



## Linux Kernel Configuration

Arrow keys navigate the menu. <Enter> selects submenus --->. Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </> for Search. Legend: [\*] built-in [ ] excluded <M> module < > module capable

## Code maturity level options ---&gt;

- General setup --->
- Loadable module support --->
- Block layer --->
- Processor type and features --->
- Power management options --->
- Bus options (PCI etc.) --->
- Executable file formats / Emulations --->
- Networking --->
- Device Drivers --->
- Firmware Drivers --->
- File systems --->
- Instrumentation Support --->
- Kernel hacking --->
- Security options --->
- Cryptographic options --->
- Library routines --->

---

- Load an Alternate Configuration File
- Save Configuration to an Alternate File

<Select>    < Exit >    < Help >

```

//Process info output as file header
OUTPUT_BYTE(0x0001); //Process index
OUTPUT_BYTE(0x0001); //Process index
OUTPUT_BYTE(0); //Process index
//output upper byte then lower byte
OUTPUT_BYTE(h>>BYTE_SIZE);
OUTPUT_BYTE(l);
OUTPUT_BYTE(w>>BYTE_SIZE);
OUTPUT_BYTE(w);

order1 = order>>4;
order2 = order & 15;

#ifdef TRACE
if (!(fpm = fopen("ppmenc.doc", "wb"))
{
    fprintf(stderr, " \n Error: Can't open file\n");
    exit(2);
}
#endif

/* allocate 'order+1' elements
   * 'order' is used to store the
   * the t

```

¿Enterprise?









# Sistemas enterprise

- Gran escala
- Procesos de negocios
- Flujos de información
- Análisis de datos







Sistemas de gran escala

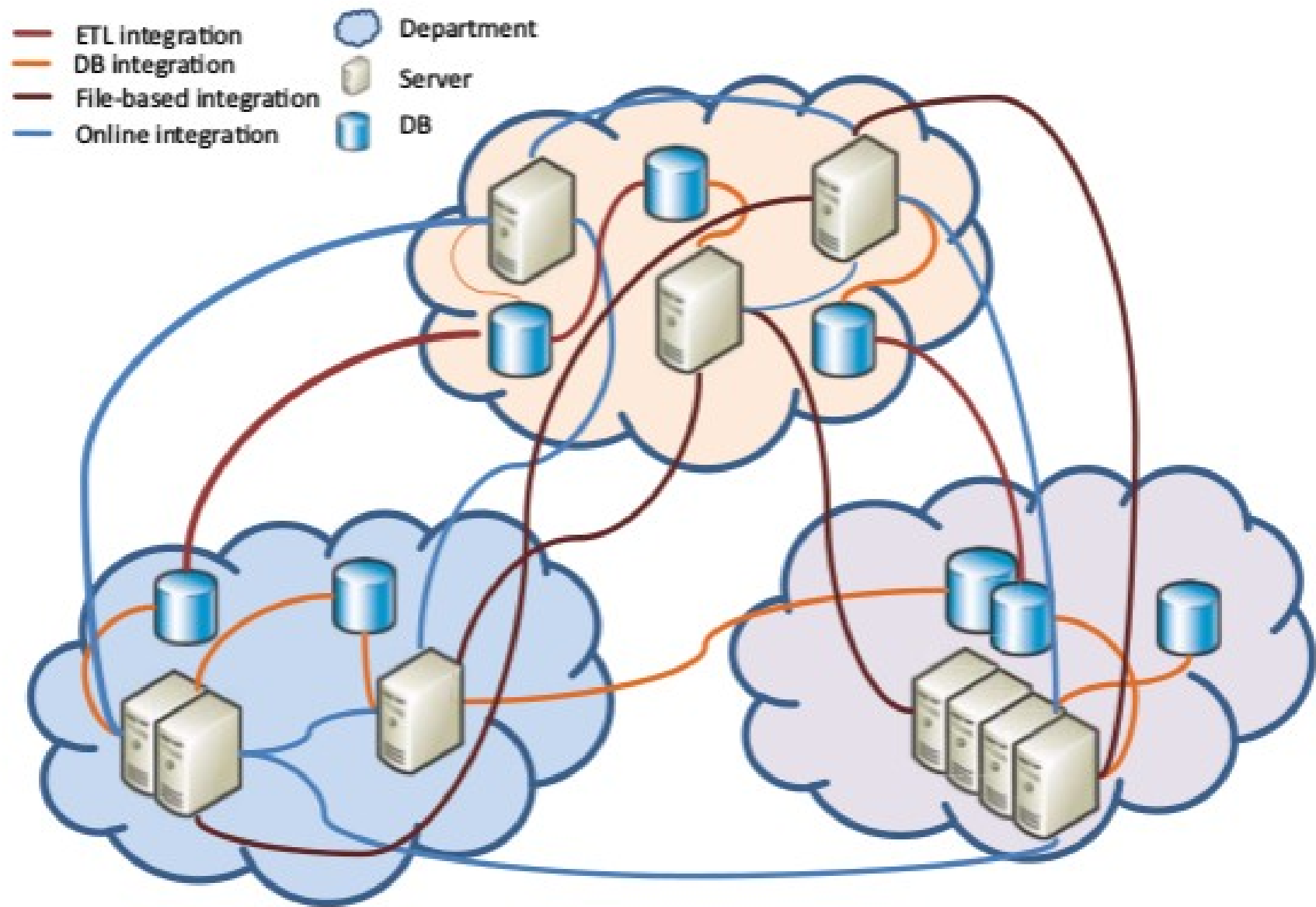
Diseñados para satisfacer al  
negocio y no a los individuos

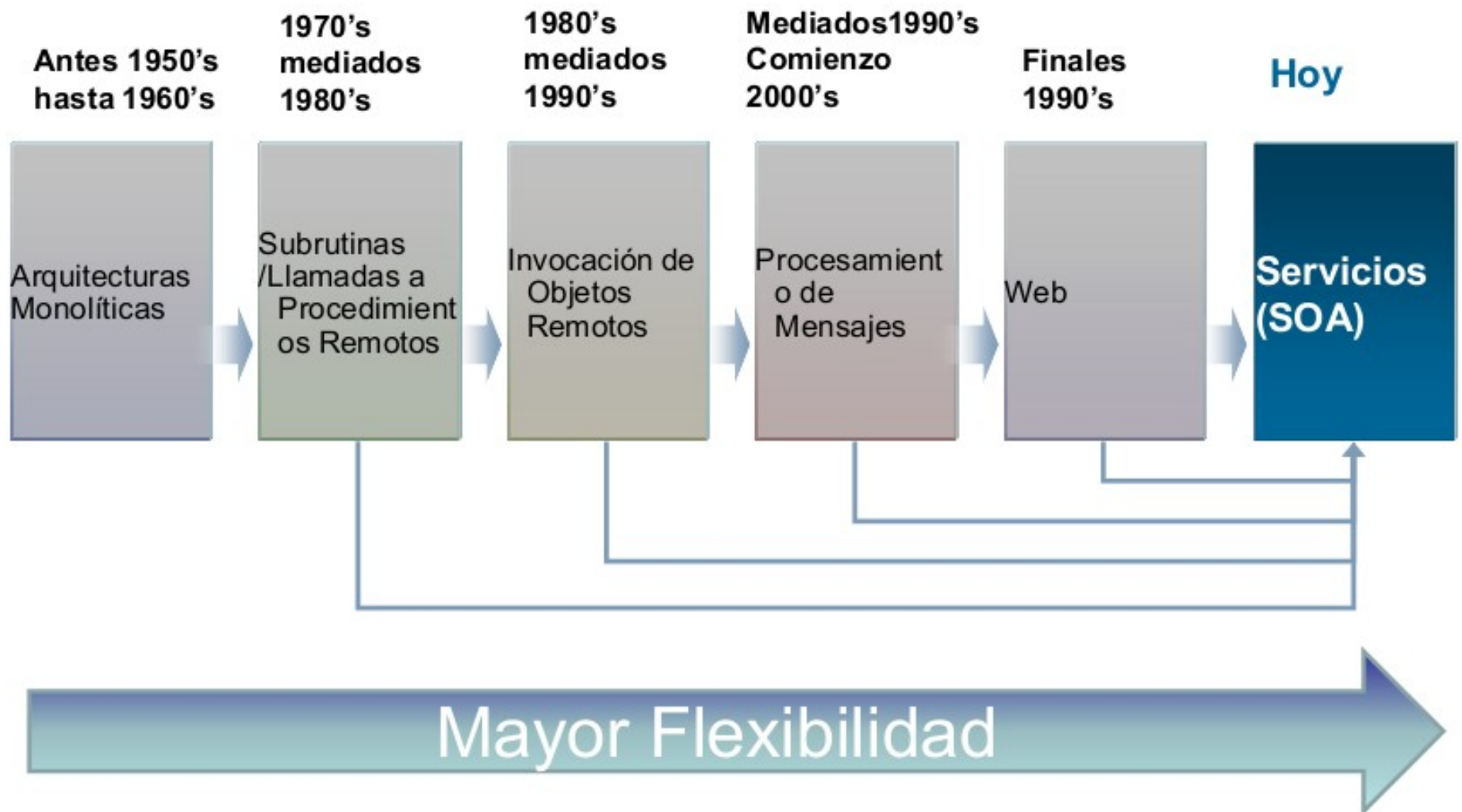
# Componentes

- Contabilidad
- Inteligencia de negocios
- Administracion de procesos de negocios
- CMS
- CRM
- ERP
- Enterprise asset management
- Enterprise resource planning

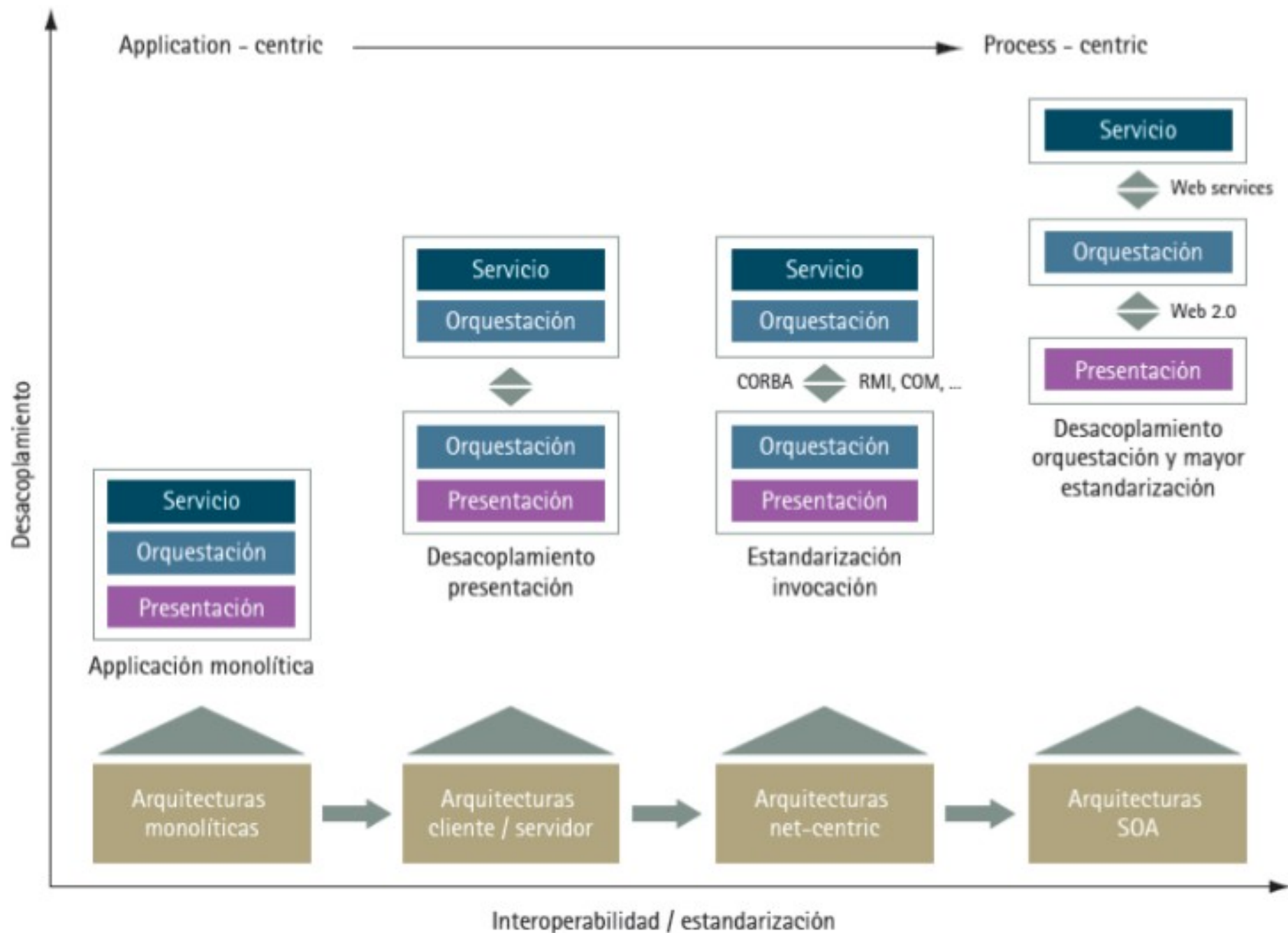


¿Como crear sistemas enterprise?

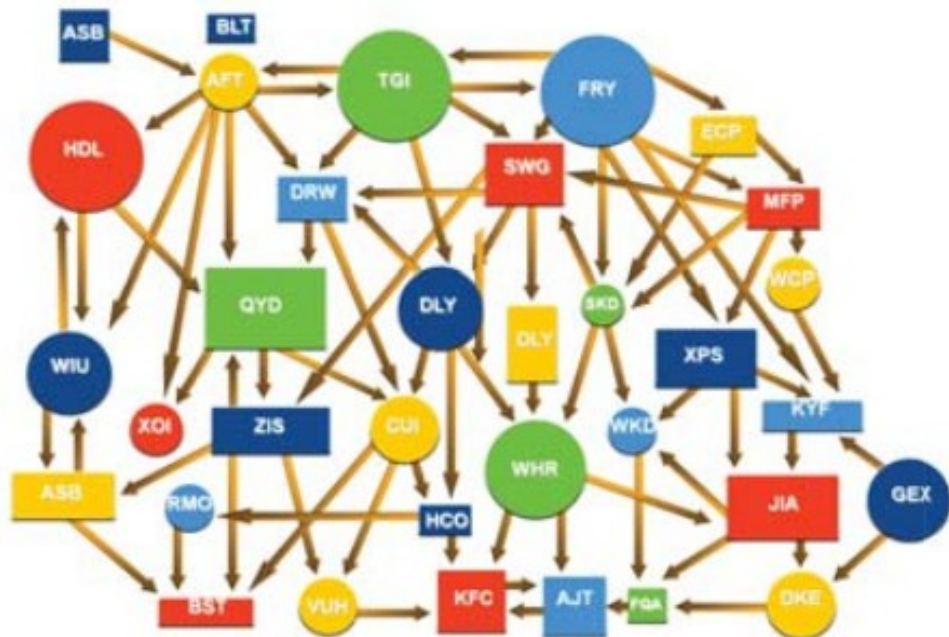




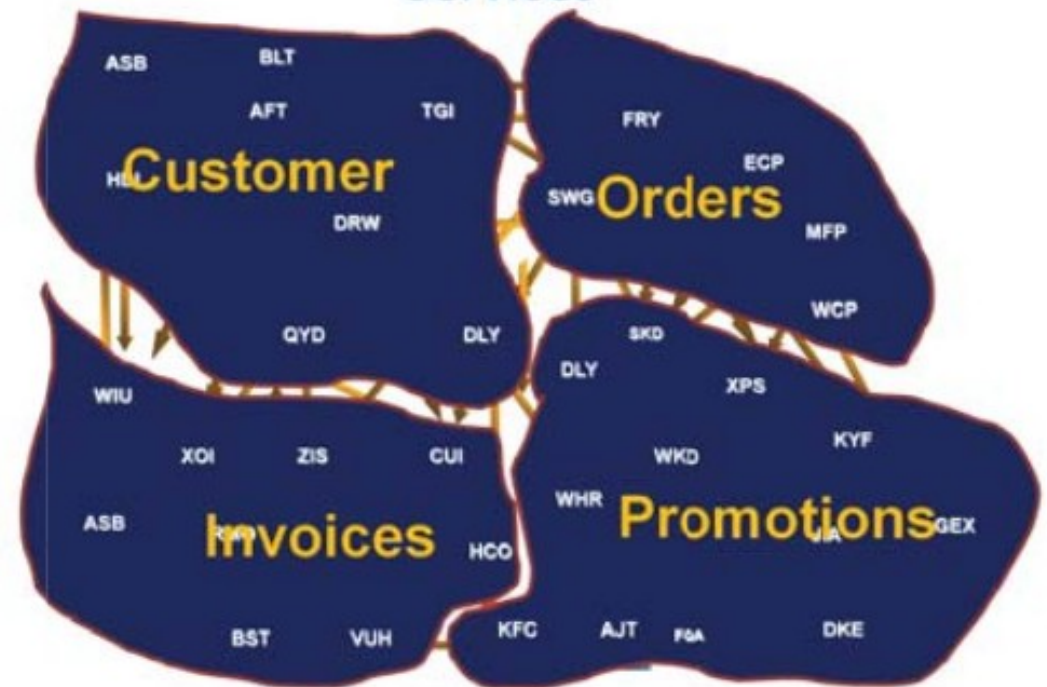




Object soup



Services



Herramientas para crear  
sistemas enterprise  
con Software Libre

# Herramientas

- Plataforma de desarrollo
- Administrador de bases de datos (relacional o no relacional)
- Modelador de inteligencia de negocios
- Sistema operativo
- Servidor de aplicaciones
- Servidor email, monitor de infraestructura
- \$\$\$\$



¿Porque usar Software Libre?



# Software Libre

- Costo
- Independencia de proveedor
- Opciones de soporte
- Seguridad
- Tendencias de mercado
- Personalización





¿Porque NO usar Software  
Libre?

# NO Software Libre

- Costo
- Disponibilidad de mano de obra
- Acuerdos comerciales
- ¿?



# Plataforma desarrollo



# Bases de datos





# Inteligencia de negocios



/\* the Business Intelligence Free Platform \*/



# Sistema operativo



SUSE  
Linux Enterprise  
Server





Quienes usan Software Libre  
(enterprise)



## CYBER CYNIC

By [Steven J. Vaughan-Nichols](#) | [Follow](#)

### OPINION

# London Stock Exchange to abandon failed Windows platform

Computerworld | Jul 1, 2009 2:20 PM PT

Anyone who was ever fool enough to believe that Microsoft software was good enough to be used for a mission-critical operation had their face slapped this September when the [LSE \(London Stock Exchange\)'s Windows-based TradElect system brought the market to a standstill](#) for almost an entire day. While the [LSE denied that the collapse was TradElect's fault](#), they also refused to explain what the problem really was. Sources at the LSE tell me to this day that the problem was with TradElect.

### MORE LIKE THIS

[London Stock Exchange dumps Windows for Linux](#)

[EXTRA: London Stock Exchange: blame Microsoft?](#)

[London Stock Exchange moves to Linux](#)



# London Stock Exchange smashes world record trade speed with Linux

New system double speed of rivals, LSE says

By [Leo King](#) | [Computerworld UK](#) | Published 10:51, 20 October 10

0 1 0 0 172

The London Stock Exchange has said its new Linux-based system is delivering world record networking speed, with 126 microsecond trading times.

The news comes ahead a major Linux-based switchover in twelve days, during which the open source system will replace Microsoft .Net technology on the group's main stock exchange. The LSE had long been criticised on speed and reliability, grappling with trading speeds of several hundred microseconds.

## Also in this channel

- [News](#)
- [In Depth](#)
- [How-Tos](#)
- [Blogs](#)
- [Slideshows](#)

# Case Study: Brazil's national health care system

**Tag:** ejb, bean, Drools, interceptors **Category:** [java](#) **Author:** zhengquan1990 **Date:** 2009-06-10

Brazil's national health care system has been hailed as the world's largest enterprise applications, involving more than 200 million lines of code, to include a 350 area module. The system can imagine the various administrative areas nationwide modular, they realize automation to create a huge value to the public health care system, let the Brazilians benefit. This case study, do detailed and in-depth exploration of all aspects of system architecture, solutions, lessons and inspiration, as well as project future trends.

The problem domain Brazil is one of the few in the world to provide completely free public health care system. And all major public service facilities, there are a lot of operational problems, the original lot of work above are based on a large number of paper documents, government departments and local health care sector IT systems, only a small part of the implementation of the integrated. For example:

## SOFTWARE // OPERATING SYSTEMS

### NEWS

5/14/2008  
05:56 PM

## New York Stock Exchange Runs Trades On Red Hat Linux



Charles  
Babcock  
News

**The conversion to Linux followed the acquisition of the Euronext exchange in 2007, and the open source operating system is now powering the NYSE's mission-critical trading systems.**

The New York Stock Exchange and its European subsidiary exchanges are running their trading systems on Red Hat Enterprise Linux, Red Hat announced Wednesday, as it unveiled a new marquee customer.

Linux has been known to be in use at several New York financial services firms, but few have stepped up to the podium to testify on the value of their implementations. As a result of mergers and acquisitions, the New York Stock Exchange has migrated over the last few years from HP-UX to IBM AIX to Sun Solaris to Linux. NYSE Group CIO Steve Rubinow said the conversion to Linux followed the acquisition of the Euronext exchange in 2007. Unlike some

Connect Directly



0

COMMENTS

[COMMENT NOW](#)

# Twitter Shifting More Code to JVM, Citing Performance and Encapsulation As Primary Drivers

Posted by [Charles Humble](#) on Jul 04, 2011 |

Share  |

While it almost certainly remains the largest Ruby on Rails based site in the world, Twitter has gradually been moving more and more of its stack to the JVM. The change is partially motivated by oft-cited advantages of the JVM, such as performance and scalability, but is also driven by a desire for better encapsulation of individual services, and other architectural concerns.

Last year the company announced that both its back-end message queue and Tweet storage had been re-written in Scala, and in the spring of 2010 the search team at Twitter started to rewrite the search engine. As part of the effort, Twitter changed the search storage from [MySQL](#) to a real-time version of [Lucene](#). More recently the team [announced](#) that they were replacing the Ruby on Rails front-end for search with a Java server they called Blender. This change resulted in a 3x drop in search latencies.



But over the past few years, Java has evolved into something very different. It has quietly become the primary foundation for most the net's largest and most ambitious operations, including Google, [LinkedIn](#), [Tumblr](#), and [Square](#), as well as Twitter. "It's everywhere," says Krikorian.

In the summer of 2011, Bob Lee — the chief technology officer at Square and a former engineer at Google — announced at a [prominent software conference](#) that the web was "on the cusp of a Java renaissance." Two years later, this renaissance is upon us. Like Twitter, many other companies have realized that Java is particularly well suited to building web services that can stand up to the massive amounts of traffic streaming across the modern internet.

"Java is really the only choice when it comes to the requirements for a company like ours — extreme performance requirements and extreme scalability requirements," Lee says of Square, the San Francisco startup that processes \$15 billion a year in credit and debit card transactions via mobile phones and tablets. "There is no viable alternative."

**'JAVA IS REALLY THE ONLY CHOICE WHEN IT COMES TO THE REQUIREMENTS FOR A COMPANY LIKE OURS — EXTREME PERFORMANCE REQUIREMENTS AND EXTREME SCALABILITY REQUIREMENTS. THERE IS NO VIABLE ALTERNATIVE'**

— BOB LEE

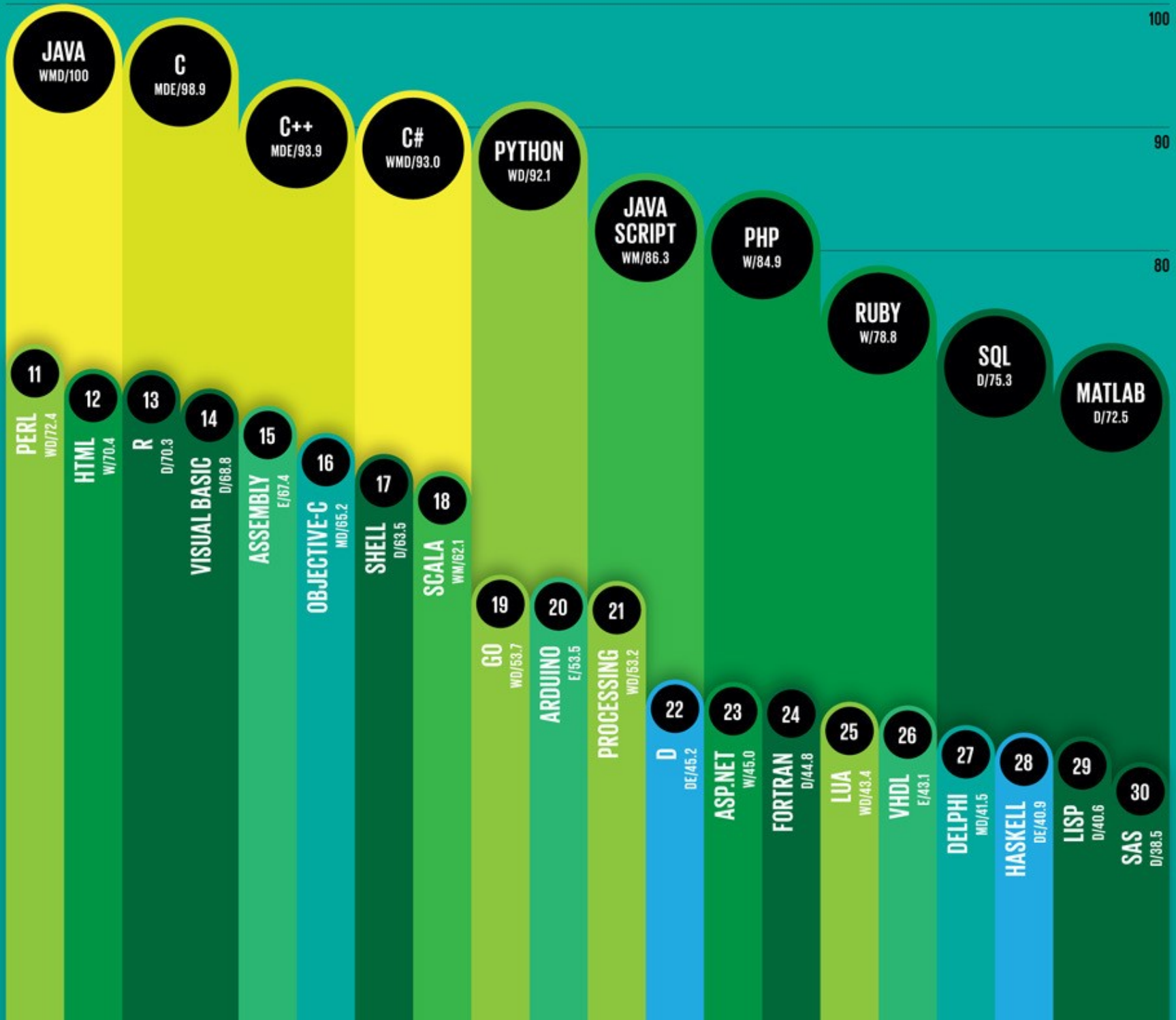


Discover more resources for these services: [Virtual Machines](#)

## Linux on Azure-Endorsed Distributions

The distribution images on the Azure Gallery are provided by the following partners, and we are working with the various Linux communities to bring even more endorsed distributions. In the meantime, for distributions not available from the Gallery you can always Bring Your Own Linux by following the guidelines on [this page](#).

Encuesta rápida



Creando sistemas enterprise  
con Software Libre



# Creando sistemas enterprise con ~~Software Libre~~ Java Enterprise Edition 7

Víctor Orozco  
Guatejug







Open vendor support

Core estable para una  
comunidad vibrante

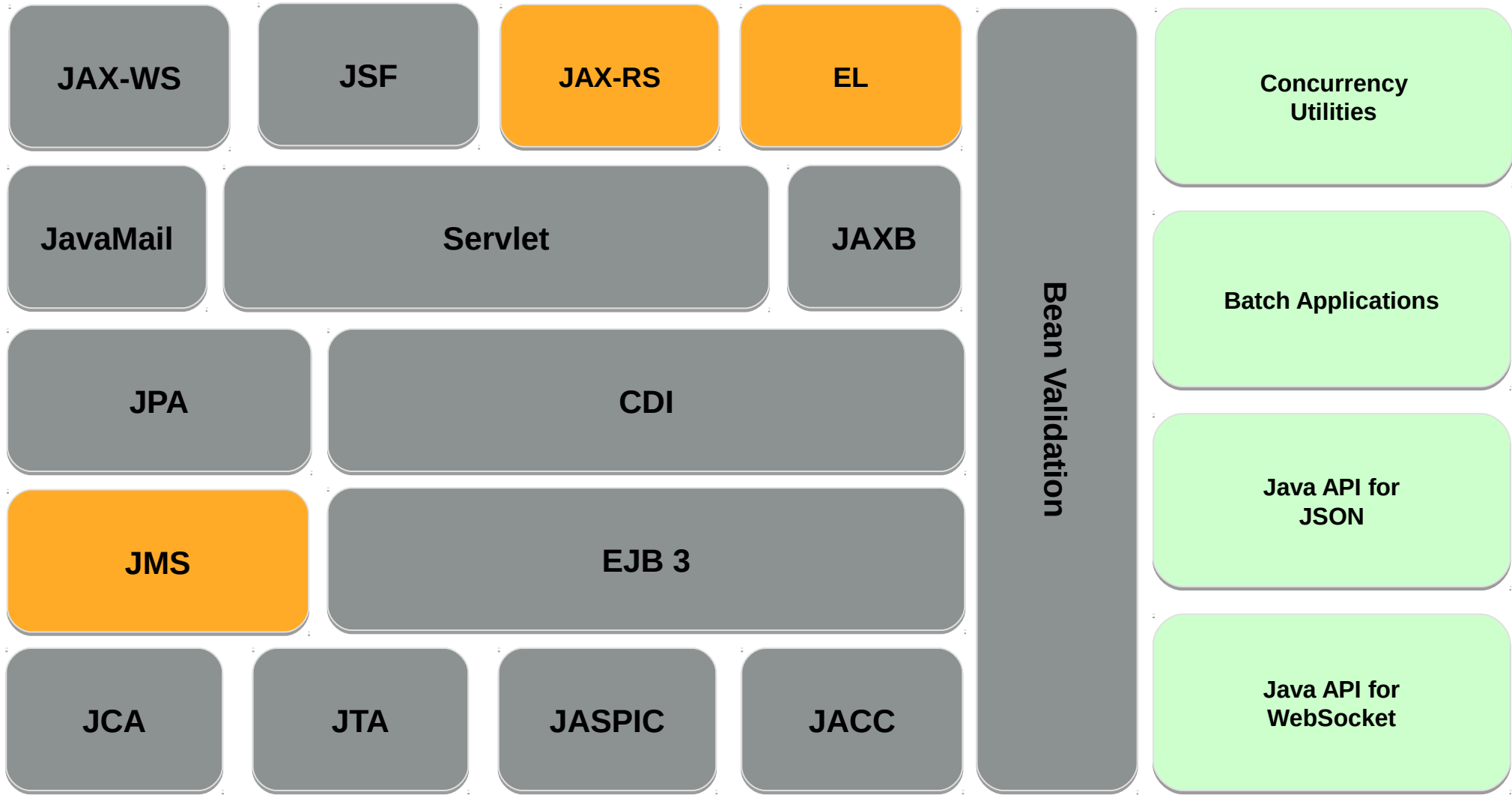


Convention over configuration

APIs no redundantes

# Java Centrico

Static typing, orientado a  
objetos, simple y altamente  
compatible hacia atras



# Java EE

- No XML hell
- No configuration hell
- No jar/dependency hell
- No feature bloat
- No snake-oil/hypeware
- No bloated deployments
- No lock-in





Móvil



iOS



Escritorio



Servidor



Bases de datos



Web



Sales Force Automation/CRM

## BlackBerry Customer Success Story

Guatemalan Product Distributor Streamlines  
Billing, Service and Product Management with  
Help from BlackBerry Solution



CODIMISA is a Guatemalan company that imports and distributes personal care, cosmetics and consumer products, representing a number of international brands. Established

### THE CHALLENGE

CODIMISA's sales reps visit clients to close deals and collect payments, and only return to their offices once a week. They were carrying mobile devices that allowed them to view the products, price lists and special discounts needed to close deals, but the devices didn't have phone or email functionality. Data was also not synchronized with the company's ERP system so the reps would have to return to the office to transfer information to their computers. This process often resulted in outdated product and pricing lists, sometimes causing the reps to order products for customers that weren't available.

# Recursos

- Java EE Tutorials
  - <http://docs.oracle.com/javaee/7/tutorial/doc/home.htm>
- Digging Deeper
  - <http://docs.oracle.com/javaee/7/firstcup/doc/home.htm>
  - <https://glassfish.java.net/hol/>
  - <https://java.net/projects/cargotracker/>
- Java EE 7 Transparent Expert Groups
  - <http://javaee-spec.java.net>
- Java EE 7 Reference Implementation
  - <http://glassfish.org>
- The Aquarium
  - <http://blogs.oracle.com/theaquarium>





# Resumen

- Gran escala
- SL = Opciones
- JEE/JVM = Una de las mejores opciones
- La solución se debe adaptar al negocio y no el negocio a la solución



# JAVA DAY

GUATEMALA  
2014

▶ *SÁBADO 11 OCTUBRE* ◀

▶ *09:00 - 17:00 HRS* ◀

▶ *CENTRO TIC'S INTECAP ZONA 5* ◀

Calle del Estadio Mateo Flores 7-51, Ciudad de Guatemala

**ENTRADA LIBRE**

Parqueo Tarifa Única Q 10.00





# Gracias

- <http://tuxtor.shekalug.org>
- [tuxtor@shekalug.org](mailto:tuxtor@shekalug.org)

CC BY-SA 3.0 GT

