



e-business



www.

IBM's Software Strategy for Linux

*Linux is Ready for
Business*

Scott Handy

Director of WW Linux Marketing



IBM

June 2001



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www.



IBM

Driving the Next Generation of e-business...standards & open source

Standards & open source

Technology
Advances

Increased
Integration

Business
Innovation

Next
Generation
e-business



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WWW.



Open e-business platform

An Integrated Standards and Open Source Model

Presentation/Access

Portable & Interchangeable

Data/Documents

Portable & Interchangeable

Business

Logic

Portable

&

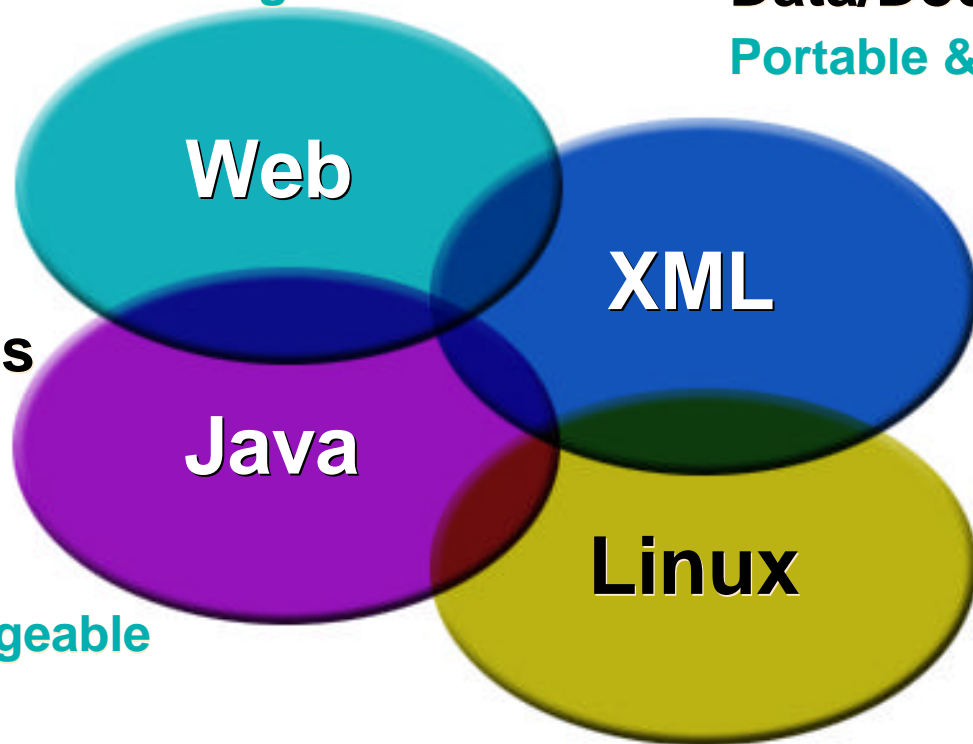
Interchangeable

Development

& Operating

Environment

Open & Portable



1991. Helsinki.

IBM Wall Street Journal Ad:

"Ultimately, Linux will do for applications what the Internet did for networks."



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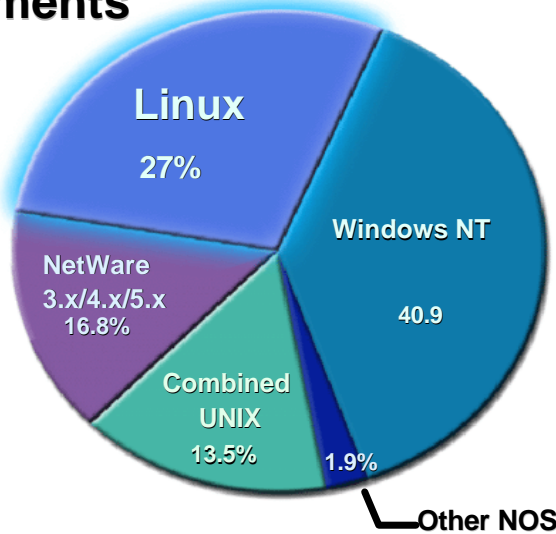
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Why Linux is Important...

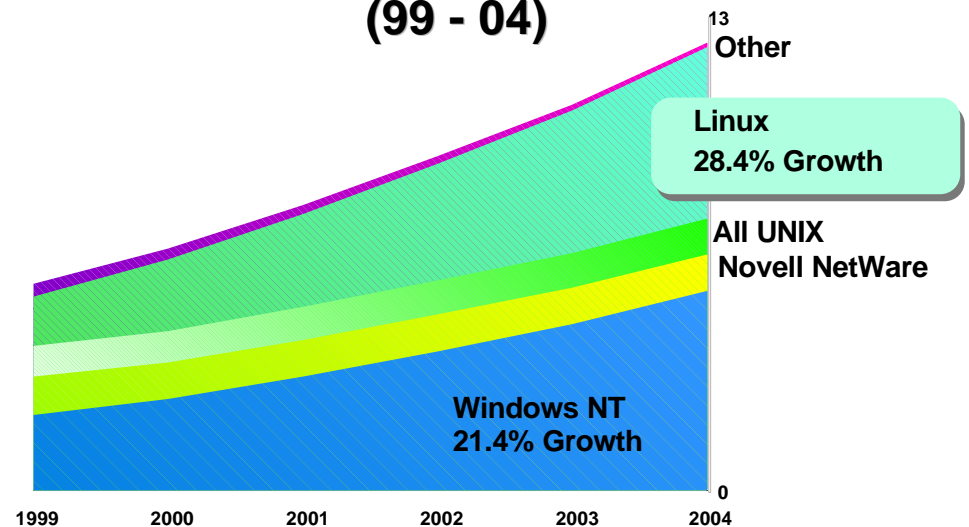
Customer demand is very high and growing fastest

2000 New Server OS Shipments



- 1999 - 2000 Linux shipments grew 24% YTY
- 2000: #2 volume OS
- Linux shipments projected to have highest growth (99 - 04)

New Server OS License Forecast (99 - 04)



from IDC "Server Operating Environments Market Forecast & Analysis" January 2001



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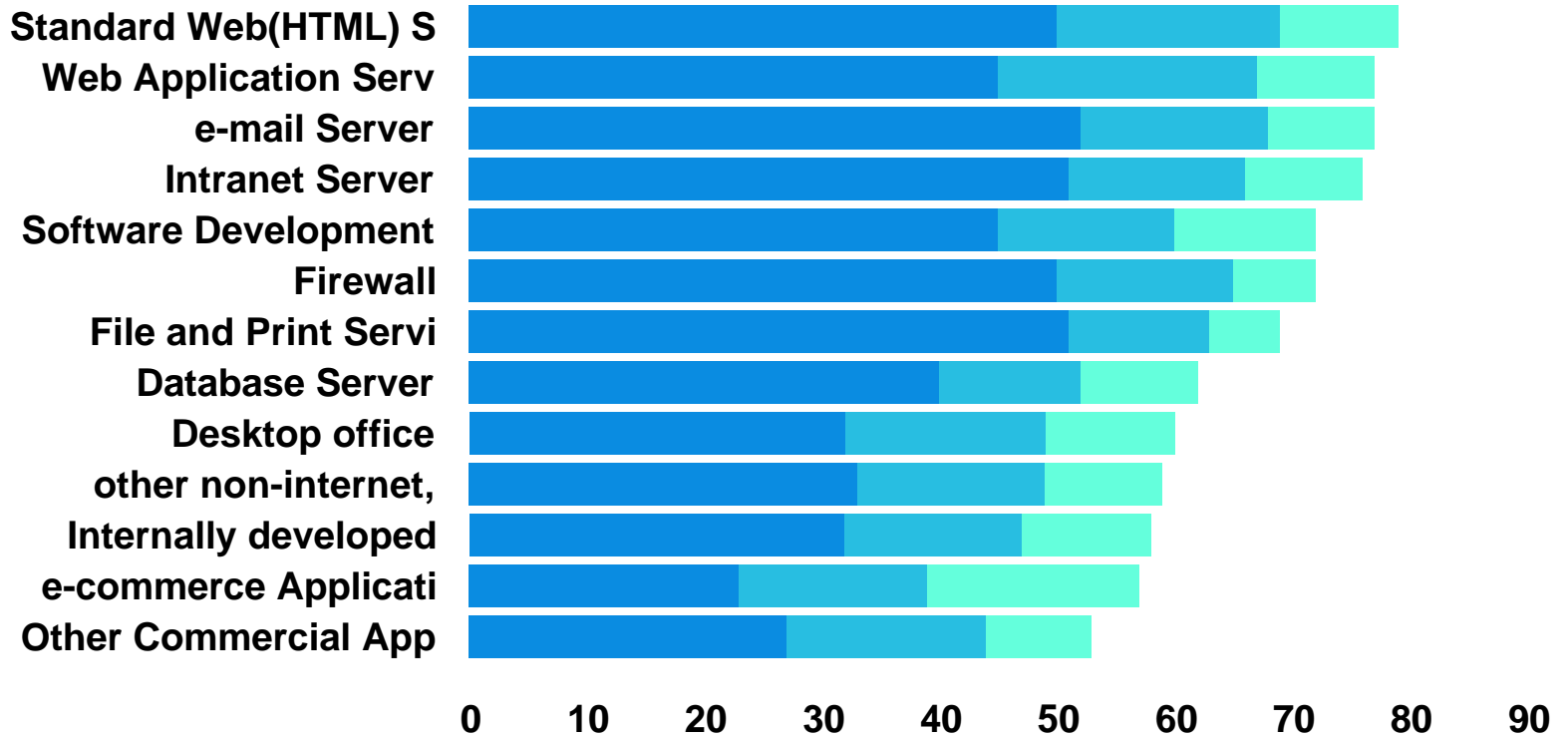
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Linux Deployment

Types of Linux-Based Services

Now 12 months 13-24 months



N = 109

Copyright October 2000 Zona Research, Inc.



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IBM

Linux is ready for business

Customers usage of Linux is moving beyond basic web infrastructure and file/print serving to business and e-business applications....as a result, there are revenue opportunities around Linux in the marketplace...

ISV's are porting:

- ✓ **Over 2200 ISV applications already listed in the IBM Global Solutions Directory - ibm.com/software/solutions/isv**
- ✓ **Dozens added every month....**
- ✓ **Over half support IBM middleware brands (DB2, WebSphere, Tivoli, Lotus)**

Business Partners are providing solutions

- ✓ **BP's are making revenue on services around Linux Solutions**
- ✓ **BP's with Linux capability in IBM's PartnerWorld for Software has doubled this year already - to over 3000 partners.**

Customers are buying

- ✓ **IBM Software reference list is growing and includes :**
 - ▶ **Cendio INVID, Expert, coreFusion, DEODEO, ERP CentralGrede Foundries, Instituto Federal Electoral, IKvick.com, PWL/Linvision, Worklab, Technologies, Wimbledon Championship, VasNet Communications**



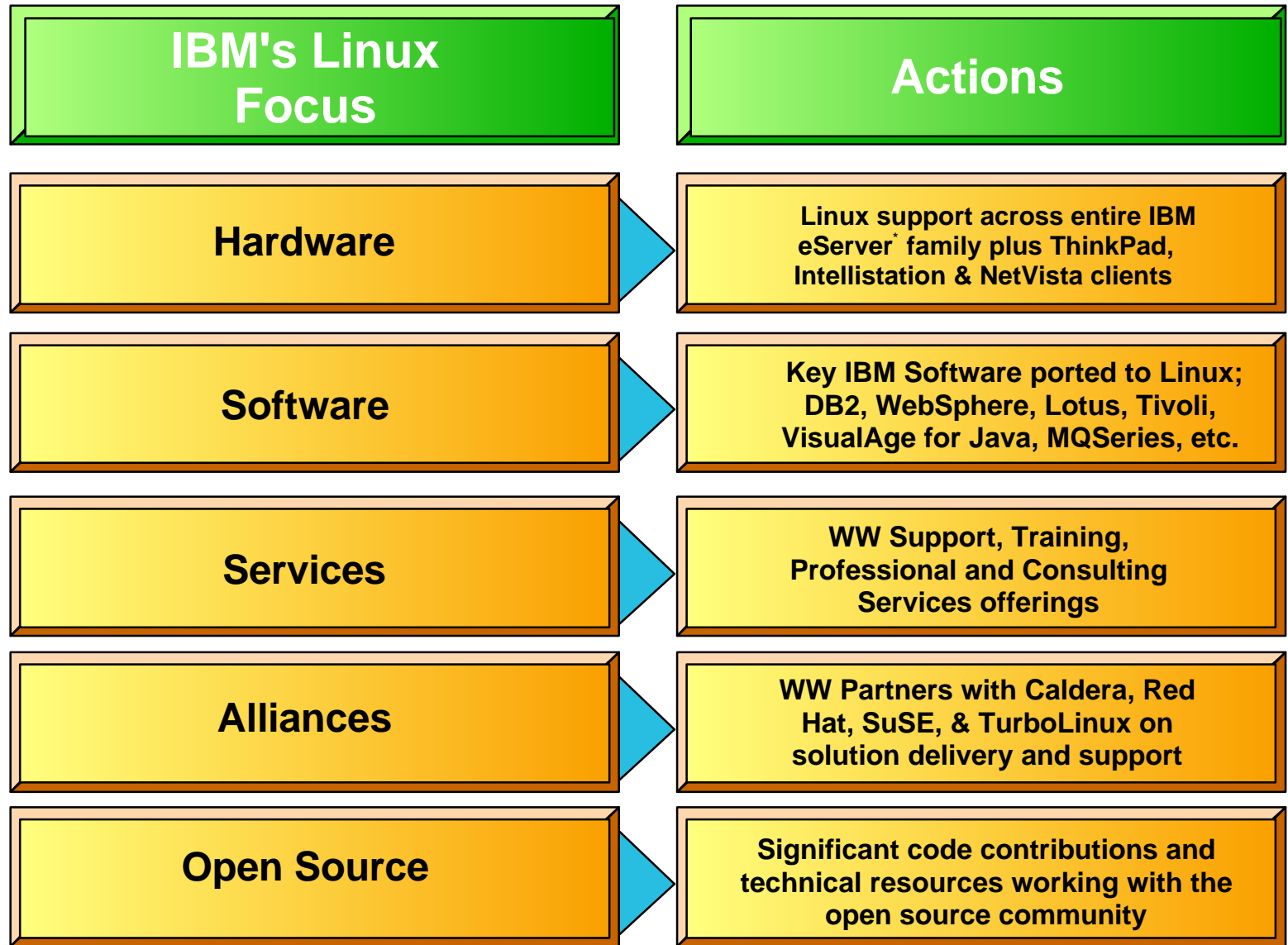
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What is IBM's Linux Strategy ?



^{*}The IBM eServer brand consists of the established IBM e-business logo with the following descriptive term "server" following it.

^{**}The IBM e-business logo, xSeries, iSeries, pSeries and zSeries are all trademarks of IBM Corporation. All others are trademarks or registered trademarks of their respective companies.



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IBM e server

IBM e server & Linux

Linux support for:



▶ IBM zSeries

- Linux distributions from SuSE, TurboLinux, Red Hat
- plus DB2 Universal Database, WebSphere Application Server Advanced, IBM JVM and Tivoli agent & backend connectors for MQSeries, CICS, IMS and DB2



▶ IBM xSeries:

- Certified under the IBM ServerProven Program for Caldera, Red Hat, SuSE and TurboLinux
- Preloads for all 4 distributions



▶ IBM pSeries:

- support native PowerPC Linux distributions by 1Q01 for pSeries 640 and 3Q01 for pSeries 680
- 43P Model 150, B50 "Pizzazz", & F50 servers



▶ IBM iSeries:

- support the native Linux kernel in OS/400 partition. Implementation anticipated 2001.



▶ IBM Thinkpads

- All 4 distributions supported



▶ IBM Intellistations

- All 4 distributions supported

▶ IBM NetVista thin clients





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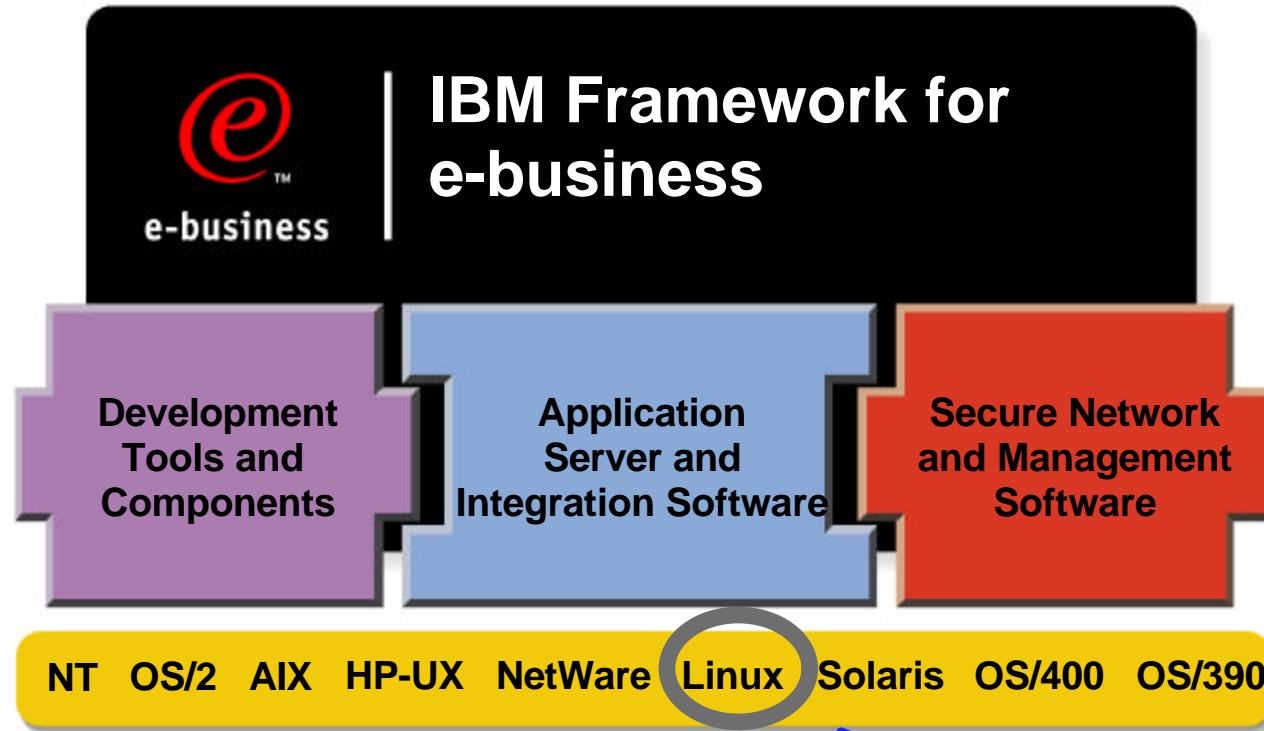


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IBM

IBM Framework for e-business



- Proven methodology simplifies development
- Multi-platform approach increases deployment flexibility
- Applications scale to support 24x7xmillions of users



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IBM Framework for e-business - Product Portfolio



IBM Framework
for e-business



IBM MQSeries

- Connect applications on Linux to applications on other systems
- Speed application deployment and integration
- Manage and integrate business process flow across more than 35 application environments



Lotus Domino

- Rapidly develop and deploy collaborative applications with base eMail, group calendaring and discussion DBs
- Advanced capabilities for managing work and information flow
- Integration with database, ERP and transaction systems



IBM WebSphere

Application Servers

- Speed transition from publishing to Web-based apps
- Add dynamic data, business logic transactions, and/or connections
- Runs on Apache Web Servers

Commerce Suite

- Develop, manage e-commerce site & shopping/checkout experience



IBM DB2

- Best performing database for Linux, UNIX and NT/2000
- Handles multimedia as well as conventional data
- Optimized for Web applications
- Delivers enterprise class reliability and availability
- Attaches to Linux Apache Web servers



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MQSeries for Linux V5.2: *Enabling Application Integration*



Connects applications on Linux to applications on other platforms

- ✓ **Heterogeneous any-to-any connectivity from desktop to mainframe (over 35 platforms supported)**
 - ▶ including Linux on Intel or S/390, AIX, OpenVMS, VAX, HP-UX, OS/2, OS/390, OS/400, Solaris, Tandem NSK, VSE/ESA, Windows 95/98/NT/2000
- ✓ **A comprehensive family of [APIs] designed to make coding for any messaging task straightforward.**
- ✓ **Allows business to integrate disparate islands of automation**
- ✓ **Time independent communication**
- ✓ **Assured one-time delivery**
- ✓ **MQSeries accounts for about three-quarters of the worldwide revenue for all embedded Message Oriented Middleware (MOM) according to Gartner Group.**
- ✓ **More than 350 of IBM's top 500 customers use MQSeries**
- ✓ **There are more than 2000 Certified MQSeries Specialists working for more than 650 different companies worldwide**



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IBM

Domino for Linux

lotus.com/dominolinux

Small - Medium Businesses / Business Units

- Branch / Remote Offices
- 1 - 400 Employees
- "Feet Wet" in Groupware
- Low cost reliable solution
- Alternative to Microsoft
- Powerful remote solution
- Business Partners with Domino applications



Lotus Domino for Linux

Fully functional Domino Solutions available now on Linux !

- Sales Force Automation
- Project Management
- Customer Relationship Management
- Interactive Web based forms
- Resource Management

Domino for Linux provides robust support for Lotus Notes Windows PCs or Mac Desktops

Browser based access for collaborative applications and messaging

- POP3, HTTP, IMAP and LDAP access are all available.



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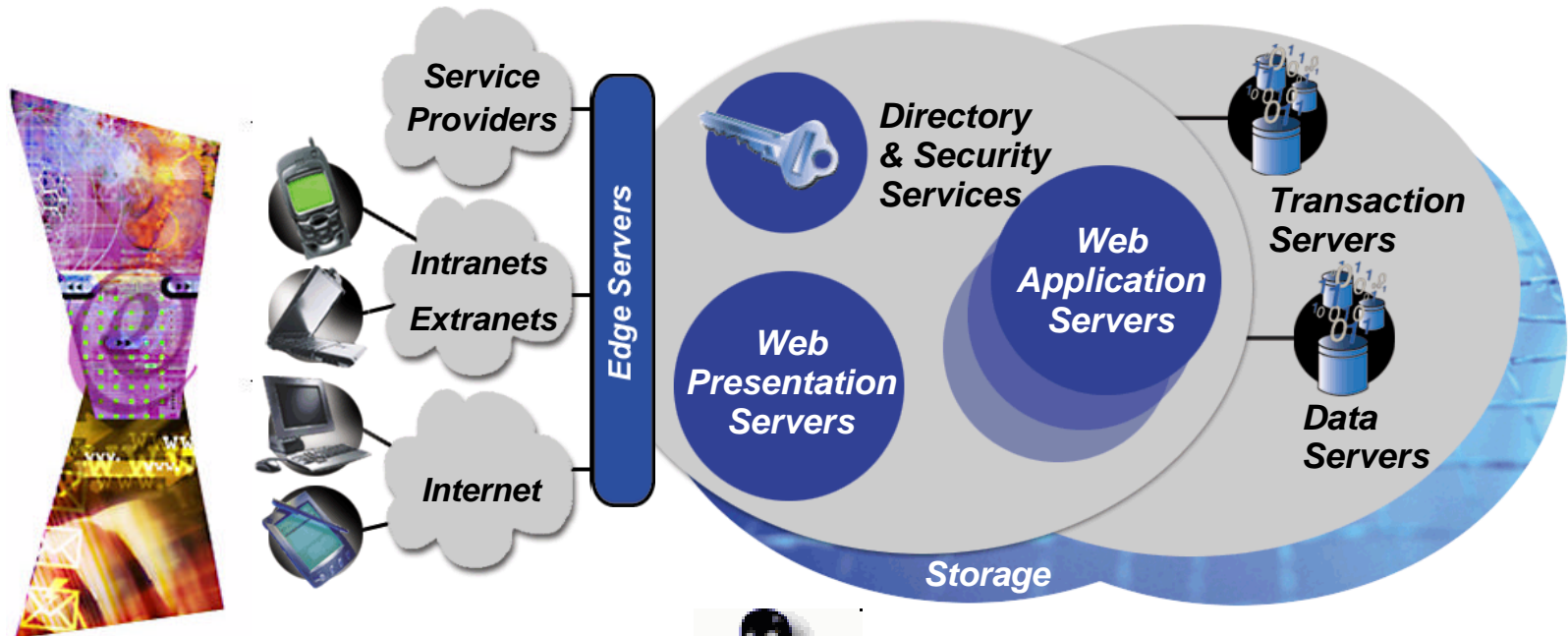
IBM

Web Servers (HTTP Servers)

Responsive

Dynamic & Flexible

Scaleable & Secure



Linux + Apache



The Apache Software Foundation
<http://www.apache.org/>

Environment

Today.....

Adding scalable e-business infrastructure software from IBM adds significant value



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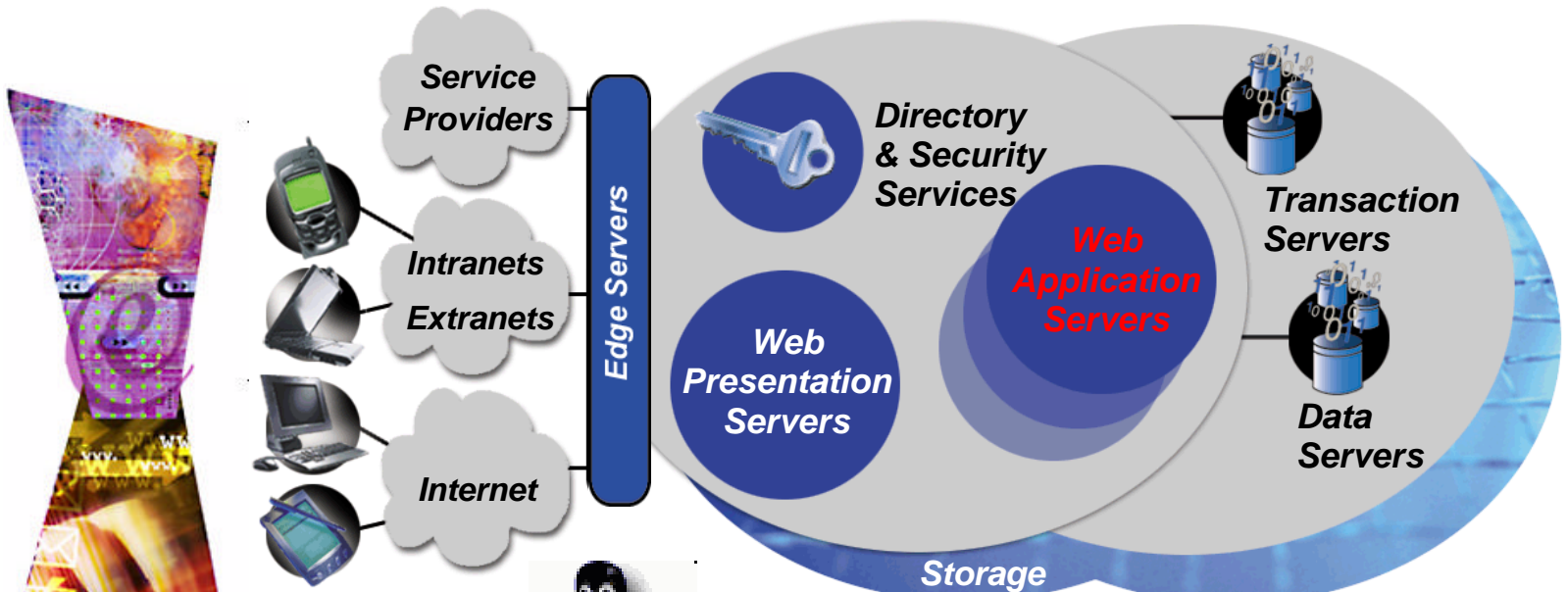
IBM

WebSphere Application Server

Responsive

Dynamic & Flexible

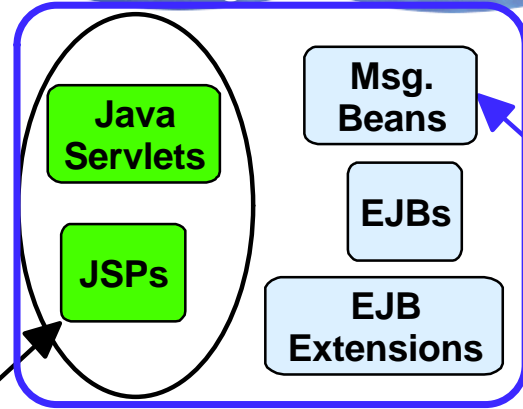
Scaleable & Secure



**Adding Value
On Top of
Apache Web Servers**



**WAS
Standard**



**WebSphere
Application
Server v4.0 AE**

The Apache
Software Foundation
<http://www.apache.org/>



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IBM

WebSphere Application Server

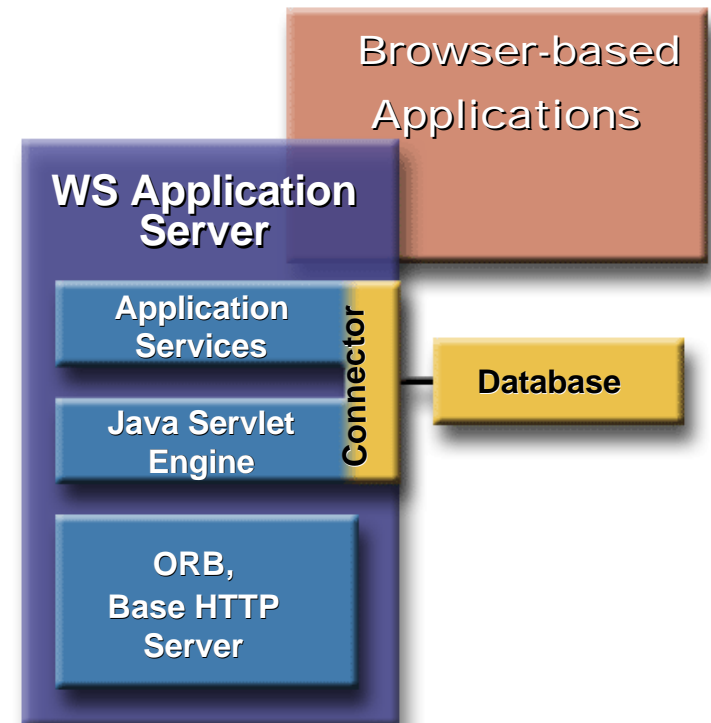
ibm.com/software/webservers/appserv/

Development & runtime environment for dynamic Websites

- ✓ Database connection manager
- ✓ Java servlet run-time and services
- ✓ Java Server Page support
- ✓ XML document structure services

Turns ordinary Linux Apache HTTP Web servers into Java-based Web application servers

- ✓ Standard Edition adds:
 - JSP & XML parser support
 - Database connection manager
- ✓ Advanced Edition adds:
 - Enterprise Java Bean (EJB) support
- ✓ V4.0 now provides:
 - Unparalleled connectivity including:
 - ★ J2EE Connector Architecture, CORBA, ActiveX and expanded Database Support
 - Full Web services support:
 - ★ UDDI, SOAP, WSDL, EJB 2.0 Msg. Beans, & XML technologies in a J2EE 1.2- certified environment
 - Message Beans and JMS Listener functions
 - EJB Extensions -Globalization, Business Rules and process Flow





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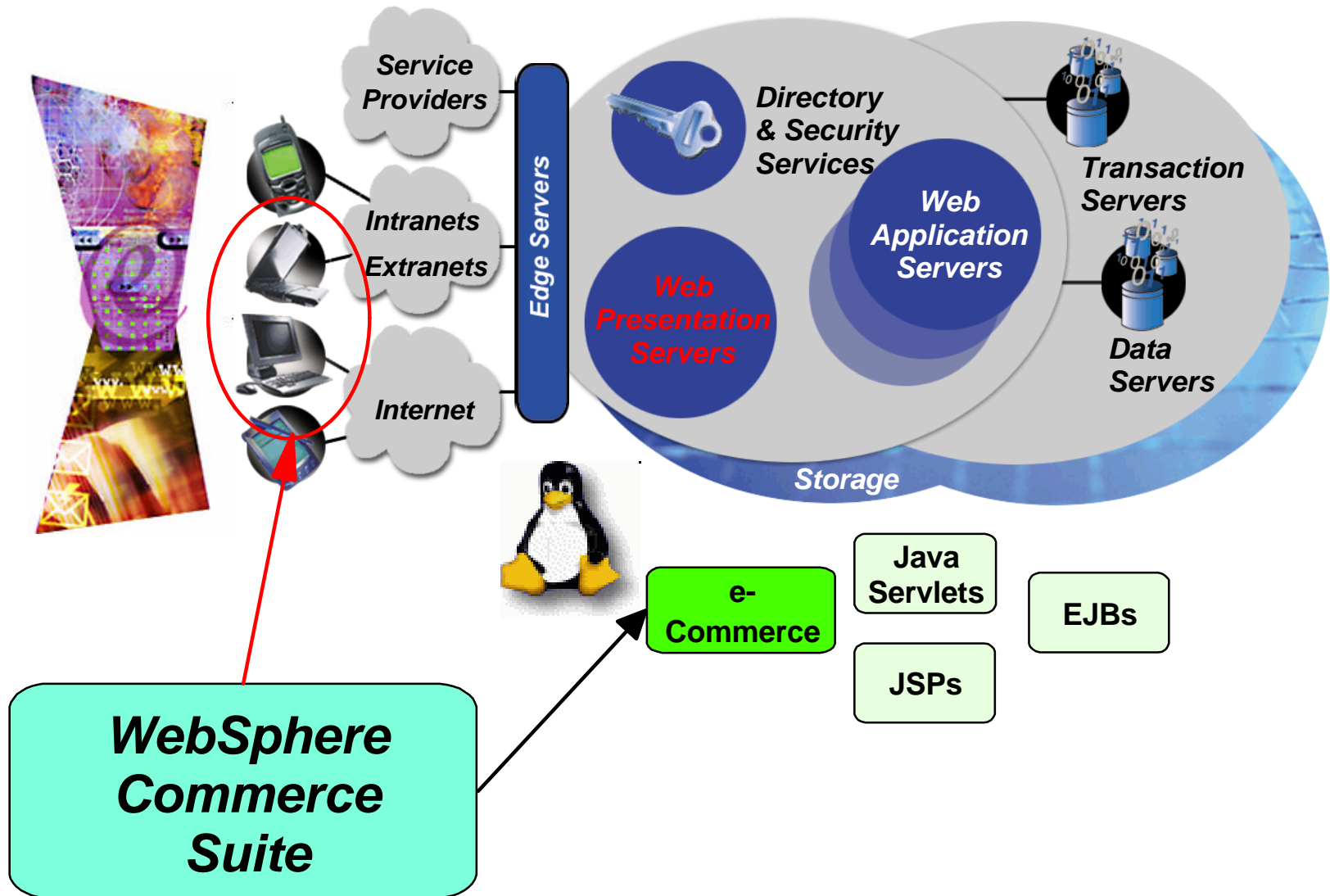
IBM

WebSphere Commerce Suite

Responsive

Dynamic & Flexible

Scaleable & Secure





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IBM

WebSphere Commerce Suite

ibm.com/software/webservers/commerce/linux_press.html

IBM WebSphere
Software



WebSphere Commerce Suite Start V4.1 for Linux

- ✓ Develop compelling e-commerce sites that allow their customers to shop just the way they want to:
 - set preferences, navigate catalogs, drop items in shopping carts, check out, select payment and shipping methods and pay for purchases by credit card
- ✓ Easily manage site, stores or malls through an administrative interface that controls security with user IDs & password protection
- ✓ Build and customize site with easy-to-use, Web browser-based tools - Build on Windows, deploy on Linux
- ✓ Create interactive catalogs that can help sell anything (including hard goods, soft goods and services) and guide customers through efficient shopping flows
- ✓ Accept and process credit card payments with IBM WebSphere Payment Manager
- ✓ Extend to wireless users through e-commerce capabilities
- ✓ Leverage a solution based on open, industry-accepted standards like Java™ technology, JavaServer Pages™, Enterprise JavaBeans™ (EJB™) and XML.
- ✓ Configure in clusters with WebSphere Edge Server front end
- ✓ Built on WebSphere Application Server, Advanced Edition for Linux



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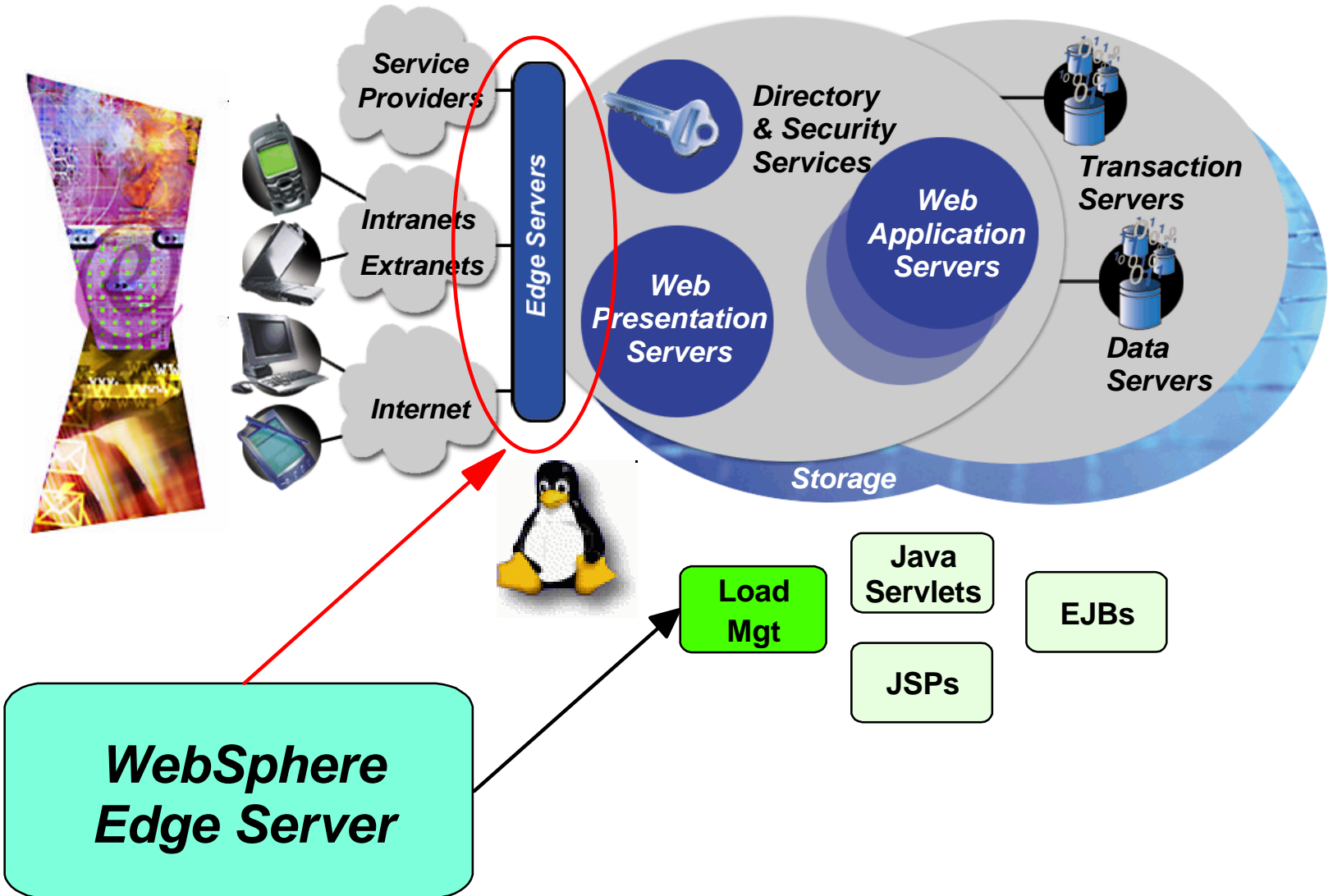
IBM

WebSphere Edge Server

Responsive

Dynamic & Flexible

Scaleable & Secure





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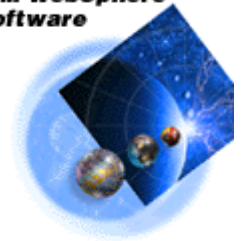
WWW.



WebSphere Edge Server

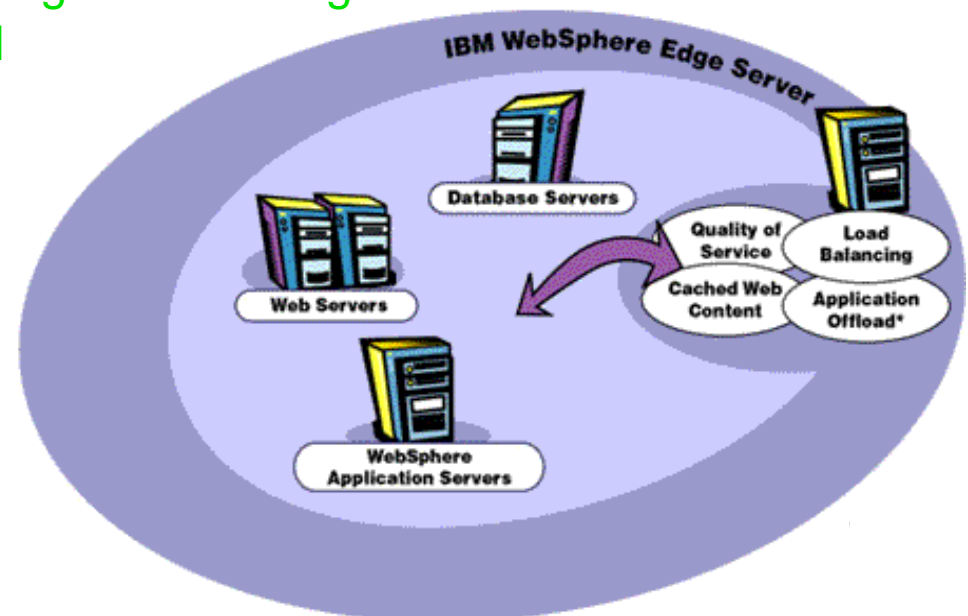
ibm.com/software/webservers/edgeserver/about.html

IBM WebSphere
Software



WebSphere Edge Server V1.0 for Linux includes:

- ✓ Intelligent load balancing that directs user requests to the best server
- ✓ Reverse proxy caching, which improves Web server response time
- ✓ Forward proxy caching, to reduce network bandwidth requirements
- ✓ Streaming media redirection for RealNetworks proxies
- ✓ Ability to monitor applications for better load balancing decisions
- ✓ Powerful rules engine and content-based routing for differentiated quality of service
- ✓ Support for Web content filtering and blocking
- ✓ A streamlined installation and configuration process
- ✓ Tivoli Ready for system management with Tivoli management software
- ✓ NLV for English, German, French and Japanese





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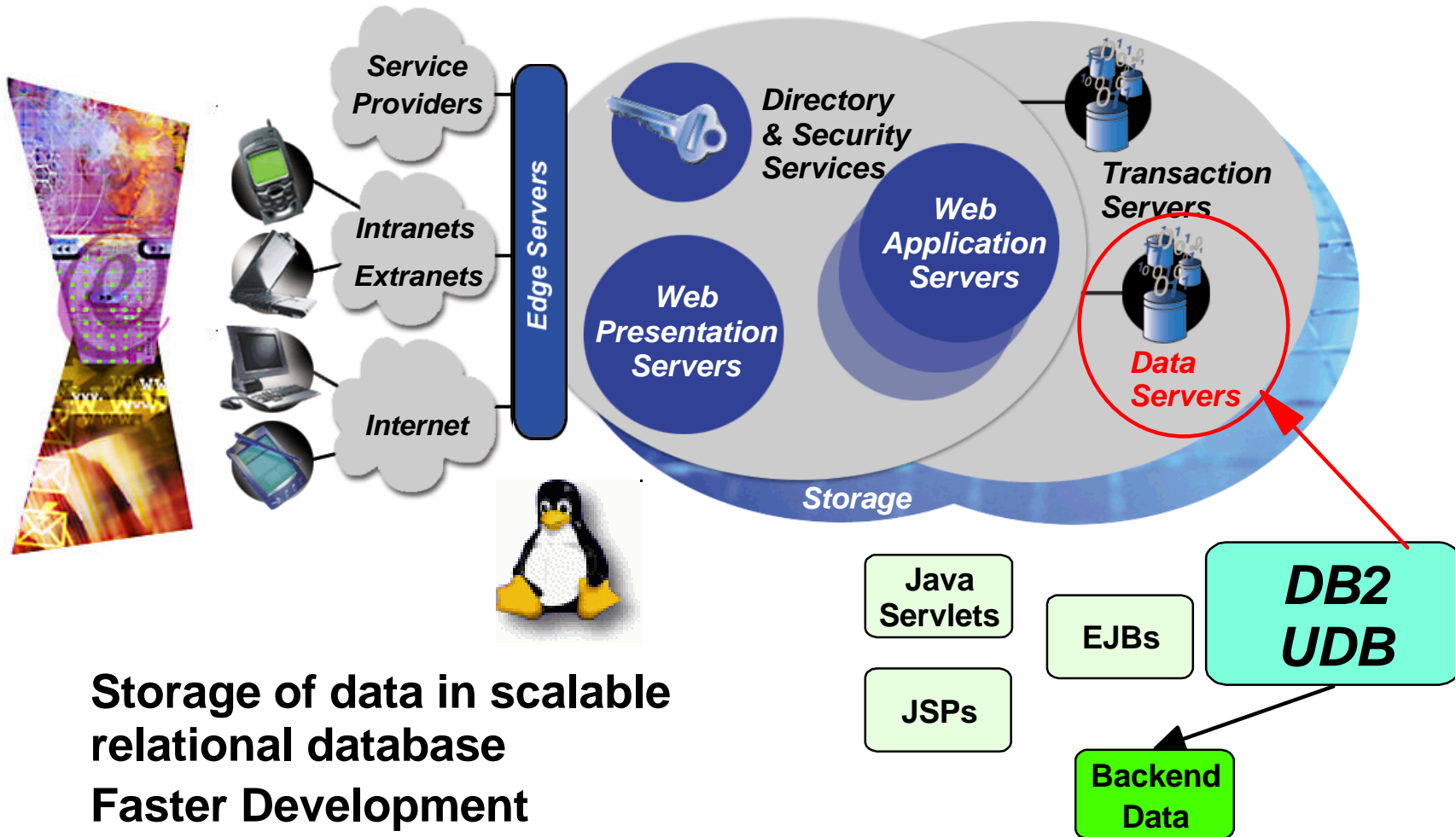
IBM

DB2 Universal Database

Responsive

Dynamic & Flexible

Scaleable & Secure



- Storage of data in scalable relational database
- Faster Development
- Portability / integration
- Proven robust supported software



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IBM

DB2 Universal Database For Linux

ibm.com/software/data

DB2 Universal Database is the industry's first multimedia, Web-ready relational database management system.

- Strong enough to meet the demands of large corporations
- Flexible enough to serve medium-sized and small e-businesses
- Combines integrated power for business intelligence, content management, enterprise information portals and e-business with industry-leading performance and reliability to drive the most demanding industry solutions.
- More than 40 million DB2 users from over 300,000 companies worldwide relying on IBM data management solutions.

Robust Enterprise Database Server for Linux

✓ **Support for Personal, Workgroup and Enterprise Editions**

- New EEE includes support for DB2 clusters on Linux

✓ **Version 7.2 takes advantage of the performance improvements available with the 2.4 Kernel**

✓ **Includes DB2 and IMS Connect for Linux for host connectivity**

✓ **Relational Connect for easy access to data on other DBMS's**

✓ **Full technical support available**

Includes full DB2 UDB Web Support

✓ **JDBC, SQLJ, Java Stored Procedures & User Defined Functions**

✓ **DB2 PERL module & Web Control Center**

Free DB2 UDB Personal Developer's Edition



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IBM

IBM Software for Linux

Intel-based and S/390

- WebSphere Application Server, Advanced Edition (EJB support)
- DB2 Universal Database, Enterprise Edition
- DB2 Connect
- IMS Connect
- MQSeries for Linux
- CICS Transaction Gateway
- Tivoli Storage Manager Client

Intel-based

- BookManager BookServer
- DB2 UDB Workgroup & EEE
- DB2 DataPropagator
- DB2 Everyplace
- DB2 XML Extender
- Lotus Domino
- Network Dispatcher
- Net.Data
- Object REXX
- On Demand Server

- SecureWay Wireless Software
- Small Business Suite for Linux
- techexplorer Hypermedia Browser
- Tivoli Management Agent
- Tivoli Storage Manager (ADSM)
- Tivoli SANergy
- ViaVoice for Linux
- VisualAge for Java
- WebSphere Application Server, Standard Edition
- WebSphere Commerce Suite, Start Edition
- WebSphere Edge Server
- WebSphere HomePage Builder
- WebSphere Host On-Demand
- WebSphere Performance Pack Cache Manager for Multi-platform
- WebSphere Site Analyzer
- WebSphere Transcoding Publisher



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www.wimbledon.org

...Premier tennis Championship becomes an e-business and sets new records with nearly 1 billion hits...

Vision

- ✓ Ability to tabulate real-time scores for the Web

Challenge

- ✓ The information systems at the Wimbledon Championships require an infrastructure to simultaneously communicate with commentators and media, as well as the millions of tennis enthusiasts around the world

Solution

- ✓ IBM DB2 UDB for Linux
- ✓ IBM Netfinity
- ✓ IBM ThinkPad

Value

- ✓ The pairing of Netfinity with Linux has resulted in an enterprise-strength solution that is both fast and cost-effective.
- ✓ Linux is now able to tap into the power of DB2 Universal Database to support sophisticated e-business solutions and to put the entire Wimbledon 2000 staging system on two IBM ThinkPad 600E laptops for a compact solution.





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weather.com

Forecasting Success with e-business Solution

Vision

- ✓ Establish a powerful, flexible and reliable e-business solution for a Top 25 web site

Challenge

- ✓ Ensure that the weather.com website, a leading source of weather on the Web and the official site of The Weather Channel responded quickly and was able to scale quickly to meet future peak-site demand

Solution

- ✓ IBM WebSphere Application Server for Linux
- ✓ IBM Netfinity Server 4000R

Value

- ✓ Ability to deliver over 2000 maps and satellite images on the popular Linux operating system
- ✓ Rich end-to-end solution: hardware, software, middleware and an application suite to enhance the speed, volume and stability of unpredictable Internet traffic





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ERP Central

Putting Time Cards Online for On-the-Road Consultants

Vision

- ✓ Create a portal site called ERP Central to tap into the burgeoning market for e-business solutions serving mobile workers

Challenge

- ✓ Offer a free time and expense-tracking program to ERP Consultants

Solution

- ✓ IBM WebSphere(tm) Application Server
- ✓ IBM DB2® Universal Database(tm) for Linux®

Value

- ✓ 100,000 page views monthly, increasing 20% to 30% each month
- ✓ user retention tool
- ✓ For customer: 75% time savings from using Web-based time tracking
- ✓ average \$500,000 saved annually





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Worklab's Online Guides

Helping Consumers Eat Well and Sleep Easy

Vision

- ✓ Allow businesses to deploy an e-business solution quickly and cost-effectively

Challenge

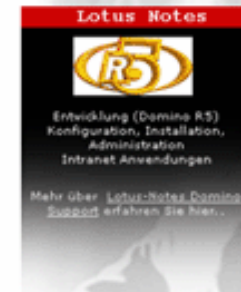
- ✓ For Worklab Technologies, a German e-business solutions developer, providing tangible evidence means allowing potential customers to see and experience live examples of its solutions

Solution

- ✓ Online restaurant guide, online hotel reservation system, turnkey Internet hosting and e-commerce packages
 - ▶ IBM DB2® Universal Database(tm) for Linux®
 - ▶ Lotus® Domino(tm)
 - ▶ Lotus Notes®
 - ▶ Linux
 - ▶ IBM Netfinity®

Value

- ✓ From online restaurant guide: expected 400% revenue growth over three years, 100% ROI in one year;
- ✓ For hotel reservation site: 100% ROI in a year and a half, \$15 to \$20 million in revenue by fourth and fifth years





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IBM

Manchester University

Effective Distance Learning with Linux

Vision

- ✓ Manchester University, one of the pioneers of Internet-based education reveals that providing round-the-clock access to course material - coupled with the ability to track an individual student's progress

Challenge

- ✓ A system that they didn't have to handhold on a 24/7 basis, together with a database that was reliable and could be backed up while live. Above all a server operating system that wouldn't spontaneously reset itself

Solution

- ✓ Linux, DB2 for Linux
- ✓ Distance learning ISV application (Descartes)

Value

- ✓ Redeploy one full-time member of staff since new system in place
- ✓ Able to provide students with a more reliable service
- ✓ Moving to DB2 provides opportunity to use multiple data types - such as images, audio and video - in its courses





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IBM Small Business Suite for Linux

- *Winner!*



Best of Show - LinuxWorld

January 2001

- **Strong interest from Partners**

- **Contains:**

- Lotus Domino App Server V5.0.3 for Linux
- WebSphere Application Server 3.02 for Linux
- DB2 Universal Database Workgroup V7.1
- *IBM Suites Installer - Integrate your own apps*
- Tools: WebSphere Studio and Domino Designer for Windows & WebSphere HomePage Builder for Linux

- **For Small Businesses with up to 100 users per server**

- **Enterprise capability at Small Business Price!!**

- US\$499 SRP - list price of any one product exceeds total SBS price. *Without 100 user limit per server, separate products combined SRP is over a \$4,500 value!* (User/client licenses sold separately)



ibm.com/linux/sbs



Domino



DB2



WebSphere



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Linux Enablement - IBM Global

Service & Support

- ▶ One-stop prime shift or full shift (24 X 7) enterprise level support
- ▶ Support for major Linux distributions
- ▶ Toll-free Phone & electronic access
- ▶ How-to & defect-level support
- ▶ Netfinity & S/390 servers
- ▶ Account Advocate, Advanced Support and Consult Line service options

Education & Training

- ▶ Full portfolio of courses:
Via classroom - 13,
Via web - 13
- ▶ Available in 20 countries
- ▶ Available in 5 languages
- ▶ Linux server operators and end-users, including Linux basics, awareness for managers, system administration, and e-business
- ▶ How-to (Redbooks) for Linux
- ▶ Linux Professional Institute (LPI) sponsor for certification

Professional Services

- ▶ Comprehensive enterprise services for Linux
 - Infrastructure consulting and planning
 - Installation
 - Configuration
 - Application enablement



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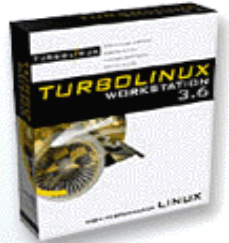
IBM Linux Partnerships



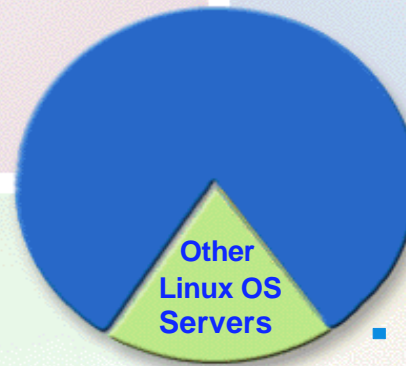
Red Hat

- Strength - Mindshare & Marketshare Leader
- Relationship- Worldwide & IBMwide
 - ▶ IBM Software bundles agreement
 - ▶ IBM @server agreement
 - ▶ IBM products in Red Hat MarketPlace
- IBM Platforms:
 - ▶ Complete

TurboLinux



- Strength - Japan, China
- Relationship - Worldwide & IBMwide
 - ▶ IBM Software bundles agreement
 - ▶ IBM @server agreement
- IBM Platforms:
 - ▶ Complete



SuSE



- Strength - Europe
- Relationship - Worldwide & IBMwide
 - ▶ IBM Software bundles agreement
 - ▶ IBM @server agreement
- IBM Platforms:
 - ▶ Complete

Caldera



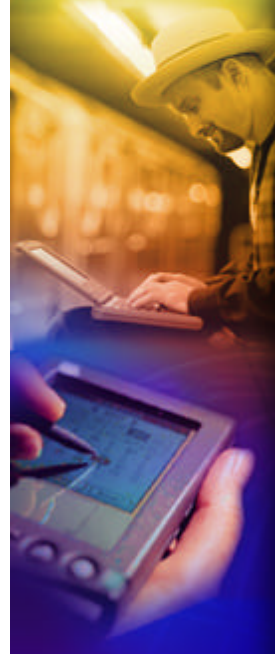
- Strength - WW Channel Partner infrastructure
- Relationship - Worldwide
- IBM Platforms:
 - ▶ xSeries



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The New "Linux Lens" on PartnerWorld

www.ibm.com/partnerworld/linux

IBM PartnerWorld - Linux - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Location: <http://www-1.ibm.com/partnerworld/marketing/pmrktng.nsf/weblook/linux.html>

Instant Message Internet Lookup New&Cool Netcaster RealPlayer

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PartnerWorld® Marketing and sales

Linux

Linux is ready for business. It's today's fastest growing operating system, and it can help you and your customers change the game in information technology. Find out how IBM can get you ready for Linux.

Membership center
Find a Business Partner
Member success stories

Questions
[Help](#) [Site map](#)
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Related links

- [Linux at IBM](#)
- [developerWorks Linux zone](#)
- [Linux at IBM news](#)
- [Linux at IBM industry news](#)
- [Linux events](#)

Opportunity
Growth in the Linux market is exploding. According to IDC, Linux operating system shipments are projected to show the highest growth of any operating system in the next three years. Finance, retail and distribution companies, telcos and service providers are embracing the reliability, performance and low cost of Linux-based solutions. [\(more \)](#)

Expand your skills
As an IBM Business Partner, you can add Linux to your skill set and portfolio without huge additional expense because PartnerWorld and IBM open-platform technology are designed to let you capitalize on your existing skills. Get up to speed with IBM's new Ready, Set, Linux! program, and take advantage of reimbursements and incentives. [\(more \)](#)

Sales and marketing tools
No matter what type of IBM Business Partner you are, PartnerWorld provides the tools

Software and servers
IBM offers the most comprehensive portfolio of Linux-based e-business products in the industry, helping

IBM PartnerWorld®

- Marketing and sales
 - Co-marketing
 - Sales tools
 - Marketing materials
- Education and certification
- Technical support
- Incentives
- Financing
- PartnerInfo
- News
- Events
- Membership center
- Help

Communities:

- Developers
- Software

Document: Done





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IBM and the Open Source Community

- ▶ IBM committed to being a respected, contributing Linux and open source community member
 - ✓ Build on open source successes contributing code and technical resources to key open source projects:
 - JFS, Jikes compiler, SecureMailer, XML parser, S/390 and PowerPCkernel updates & work with Apache Group
- ▶ IBM will help Linux grow & extend to enterprise customers
- ▶ Support Linux Standards Base > Free Standards Group (FSG)
- ▶ Linux Internationalization Initiative - www.li18nux.org (FSG)
- ▶ IBM Public Source License - IBM Classes for Unicode
- ▶ Strong IBM participation in community events & shows

Slashdot

News for Nerds. Stuff that matters.



[faq](#)
[code](#)
[awards](#)
[privacy](#)
[slashNET](#)

IBM releases JFS to GPL

Posted by [Hemos](#) on Thursday February 03, @10:39AM
from the letting-it-be-free dept.

[PinAngel](#) writes "*IBM has released its JFS source code*"



JFS for Linux



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developerWorks : Linux : overview - Netscape

File Edit View Go Communicator Help

Location: <http://www.ibm.com/developer/linux/>

developerWorks™

Linux zone

Accelerate Java on Linux
IBM's Linux Technology Center brings you the latest Linux, and a patch to the

Downloads

→ [Linux for S/390](#)
New! Linux for S/390 is a protocol... a "pure" Linux from a user point of view. It supports the S/390 processor architecture and some devices that are specific to S/390 environments. Patches, free of charge, are available here to build Linux for S/390, as is the network device driver. For more information, contact linux390@de.ibm.com.

→ [Explore IBM's new Patches CVS Directory](#)
developerWorks now brings you the latest Linux hardware and software patches, device drivers, and more from IBM's Linux Technology Center, and other sources. Keep coming back to the Linux Zone for the latest releases, and direct access to the CVS tree for the patches you need.

We currently have three patches available:

- IBM kernel performance patch
- Alpha level driver for the IBM Lanstreamer Token ring adapter
- Network Dispatcher patch

[Click here](#) for more details about each patch.

Most trusted db now on Linux! [Download](#) DB2 for Linux today.

[Download](#) the new IBM HTTP Server for Linux.

Get the top-performing [JDK for Linux](#)

VisualAge for Java goes Linux! [Download](#)

WebSphere Application Server for Linux
This fully functional trial download of WebSphere Application Server V2.03 Standard Edition, takes your business from simple Web publishing to powerful e-business applications. (IBM)

[Linux pushed to enterprise](#)
Storage software giant Veritas said it would add more support for Linux. (ZDNet UK)

[INTERSHOP and Cobalt announce partnership](#)

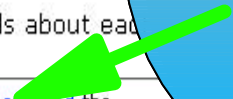
[Java 1.1.8](#)
per Kit for Linux earns JARS top 1% rating!
Download the leader of the pack -- it's free! (Complan)

**developerWorks
Linux
zone**

www.ibm.com/developerworks

Download

- DB2 for Linux
- WebSphere App Server
- Java JDK
- VisualAge for Java





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How to get started - more Information...

ibm.com/linux

- ✓ *Links to IBM Linux products & open source sites*
 - ▶ IBM Software, Hardware and Services for Linux
 - *Including Customer references and case studies*
 - ▶ IBM Alliances / Linux distribution partner's sites
 - ▶ IBM Open source contributions

ibm.com/developerWorks

- ✓ *Comprehensive free technical resource for the developer community*
 - ▶ *Linux and open source* zones
 - ▶ plus technology zones for Collaboration, Components Java™ technology and XML

ibm.com/partnerworld/developer

- ✓ *IBM portal for guests (free), professional, and enterprise members of IBM's developer program*

ibm.com/partnerworld/linux

- ✓ *New Linux Lens quicklink on the IBM PartnerWorld Web site that provides Business Partners with a single location linking to all IBM resources for Linux including how to join PartnerWorld for Software*

ibm.com/servers/eserver/zseries/os/linux/lcds/

- ✓ *The Linux Community Development System is a Service provided by IBM that provides you with access to a Linux on S/390 environment for the purpose of providing the Open Source community with a platform to develop, port and/or test drive your products or applications on this platform.*



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Summary - IBM and Linux...

▶ Supports our customer's...

- ✓ *Demand for Linux based solutions in heterogeneous environments*

- Hardware, software, services, partnerships, community support

▶ Enables both new and current Linux users to take advantage of Linux-based solutions with confidence

- ✓ *Extending Linux from simple file/print & web servers to advanced web application servers*

- ✓ *Integrating Linux into the enterprise*

▶ Offers most comprehensive Linux portfolio

- ✓ *Complete hardware, software, services, and packaged solutions portfolio*

- Focused on Enterprise, Dot.coms, SMB, Academia, & Developers

- ✓ *Packaging and pricing Linux hardware & software for small and medium business too....*

▶ Linux is ready for business



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DB2 for Linux



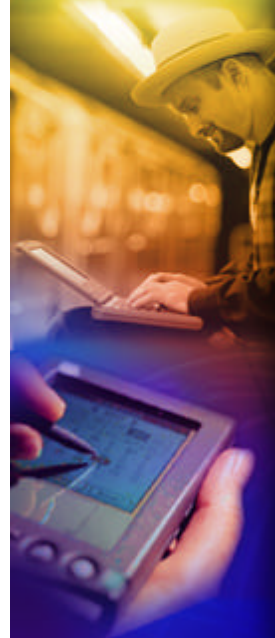
Eddie Daghelian
Product Manager, DB2 for Linux
eddie@ca.ibm.com
June 29th, 2001



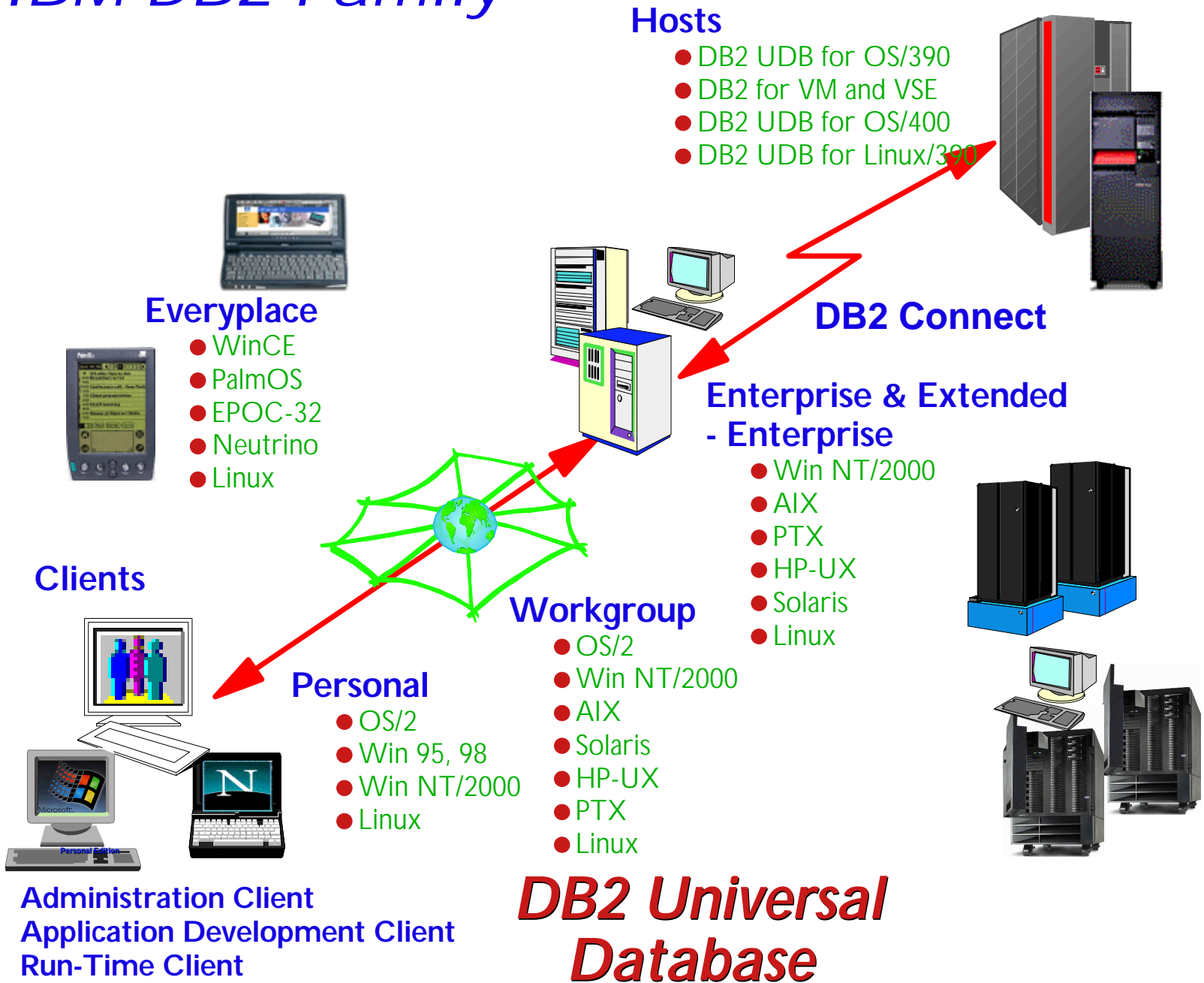
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IBM DB2 Family





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DB2 for Linux Highlights

- SMP/MPP support
 - Typically up to 8 CPU per node in Linux
- Heterogeneous Federated supporting distributed joins between DB2 Host Data, DB2 Distributed Data, and Oracle (Oracle Added in v7.2/FP3)
- DB2 Replication (Capture and Apply)
- Net.Search - In memory text search semantics for high speed text searching
- XML Extender - the storage and retrieval of XML documents using SQL APIs
- Java (JDBC, SQLJ support for static SQL)
- Fully web enabled including Net.Data
- Control Center for managing DB2 servers presenting a single GUI interface to all DBA tasks



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Linux Specific Highlightes

- Exploits Linux 2.4 Kernel capabilities
 - Support for raw devices
 - Support for files >2GB
 - Increased memory support to 64GB

- Support for most popular programming languages on Linux including:
 - Perl
 - PHP
 - Python

- HA Failover support:
 - Automatic detection of server failure and resource failover
 - Two products on the market:
 - Convolo from Mission Critical Linux
 - LifeKeeper from SteelEye Technologies Inc.

- Desktop Integration in GNOME and KDE (v7.2)
- Infiniband Support - Switched I/O fabric



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DB2 Software Developers Kit for Linux on Itanium Processor Family (IPF)

- Released first non-beta 64-bit database for IPF on June 15th
- Intel's IPF offers:
 - 64-bit addressing capability
 - large number of registers,
 - Inherent instruction level parallelism, prediction, control/data speculation and prefetch capability
- CPU not starved for bandwidth, data moved around quickly
- Huge amounts of data in a single program, simpler programming and lower system overhead
- Reduced disk access
- Available for development and testing purposes at no charge
 - <http://www.ibm.com/software/data/db2/itanium>
- Fully supported through IBM Support offerings



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DB2 Linux OS Support

■ IA-32

- Linux kernel 2.2.12, 2.4.x, or later
- glibc version 2.1.2 or later
- libstdc++ version 2.9.0
- Requires Red Hat Package Manager (RPM) for install

■ IPF (IA-64)

- Linux IA-64 Distribution including, but not limited to:
 - TurboLinux Beta 3, RedHat V7.1 RC1, SuSE V7.2 Beta
- Kernel level 2.4.x, glibc 2.2.x
- Intel Itanium SDV with processor stepping B3 or above (or as required by the operating system)
- IBM JDK1.3.0 Beta 3 (for Java support)

■ S/390 or zSeries(31-bit)

- SuSE Linux v7.0
- Turbolinux Server 6 for zSeries and S/390
- kernel level 2.2.16 (32 bit)
- glibc level 2.1.3
- libstdc++ 2.10.0

Tested for major Linux Distributions worldwide

- Red Hat, Caldera, SuSE, TurboLinux, Red Flag



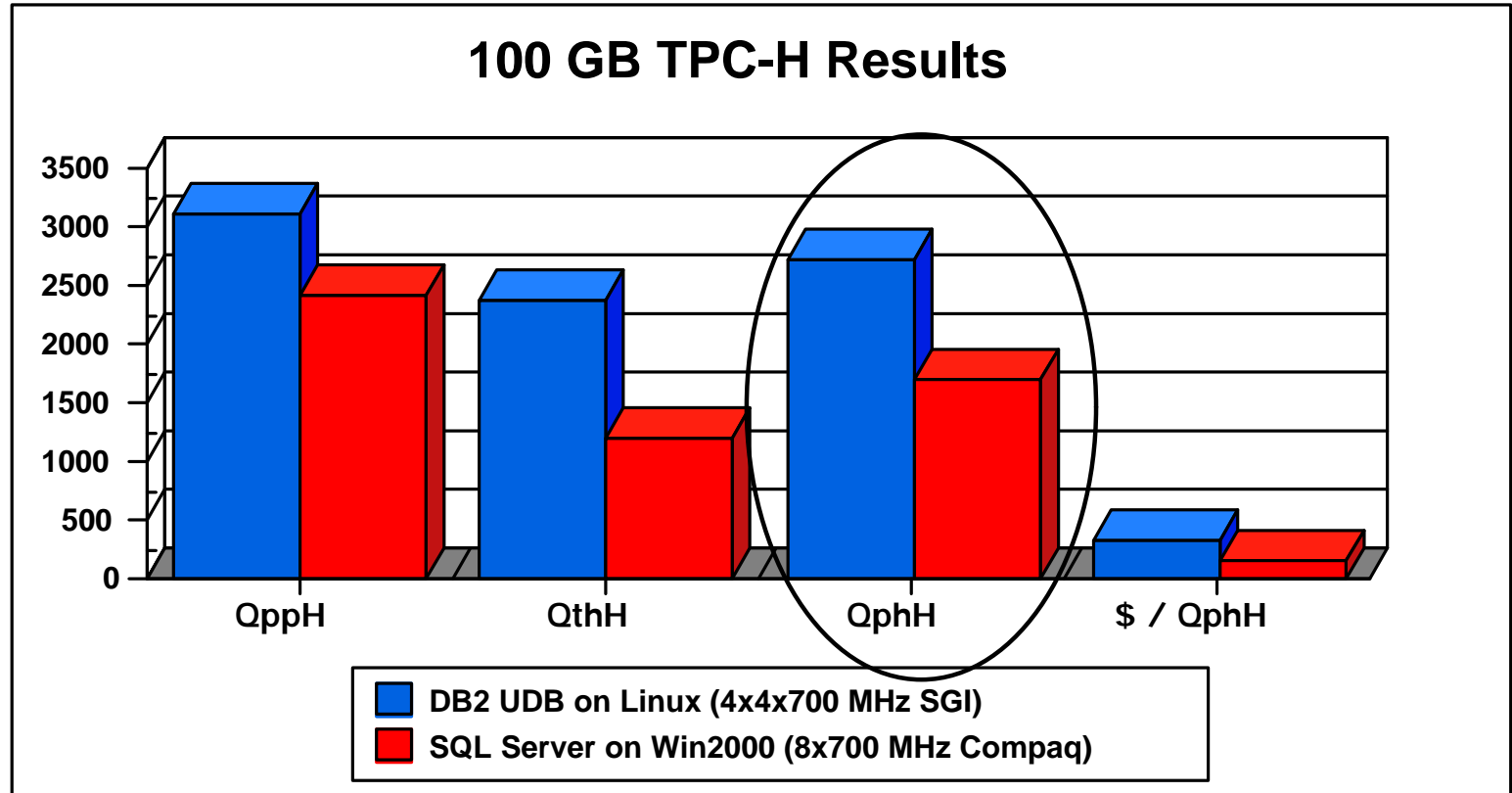
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Top TPC-H 100GB Result



- ✓ 61% better performance than SQL Server on Windows 2000
- ✓ First proof-point for Linux performance in TPC benchmarks
- ✓ Clustered implementation of DB2

SQL Server and Windows 2000 are registered trademarks of Microsoft Corporation



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Additional Information and Downloads

- **DB2 for Linux home page**
 - <http://www.ibm.com/db2/linux>
 - DB2 Enterprise Edition and Extended Enterprise Edition available for download off this page
- **Free download of DB2 Personal Developers Edition for Linux**
 - <http://www6.software.ibm.com/dl/db2pde/db2pde-p>
- **DB2 Software Developers Kit for Itanium Processor Family**
 - <http://www.ibm.com/software/data/db2/itanium>
- **IBM JDK1.3.0 Beta 3 (for Java support)**
 - <http://www.alphaworks.ibm.com/>
- **DB2 for Linux Online Technical Support**
 - <http://www.ibm.com/software/data/db2/udb/winos2unix/support>
- **Linux 2.4 kernel Features**
 - http://www.linux-mag.com/2001-01/linux24_04.html
- **PHP programming language** <http://www.php.net>
- **Python programming language** <http://www.python.org>
- **Latest news related to Linux** <http://www.linuxtoday.com>