

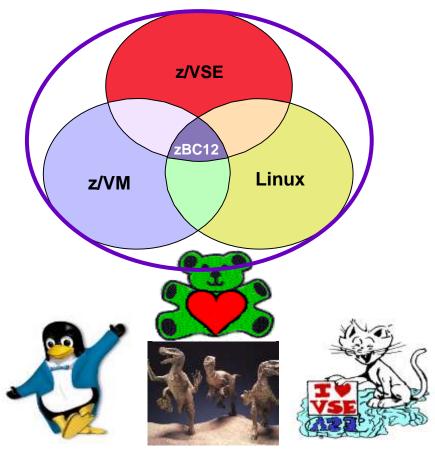
Customer solutions with zVSE Connectors



Wilhelm Mild Executive IT Architect Integration solutions for Mobile, System z and Linux IBM Germany

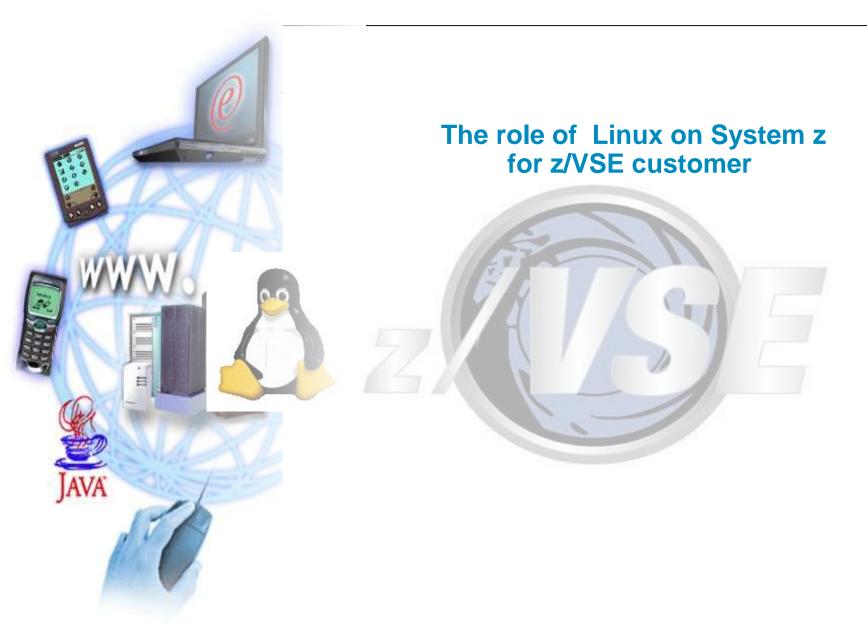
Exploiting the Symbiosis with all Worlds on System z

Symbiosis – is an interaction of systems where the relationship is beneficial to all partners !



- z/VSE
 - -Protect core IT investments
 - -Cost-effective solutions
 - -Interoperability with other servers
- Linux on System z
 - Large portfolio of new applications
 - -Platform for IBM middleware
 - -Infrastructure Simplification
 - -Massive scalability
- z/VM
 - -Highly flexible, advanced virtualization
 - -Multiple images of z/VSE and Linux
 - -Designed to exploit z Systems

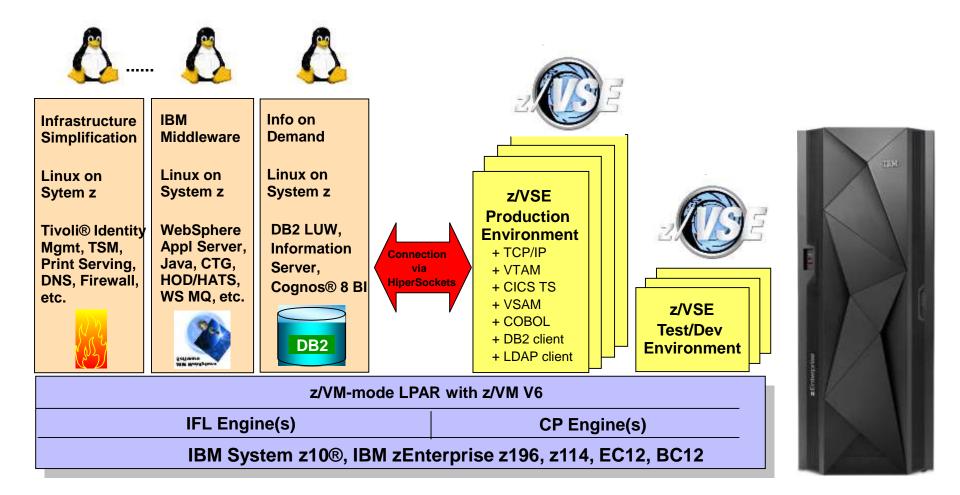






z/VSE Strategy with Linux on System z

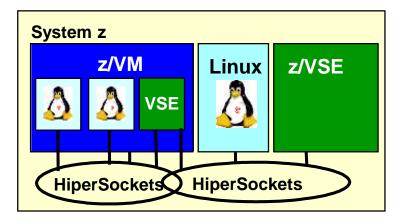
Hybrid Environment leveraging z/VSE, z/VM, and Linux on System z

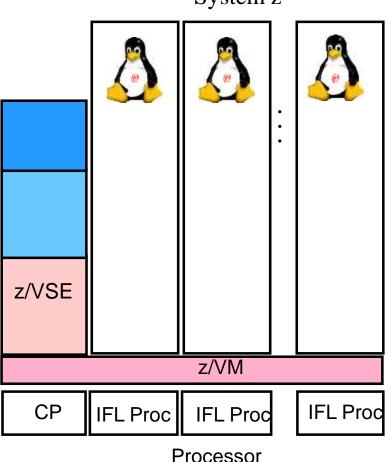


Options with a z Systems machine

- Traditional Processor (CP) size is dependent on customer needs
- An IFL processor is always full speed
- No traditional operating system running on IFL - only z/VM and Linux on System z
- It's easy to upgrade or downgrade

HiperSockets – The network in the box





System z



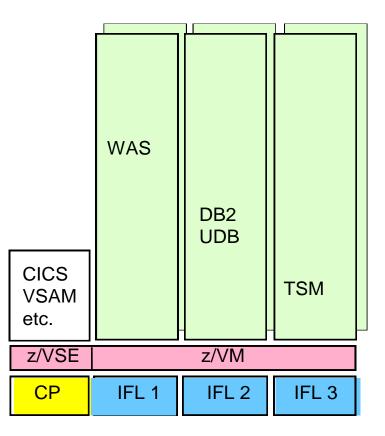
Linux on System z – Advantages for VSE Customers

- New Linux applications from Vendors (ISV) and open source

 Linux on system z to exploit 64-bit capabilities
 - Complement 31-bit core VSE applications
- New solutions with IBM Middleware based on Linux on System z
 - WebSphere Application Server
 - Modern Data management (i.e. DB2 UDB)
 - Mailing system with Lotus[®] Domino[™]
 - Network simplification with Communications Server
 - Advanced application development tools

Integrate Linux technology and VSE solutions

- Use Linux to access VSE applications and data
- Infrastructure simplification to help reduce cost
 - Possible TCO benefits with Linux
 - NO increase in VSE License Costs
 - Consolidation of existing distributed servers to Linux on System z



System z



Extending z/VSE with Linux on System z z/OS

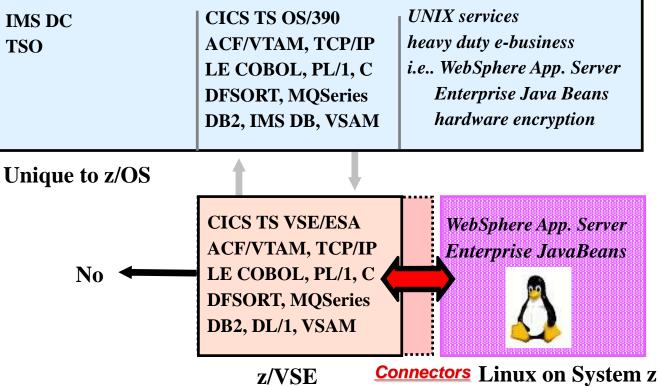
 Parallel Sysplex

 Parallel Sysplex

 Systems Mgmt, Capacity (incl. 64-bit), Availability

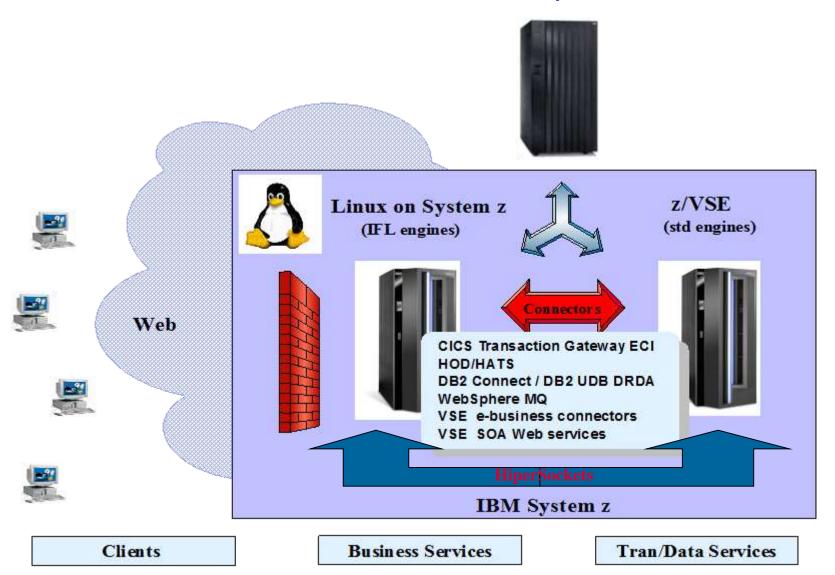
 DC
 CICS TS OS/390
 UNIX services

 ACF/VTAM, TCP/IP
 heavy duty e-business
 i.e.. WebSphere App. Serv

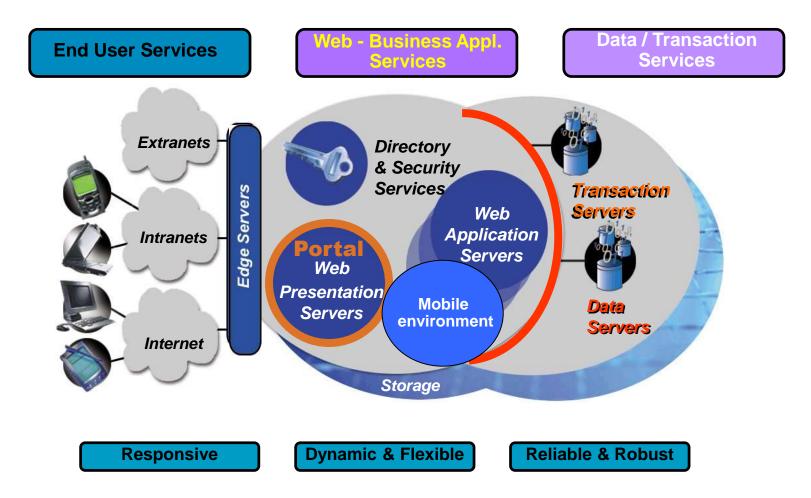




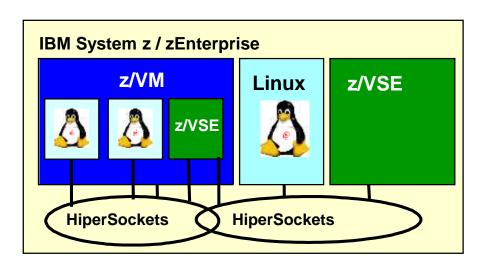
Think *inside* the box – with Linux on System z



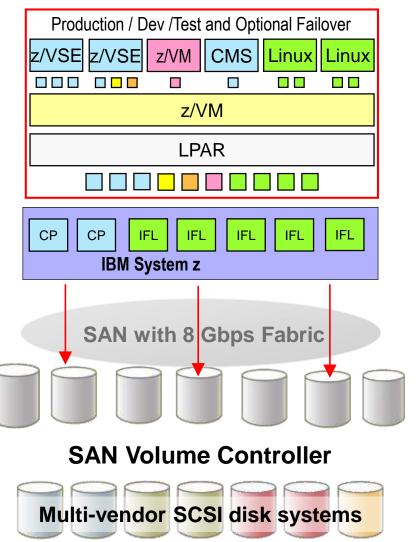
Infrastructure matters



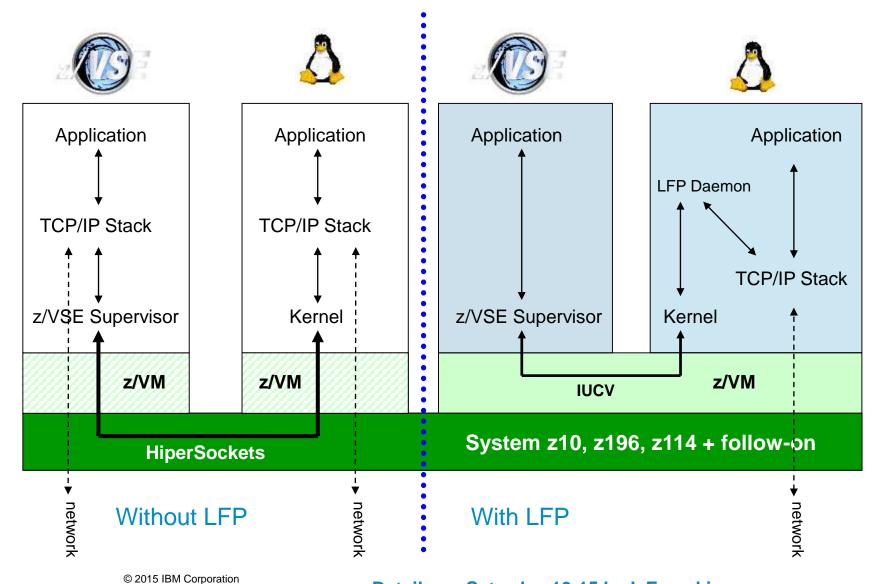
Global Virtualization – with System z and z/VSE



- Network Virtualization
- Memory Virtualization
- Processor Virtualization
- System Virtualization
- Disk Virtualization



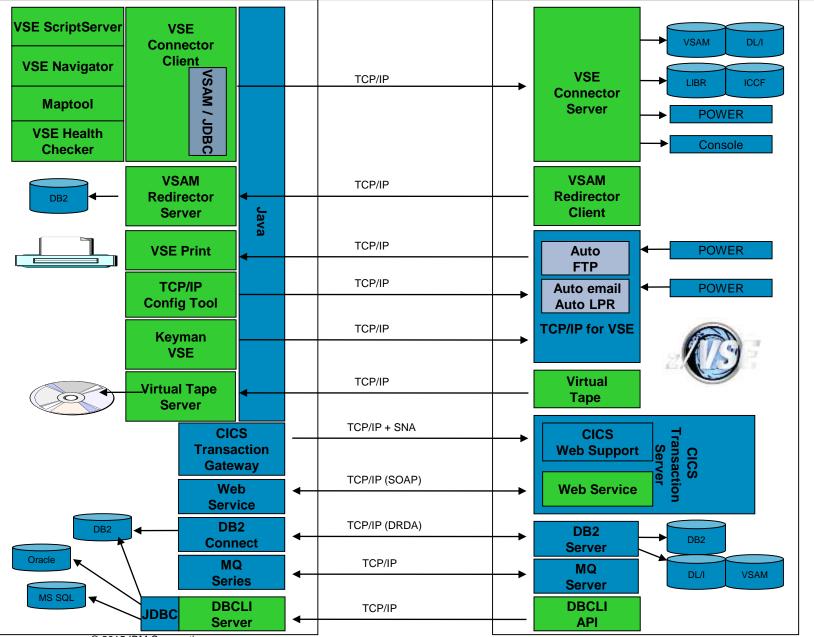
Linux Fast Path in a z/VM-mode LPAR - Supported by z/VSE V4.3 + Faster communication between z/VSE and Linux applications under z/VM



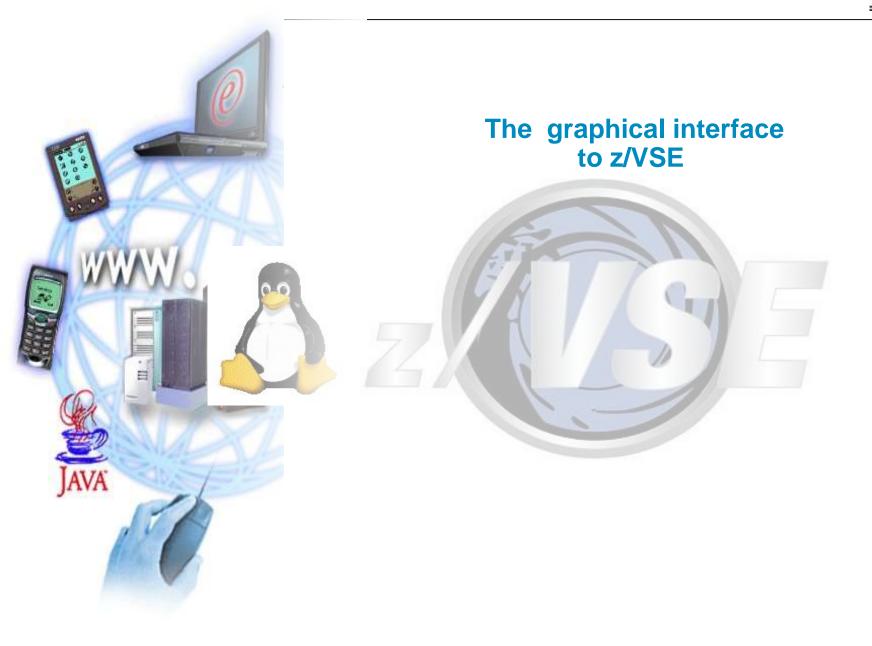
Details on Saturday 10:15 by I. Franzki

Integration of z/VSE using IBM Middleware & Connectors



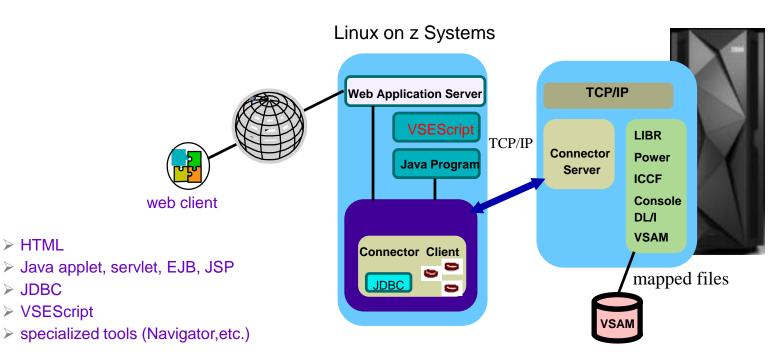






Real time access to VSE resources using the Java–Based Connector (feature included in z/VSE)

z/VSE



real time access to VSE resources from remote systems
new possibilities for leveraging the VSE investment



z/VSE Navigator: Windows-like VSE Interface

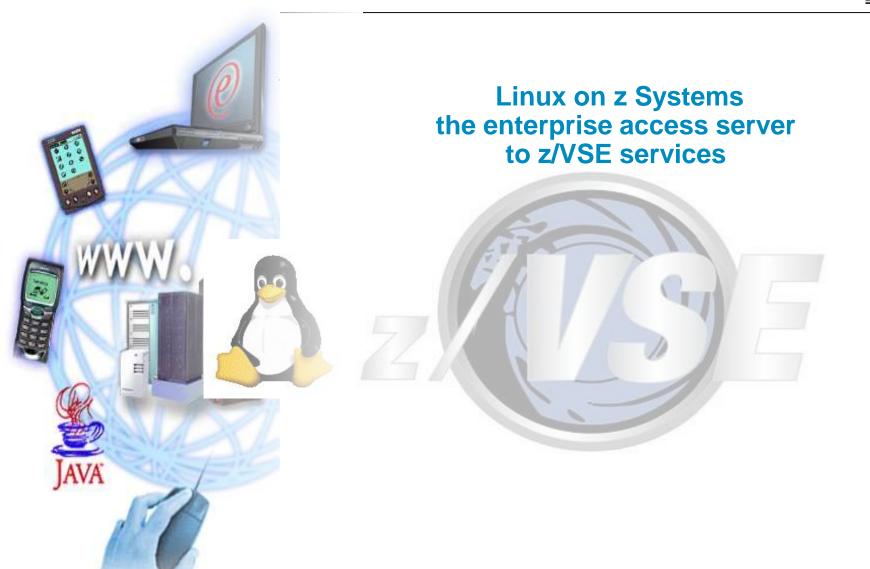
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z/VSE Navigator: Windows-like VSE Interface

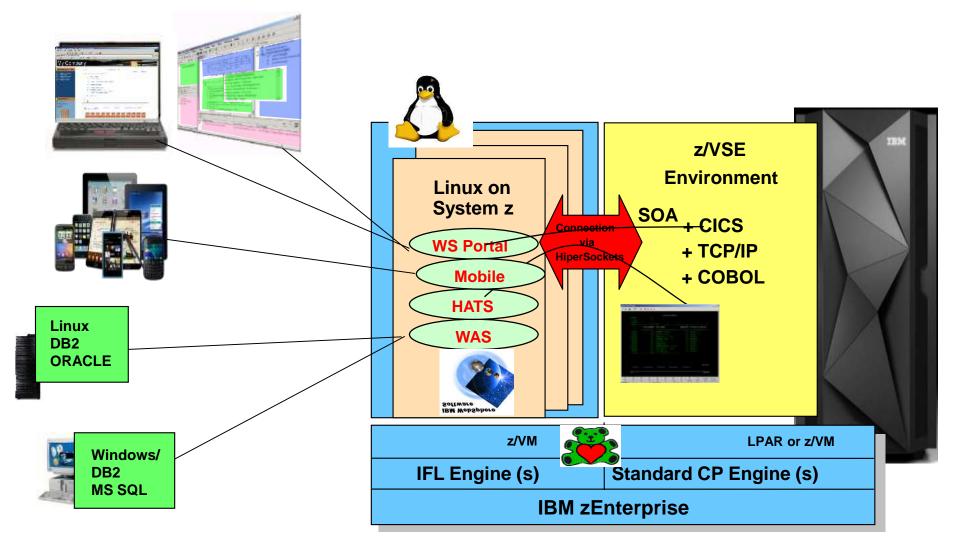
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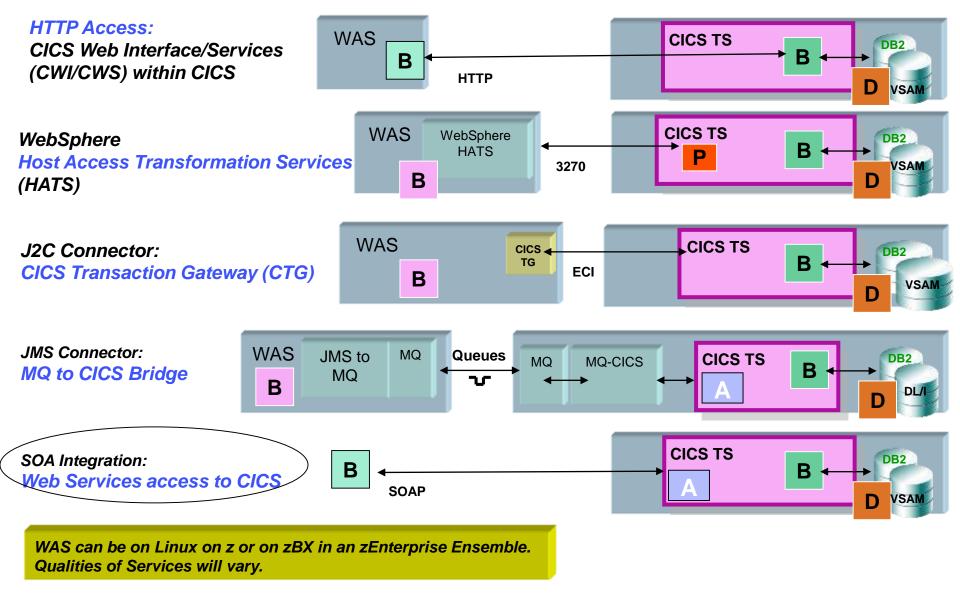
Linux on System z as Central Access Point

Web enable, improve interface, simplify, extend existing applications





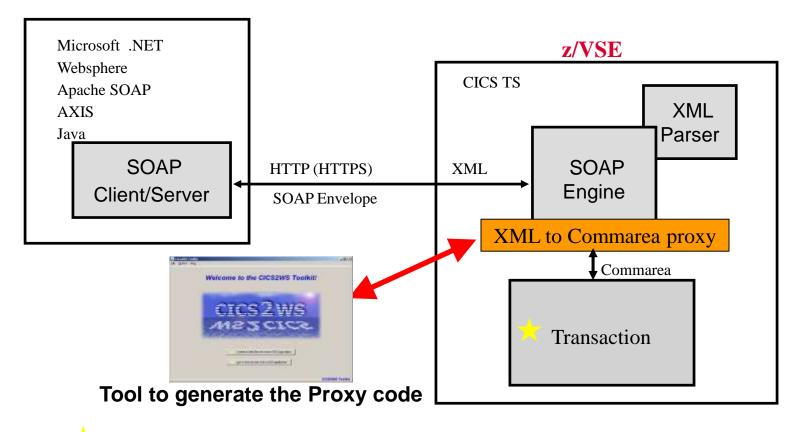
Connectivity to CICS transactions





Web Services with z/VSE

SOA and XML data interchange with CICS transactions in VSE



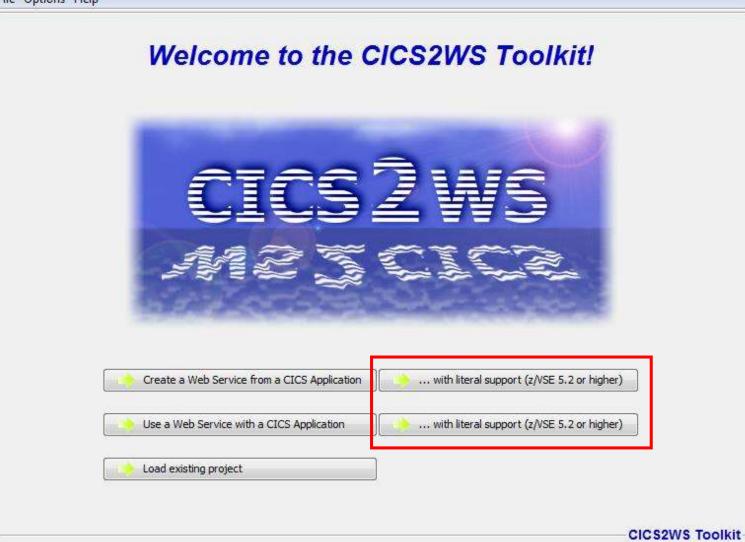
Existing VSE Transactions as Web Service

Existing Transactions can call a remote Web Service



z/VSE 5.2: CICS2WS Tool

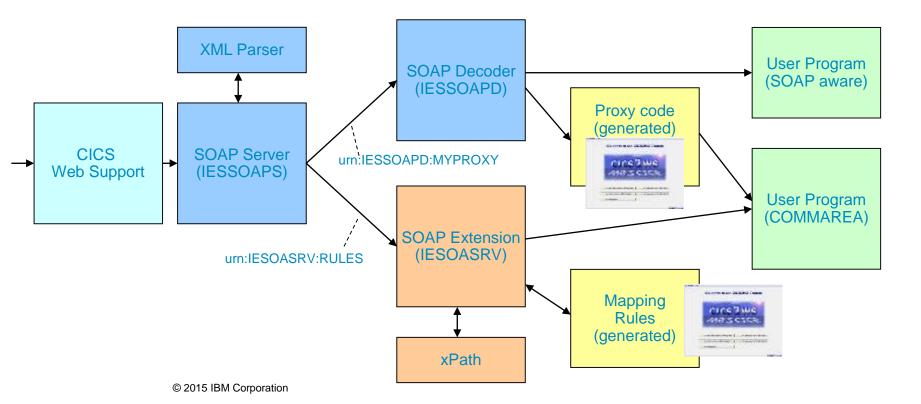
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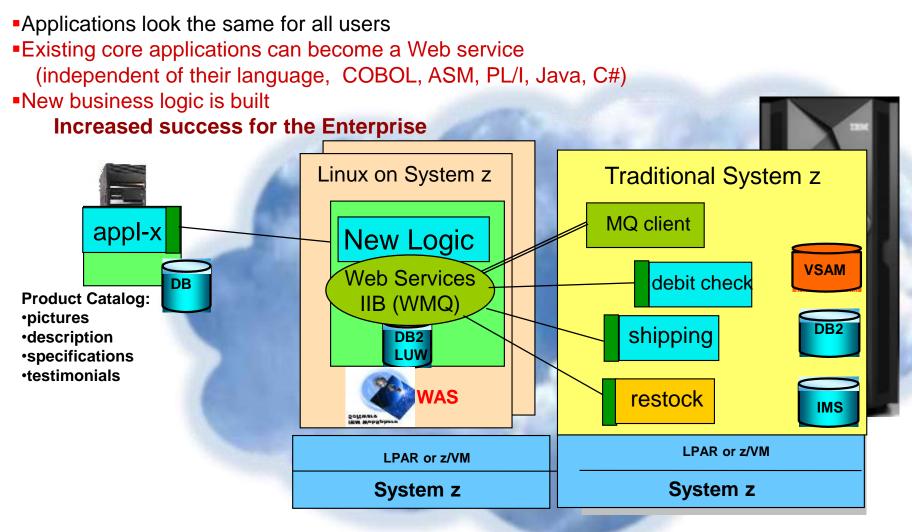
z/VSE 5.2: Web Services (SOAP) enhancements

- z/VSE V5.2 is designed support the literal encoding style, in addition to the already supported SOAP-encoding style
 - RPC-type Web Services using encoded style
 - New: RPC-type Web Services using literal style
 - Arrays/Lists support
 - · Better support for data types conversion





Service Oriented Architecture (SOA) – the way to new solutions

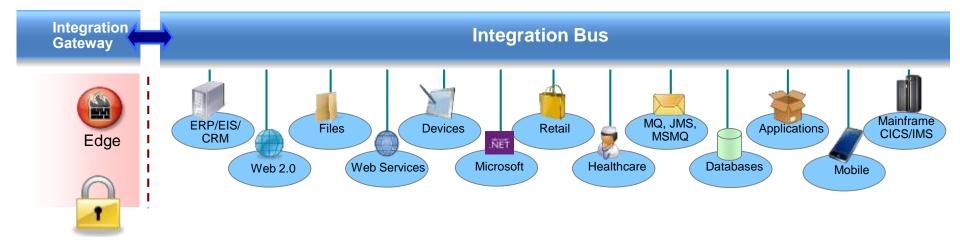


Integration of Processes



Integrate through IBM Integration Bus

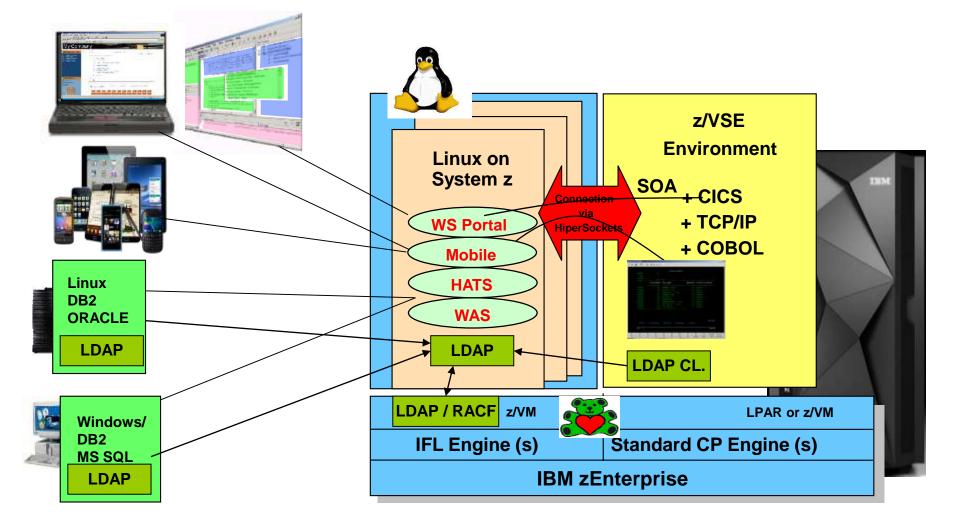
- IBM's strategic enterprise integration technology
 - Single engineered product for .NET, Java and fully heterogeneous integration scenarios
 - DataPower continues to evolve for integration gateway use-cases



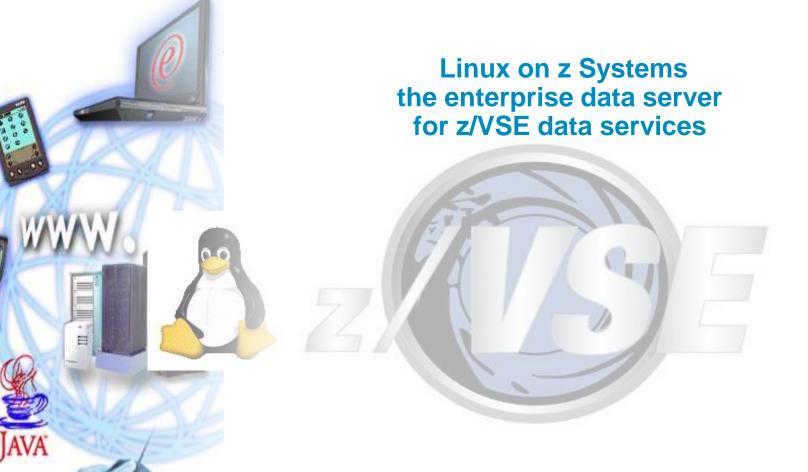
- IBM Integration Bus is the new name for WebSphere Message Broker
 - Technology progression over 15 years, installed at 2500+ customers worldwide across all industries
 - Fully supported worldwide by IBM global support network, standard 5 + 3 years support policy
 - Version to version migration is key design consideration
 - Global skills availability SME's available globally via IBM and partners
 - Close interaction with growing and loyal customer base: beta and lab advocacy programs
 - Also incorporates WebSphere ESB use-cases

Central Authentication Options – LDAP in Linux or LDAP/RACF in z/VM

Single sign on, Web enable, improve interface, simplify, extend existing applications



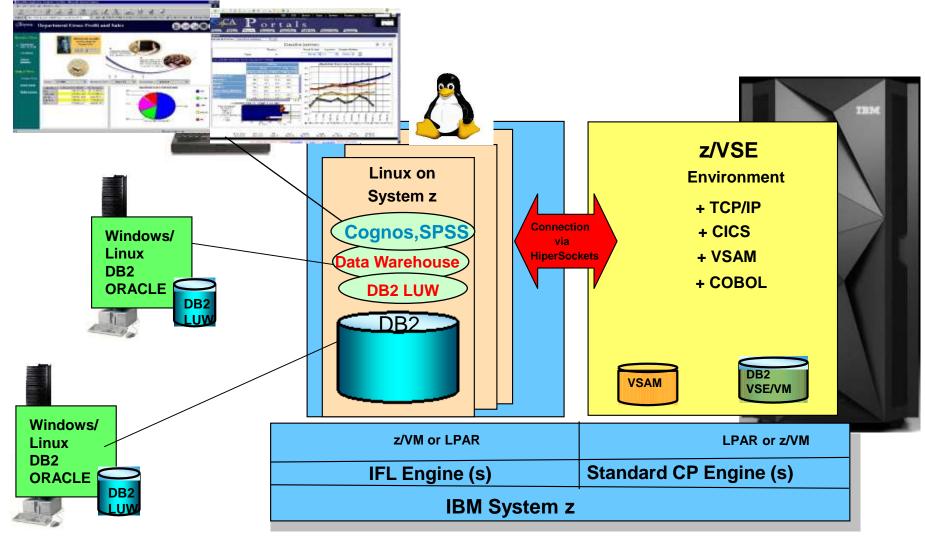






Analytics, Data Warehouse and BI with Linux on System z

Consolidate, Integrate, Evaluate - DB2 Client, VSAM Redirector

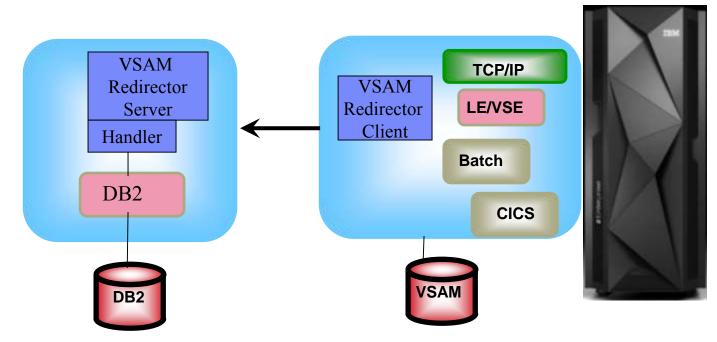


scenario.

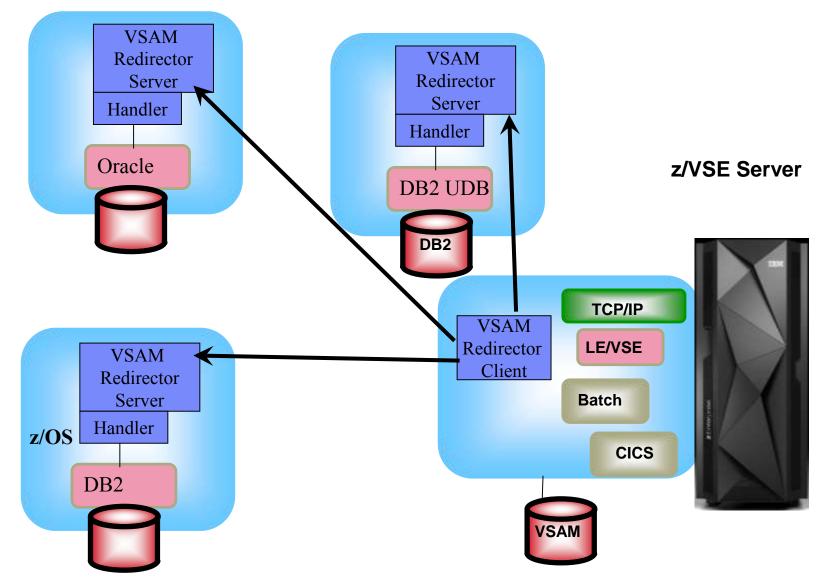
z/VSE Server

(B)PUSH scenario: VSE/VSAM applications, push / access remote relational databases

- (1) Real time access VSAM to relational databases
 - a) synchronization (two phase commit of VSAM and DB2)
 - b) Real time access to DB2 (no VSAM access anymore)
- (2) VSE local data collection for VSAM
 - a) Capture Exit and Incremental Apply processing
 - b) MQ Exit and MQ Series solutions



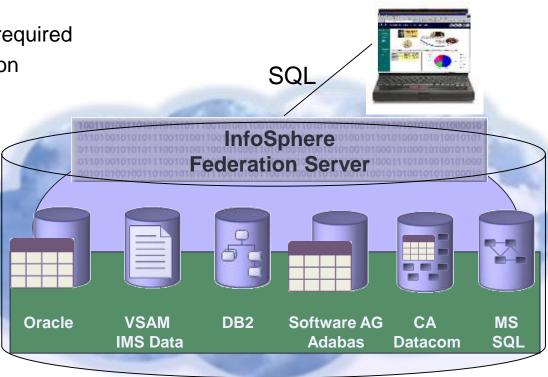
VSE/VSAM applications, access remote relational databases



TBM

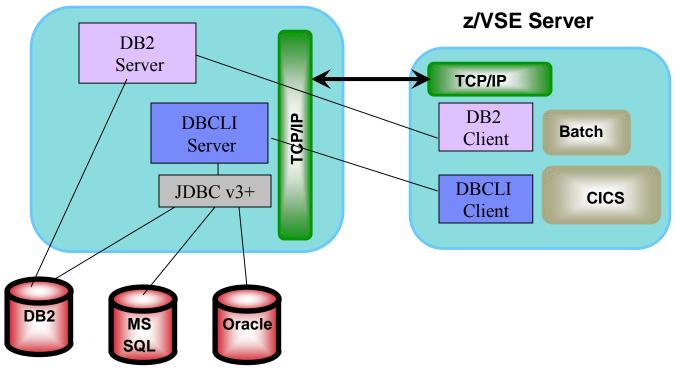
InfoSphere Federation Server on Linux on System z

- Integrating at the data layer Federation of data
 - Read from and write to federated mainframe data sources using SQL
 - Standards-based access via JDBC, ODBC, or Call Level Interface
 - Including for mainframe VSAM data and flat files
 - Multithreaded with native drivers for scalable performance
 - Metadata-driven means...
 - No mainframe programming required
 - Fast installation & configuration
 - Ease of maintenance
 - Works with existing and new...
 - Mainframe infrastructure
 - Application infrastructure
 - Toolsets



Applications on z/VSE access 'any' remote relational databases

- Real time access to Relational databases
 - two different ways from batch and CICS
 - Access based on z/VSE DBCLI interface AND / OR DB2 Client



Java Server





http://www-03.ibm.com/systems/z/os/zvse/documentation/documents.html#articles

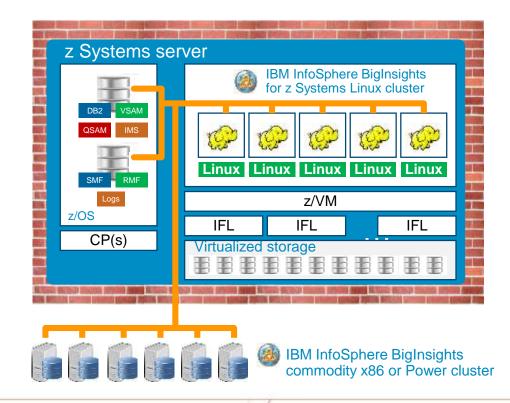
Hadoop technology with z/VSE data: IBM InfoSphere BigInsights for Linux on z Systems New ways of thinking, transformative economics

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

New

IBM InfoSphere[®] System z Connector for Hadoop

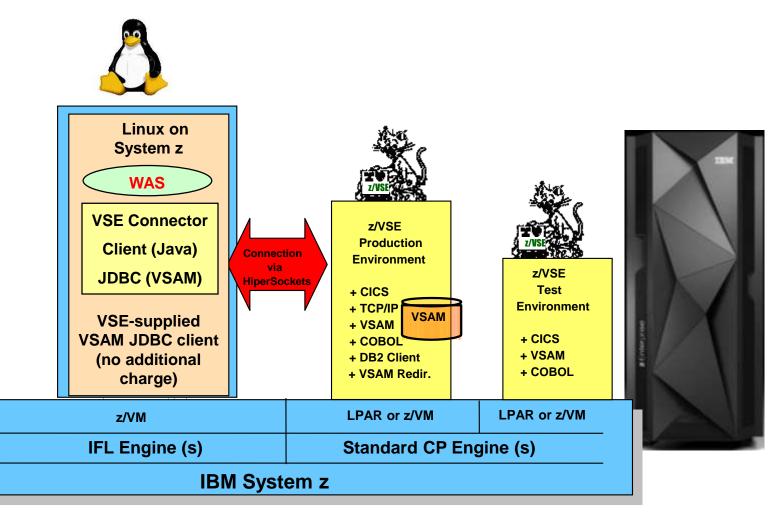
Fast and seamless data connectivity between a variety of mainframe data sources and IBM InfoSphere BigInsights





Leverage z/VSE data and resources from Java

Leverage VSE/VSAM data using VSAM Connectors on Linux on System z



Multi-tier Mobile Apps – THE Trend in Industry



The Mobile-specific challenges are mainly:

1. Dealing with the specific issues in the Mobile Client tier

2.And subsequently **coordinating separate pipelines** for each tier:

- Mobile Client
- Middleware
- Back-end data and services

Provisioning rules and

Dependent upon backend

Curated App Stores

service versions

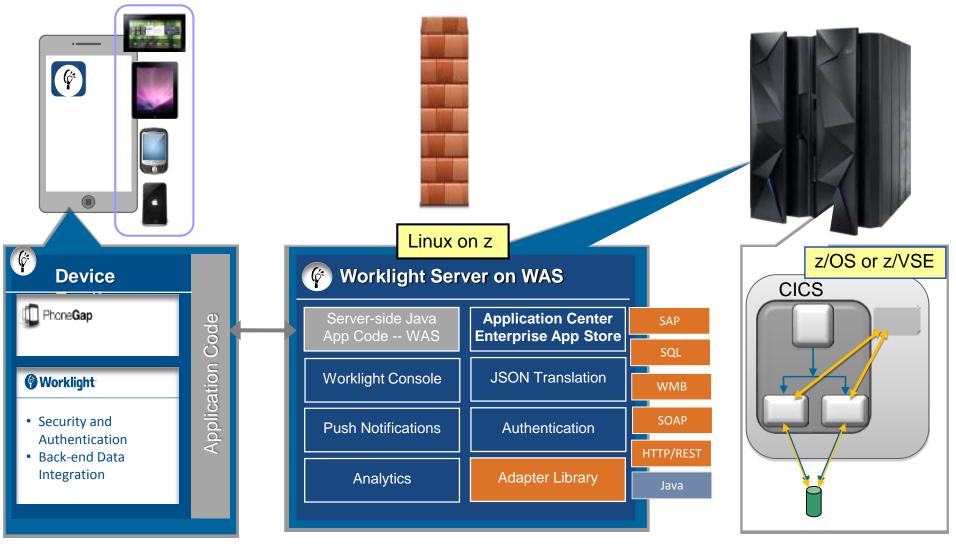
artifacts

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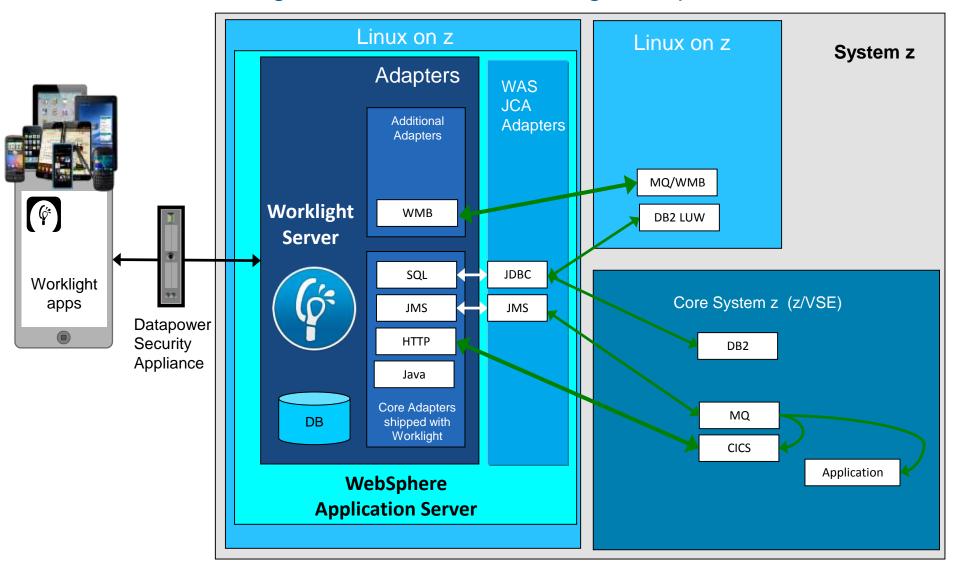
IBM Worklight Server - Architecture on Linux on System z



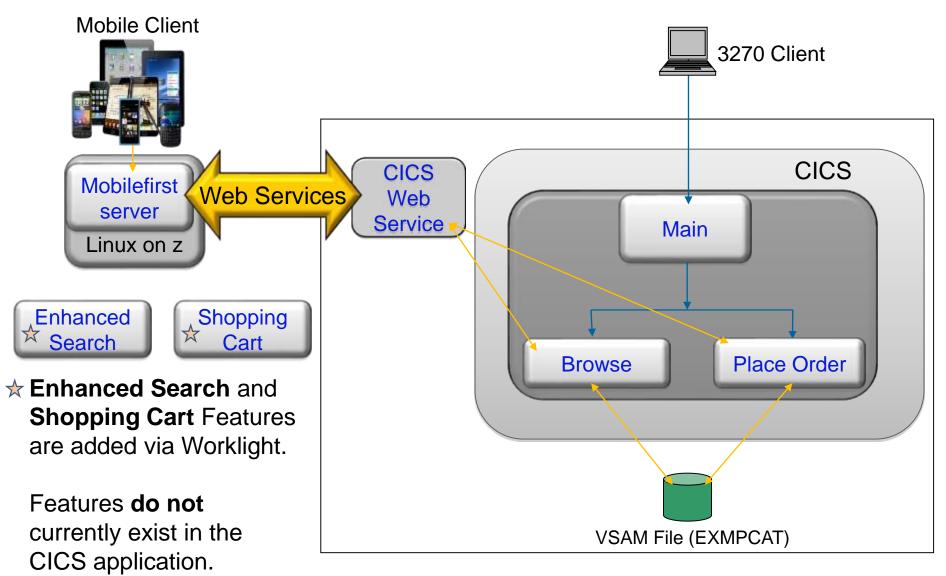
Worklight Video: http://www.youtube.com/watch?feature=player_embedded&v=zHnFw70XXXo

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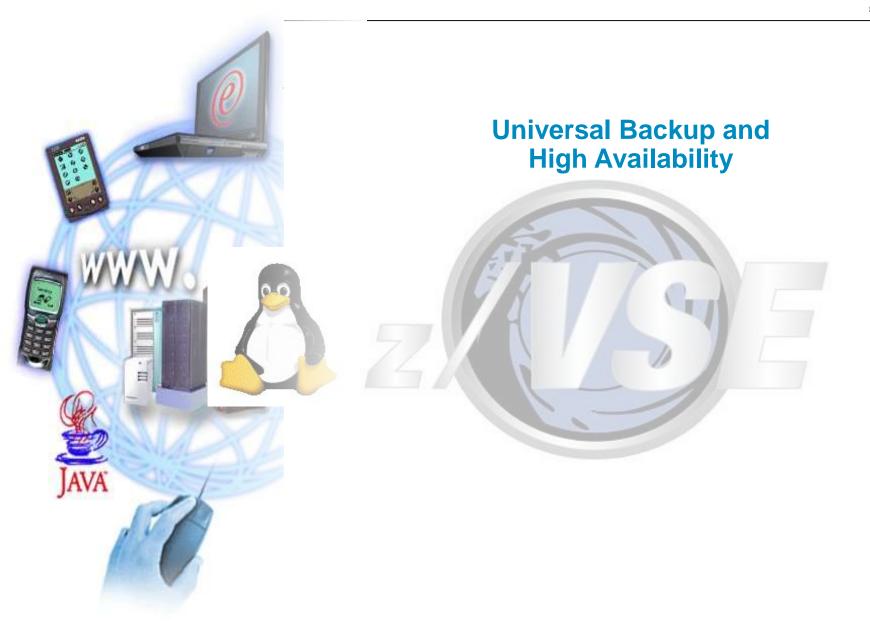
Implementation of a Mobile environment on System z - Functional diagram with WAS and Worklight Adapters



IBM MobileFirst modernizes CICS Service with Mobile App

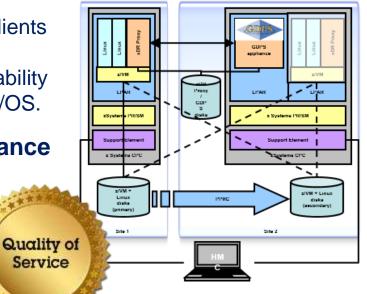






High Availability with IBM GDPS appliance for Linux on z Systems

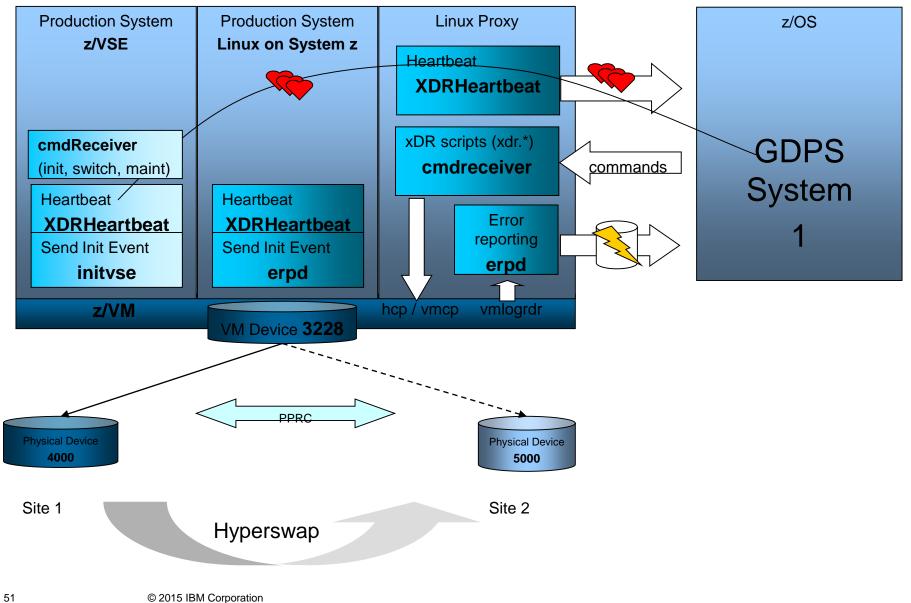
- The IBM GDPS appliance for Linux on z Systems will provide high availability in case of system, application or network failure
- In the first half of 2015, IBM intends to deliver a GDPS/Peer to Peer Remote Copy (GDPS/PPRC) multiplatform resiliency capability for customers who do not run the IBM z/OS 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.





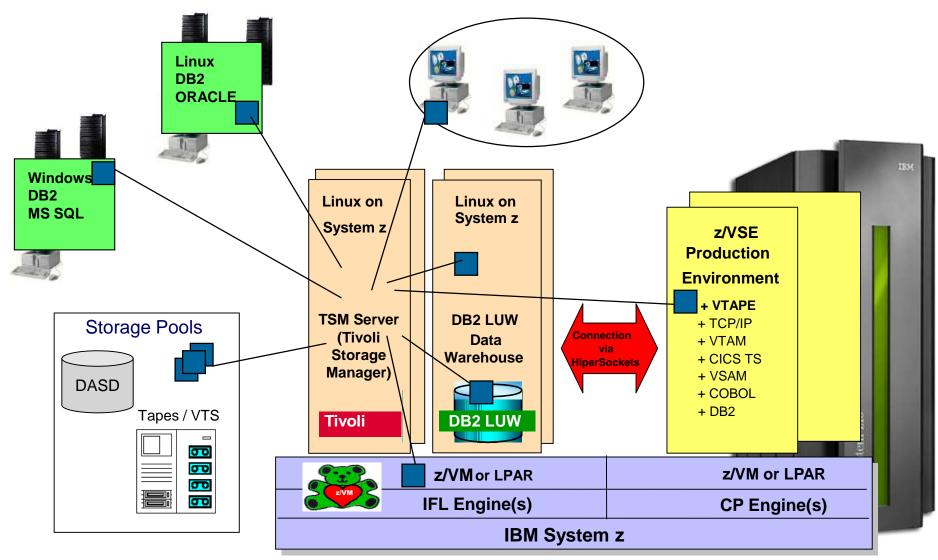
IBM

xDR Support for z/VSE as active guest under z/VM – with GDPS



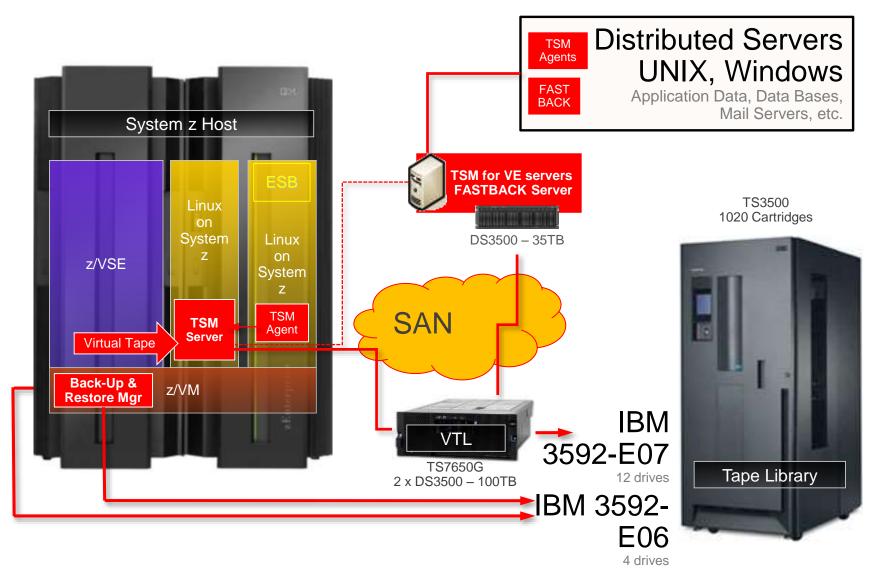


Implement TSM on Linux on System z as central Backup Hub for the enterprise

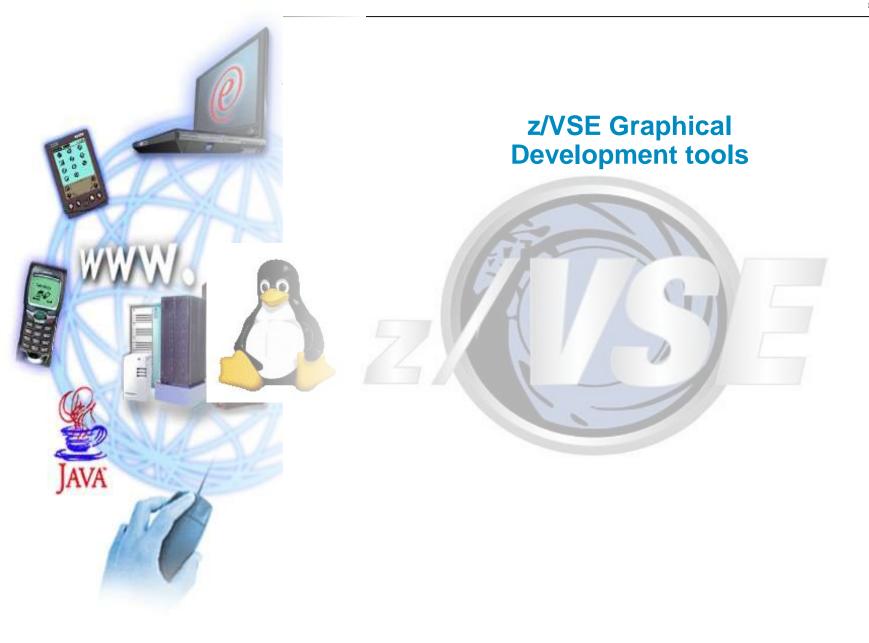




SA Bank with Linux on System z as a Backup Hup

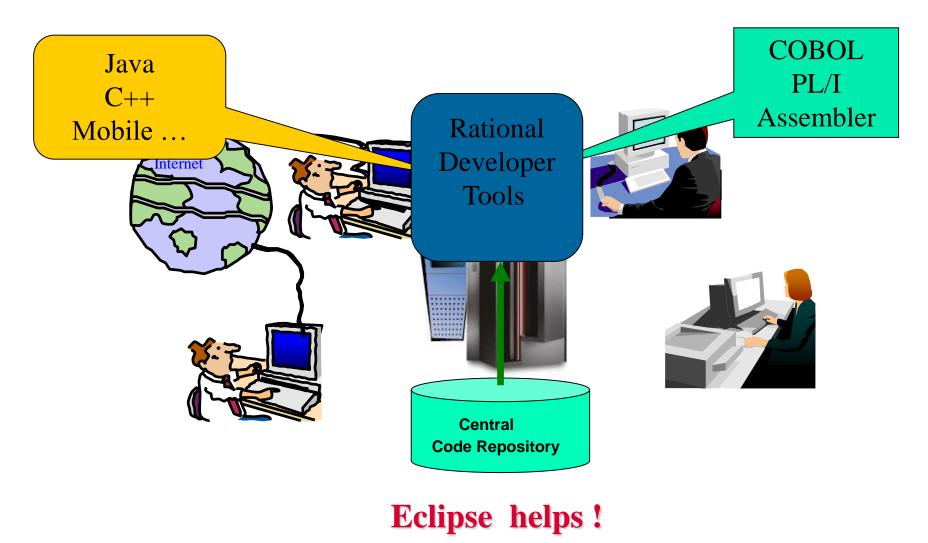




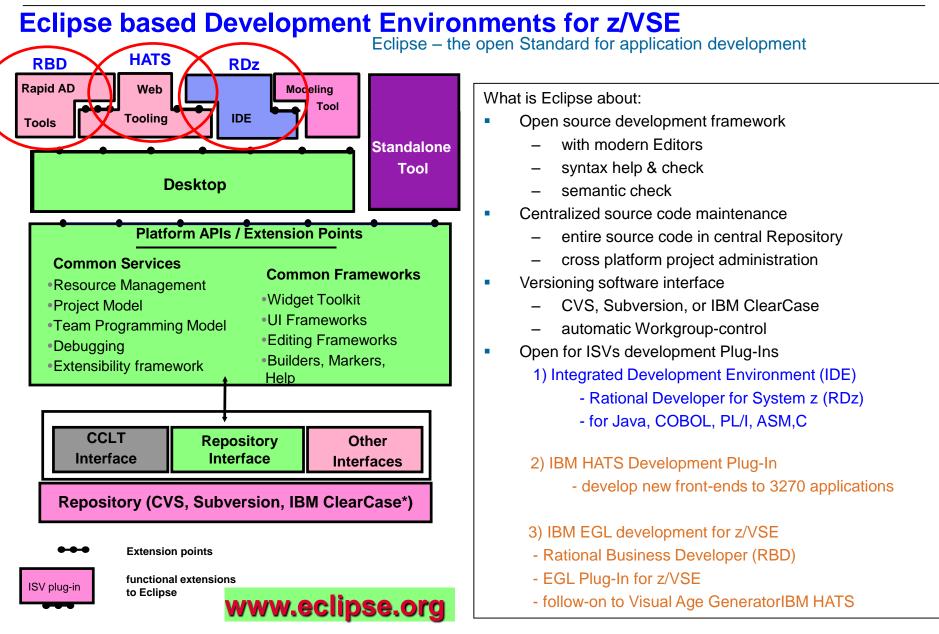




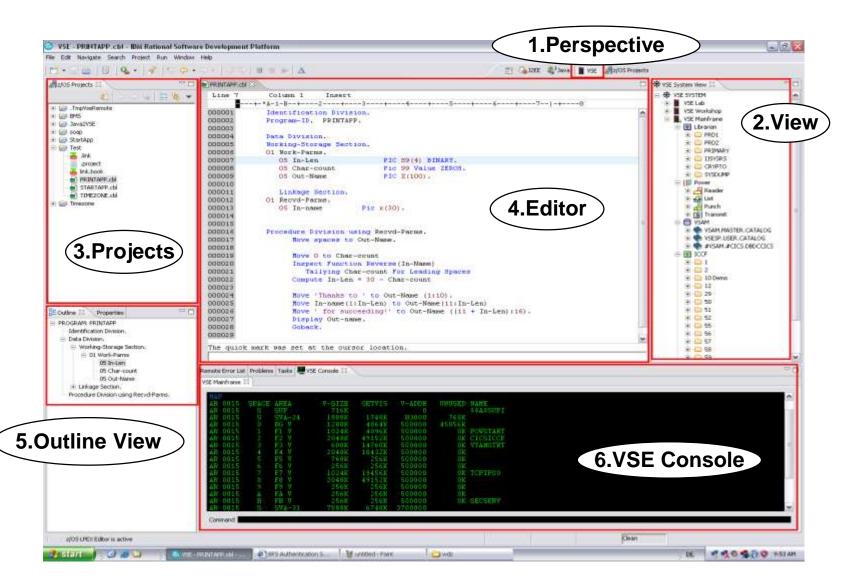
'Common' development Environment...



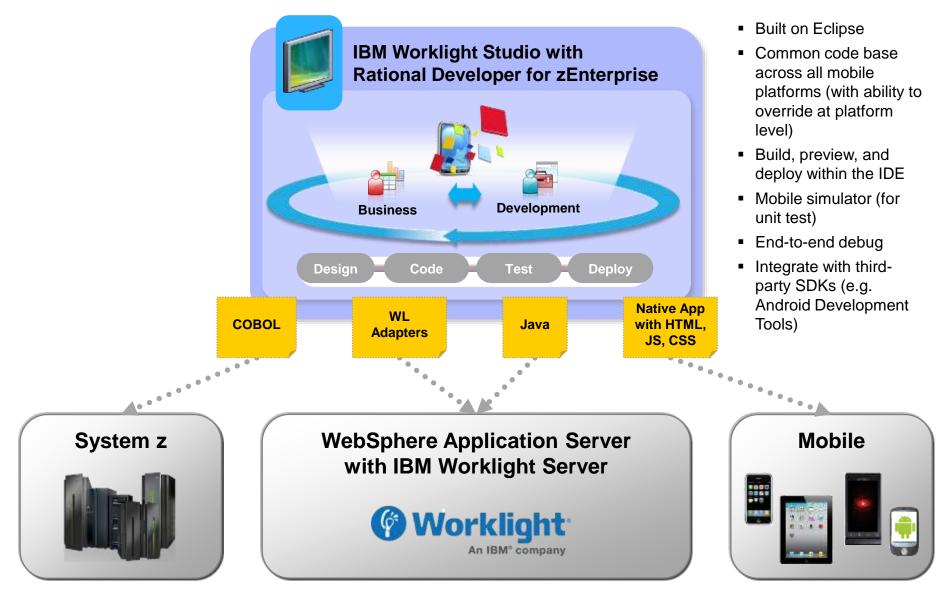




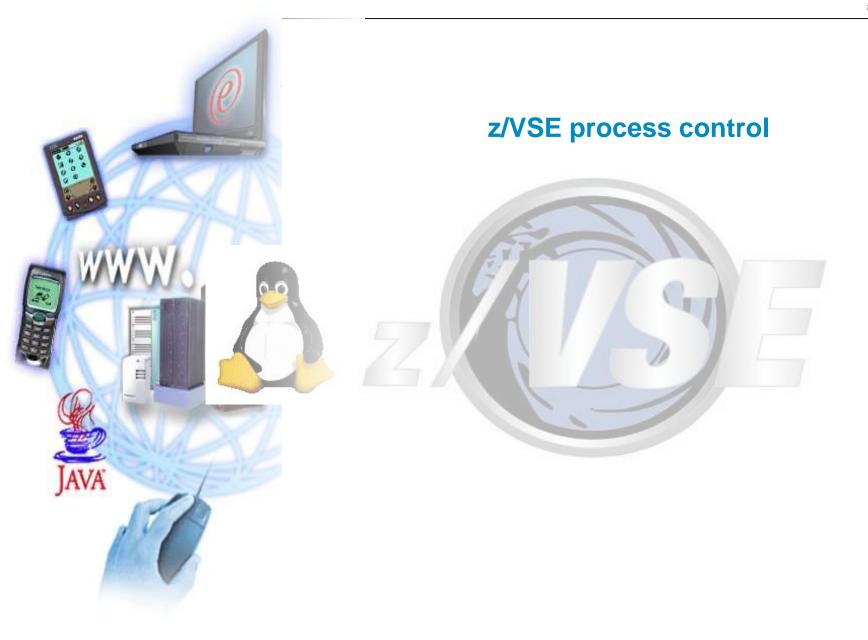
IBM Rational Developer for system z - the z/VSE Perspective

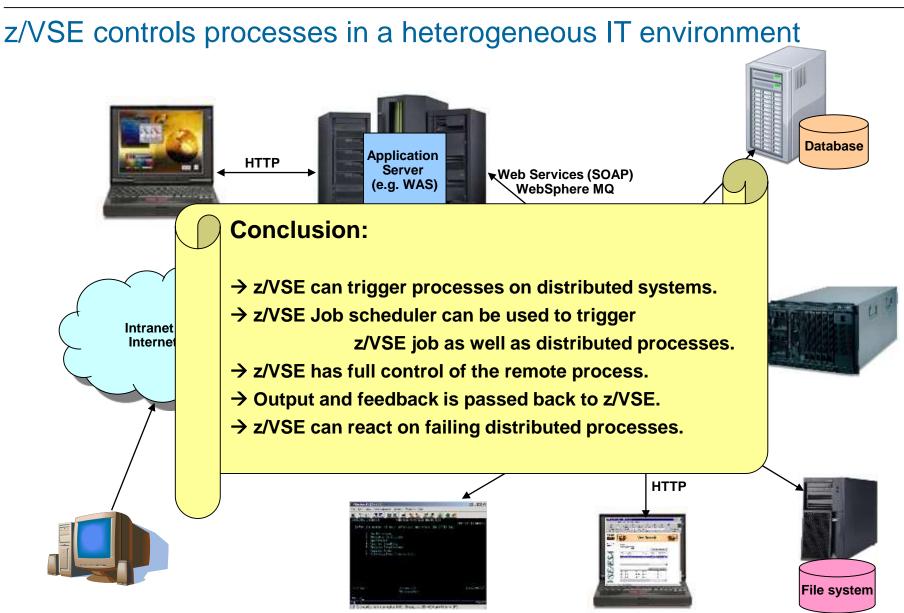


Development for IBM Worklight on System z

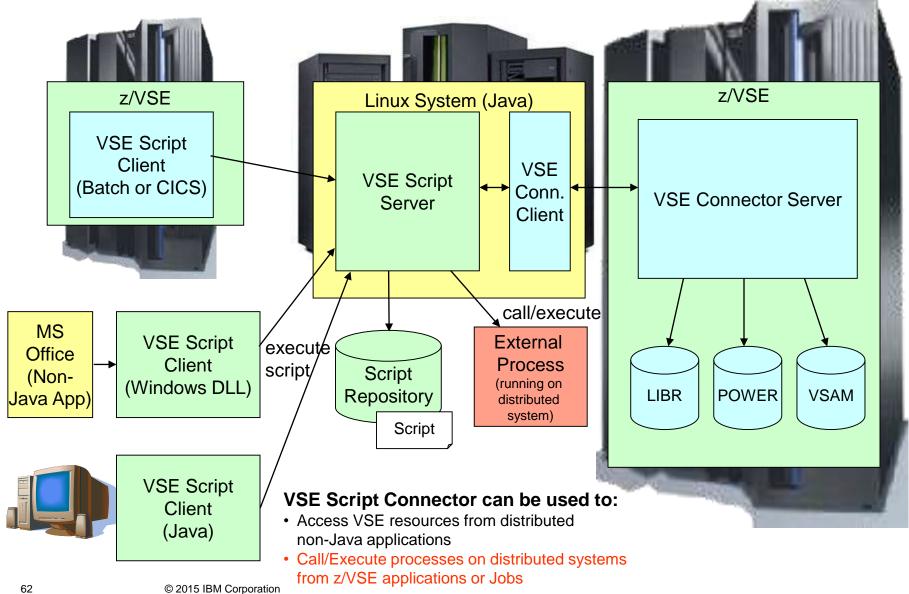




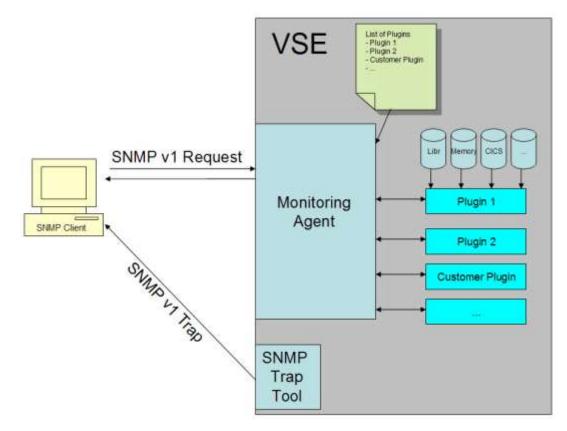




VSE Script Connector



z/VSE Monitoring interface enhancements



- Monitoring Agent based on SNMP V1
 - Real time monitoring
 - retrieve z/VSE specific system and performance data
 - Event driven monitoring using SNMP Traps

• In z/VSE 5.1 a Trap API was introduced to the Trap Tool

System Plugi

CPU Plugin

/endor Plugin

z/VSE

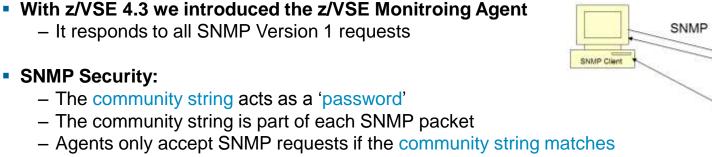
SNMP

Agent

SNMP Trap

Client

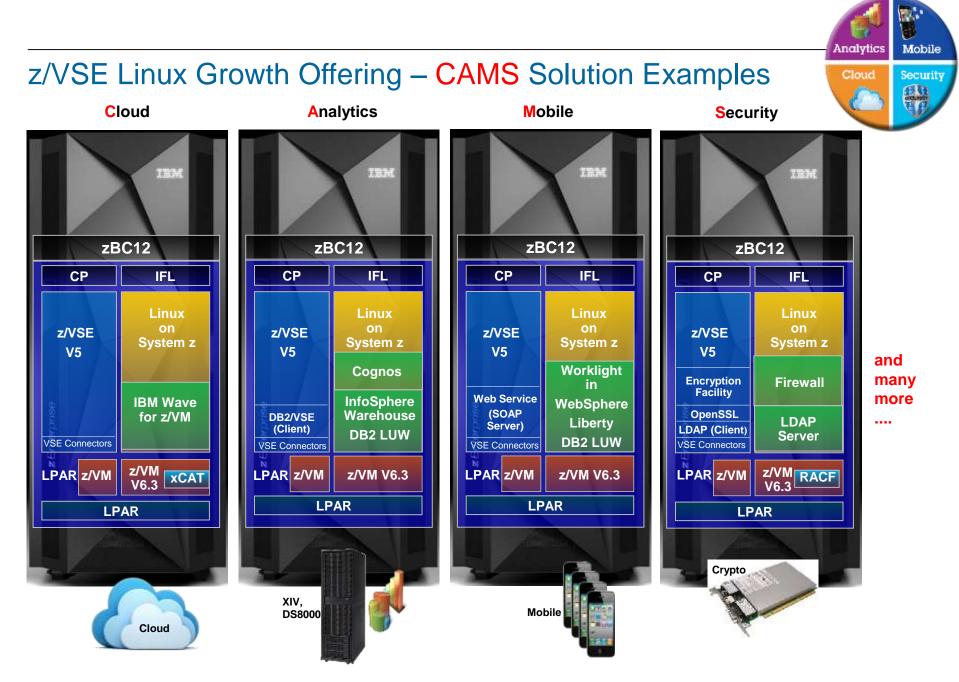
z/VSE 5.2: z/VSE SNMP Monitoring Agent enhancements



- SNMP protocol is not encrypted, the community string visible each packet
- To enhance the security of the z/VSE Monitoring Agent, an IP filter has been added:
 - Only if the source IP of an incoming packet matches a rule set the packet will be processed
- Example:

* ALLOWED IPS (IP FILTER)	
* WHEN AT LEAST ONE IP IS SPECIFIED HERE, THE MONITORING AGENT WILL	
* ONLY ALLOW CONNECTIONS FROM THE ALLOWED IPS AND DISCARD CONNECTIONS	
* FROM IPS, WHICH ARE NOT SPECIFIED HERE	
* (ATTENTION: IF YOU SPECIFY IPV6 ADDRESSES, YOU HAVE TO USE THE LONG	
* FORM)	
ALLOWEDIP = $'192.168.1.5'$	
ALLOWEDIP = '192.168.?.9'	
ALLOWEDIP = $'10.0.0.*'$	
ALLOWEDIP = $'2001:0db8:0000:09d3:0000:8a2e:0070:7342'$	
ALLOWEDIP = $'2001:0db8:0000:0000:8a2e:*'$	





z/VSE customers with Linux on System z, - in a variety of industries

- Fashion
- Financial Institutes / Banks / Insurance
- Hotel chain / Vacation clubs
- Health institutes/ Hospitals
- Public Sector / County
- Payroll accounting
- Whole Sale Home Articles, Pharma, Car parts
- Grocery
- Furniture manufacturing
- Horse Racing Bets
- Church administration
- Bakery
- National Sport clubs



America First Credit Union

Building a thriving member base on next-generation infrastructure

25% cost saving by consolidating Linux environment

Simplifies licensing

to provide a transparent cost structure for software

More processing power

within smaller footprint, supporting growth

Solution components

Software

- IBM z/VSE®
- IBM DB2® for Linux, UNIX and Windows
- IBM Tivoli®
- IBM WebSphere®

Hardware

- IBM® zEnterprise® EC12
- IBM Power Systems™
- IBM XIV® and IBM System Storage®

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The transformation: AFCU wanted to tackle escalating transaction volumes before they ran the risk of limiting its growth. By dramatically increasing processing power within a higher-density footprint, the organization gained headroom for future expansion without sending costs spiraling.

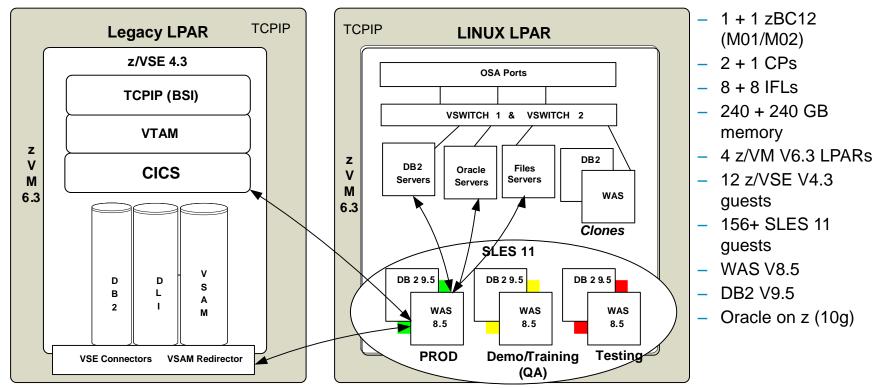
"IBM is helping us stay ahead of the curve."

—Scott Ellis, Senior IS Manager of Information Systems and Data Services, America First Credit Union





Supreme Court of Virginia



• 2x zBC12 (M01/M02), 1x production, 1x development

- Serves 325 courts, 5.000+ users (3.8 million new cases in 2013)
- Integrating z/VSE, DB2/UDB and WebSphere applications
- eMagistrate system serves 125 locations, 3100 trans per day
- eCommerce* applications integrating z/VSE and WebSphere appls
- *VJEFS- Virginia Judicial Electronic Filing System

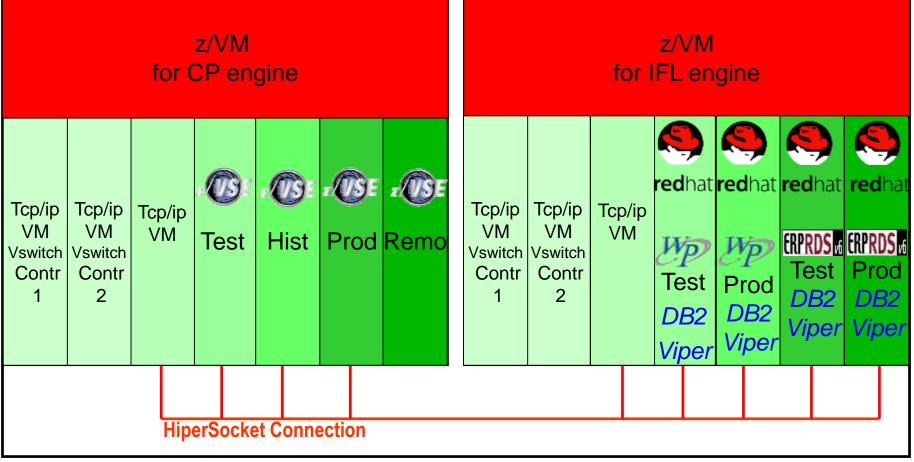
Winner of the Governor's 2013 Commonwealth Technology Award





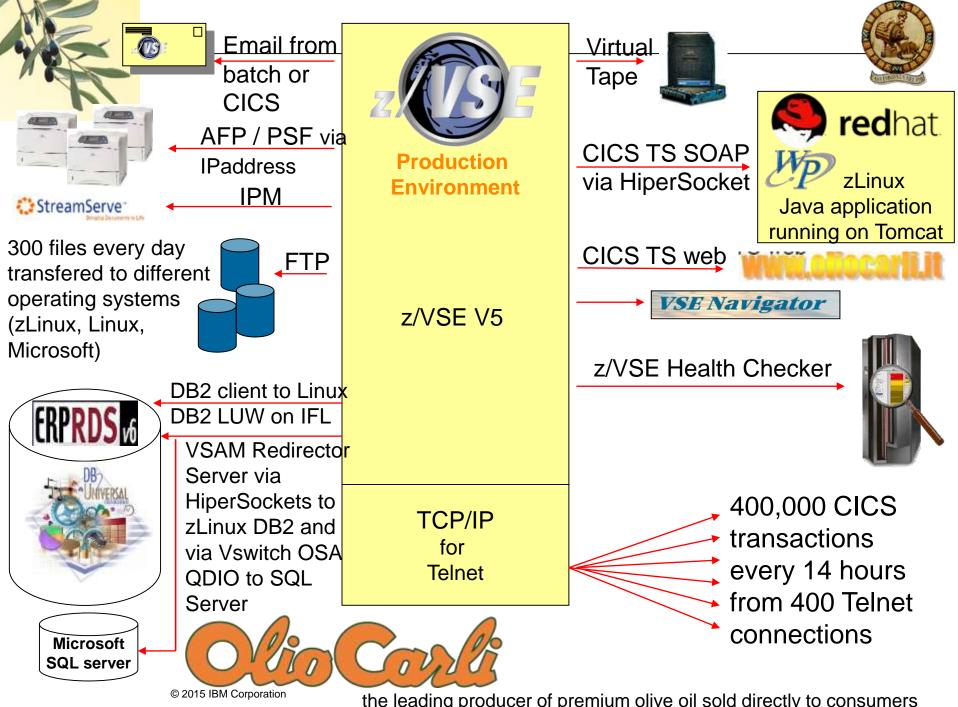
Customer Reference: Fratelli Carli, Italy

Internal Connections





the leading producers of premium olive oil sold directly to consumers



the leading producer of premium olive oil sold directly to consumers

AutoData Norge AS

Success Story



AutoData Norge AS

AutoData Norge AS runs SUSE. Linux Enterprise Server for System z* alongside z/VSE on an IBM* zEnterprise* z114 mainframe. The SUSE operating system provides a lower-cost and more flexible platform for creating new web-based applications, helping AutoData to expand its offerings in an efficient manner. Automotive Spare Parts Distributor AutoData Norge AS added SUSE[®] Linux Enterprise Server to existing IBM[®] mainframe running z/VSE[®] for IBM System z[®]

Reliable and flexible environment for serving customers

Reduced software maintenance cost by running new workloads on an Integrated Facility for Linux while keeping all licensed MIPS available for z/VSE

Combined

Reliability and long standing experience on z/VSE with Simplicity, support and agility of Linux on System z

"Everything we do is driven by our customers, and SUSE Linux Enterprise Server for System z allows us to be much more responsive to their needs., Stein Sandvold Chief Operating Officer AutoData Norge AS

www.suse.com/success/stories/autodata-norge-as.html



Is Cloud on System z Reality? - Yes It Is! - See



Zgodovina

Že več kot 17 let smo specializirani za ponudbo kakovostnih storitev informacijskih tehnologij.

Začetki našega delovanja segajo v računalniški center podjetja Impol in opravljanje računalniških storitev obdelave podatkov. Alcad d .o. o. smo ustanovili leta 1995 z željo zaposlenih, da bi poslovanje preseglo takratni okvir in omogočilo trženje čim bolj celovite ponudbe poslovnih aplikacij in računalniške opreme v slovenskem in širšem prostoru.

V podjetju je danes zaposlenih 26 sodelavcev, od tega se jih 17 ukvarja v razvojem aplikacij. Kadrovska sestava je dobra mešanica izkušenosti, znanja in prodorne mladosti, ki podjetju omogoča uspešno, učinkovito in smiselno uvajanje najnovejših tehnologij v poslovni proces stranke.

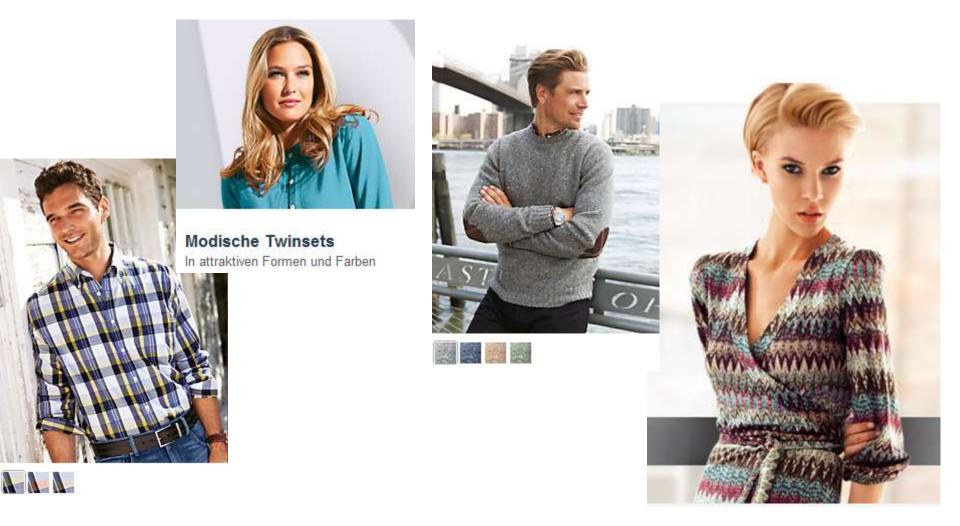
Mejniki:

- 2001 Linux na System z
- 2007 SOA projekt "Upravljanje s tveganji"
- 2010 Cognos
- 2012 Alcloud

http://www3.alcad.si/index.php/sl/o-podjetju/zgodovina





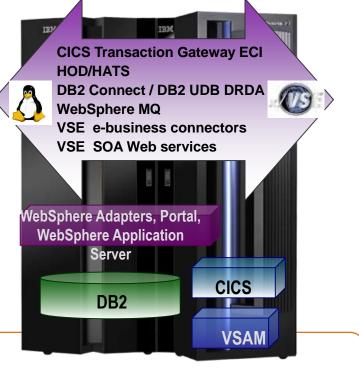


Decision Summary

The demands placed on the data center have never been greater.

IBM System zEnterprise and z/VSE:

- 1. Enables mixed workload Business Processes to be deployed, and centrally managed
- 2. Allows z/VSE **optimized integration** of data, applications, and web serving with
- 3. Delivers dynamically responsive IT with lower acquisition and operating costs
- 4. Meets the need of heterogeneous data centers



A strategic systems platform....

Helping to effective run business critical applications and build a base for the future

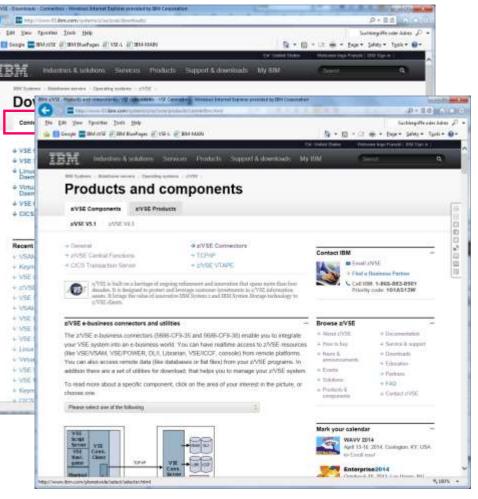
z/VSE Tools & Connector - Downloads

 IBM offers are a huge set of tools available on the z/VSE Homepage

http://ibm.com/zvse/downloads

- Most tools are 'as is', at no additional charge.
- Connector components (part of z/VSE and officially supported) are also available here
- Information about the Connector Components can be found here:

http://ibm.com/zvse/products/connectors.html



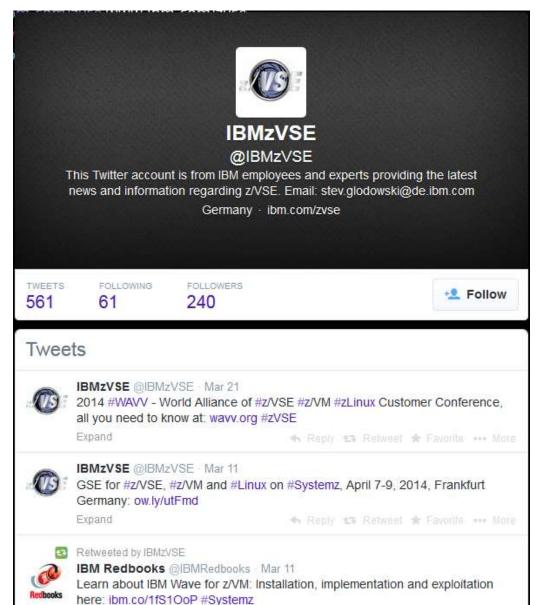
More than a decade Linux on System z and z/VSE



a de la com



Be current: http://www.twitter.com/IBMzVSE Subscribe to be get on the distribution list for latest news for z/VSE



Be Social with System z



Join System z Advocates (Subgroup z/VSE) www.linkedin.com

Read at the IBMs System z Blog

www-304.ibm.com/connections/blogs/systemz/

Connect at Facebook www.facebook.com/IBMsystemz

Watch on YouTube www.youtube.com/user/IBMSystemZ

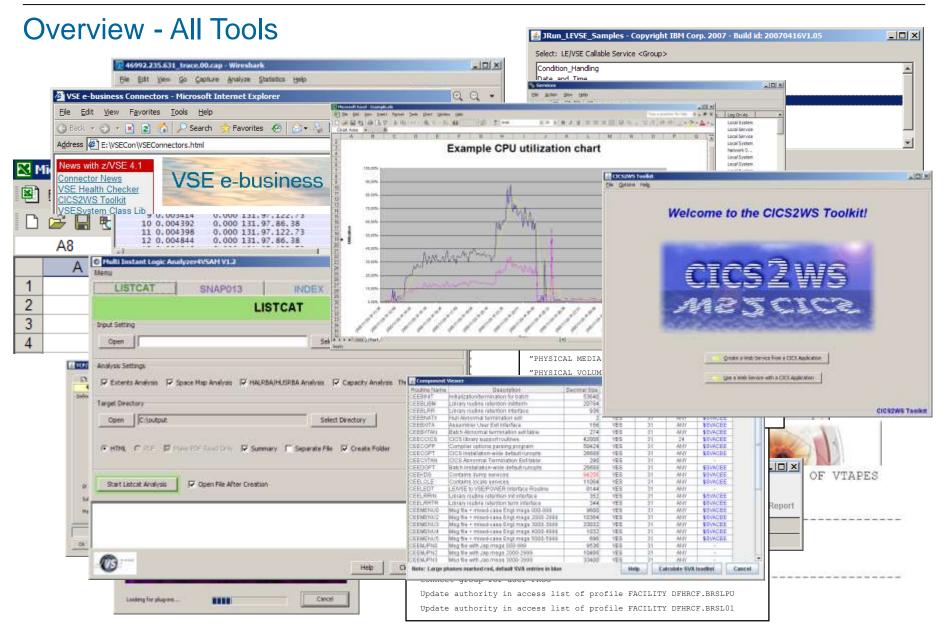
z/VSE Homepage: www.ibm.com/zVSE

Twitter www.twitter.com/IBMzVSE

Ingolf's z/VSE Blog www.ibm.com/developerworks/mydeveloperworks/blogs/vse/









Questions?



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IBM Executive IT Architect







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For more information, please see the z/VSE web site: http://www.ibm.com/zvse/



The IBM zEnterprise BC12 (zBC12) offers twice the capacity at the entry level for the same low entry price as its predecessor, the z114. It also delivers significant improvements in availability, security, performance and total system scale to support clients' growth in both traditional and new workloads including consolidation, cloud, mobile and analytics. With the same zEnterprise innovations and capabilities as the zEC12, the zBC12 lets you scale to the right size without compromise..

For more information, please see the announcement letter.



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