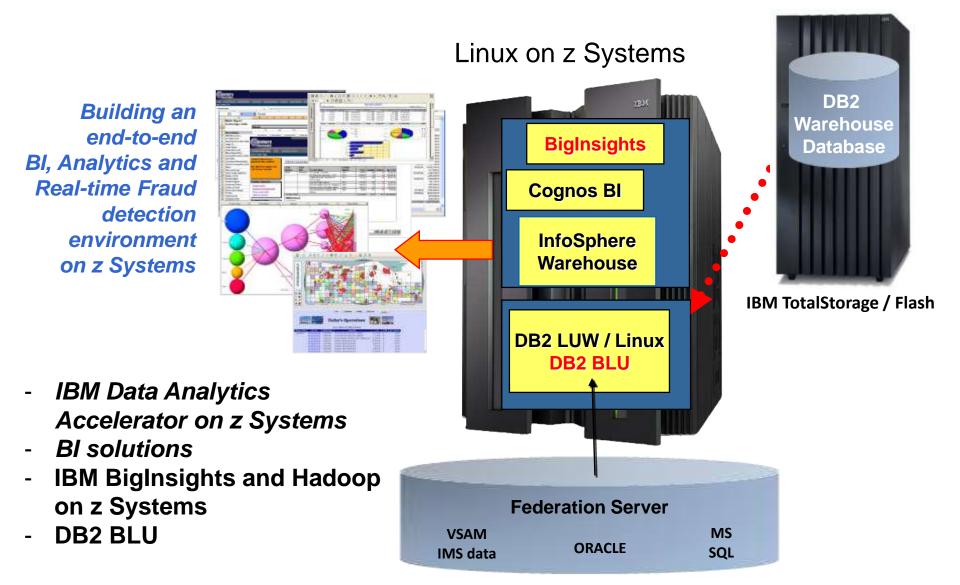
- Cloud Manager components
- OpenStack Enterprise Edition
- xCAT

z/VM 6.3 Support: VM65676: SUPPORT FOR Z/VM CLOUD MANAGER APPLIANCE 4.2.0.2





Data: From Database to Information Management



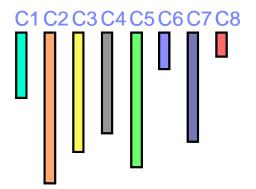
DB2 BLU Acceleration for Linux on z Systems

Super simple. Super Fast.



Columnar Everywhere

- Reduce I/O
- Increase data density in RAM
- Increase CPU efficiency

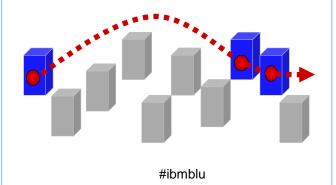


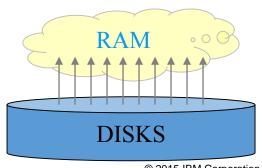
Skip Boring Data

- Queries skip uninteresting data
- Synopses on every column, automatically.
- "Data Skipping"

Rethink Memory

- Cache intelligently for analytics
- Predictive I/O with "Dynamic List Prefetching"
- Massive I/O reduction

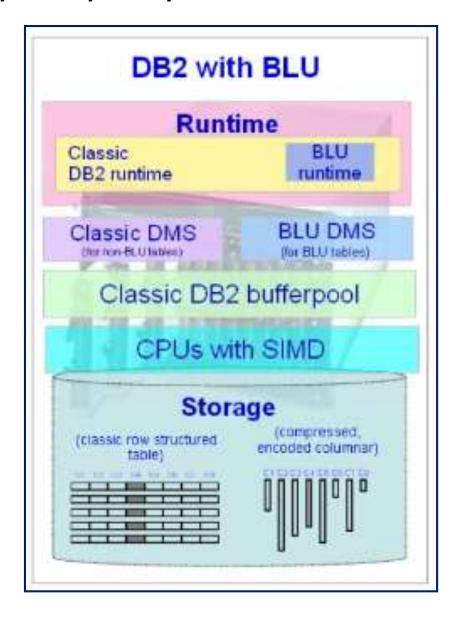




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DB2 w/ BLU Acceleration for Linux on z Systems Super Simple. Super Fast.





Solution

- DB2 with BLU Acceleration is the preferred solution for customers who would like to run analytics on z Systems Linux data
- Satisfy requirement for a columnar in-memory db
- Alternative of Linux on z
 Oracle installations
- Enhanced for distributed consolidations onto z Systems



Load-and-go simplicity

- LOAD and then... run queries
 - Significantly reduced or no need for ...
 - No indexes
 - No storage reclaim (it's automated)
 - No memory configuration
 - No process model configuration
 - No statistics collection (it's automated)
 - No MDC or MQTs
 - No Statistical views
 - No optimizer profiles/guidelines





"The BLU Acceleration technology has some obvious benefits: ... But it's when I think about all the things I don't have to do with BLU, it made me appreciate the technology even more: no tuning, no partitioning, no indexes, no aggregates."

-Andrew Juarez, Lead SAP Basis and DBA

BLU Acceleration runs Oracle Code

DB₂

Native support

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Data Studio

- Oracle compatibility with BLU Acceleration
- Built in PL/SQL compiler

Oracle Database

Built-in packages

SQL*Plus Scripts

Online schema changes

SQL

OCI

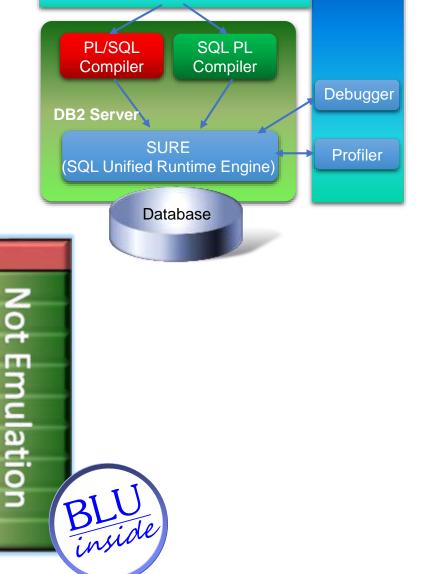
JDBC

PL/SQL

Packages

Concurrency Control

Source level debugging and profiling



Editor

Business Analytics Solutions on zEnterprise

Business analytics capabilities



Cognos – Business Intelligence



Business outcomes/benefits

- Understand current & potential state
- Monitor results & fine-tune your business
- Inform strategy with a view into the future



SPSS – Predictive Analytics



- Predict customer segment & category affinity
- Market Basket Analysis to identify NBO
- Overlay browsing history onto purchase history to profile customers



TM1 – Performance Management



- Reporting, analysis, operational & financial planning and consolidation
- Product profitability across customers, business & channels
- Sales Performance Management to improve efficiency in incentive compensation process



BigInsights – Investigative Analytics



- Gain additional insights from LOGs, social media, streams, machine data, mass archives
- Understand and visualize the context of data in unstructured documents, LOGs and understand customer sentiment

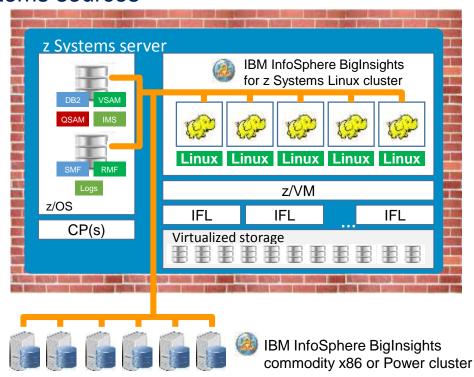
Hadoop: IBM InfoSphere BigInsights for Linux on z Systems New ways of thinking, transformative economics

Apache™ Hadoop® is an open source software project that enables distributed processing of large data sets across different clusters

- Leverage the power of Hadoop on z Systems
- Drag-and-drop extracts from z Systems sources
- Protect sensitive data
- Faster application delivery
- Seamless interoperability

IBM InfoSphere® System z Connector for Hadoop

Fast and seamless data connectivity between a variety of mainframe data sources and IBM InfoSphere BigInsights



Enrich data-driven applications with social media data





- Data professionals can now incorporate Twitter's rich data streams into analytic
 applications using <u>IBM BigInsights for Hadoop on Cloud</u>. BigInsights has social
 media tooling built-in, allowing you to import data in motion from the <u>Twitter</u>
 <u>Decahose</u>, and gather, analyze and visualize data from multiple sources.
- Soon, data professionals will be able to integrate Twitter data into IBM DataWorks, a cloud-based data refinery service. And entrepreneurs and developers will be able to bring compelling new insights to applications using Watson Developer Cloud and IBM Bluemix platform-as-a-service.

http://www.ibm.com/big-data/us/en/big-data-and-analytics/ibmandtwitter.html



Integration: Web Application Hosting and SOA Integration - IIB



- IIB IBM Integration Bus business information to flow between disparate applications across multiple hardware and software platforms.
- Ability to consolidate many Linux and WebSphere Application Server (WAS) instances to a single server footprint
- Better disaster recovery capabilities since all artifacts grouped
- Ability to shared WAS binaries across multiple Linux instances hosted by z/VM virtualization
- Ability to create new instances of WAS very quickly

Traxpay - Germany

- Traxpay looked to redesign the B2B payment process to offer an innovative financial transactions platform, enabled 24/7
- Banking connections are implemented in Java using WebSphere Application Server. Highly secure point-to-point communication links are established with IBM WebSphere MQ
- ELS and WebSphere allows to deliver the utmost in online performance, reliability, and security for our customers

Bank of Tokyo-Mitsubishi UFJ (BTMU) - Japan

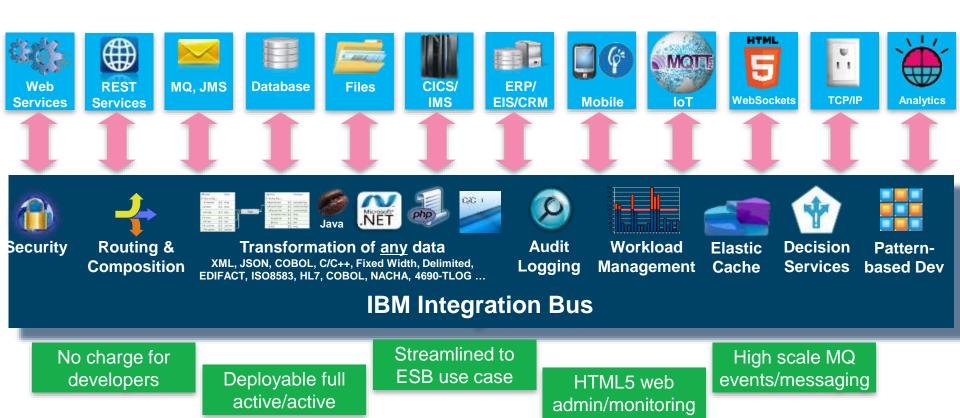
- BTMU developed a Service Oriented Architecture (SOA) platform to realize this "cloud-banking" concept
- It does "not only enables service linkage on Linux and other systems, but also scalability"
- SOA platform, leveraging WebSphere Message Broker, has accelerated the ability to build services in response to business issues
- 18% increase of re-utilization rate of services*

* as of March 2012

Benefits from the IBM Integration Bus (IIB)



- Flexible integration with Cloud, Analytics and Mobile
- Stanbdard Interfaces,
- Intelligent transformation and routing



Open technologies with IBM Integration Bus (IIB)



- Removal of MQ as a Pre-req First class support for MQ, but no long a must have
- New IIB initiative to develop integration components as open source
 - Part of continuing tradition of IIB supporting open standards
 - Source freely available on popular Github website under flexible Eclipse Public License
 - Community contributions (including modifications) actively encouraged!
 - Fully supported technologies delivered into IIB as appropriate
- Varied initial contributions targeting transferrable, embeddable assets
 - MQTT Client connectors
 - . Easy-to-use inbound and output connectors to MQTT servers
 - Uses open framework for platform-independent connectors
 - DFDL Schemas for popular industry formats
 - E.g. HL7, ISO8583, IBM4690-TLOG, NACHA, PCAP, EDIFACT
 - Chef cookbooks for simplified IIB provisioning
 - Customizable scripts allows building of complete IIB environments
 - Tools for easier conversion between integration products
 - Initially targeting WESB to IIB
 - Source for common integration patterns (e.g. event filter)



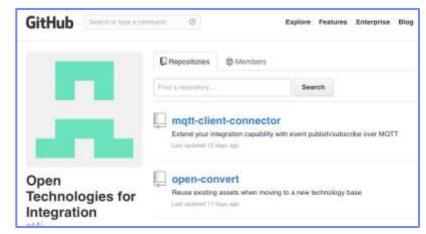






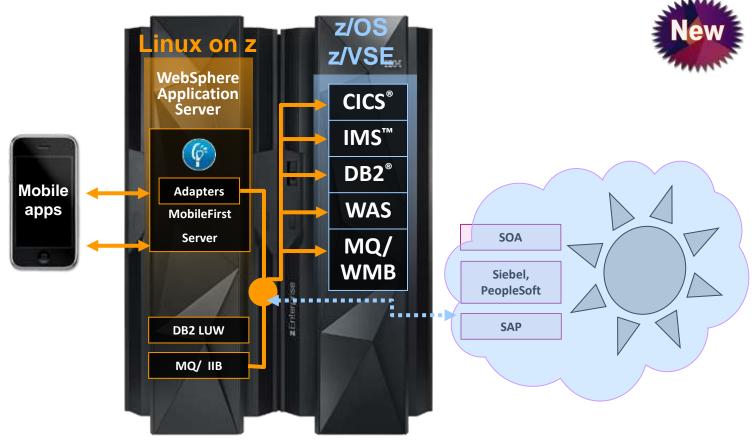






The MobileFirst hub on IBM z13 connecting to Core Systems





IBM zEnterprise®

- Server side software components and adapters for channeling z Systems to mobile devices with IBM MobileFirst Server V7
- Mobile application support with WebSphere Application Server on z Systems
- Mobile protocol connectivity with cloud, SOA, SAP and core z Systems applications including CICS, IMS, TPF, MQ, IIB and DB2

The ultimate JavaScript environment: Node.js



Node.js and Linux on z Systems

High Performance

- Highly scalable, event-driven platform with nonblocking I/O
- Thousands of concurrent connections with minimal overhead
- Unified JavaScript ecosystem for client and server
- Up to 29% better performance over Intel on AcmeAir*
- One of the fastest growing eco-systems

z Systems Connectivity

 Co-locate Node.js applications for reduced latency accessing z/OS data/services

Security and Dependability

 Leverages the trusted environments of z Systems to maximize security and uptime of critical Node.js applications.

Unified Diagnostics and Monitoring with IBM SDKs for Java®

 Compatible with latest Joyent Node.js v0.10.* releases

Core Strength

- Node is FAST and highly concurrent
- Node is built for I/O
- Node is perfect for APIs
- Node powers full-stack JS

Integration with JSON APIs

IBM SDK for Node.js Version 1.1 for Linux on z Systems

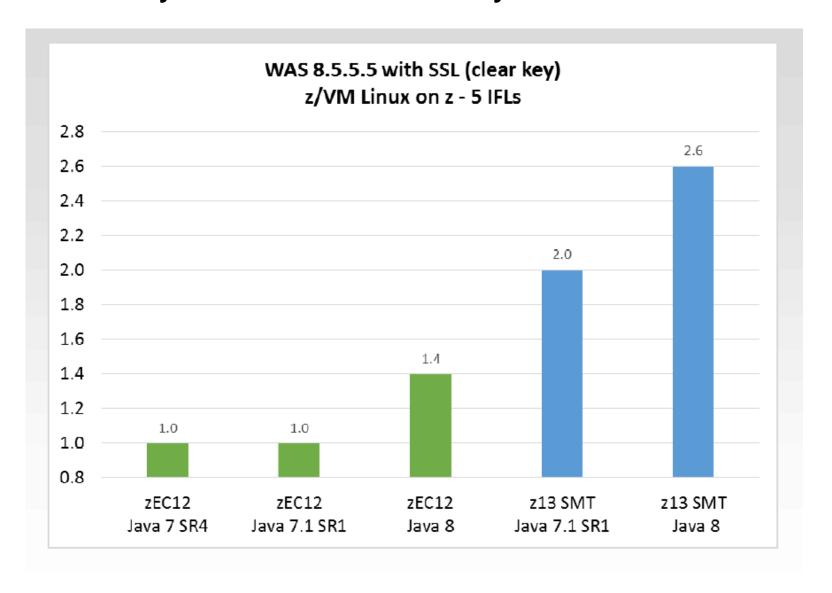
IBM SDK for z/OS, Java Tech. Edition, Version 8 (IBM Java 8)

- New Java8 Language Features
 - Lambdas, virtual extension methods
- IBM z13 exploitation
 - Vector exploitation and other new instructions
 - Instruction scheduling
- General throughput improvements
 - Up-to 7% better application throughput
 - Significant improvements to ORB
- Improved crypto performance for IBMJCE
 - Block ciphering, secure hashing and public key
 - Up-to 4x improvement to Public Key using ECC
 - · CPACF instructions: AES, 3DES, SHA1, SHA2, etc
- Significantly improved application ramp-up
 - Up-to 50% less CPU to ramp-up to steady-state
 - Improved perf of ahead-of-time compiled code
- Improved Monitoring
 - JMX beans for precise CPU-time monitoring
- Enhancements to JZOS Toolkit for Java batch





Z13 and Java 8 performance boost WAS Liberty 8.5.5.5 – SSL enabled DayTrader



IBM Spectrum Scale for Linux on z Systems



Provides fast data access and simple, high available data management



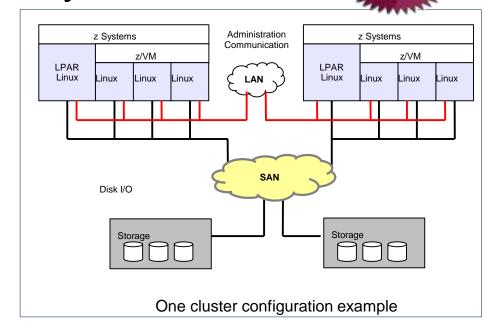
- Streamline Data access
- Centralize Storage Management
- Improve Data Availability

IBM Spectrum Scale for Linux on z Systems

Based on IBM GPFS technology

Robust clustered file system

- Concurrent high-speed, reliable data access from multiple nodes
- Extreme scalability and accelerated performance
- Smooth, non disruptive capacity expansion and reduction



Linux
instances in
LPAR mode or
on z/VM, on
the same or
different
CECs

Up to 32 cluster nodes with same or mixed Linux distributions / releases Support for ECKD™based and FCP-based storage

Heterogeneous
clusters
w/ client nodes
w/o local storage
access running
Linux on x86 or
POWER®

Supported storage: DS8000®, IBM FlashSystem[™], IBM Storwize® V7000, SVC, IBM XIV®,

Supported workloads: WebSphere App. Server, IBM MQ® or similar workloads



Drive more business value with FlashSystem

Linux on System z & IBM FlashSystem: Highest Reliability, Maximum Performance

Linux on System z can help achieve a smarter IT infrastructure that:

- Provides efficiency at scale on a single physical server
- Delivers industry-leading virtualization for effective deployment
- Enables flexible delivery of services through a private cloud
- Delivers real-time information and insight from data
- Provides unmatched security and reliability

Now you can leverage the "Economies of Scale" of Flash

- Accelerate Application Performance
- Gain Greater System Utilization
- Lower Software & Hardware Cost
- Save Power / Cooling / Floor Space
- Drive Value Out of Big Data

Performance of Linux on System z with FlashSystem

I/O bound relational databases, like Oracle, can benefit from IBM FlashSystem over spinning disks.

- > 21x reduction in response times*
- ➤ 9x improvement in IO wait times*
- > 2x improvement in CPU utilization*

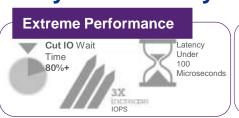
System z FiconExpress 8s I/O cards can provide an additional 10% throughput running with FCP





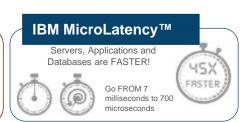
IBM FlashSystem is certified (<u>reference</u> <u>SSIC</u>) to attach to Linux on System z to meet your business objectives

Why IBM FlashSystem for Linux on System z?









IBM zAware V2.0 - Analyze Linux on z Systems



IBM zAware is available with z13 for Linux on z Systems to deliver a creative availability solution to help maximize service levels

- Faster insight into the health of the Linux on z images
- Identify unusual system behavior of the Linux on z images
- Support for Linux on z message log analysis



- User can group multiple systems' data into a combined model: by workload (e.g. for all web servers), by solution (e.g. one model for your cloud), or by z/VM host
- Support for native or guest Linux on z images
- IBM zAware delivered on IBM z13 builds on previous IBM zAware function



Quality of

Service

Linux on z13

An Enterprise grade Linux on z Systems solution portfolio

Data and Analytics

IBM InfoSphere BigInsights
IBM DB2 BLU

Cloud

Custom Patterns for Linux on z Systems

PostgreSQL

Trusted Computing

Spectrum Scale (GPFS technology)

IBM zAware V2.0

Crypto Express5S

SOD: GDPS Virtual appliance



Outstanding Capacity

IBM z13

Mobile

Node.js

Internal Integration

Openness and Pricing

OpenSource and SOD: KVM

Large memory

Enterprise Linux Server and Enterprise Cloud System

Clients run many different workloads on Linux on z Systems



Database deployment

- **EVERTEC** (Oracle)
- L3C LLP (Oracle)
- Dundee City Council (Oracle)
- Met Office (Oracle)
- America First Credit Union (DB2)
- SinfoniaRx (DB2)
- Marist College (DB2)



Web application and SOA infrastructure

- BTMU
- Nationwide
- Halkbank
- Renfe
- Bank of New Zealand



Real-time insights

- Sicoob
- White Cube
- Bankia
- Miami-Dade County
- <u>IBM</u>



... and much more

- ABK-Systeme GmbH (MobileFirst P.F.)
- Banca Carige (MobileFirst P.F.)
- German Pension Fund (Content Mgt)
- BCBS Minnesota (SAP)
- Baldor (SAP)
- Porto Alegre (Maximo)
- City a. County of Honolulu (Maximo)
- IBM (Connections/Notes)

More cases: ibm.com/systems/z/os/linux/success/index.html

Open Source Priorities in 2015

Green: port/test done open source versions

Databases-Messaging





Dev Languages-Environments









Cloud Infrastructure







Cluster Computing





New Open Source products Ready for Download



Linux on System z Open Source Ecosystem

ibm.com/developerworks/community/groups/community/lozopensource

★ Linux on Z open source list

Mar 31 | Tags: none

Package	SLES 12.x	RHEL 7.x	SLES 11.x	RHEL 6.x	Comments
MariaDB	NA	NA	10.0	10.0	
Maven	3.2.5	3.2.5	NA	NA	
MongoDB	2.4.9/2.6.6	2.4.9/2.6.6	3.0	3.0	
MySQL	5.6.24	5.6.24	NA	NA	
Node.js	1.2/1.1	1.2/1.1	1.2/1.1	1.2/1.1	
oCaml	4.02.1	4.02.1	4.02.1	4.02.1	
PostgreSQL	9.4	9.4	9.4	9.4	
Protobuf	2.6.1	2.6.1	NA	NA	
Puppet	4.1.0	4.1.0	4.1.0	4.1.0	
Python	2.7.9 , 3.4.3	2.7.9 , 3.4.3	2.7.9 , 3.4.3	2.7.9 , 3.4.3	
RabbitMQ	3.5.0	3.5.0	3.5.0	3.5.0	
Rails	4.2.1	4.2.1	4.2.1	4.2.1	
Ruby	2.2.1	2.2.1	2.2.1	2.2.1	
Snappy-Java	NA	NA	1.1.2	1.1.2	

Docker ↓ Introduction **Ψ** Installation ◆ Download area - current ◆ Download area - archive. This page is the 'homepage' of the Linux on 2 Systems Docker binaries Introduction Docker is a tool for deploying, executing and managing containers. Experimental Linux on z Systems binanes are provided for Red Hat Enterprise Linux Version 7 and SUSE Linux Enterprise Server 12. Be aware that this is experimental code to seek early user feedback Some restrictions may apply This experimental code may be updated or discontinued at any time! There is no formal support statement for this experimental code T Back to top Installation Download the aichive for your distribution. Compute the checksum using shafsum and compare against the checksum listed below in the Download section. Unpack the archive using tar xzvf. Copy the docker binary into a location that is included in your SPATH variable, such as /usr/local/bin. Please make sure you are on the latest devicemapper level. On SLES, make sure you have apparmor installed (e.g. 'zypper install patternssles-apparmor). T Back to top Download for the current Docker package Package Download Link 2015-05-13 Docker docker-mel7-20150509 tar gz to://to.unicamp.br /pub/Inuxpatch/s390x 150 for SHAT RHEL7 na1eebtb02d8620bb23dd01c5if93W51970ea37 /redhat/frwl7/docker /Hacker rhel7-20160509.tar.gz. 2015-05-13 Docker docker-slee 12-20150507 tar.gz ftp://ftp.unicamp.br /publinus:patch/s390x SLES12 9b/588489v90dt4962t013dbac26da7d6e12f2f0 /suge/sles12/docker sles 12-20150507 tax qz

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Analysts and White Papers

External Web: ibm.com/systems/z/os/linux/resources/doc_wp.html

Title of Paper	Company
IBM zEnterprise is Enterprise Cloud Infrastructure	The Clipper Group
The Enterprise Linux Server – The Best Choice for In-House Linux Clouds	Robert Francis Group
IBM's Mainframe50: The Future of the Mainframe	IDC
Top Ten Reasons to Take a Fresh Look at IBM zEnterprise	HURWITZ
The ETL Problem	Joe Clabby
The Mainframe as a Key Platform for Big Data and Analytics	IDC
Agile Application Development on System z — Is It Keeping Up with Your Business?	The Clipper Group
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System z and Managed Service Providers	Solitaire Interglobal
Implementing A Web Interface For The Linux Health Checker	IBM
The business value of IBM zEnterprise System deployments	IDC
Porting applications to Linux on IBM System z	IBM
Tracked, Hacked and Attacked	Solitaire Interglobal
Private cloud and mainframes	Forrester
z/VM Migration: Migrating the User Directory and RACF® Environment	IBM

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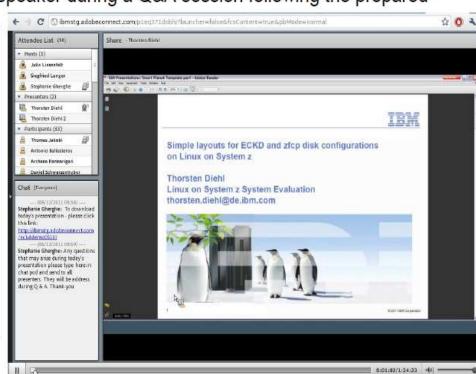
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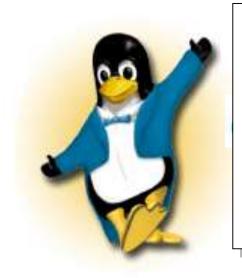
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- * The day following each LVC, we post the the charts in PDF format.
- * Shortly thereafter we provide a replay where you can read the charts, hear the recording and the Q's and A's in MP3 Format
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Questions?



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