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The Biggest No Brainer: Linux on System z

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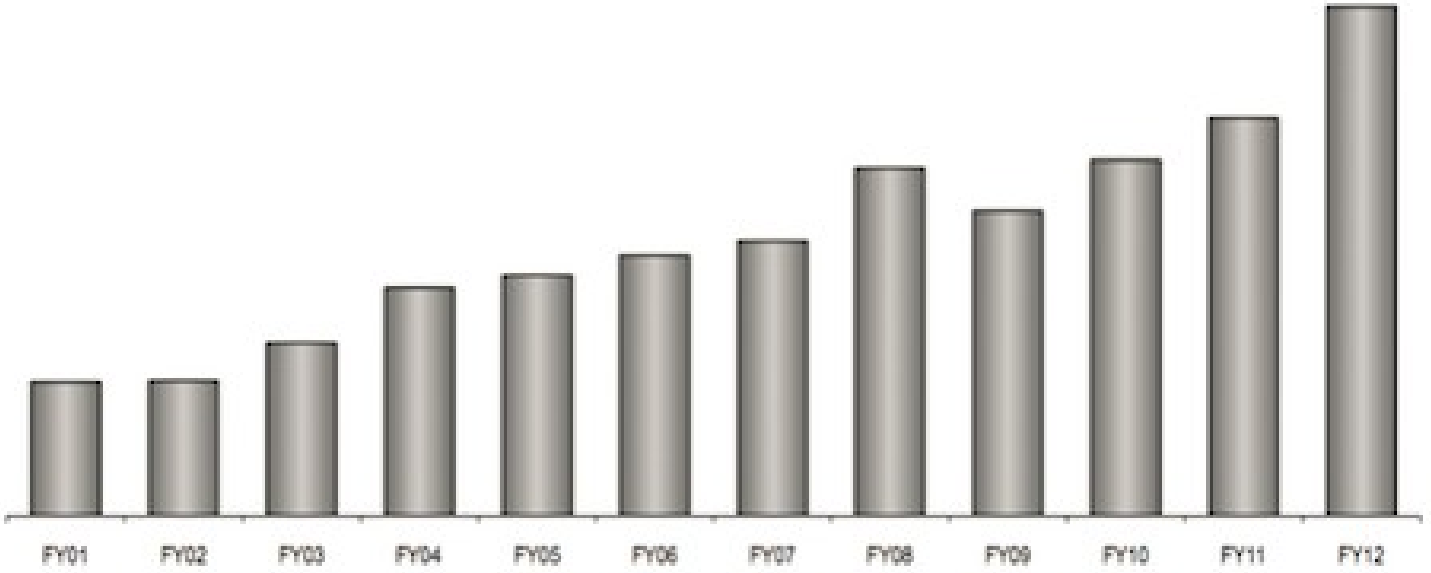
SHARE in San Francisco 2013

Agenda

- Growth: Linux on System z
- Linux on System z Solutions
- Server Consolidation & IT Optimization
- Cloud
- Business Analytics
- Mobile
- Social
- Smarter Cities
- z ISVs
- Free Learning: Linux on System z
- Reporting on IBM Products
- Summary & More Information

The growing IBM zEnterprise System ecosystem



System z Total Installed Capacity

4Q12: 66% yty The highest shipped MIPS growth in history

56%
yty revenue growth in 4Q12, best absolute dollar growth since before 2000

180+
new accounts since 3Q10 zEnterprise launch, with 1/3+ in growth markets

220+
hybrid computing units shipped since 3Q10

3/4+
of Top 100 enterprises have installed IFLs

[IFL = Linux-on-z Only Engine]

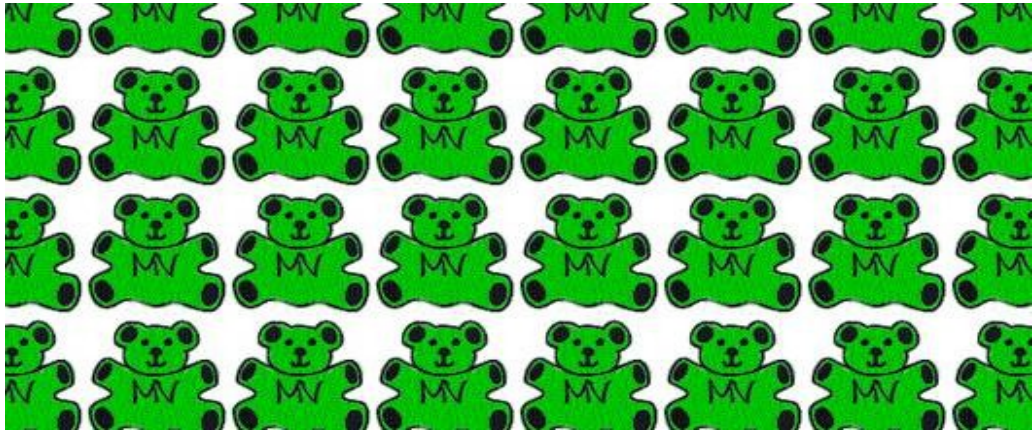
1,000+
schools in 67 countries are part of the IBM Academic Initiative for System z

7,400+
ISV apps run on IBM System z; 90 new ISVs added in 2012

[as of 4Q12]

z/VM & LINUX on z are *LEADERS!*

VM's 41th anniversary in 2013!



Linux on the mainframe celebrates its 13th anniversary on May 17, 2013!

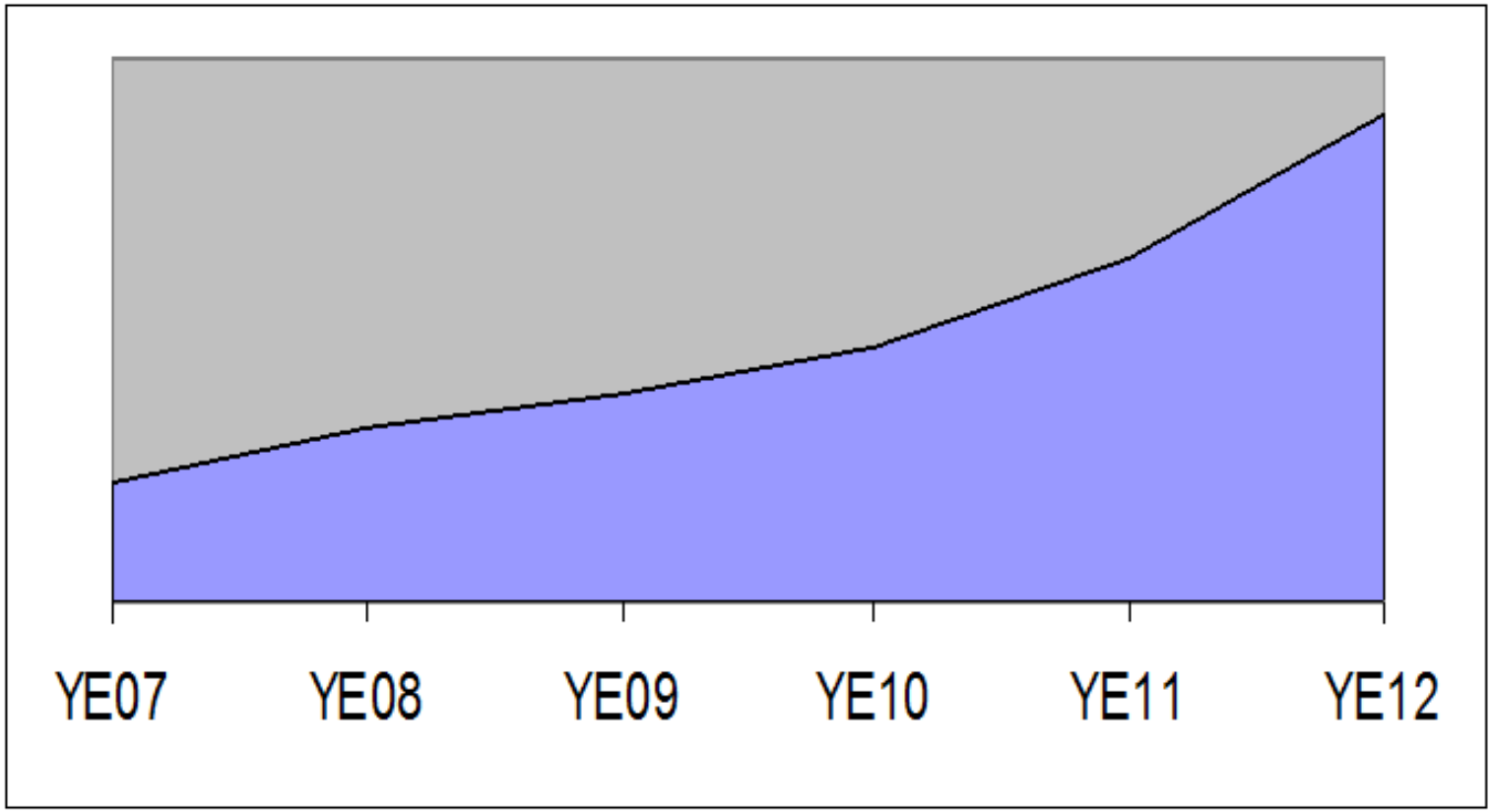
IFL MIPS > 22% of overall installed base

36% of System z customers have IFLs installed

LINUX on z & IFLs are *HOT!*

Shipped IFL Engines increased 77% from 4Q'11 to 4Q'12

Installed IFL MIPS increased by 32% from 4Q'11 to 4Q'12



Companies are Continuing to *Invest Heavily* in System z!

4Q2012

- System z MIPS **increased 66%** over 4Q2011
- **Largest MIPS shipment** quarter in IBM history!
- New workload specially engines, **lead by IFLs**, were 50% of MIPS shipped!

The Biggest No Brainer: Linux on System z

Linux on System z is HOT!

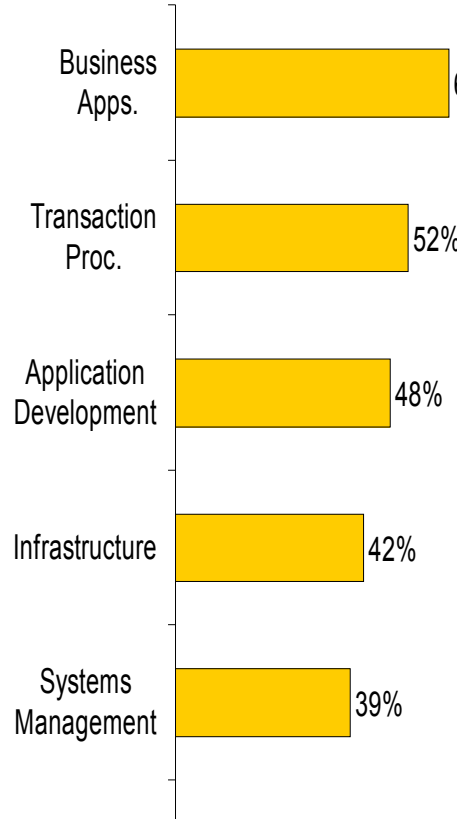
- *Business critical applications*
- *Server consolidation*
- *SAP*
- *Data Servers*
- *Business Analytics*
- *Cloud*
- *Social*
- *Mobile*
- *z ISV business solutions*
- *IBM Middleware products*
- *First in Enterprise Clients*

no-brainer (*plural* **no-brainers**)

An easy or obvious conclusion, decision, solution, task, etc.; something requiring little or no thought.

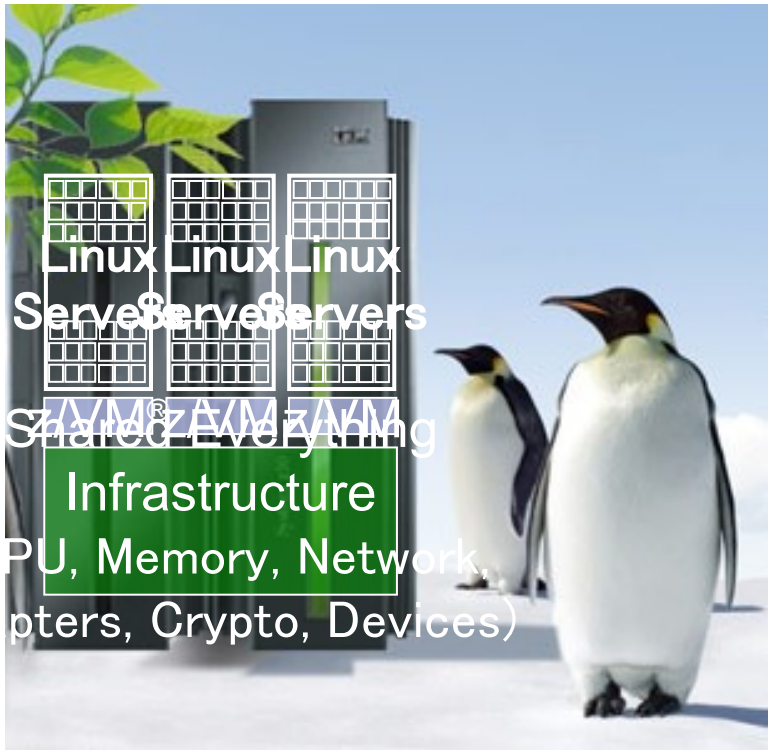
What Are Linux Users Running on System z?

- **Data services**: Cognos®, SPSS®, DB2®, InfoSphere™, Informix®, Oracle Database, Builders WebFOCUS, …
- **Business applications**: WebSphere Application Server, WebSphere Process Server, WebSphere Commerce, …
- **Development & test**: e.g. of WebSphere®/Java applications – Rational® Asset Manager, Build Forge®, ClearCase®, Quality Manager
- **Email & collaboration**: Lotus® Domino®, Lotus Collaboration (Sametime, Connections, Quickr™, Forms) WebSphere Portal, …
- **Enterprise Content Management**: FileNet® Content Manager, Content Manager, Content Manager On Demand
- **Business Process Management**: Business Process Manager, WebSphere Business Monitor, FileNet Business Process Manager, WebSphere Operational Decision Management, …
- **Infrastructure services**: WebSphere MQSeries®, WebSphere Message Broker, WebSphere Enterprise Service Bus, DB2 Connect™, FTP, NFS, DNS, Firewall, Proxy, …
- **Cloud management**: Infrastructure (IaaS), Platform (PaaS), Software (SaaS), Business Process as a Service – Tivoli® System Automation Manager, Tivoli Provisioning Manager, Integrated Service Management for System z, Maximo® Asset Management, …



Source: IBM Market Intelligence Mar2012
Percentage of survey respondents

Server Consolidation & IT Optimization with Linux on z



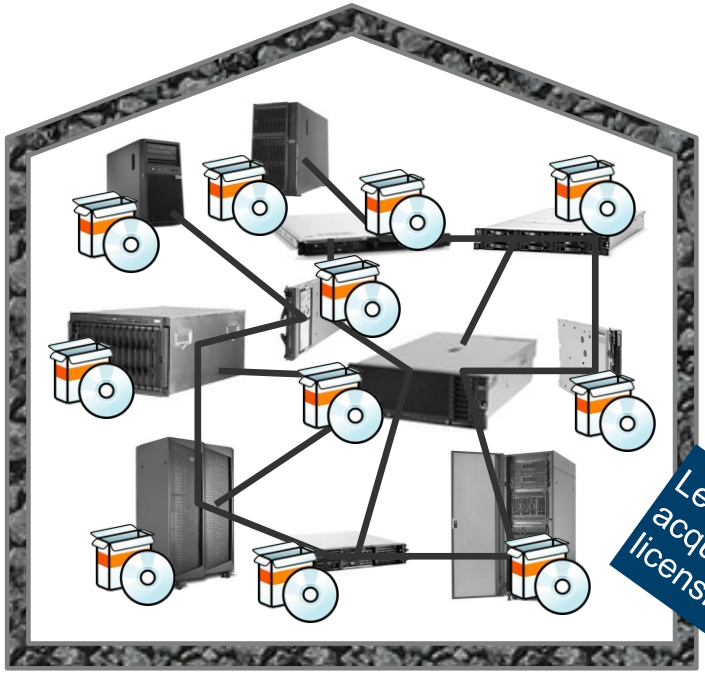
Helping you
"Do More with Less"
Faster

A refrigerator size box versus vs. a room full of servers.

The differences are quantum.

The Difference of IT Optimization with System z

Examples: Software Costs and Disaster Recovery



Less SW acquisition & licensing

DR improvement

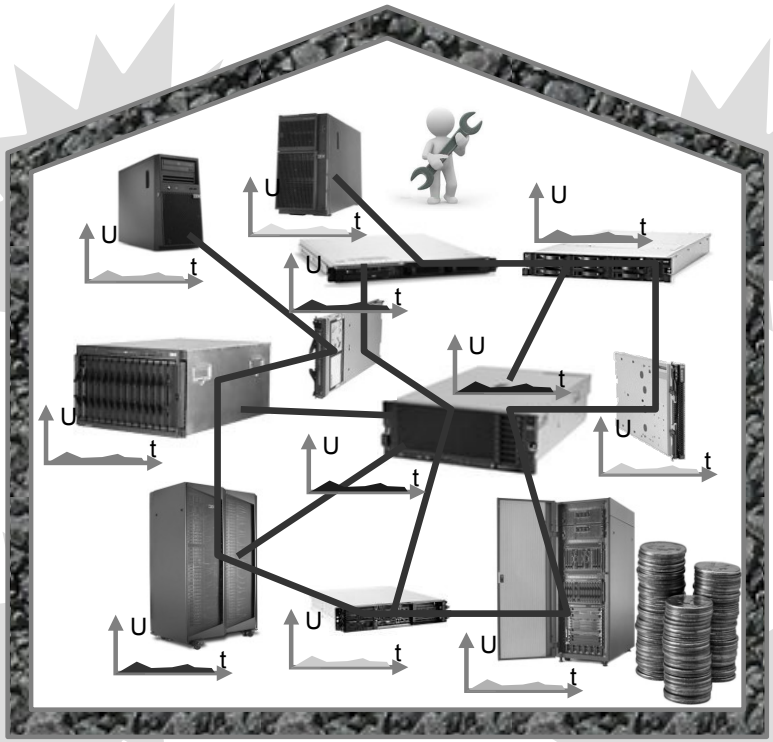
Software for Linux is generally priced by the number of processor cores.

On zEC12, one IFL is equivalent to one core!

Coordinated near-continuous availability and DR solution for Linux

Why IT Optimization with Linux on z
Improved IT Efficiency and Reduced Costs

It's a no-brainer!



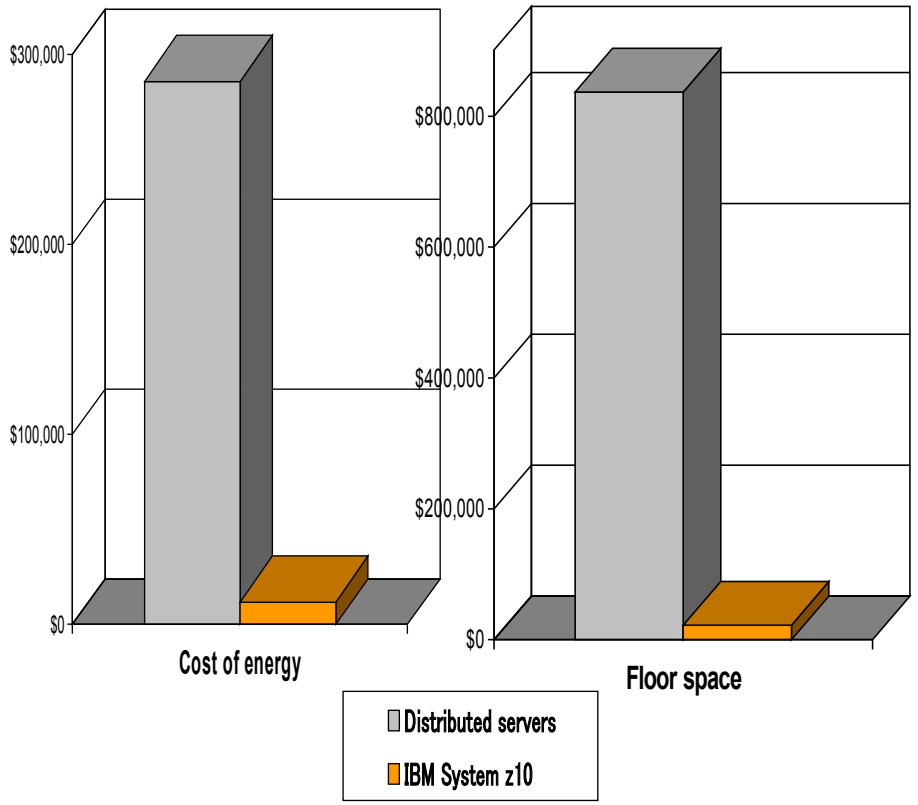
- Operational and management reduction
- Software acquisition and licensing cost reduction
- Maximizing utilization
- Collocation of data and applications
- Floor-space and energy reduction
- Network reduction
- Hardware acquisition cost reduction
- Technology refresh effort reduction
- Growth inside a server
- Improving security
- Disaster recovery cost reduction

Software Cost Saving Example*

	Example 1: From 9 cores to 1 IFL	Example 2: From 84 cores to 17 IFLs
Before: SW licence Support per year	**9 * $40K = $400K** 9 * $10K = $90K **= $490K**	**84 * $40K = $3660K** 84 * $10K = $840K **= $4200K**
After: SW licence Support per year	1 * $40K = $40K 1 * $10K = $10K **= $50K**	17 * $40K = $680K 17 * $10K = $170K **= $850K**
1. Year	$40K savings	$10K investment
2. Year	$80K savings	$670K savings
3. Year	$80K savings	$670K savings
Total for 3 Years	$200K savings	$1.330K savings

* IBM does not provide any ISV software prices, the prices in this example do not reflect any real prices.

Insurance Company Reduced Energy Requirements 95% by Consolidating 292 Servers to a z10



Annual cost calculation

- Energy cost calculated with a rate of $0.12 per Kilowatt
- Floor space cost calculated with a rate of $29 per square foot per month

Prices are in USD. Prices may vary in other countries.
Data is based on real client opportunity and on internal standardized costing tools and methodologies.
Client results will vary by types of workloads, technology level of consolidated servers, utilization factor, and other implementation requirements. Savings will vary by client.

Bank of New Zealand

BANK OF NEW ZEALAND REDUCES CARBON FOOTPRINT WITH RED HAT ON THE MAINFRAME

FAST FACTS

Industry	Financial Services
Geography	New Zealand
Business Challenge	Address environmental and space issues in the datacentre and achieve the corporate goal of becoming carbon neutral by 2010
Migration Path	From distributed Intel and SUN SPARC servers to Red Hat Enterprise Linux 5 running under z/VM on IBM z9 and z10 mainframes
Solution	**Software**: Red Hat Enterprise Linux 5, Red Hat Network (RHN) Satellite, Oracle database, WebSphere Application Server, ESB, Process Server, TX and MQ **Hardware**: 1x IBM z9 and 1x IBM z10 mainframe (with 3 x IFL engines in each)
Benefits	• Recovered 30 percent of datacenter floor space • Reduced power consumption by 38 percent • 20 percent return on investment (ROI) over the life of the platform • Simplified, more efficient deployment

BACKGROUND:

For the last 150 years, BNZ (Bank of New Zealand), a subsidiary of the National Australia Bank Group, has helped individuals, farmers and businesses with their financial pursuits. Throughout this time, BNZ has evolved to meet changing customer needs and expectations, while continuing to deliver innovative new products and services.

BNZ is focused on empowering its customers and prides itself on its flexibility, innovation, and corporate responsibility. It is also leading the New Zealand banking and finance industry in developing, and benefiting from, a more energy efficient, 'green' IT operation.

CHALLENGE:

Like a large number of businesses in New Zealand and around the world, BNZ was close to reaching capacity in its datacenter and needed to determine how to maximise space while keeping costs down.

The bank's corporate values also have a carbon neutral focus, which it was keen to put into practice across all aspects of its business operations.

"The issues we were dealing with were not necessarily unique, but a reflection of the current business climate," said Lyle Johnston, Infrastructure Architect for BNZ.

"BNZ had defined two important goals for the future, both of which relied heavily on IT. The first was for the organisa-

Benefits:

- Recovered 30% of datacenter floor space
- Reduced power consumption by 38%
- 20% ROI over the life of the platform
- Simplified, more efficient deployment

The combination of z/VM® and Red Hat Enterprise Linux 5 enabled BNZ to virtualize and consolidate a largely distributed SUN environment, which incorporates all of its frontend systems, down to just one box and run it in a manner that didn't present a significant change for administration staff.

To date, the bank has consolidated 131 SUN SPARC systems to Red Hat Enterprise Linux on IBM System z®. These systems include v440s, v280Rs and E10Ks on the high-end.

"Deploying IBM mainframes with Red Hat Enterprise Linux to ***address our carbon footprint and cost saving concerns was a very big deal****, especially at the senior management level. It provided us with the opportunity to take a very serious leap into Linux, and that was exciting for everyone in IT and beyond."*

- Lyle Johnston, infrastructure architect for BNZ

Read full story

Eurocontrol consolidates IT environment into virtual hybrid datacenter

Business challenge:

Due to the growing number and diversity of applications in the past decades, the need for more server capacity has evolved.
This has over time resulted in a rapidly growing datacenter, at the expense of the manageability and efficiency of IT systems.

Solution:

To achieve … a smart datacenter, Eurocontrol and IBM are consolidating part of the present server environment into a virtual hybrid datacenter based on an IBM zEnterprise System Server **with Linux as operating system.**
This environment is extremely well suited to operate Linux on IBM System z, as well as to operate Linux on Intel® blades and Power® blades.

> *"For some software products you need to pay a separate license for each server core. Since the zEnterprise uses the Integrated Facility for Linux instead of cores when calculating license costs, we can reduce the number of these licenses and thus save license costs."*
>
> *— Huub Meertens, Head of the SUP Engineering Section at Eurocontrol MUAC*

Benefits:

- The new heterogeneous virtual IT infrastructure will give Eurocontrol MUAC **greater flexibility and scalability.**
- The centralized supervision substantially **improves the user friendliness and management** of the environment, meeting the IaaS service levels.
- Applications **run faster and are available 24/7** thanks to the immense computing power and capacity of the hybrid environment in combination with the fit-for-purpose principle.
- **Less hardware -> more floor space in the datacenter, major energy savings** -> reduction in CO2 emissions, easier system management results in an even greater financial benefit

IBM System z Cloud Blueprint – Linux on z

- Rapid deployment of Linux® virtual servers for less than one dollar a day
- Industry leading "gold standard" security for tenant isolation
- Elastic scaling achieved by dynamically adjustable capacity at sustained performance
- Multisystem virtualization simplifies management by clustering shared resources

- Automated provisioning and de-provisioning
- Pool standardized virtualized building blocks
- Plug-and-play capacity across hardware generations
- Capture and catalog virtual images in the data center
- Automated methods for faster delivery of services with higher levels of control

- Integrated virtualization management with IT service delivery processes
- Self-service provisioning
- Automated service lifecycle management including dynamic instantiation of cloud services
- Pay for use
- Optimize IT resources to reinvent business processes

- **z/VM®**
- **Linux on IBM System z®**

- **Tivoli® Provisioning Manager** ***Available now***
- **SmartCloud Provisioning** ***Available now***

- **Tivoli Service Automation Manager** ***Available now***

Nationwide cuts costs in the Cloud

Business challenge:

Nationwide's 3,000 distributed servers were inefficient and costly. To increase business agility and halt growing costs, Nationwide started a virtualization journey that ultimately led to the cloud.

Solution:

Following a rigorous analysis of various options, Nationwide decided to **consolidate its distributed environment to Linux virtual servers hosted by IBM z/VM on the IBM System z** platform.

In combination with IBM WebSphere® Application Server and IBM DB2, z/VM offered significant cost advantages over other possible platforms.

"By moving workload from thousands of distributed processors to a very small number of powerful mainframe processors, we have made enormous savings in software licensing costs. ...

More significantly, z/VM also gives us the ability to create new virtual servers within minutes, boosting the ability of the business to respond to new challenges and opportunities quickly and effectively,"

- Brian Callaghan, Associate Vice President of middleware and emerging technologies at Nationwide

Benefits:

- **Reduced power, cooling and floor space requirements by 80 percent**.
- Virtualized Linux servers use the fast I/O of the mainframe and share its resources.
- Reversed expenditure on distributed server landscape.
- **Savings of estimated $15 million over the first three years.**

The City and County of Honolulu creates a customized Cloud

Business challenge:

The City and County of Honolulu needed to increase government transparency by providing useful, timely data to its citizens. The city's goal was to improve citizen involvement, the city's service to its citizens and the efficiency of city operations.

Solution:

Working with IBM and IBM Business Partner Sirius Computer Solutions, Honolulu deployed a **custom cloud using an Integrated Facility for Linux (IFL) engine running Linux** on the city's IBM System z10® Enterprise Class (z10 EC™). Honolulu also implemented an IBM XIV® Storage System and IBM Maximo® Asset Management, IBM Tivoli® OMEGAMON®, Tivoli Workload Scheduler and Tivoli Storage Manager software.

"Working with IBM enabled us to take an innovative approach. Instead of following the long processes of other governments or even the private sector, we were able to get things up and running quickly,"

- Gordon J. Bruce, Director and CIO of the Department of Information Technology, City and County of Honolulu

Carrying on this approach, Honolulu plans to continually improve upon its efficiency for delivering information and services to its citizens.

USD$250,000 to

Benefits:

- **Linux on IBM System z helped reduce application deployment time from a week to only hours.**
- **The city was able to reduce database licensing costs** from USD$80,000 by moving the application database.
- A customized cloud environment provides a **scalable self-service platform** on which city employees could develop open source applications.
- Using Maximo Asset Management, a new system was created that helped to increase tax revenue by USD$1.4 million in just 3 months.

Transzap Boosts Uptime with IBM System z

Business challenge:

Transzap offers its customers a comprehensive suite of financial software tools. As a small business with tens of billions of dollars in client transactions flowing through their systems each year, Transzap needed an economical, reliable platform to provide clients with high availability while enabling the capacity to accommodate growth within their software as a service business model.

Example of 1 of the new **First in Enterprise** 180+ mainframe customers

Solution:

Transzap decided to consolidate on an IBM System z platform to provide the stability and scalability needed to accommodate triple digit volume growth, enabling them to focus on the business of software innovation. Transzap migrated to System z and virtualized its critical applications on Linux on System z, a platform that supports Transzap's dynamic Java and Oracle environments.

Benefits:

- Helps Transzap to serve more than 69,000 users across 6,800 companies
- Provides higher levels of uptime for their customers
- Offers peace of mind through 24x7 world-class hardware support

Solution components:

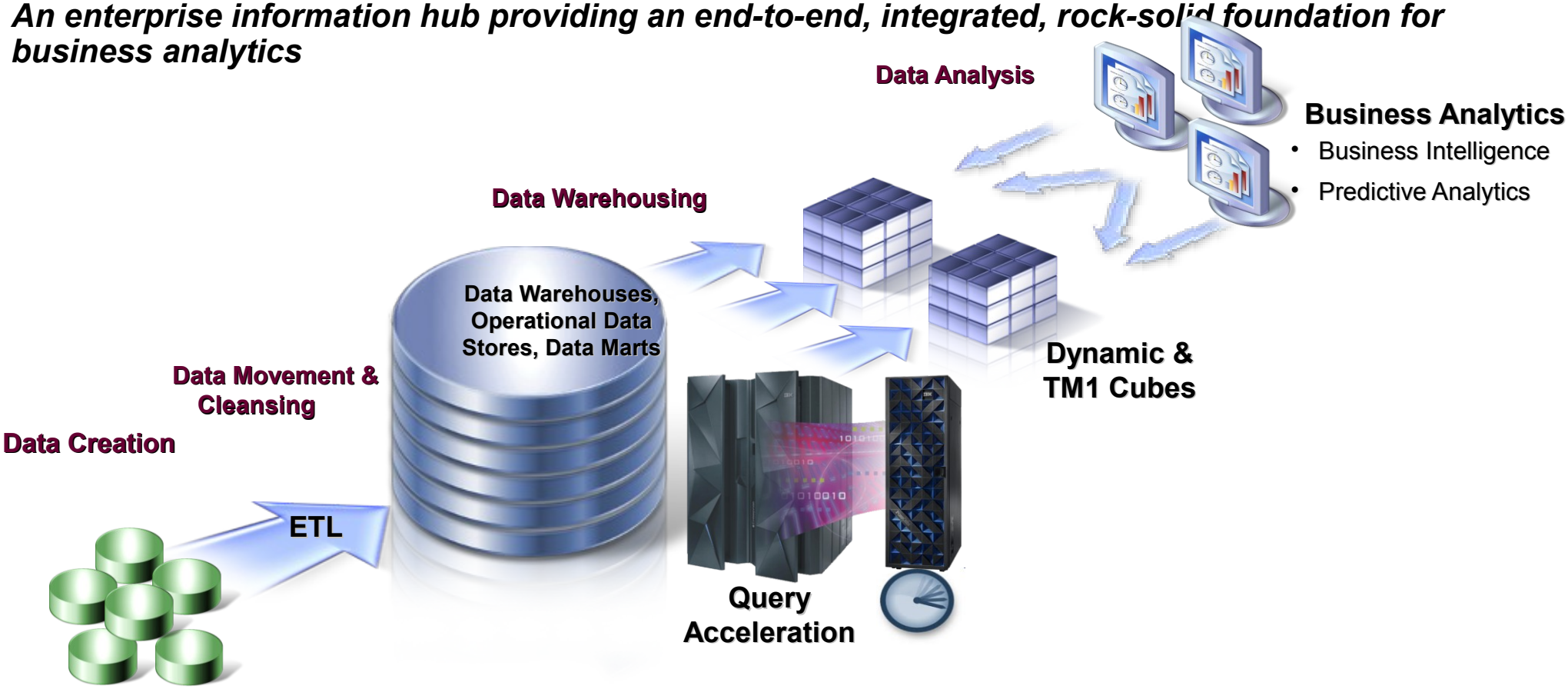
- IBM System z
- Linux on System z
- z/VM

TRANSZAP

Video

zEnterprise Business Analytics

zEnterprise
An enterprise information hub providing an end-to-end, integrated, rock-solid foundation for business analytics



Transactional Data on zEnterprise
-DB2 for z/OS
-IMS

InfoSphere Information Server for Linux on System z

DB2 for z/OS

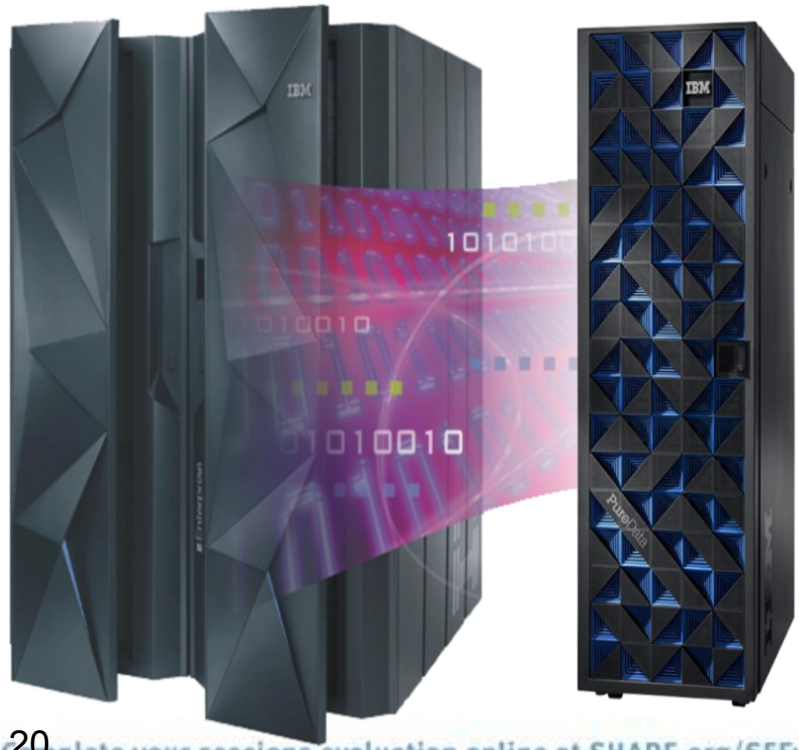
DB2 Analytics Accelerator for z/OS

Cognos BI for z/OS & Linux on zEnterprise
SPSS for Linux on System z
- Realtime in-transaction scoring

Business Analytics on System z – Close to DB2 z/OS Data

IBM DB2 Analytics Accelerator for z/OS

- **Reduces the cost of high speed analytics** by blending zEnterprise and Netezza technologies to deliver, mixed workload performance for complex analytic needs
- **Reduces host data warehouse storage** usage by over 95%

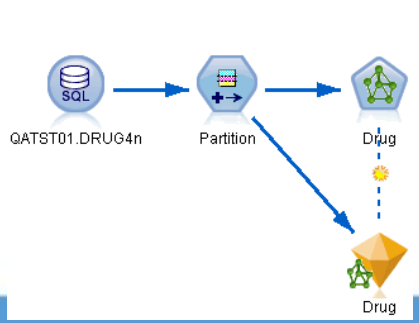


IBM Cognos BI for Linux on System z & z/OS

- **Reduces the cost and complexity of accessing DB2 for z/OS** data with a broad range of BI capabilities: reporting, analysis, dashboards, real-time monitoring, all on a single infrastructure. Author, share and analyze reports that draw on DB2 for z/OS data for better business decisions.

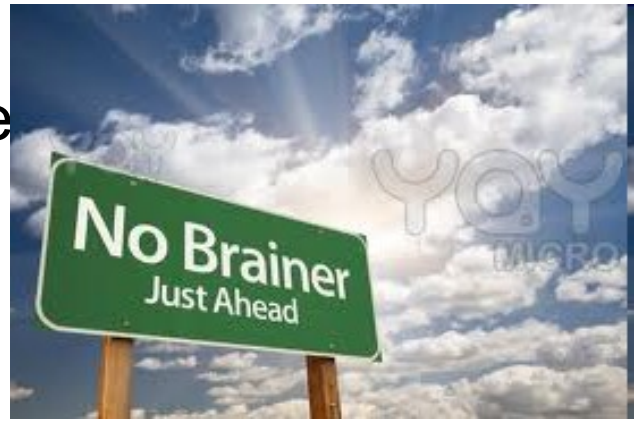
IBM SPSS Modeler for Linux on System z

- **Increases the speed and accuracy of scoring in real time** by imbedding the scoring algorithm in DB2 for z/OS and running it directly within the transactional application



Why Run BA on z?

- **Co-locate** BA with your DW and transaction data (Approx. 70% of data originates on the mainframe)
  - Reduce access time
  - Improve security
  - Less copies of the data/version of truth



- **Eliminate duplicate investments** across multiple departments
  - Less HW, SW, resources, floor space, heating, cooling for a better ROI
- Efficient **Workload management**
  - Ensure the availability & performance that SLAs demand
  - Proven to scale

IBM Blue Insight

Selects System z platform to deploy an internal Private Analytics Cloud

Project Scope

- 230K named users world-wide
- 390 distinct Cognos BI reporting projects
- 250 data sources - DB2, PowerCube, XML, pSeries, zLinux, z/OS
- 1.7 million reports delivered in Q3 2011
- The team – Operations team of 9 BACC support and 10 infrastructure
- **Single instance of Cognos on 1 z box for production, using multiple zLinux guests**

Value to the Business

Hard cost savings
$25 Million over 5 yrs

- People: 30% - more efficient use of resources, less duplication

- **Infrastructure**
  50% - hardware, software, facilities
  - Common Process: 20% - common boarding, communication and practice

Soft cost savings
10's of $M already

- Cost avoidance
- Each new project solution requiring analytics is saving
- Reduced technical and business team solution churn
- Improved resource flexibility

Value Generation
10's of $M already

- Better business decisions
- Channel segmentation of sales opportunities
- WW Cash management
- Commodity purchase optimization

> *Our commitment to informed decision making led us to consider private **cloud delivery of Cognos via System z**, which is the enabling foundation that makes possible **+$25M savings over 5 years**.*
>
> *-- IBM CIO Office*

Delivering for multiple mobile platforms
IBM Worklight

IBM Worklight Server V5.0 is supported on multiple environments, z highlights:

Middleware:

- **WebSphere Application Server Network Deployment V7.0 or higher and future releases, modification levels and fix packs**
- **Apache Tomcat 7.0 and future fix packs**

System z operating systems:

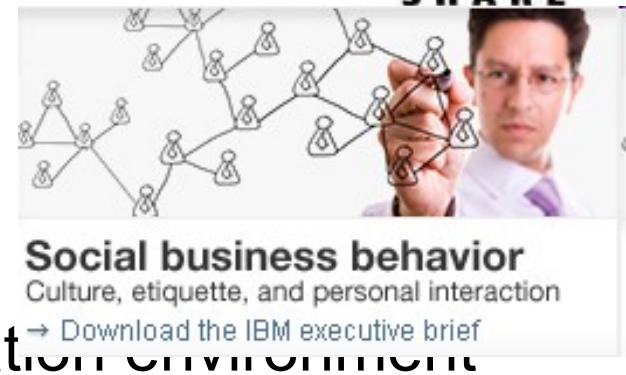
- **Red Hat Enterprise Linux (RHEL) 5 Update 6 Advanced Platform System z**
- **Red Hat Enterprise Linux (RHEL) Server 6 System z**
- **SUSE Linux Enterprise Server (SLES) 11 System z**
- **SUSE Linux Enterprise Server (SLES) 10 System z**

Key Capabilities

Mobile optimized middleware

- Open approach to 3rd-party integration
- Strong authentication framework
- Encrypted offline availability
- Enterprise back-end connectivity
- Unified push notifications
- Data collection for analytics
- Direct updates and remote disablement
- Packaged runtime skins

Solutions for Social Business on Linux on System z



Linux on System z combines the social & collaboration environment with the strengths of System z

- IBM Lotus **Domino** on Linux on System z is a powerful mail & collaboration platform
  - High availability & scalability
  - High security
  - Single point of management
- IBM **Connections** – social software for webcast sharing
- IBM Lotus **Quickr** for management of team & company content
- IBM **WebSphere Portal** for delivering powerful web content & applications

IBM Intelligent Operations Center Services Offering for Smarter Cities provides integrated insight…

- **Leverage** real-time visibility of cross-city data to optimize cost efficiencies
- **Anticipate** and proactively manage problems to mitigate impact to services and citizens
- **Coordinate** cross-agency operations with business and citizen participation to drive economic prosperity and enhance citizen involvement

One platform, many use cases

- Organization-wide dashboards
- Domain analytics
- Event and KPI management
- Geospatial mapping
- Data modeling and integration
- Simulation and visualization
- Cross-department collaboration
- Situational awareness
- Incident management
- Alerts and directives

…within a particular service area or managing across many services

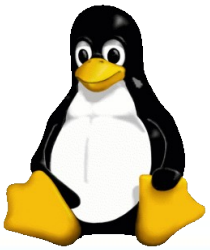
The Value of zEnterprise System to IOC and Smarter Cities

Smart Infrastructure for the Smarter Cities

- Maximum flexibility to support spikes and lulls in service demand
  - Ability to add and provision use cases by agency quickly without major re-investment in infrastructure
  - No need to procure and install new systems to increase system resources
  - IOC Entry on IBM zEnterprise® BladeCenter® Extention (zBX) provides flexibility and capability to grow with **Linux® on System z®** and zEnterprise 114 (z114)

- Proven ability to support cities in the event of a disaster or unplanned event
  - Proven System z disaster recovery provides 24 x 7 availability to support disaster response
  - Add resources immediately to respond to increased service demand

- The most secure server available to safeguard the most sensitive citizen data
  - EAL4+ certification on z/VM® guests
  - Hardware level SSL encryption
  - Hipersockets™ for access to existing System z data and transactions



More than 1400 New and Upgraded Applications added for z/OS and Linux

Added over 90 New ISV Partners in 2012

- **z/OS**
  - Over 1,080 New or Upgraded applications for z/OS
  - More than 4,400 total z/OS applications
- **Linux**
  - Over 400 New or Upgraded applications for Linux
  - More than 3,000 total Linux applications

SHARE

SAP

TEMENOS
The Banking Software Company

Nantian
南 天 信 息

FIS

callataÿ&wouters
BANKING SOLUTIONS

Infosys
Finacle

bmcsoftware

ASG
Software Solutions

ACI
payment systems

PKWARE

sas

INNOVATION DATA PROCESSING

GFS SOFTWARE

software AG

Information Builders

QMSi

redhat

ColeSoft

ca technologies

Compuware
THE TECHNOLOGY PERFORMANCE COMPANY

Management Strategies LTD.

ASTCO Ltd.

Rocket

SUSE
in San Francisco
2013

Rizal Commercial Banking Corporation

RCBC eyes 10 Million new Customers by 2014 with new Technology Platform from IBM and Finacle from Infosys

RCBC has successfully implemented the Finacle™ core banking solution from Infosys on the IBM System z server to transform its business and leverage new growth opportunities in an increasingly competitive consumer banking market.

RCBC selected Finacle running on an IBM System z server to consolidate data and applications from across disparate systems and establish a single source of customer information. The bank will leverage this intelligence to anticipate customer needs, create innovative offerings and enrich customer experience through increased personalization.

The bank is targeting to grow its cash card base by 4 million this year – doubling more than the 1.8 million users it on-boarded last year.

RCBC can add capacity on System z to support aggressive customer growth while relying on its **advantages of high-availability, resiliency and security.** As one of the most **scalable** solutions in its category, Finacle provides the right fit to support the anticipated growth in business.

This is the first installation in the world of **Finacle running on Linux on System z with DB2 for z/OS.**

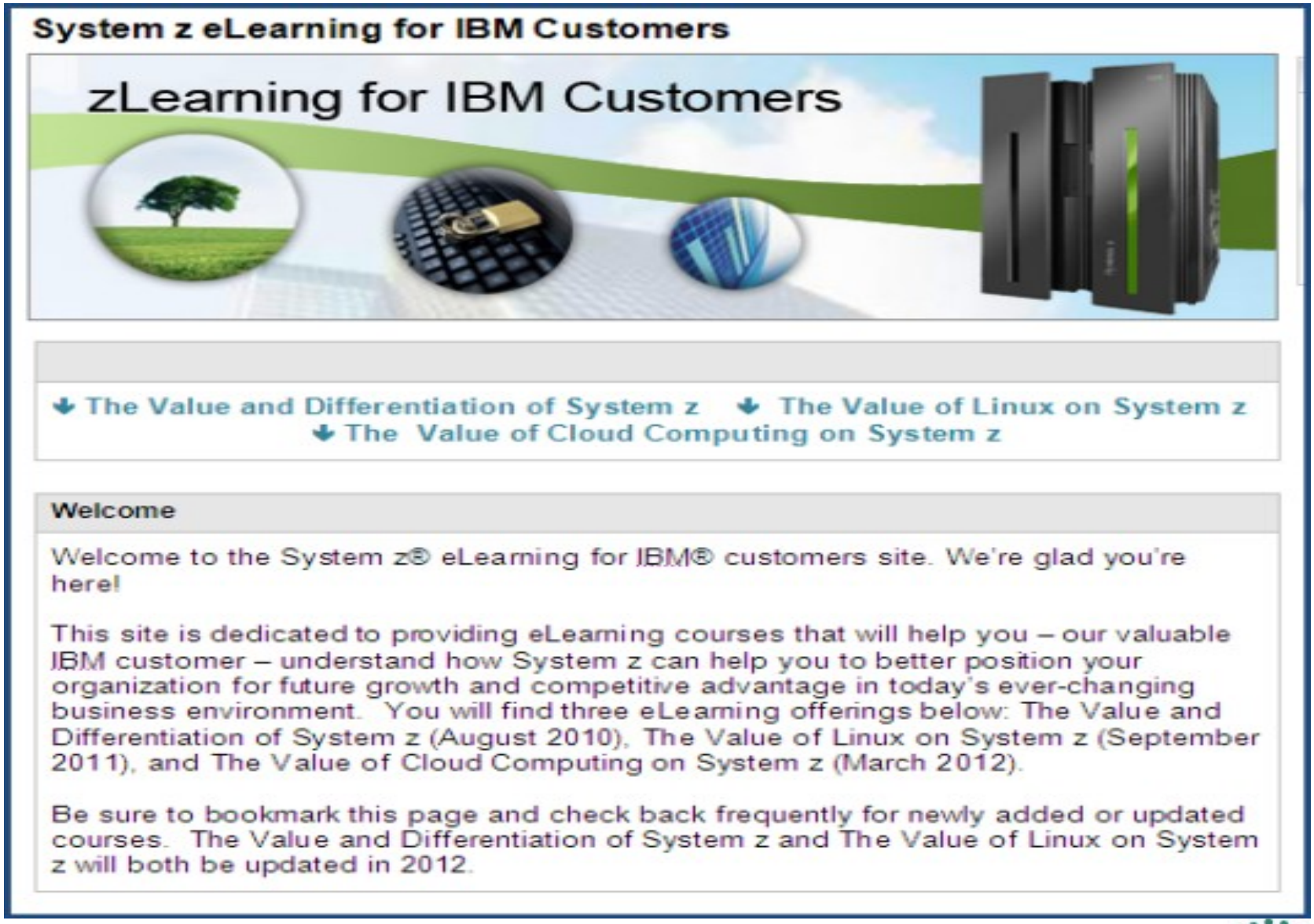
"The transition to Finacle core banking on the IBM System z platform -- while quite a significant project -- was the smoothest and most seamless transformation I have participated in.

We are glad to have taken this important and necessary journey with technology professionals who held our hands during the entire process. We are now positioned as the bank truly ready for tomorrow."

— Dennis Bancod, CIO, RCBC

Source: www.infosys.com/newsroom/press-releases/Pages/electronic-ca

Free System z eLearning Available Now!



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Free eLearning:
The Value of Linux on System z

The Value of Linux on System z

IBM

Module & Topic

- Welcome
- Module 1: The Importance of Linux on System z
- **Module 2: Workload Consolidation**
  - 2.0 Module Objectives
  - 2.1. What Is Workload Consolidation?
  - 2.1.1. Migration Automation
  - 2.2. The Importance of Workload Consolidation
  - 2.3. Scaling Up versus Scaling Out
  - 2.4. Why Customers Consolidate Workload on Linux on System z
  - 2.5. Typical Applications for Workload Consolidation
  - 2.6. Managing Consolidated Workloads
  - 2.6.1. IBM Service Management Center for System z
  - 2.7. Customer Success Stories
  - 2.7.1. Bank of New Zealand
  - 2.7.2 Dundee City Council
  - 2.7.3 National Registration

Module 2: Workload Consolidation

2.1. What Is Workload Consolidation?

In the eighties and nineties, many companies started to deploy applications from mainframes to x86 servers. Each x86 server generally only hosts one application with one operating system. Companies could have hundreds of servers taking up large amounts of space. These servers run at only 10-15% utilization, but each of these servers requires power to run and cool it. These server farms also require significant real estate. Given the overhead, the total cost of ownership (TCO) for racks of distributed systems is costly.

Moving these server environments to a single physical server (a mainframe) is called **workload consolidation**. Consolidated mainframe servers run at a utilization rate of 50-80% (and sometimes even higher). Having fewer servers running at a higher utilization rate results in improved performance with the same or less power - thus, improved efficiency is achieved.

Workload consolidation simplifies and optimizes existing end-to-end infrastructures. The goal of consolidation is to reduce costs while providing a common, stable foundation for growth and new solution deployment. Consolidating workloads onto System z not only reduces the number of server boxes, but also the amount of networking infrastructure needed to connect servers.

Linux for IBM System z is designed to provide an open, flexible, highly secure, robust, adaptable, and reliable consolidation platform for integrating components of the existing IT environment.

As electronic transactions have become more ingrained in economic life, so too has the expectation among cardholders that their point-of-sale swipe will lead to a rapid and successful conclusion of their transaction. What matters most for buyers and retailers is that the time between the swipe and "approval" is as instantaneous as possible.

IBM helped Fifth Third Bancorp simplify and optimize its transactions processing infrastructure by migrating it to a series of IBM System z servers employing IBM's Parallel Sysplex® technology, which enables customers to segment their processing capacity.

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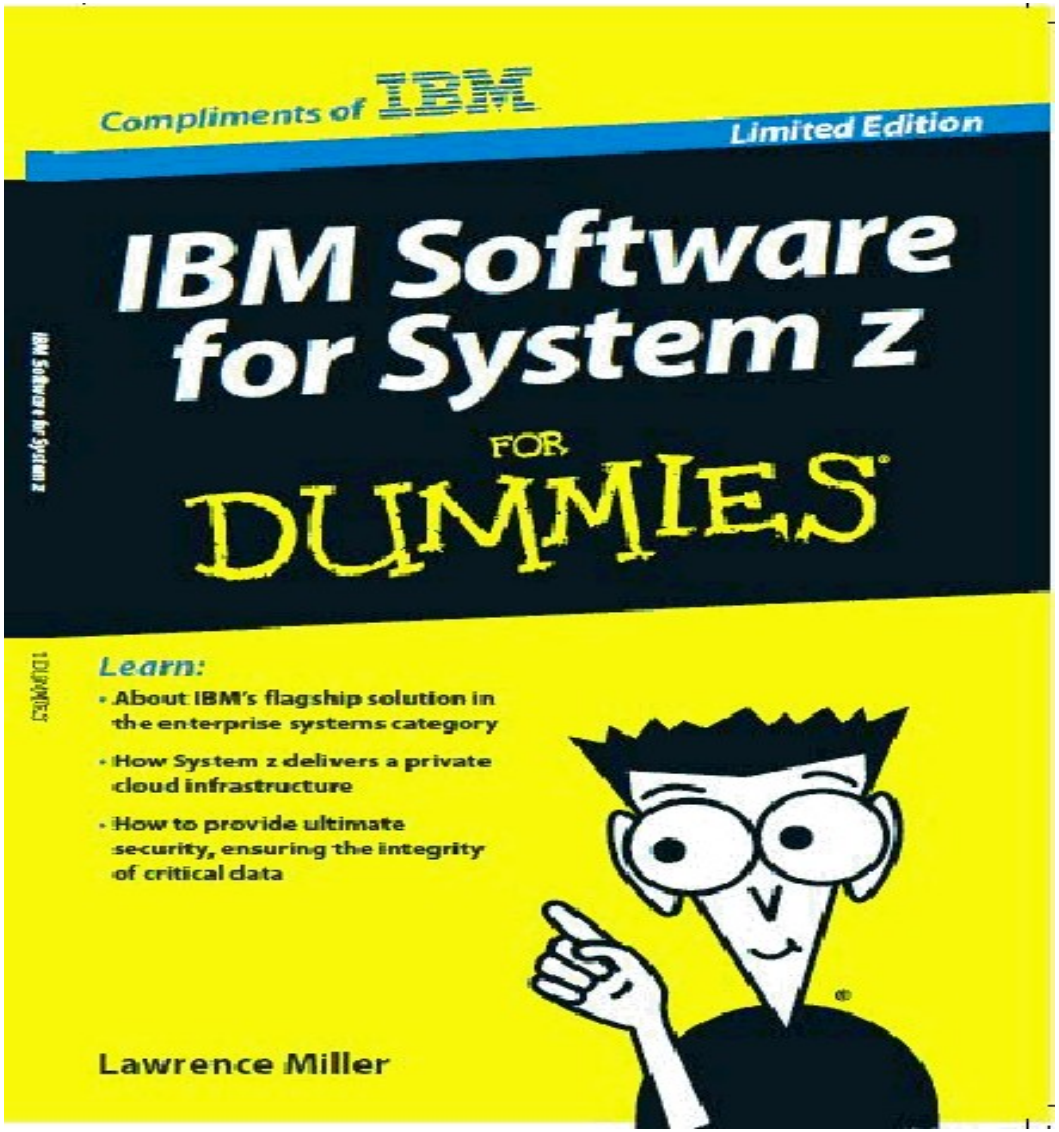
System z Explained for Everyone!



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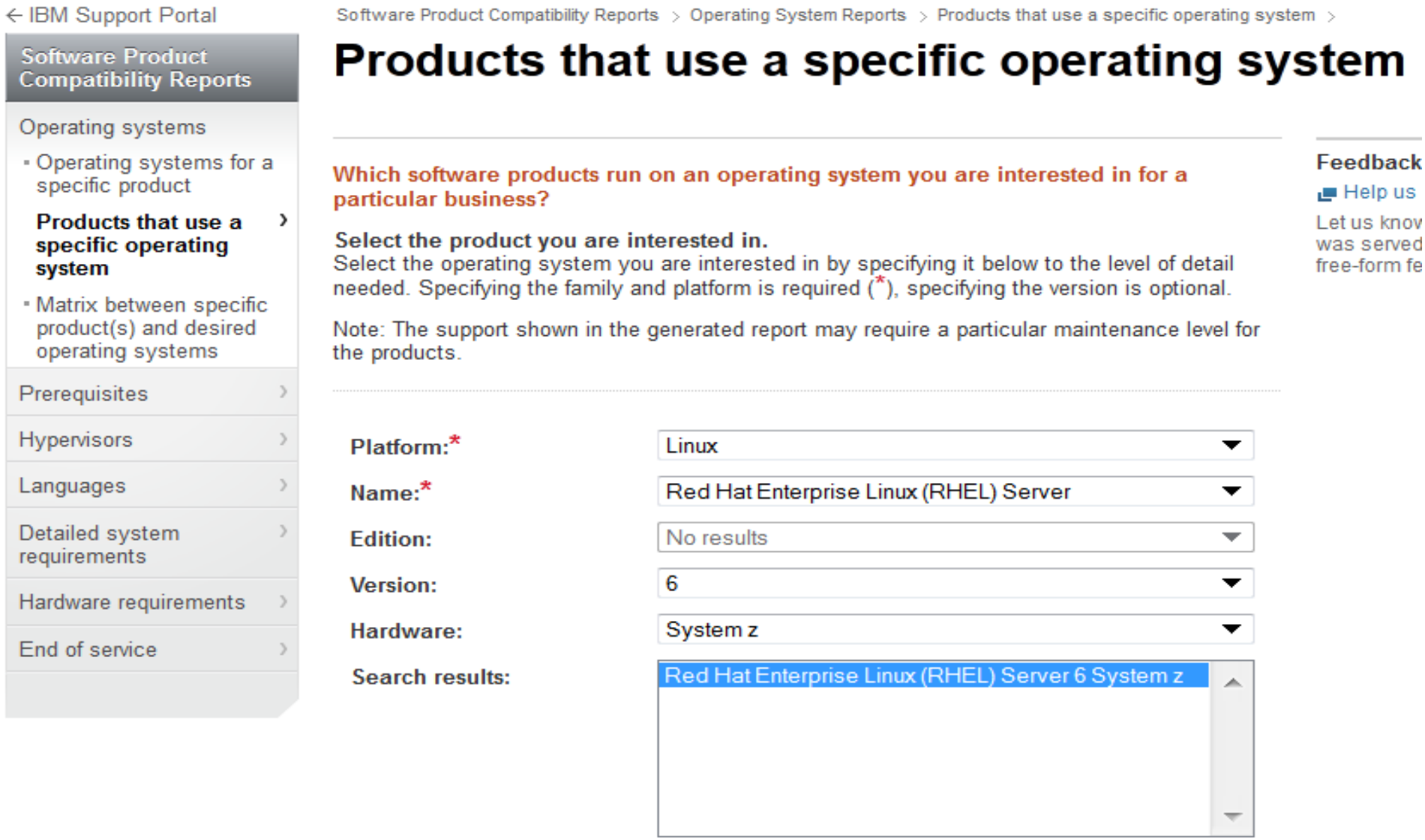
IBM Middleware Products on Linux on z - Reports



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IBM Middleware Products on Linux on z - Reports

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Products supported by
Red Hat Enterprise Linux (RHEL) Server 6 System z

- This operating system is supported by all parts of the product
- This operating system is not supported by some parts of the product.
- Additional information. See online version of the report for details.

Name	Version
Application Client for WebSphere Application Server	8.0
Application Client for WebSphere Application Server	8.5
CICS Transaction Gateway Desktop Edition	8.1 9.0
CICS Transaction Gateway for Multiplatforms	8.1 9.0
CICS Transaction Gateway for z/OS	8.1 9.0
Case Manager	5.1
Communications Server for Linux	6.2.3 V6.4

Summary & More Information

- Linux on z is ***Hot!***
  - Companies WW have made the move
- Major $ Total Cost of Operations savings with Linux on z vs. server sprawl
- All the latest technologies available
  - BA
  - Cloud
  - Mobile
  - Social
  - ISV Solutions

- More information
  - **Linux on z**
  - **BA on z**
  - **Cloud on z**
  - **Mobile on z**
  - **Social on z**
  - **ISV Solutions on z**

System z Social Media Channels

- Top Facebook pages related to System z:
  - IBM System z
  - IBM Academic Initiative System z
  - IBM Master the Mainframe Contest
  - IBM Destination z
  - Millennial Mainframer
  - IBM Smarter Computing
- Top LinkedIn groups related to System z:
  - System z Advocates
  - SAP on System z
  - IBM Mainframe- Unofficial Group
  - IBM System z Events
  - Mainframe Experts Network
  - System z Linux
  - Enterprise Systems
  - Mainframe Security Gurus
- Twitter profiles related to System z:
  - IBM System z
  - IBM System z Events
  - IBM DB2 on System z
  - Millennial Mainframer
  - Destination z
  - IBM Smarter Computing
- YouTube accounts related to System z:
  - IBM System z
  - Destination z
  - IBM Smarter Computing
- Top System z blogs to check out:
  - Mainframe Insights
  - Smarter Computing
  - Millennial Mainframer
  - Mainframe & Hybrid Computing
  - The Mainframe Blog
  - Mainframe Watch Belgium
  - Mainframe Update
  - Enterprise Systems Media Blog
  - Dancing Dinosaur
  - DB2 for z/OS
  - IBM Destination z
  - DB2utor