



Tendances Logicielles

L'architecture pour répondre aux besoins métier

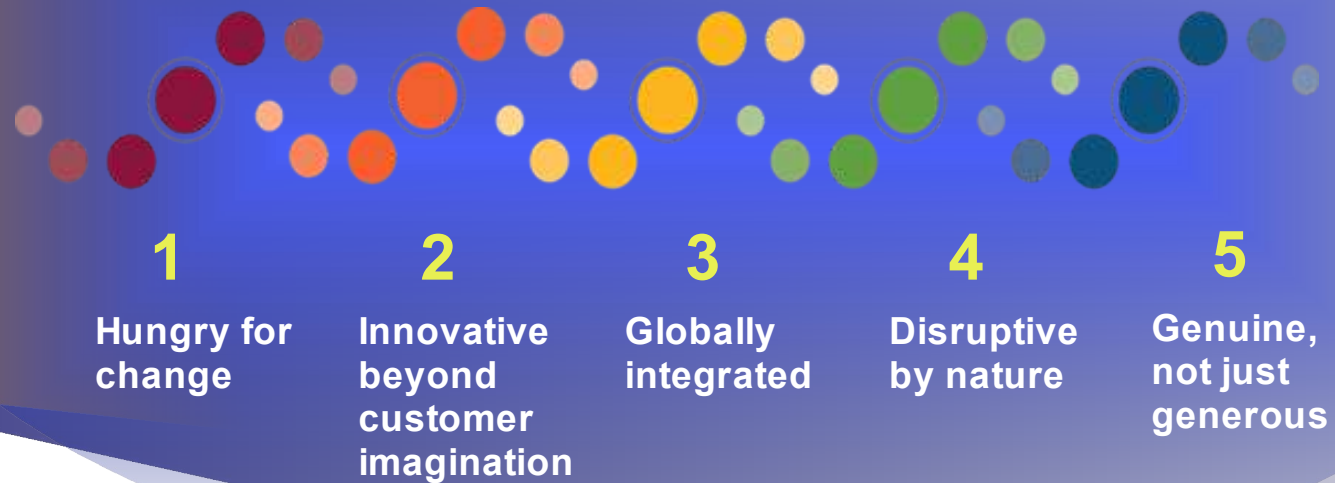
WebSphere Application Server V7 Bénéfices des nouveautés pour les exploitants

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Core Traits of the Enterprise of the Future

CEO Study



CFO Study



Human Capital Study



The What and Why of Application Servers

What is an application server?

- Provides the infrastructure for delivering business logic to end-users on a variety of client devices

Why is it important?



Cut costs / increase developer productivity



Ensure application reliability and security



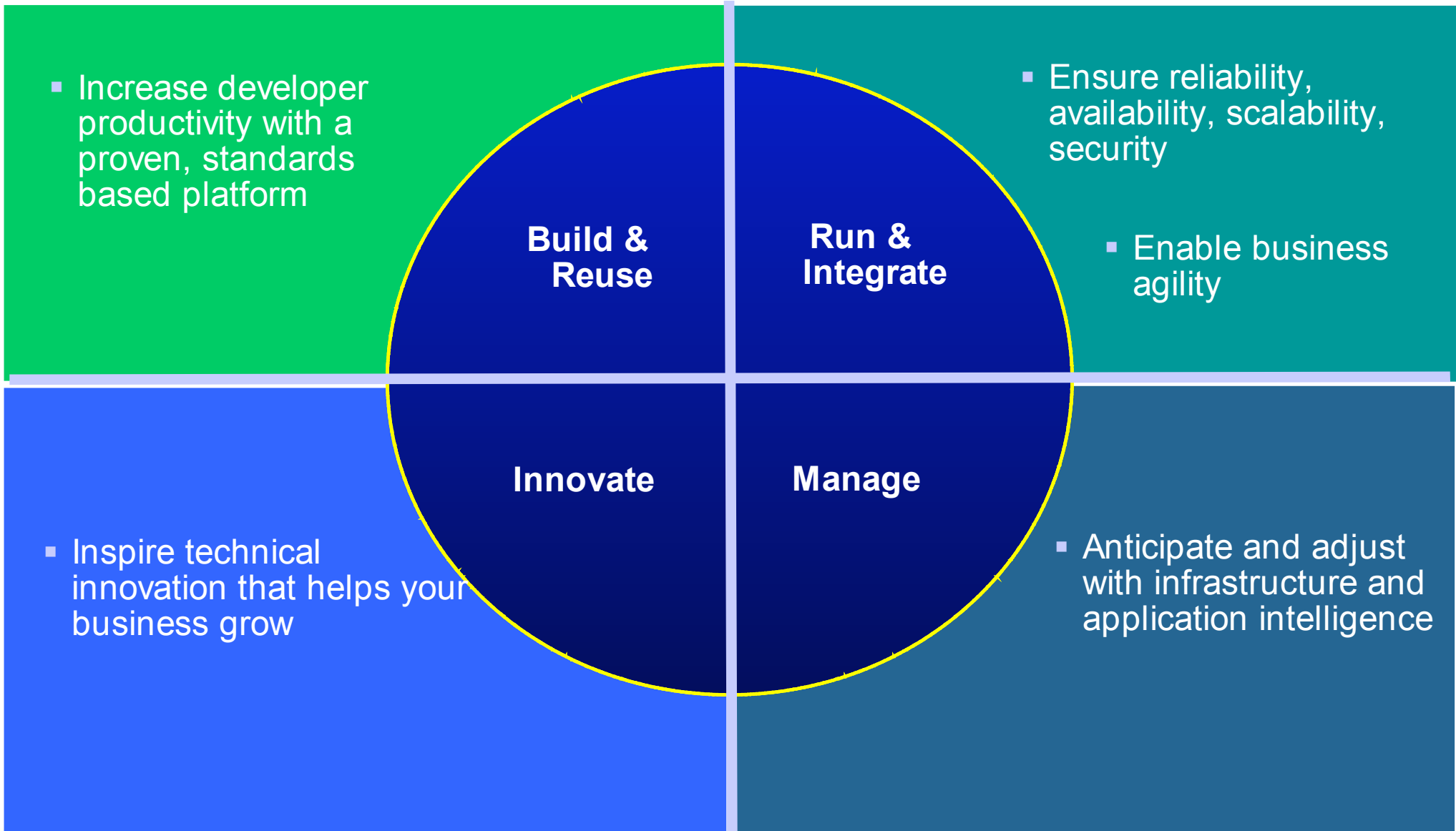
Enable collaboration & reuse



Reduce management & maintenance complexity

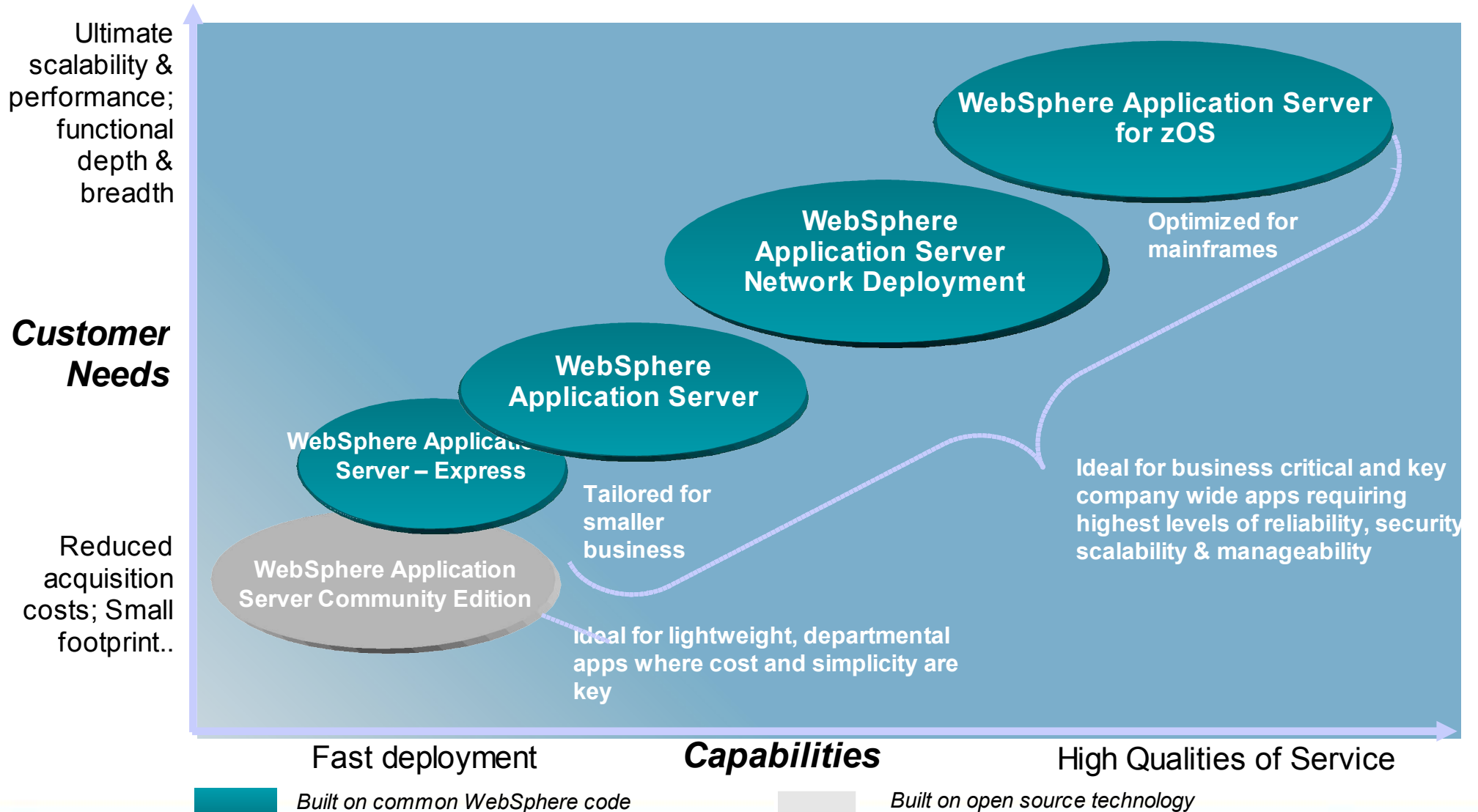


Application Servers Should....



IBM WebSphere Application Server Family

Your Choice of Innovative Performance Based Application Foundations



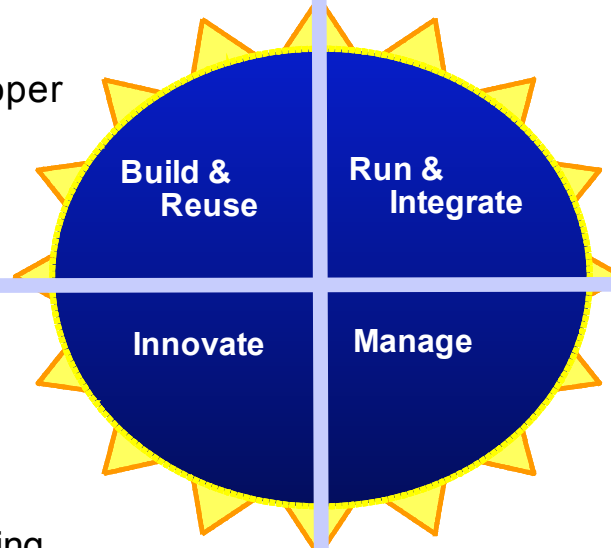
IBM WebSphere Application Server Version 7

Simplification for Developers

- **New and enhanced** Standards: Java EE 5 certification, EJB3, Web Services
- Web 2.0
- Feature Pack Strategy
- **New** Rational Application Developer Support

High Performance Foundation for SOA

- Performance leadership
- **New** Runtime Provisioning
- **New and Enhanced** Security Features
- Multi-Cell Support
- Application investment protection
- **New** Consolidated WebSphere and DataPower administration



Innovation that Matters

- Feature Pack for Web 2.0
- Feature Pack for SCA
- Broad support for new programming models; J2SE 6, Java EE 5, WS-I Reliable Secure Profile, SIP and more

Intelligent Management

- **New Flexible Management: Job Manager, Admin Agent**
- **New** WebSphere Business Level Applications
- **New** Centralized Installation Manager



High Performance Foundation for SOA

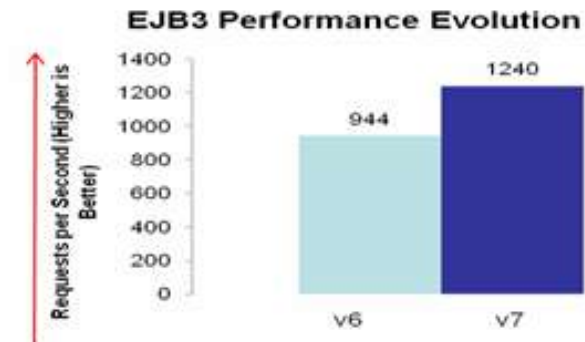
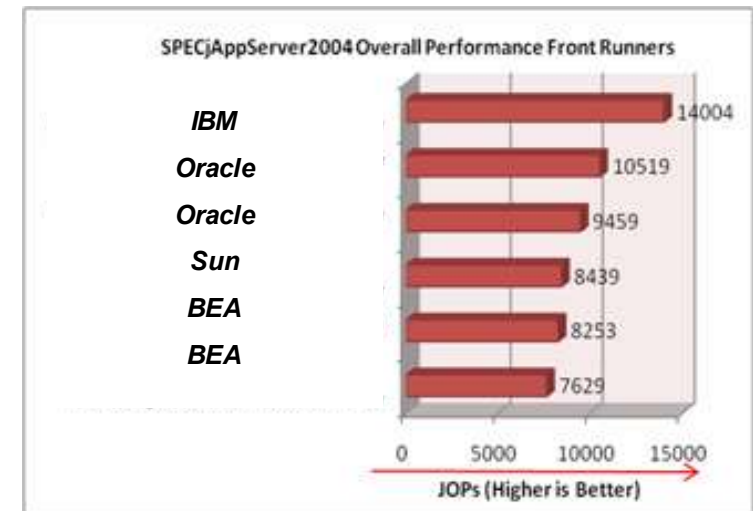
- *Grow your business on a reliable, available, scalable, secure foundation that promotes business agility*



Optimized Runtime Performance

Do more with less. Better performance means you need fewer processors = savings in hardware and energy!

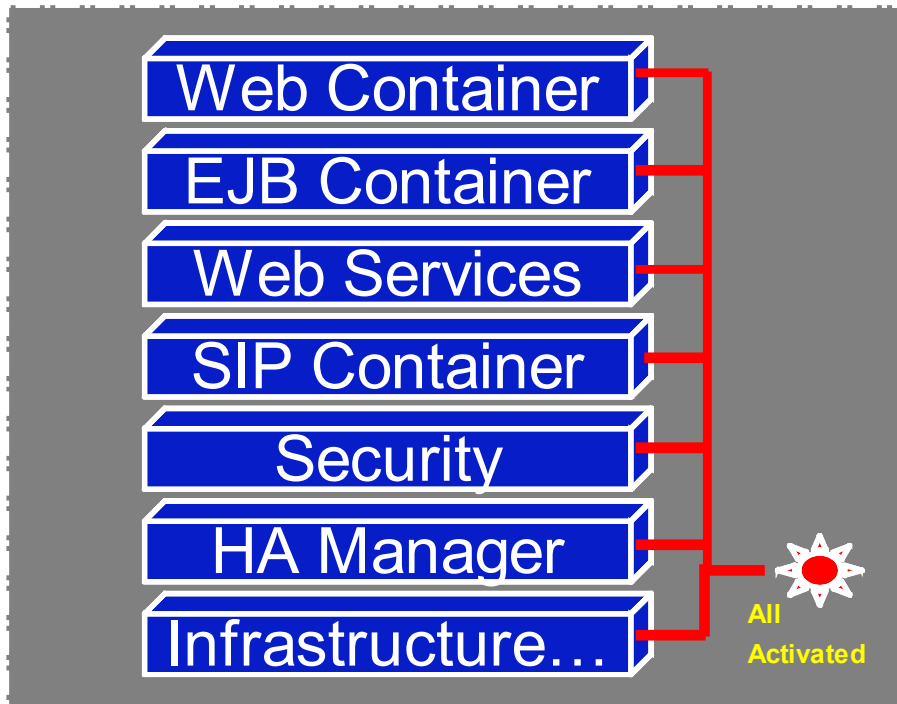
- Dominates the overall benchmark category by 33%
- Commanding lead in the throughput per core and single 4-core system categories
 - Leading Oracle/HP and Oracle/Sun by more than 16% in performance per CPU core
- Technology that costs half the price of the competition running more than 75,000 transactions per second against a database
- V7 Web Services performance improvements of up to 100% over the WAS V6.1 Web Services FEP
- 64-bit memory and performance now equivalent to 32-bit!



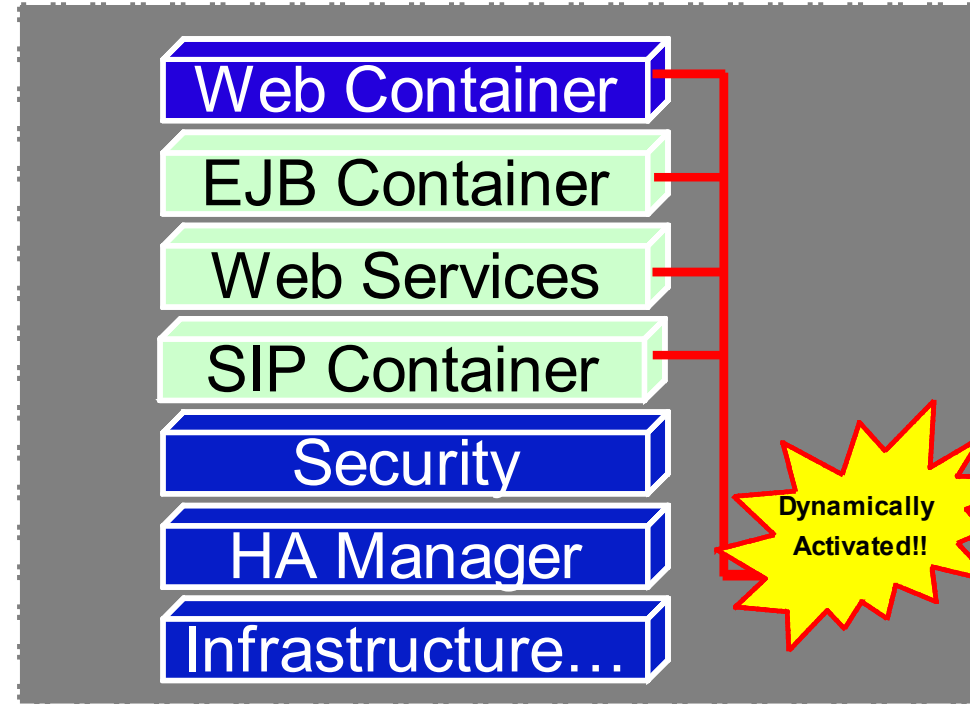
Runtime Provisioning

Selects only the needed functions for memory and space efficiencies significantly reducing the application server footprint and start-up times

V6.1 Server



V7 Server



Security Auditing

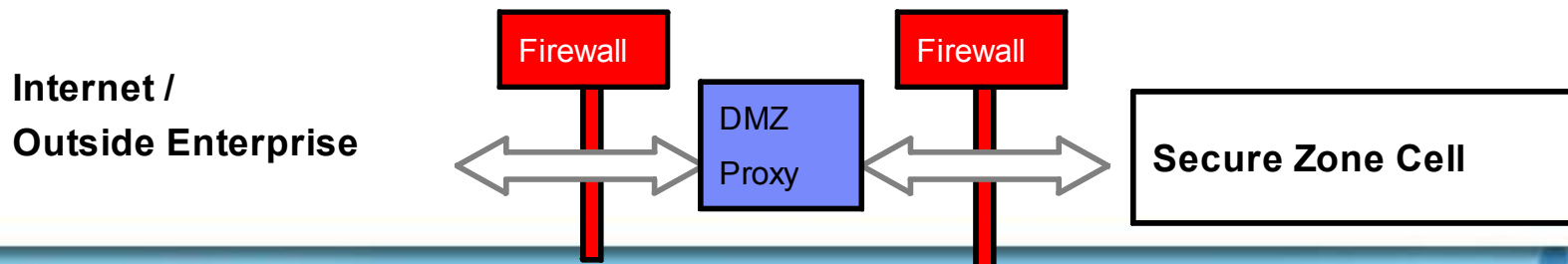
KNOW when, how, who and what changes are being made to your system!!

- Option to generate security auditing records of WebSphere administrative actions
- Option to generate security auditing records of business applications
- Ability to integrate with third party security auditing services
- Separation of administrative user privileges: Administrator and Auditor



WebSphere Secure Proxy

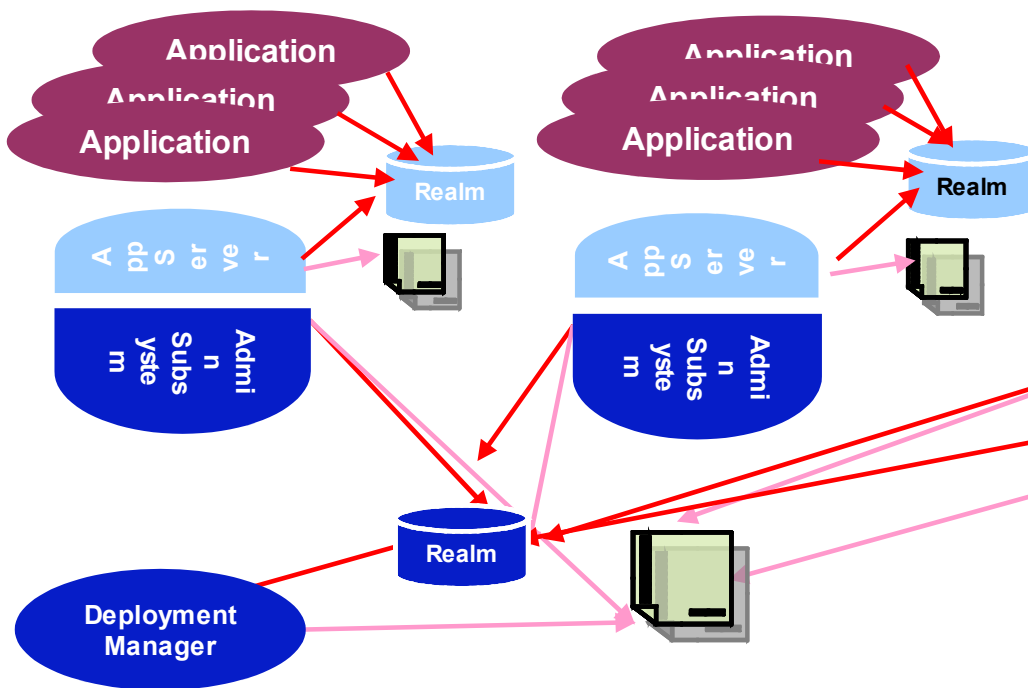
- Proxy Server hardened for DMZ topologies
- External ports reduced to bare minimum to support proxying
- Loads only digitally signed jars
- Runs as unprivileged user while binding to well known ports



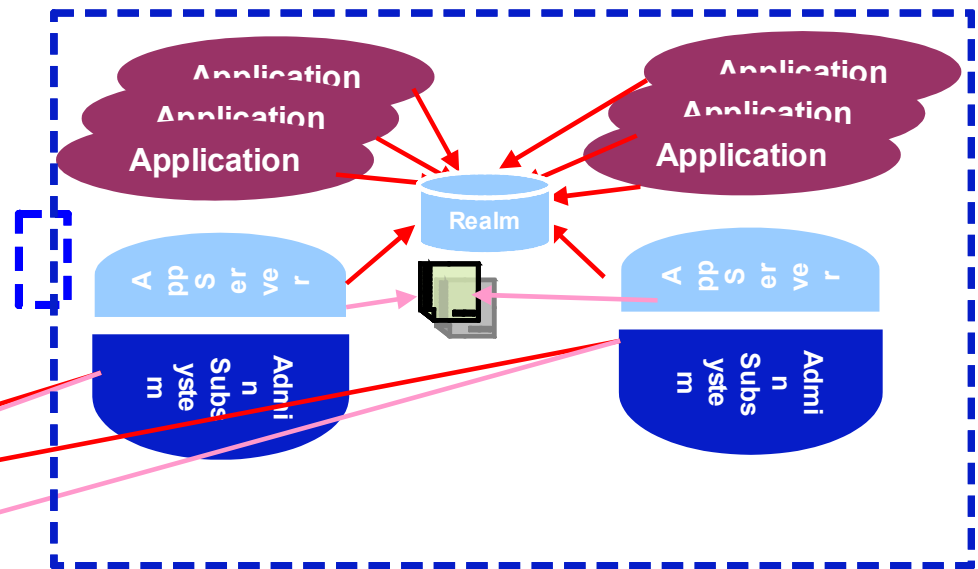
WebSphere Multiple Security Domains

Greater granularity, flexibility and control over users and infrastructure reduces administrative costs and keeps your infrastructure safe

Applications can have their own application security domain. Own user population



Deployment Manager, Node Agent, and the Admin Subsystem common administrative security domain.



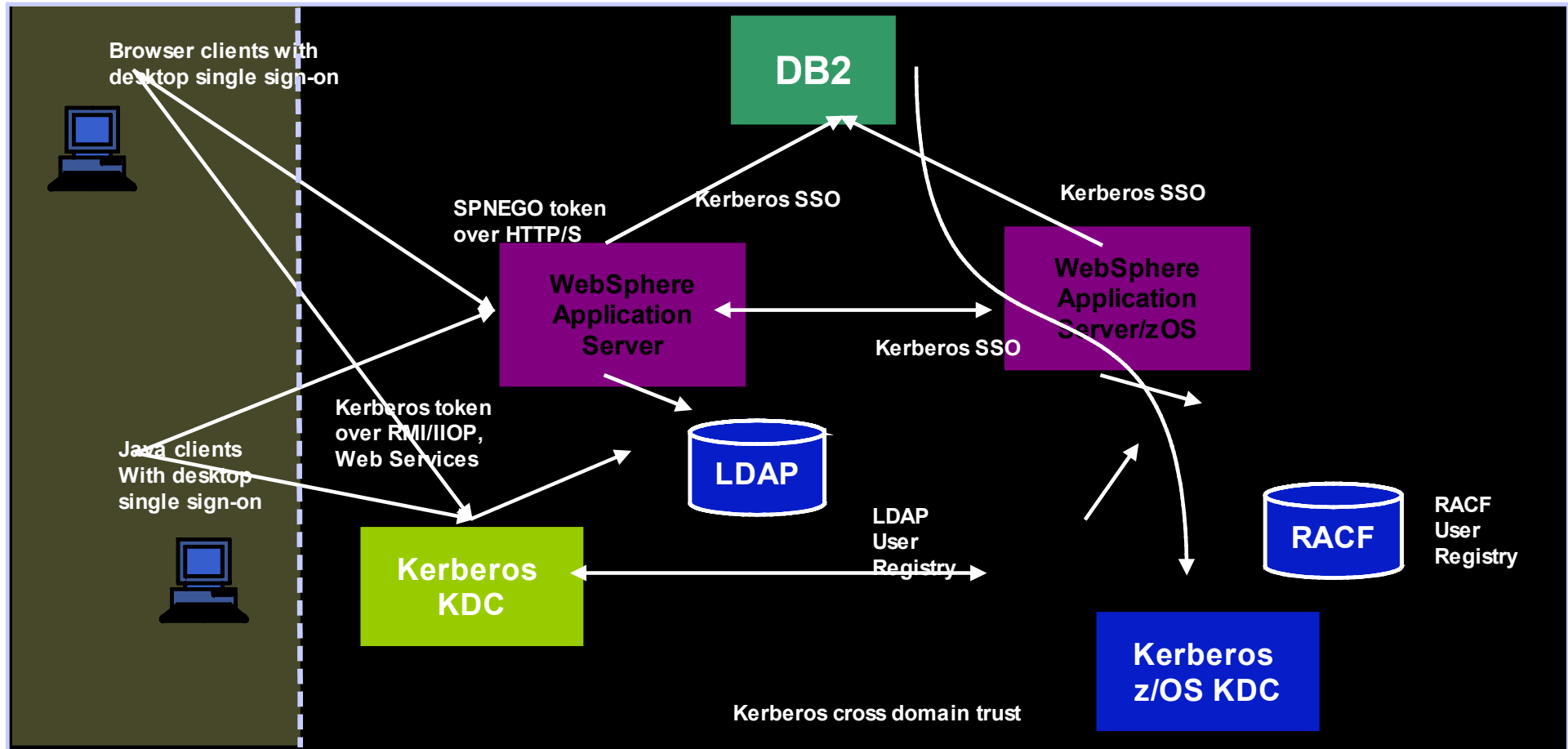
Applications in a cluster share a common application security domain.

- Prior to V7, single security domain per cell
- Multiple security domains provide flexible security configuration under centralized management
- Option to separate User security domain from administrative security domain



Kerberos Authentication And Single Sign-on

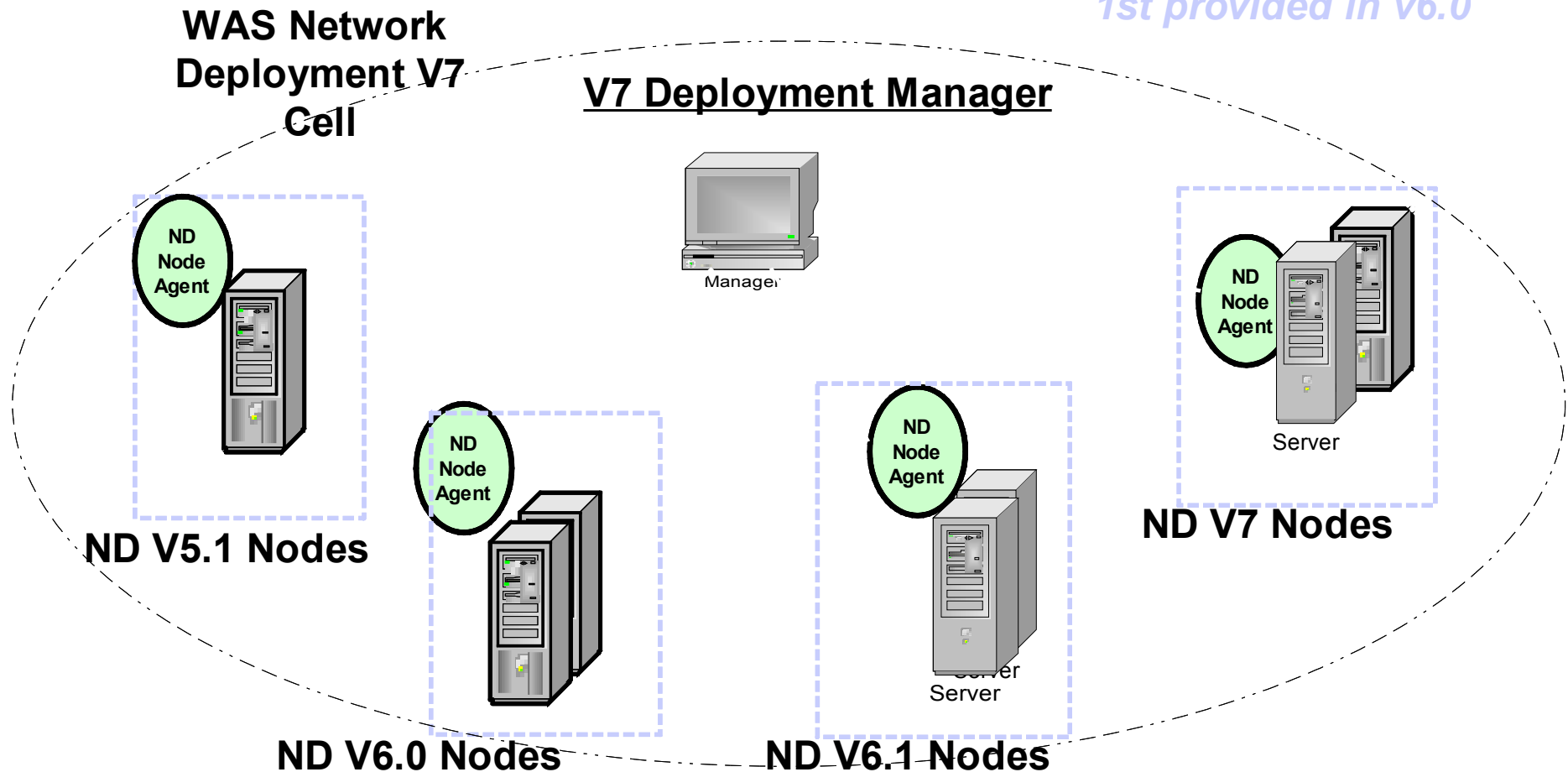
Improved interoperability with other applications and environments eases security administration and ultimately, cost



WAS Mixed-cell Support

Adopt newer infrastructure as your plans require, saving time and money

1st provided in v6.0



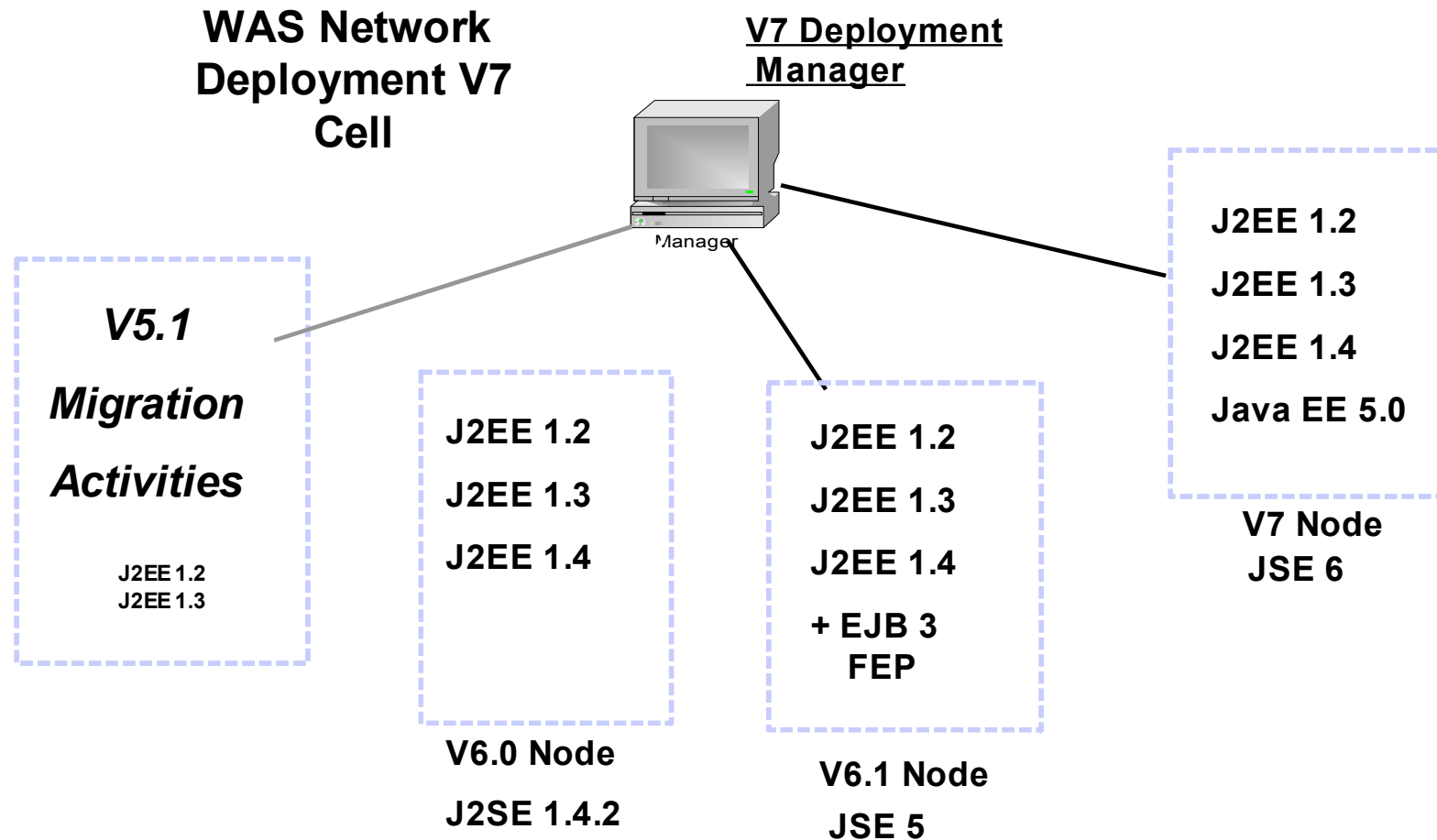
V7 Cell can contain 5.1 6.0, 6.1 & V7 nodes

Supported for continued operation as well as staging upgrades (5.1)



Continued Support for Existing Applications

Eliminate Intensive Cost and Development Resource

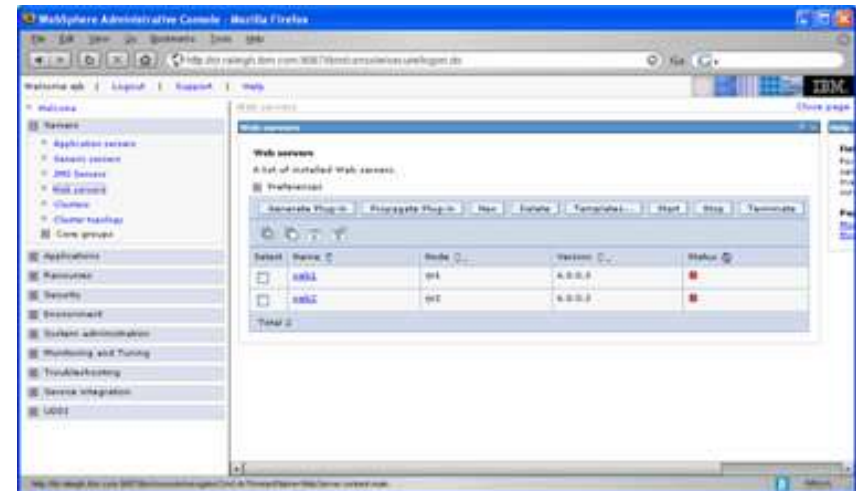


Existing applications run unchanged in new WAS versions
 Programming models added, not replaced

WebSphere and DataPower

A next step in the evolution of broader administration integration across WebSphere.

- Single Admin interface for managing both WAS and DataPower
 - Tighter integration for management
- Admin interface for managing multiple DataPower boxes
 - Multi-box management (existing DataPower requirement)
- Single point of administration for solutions that combine WebSphere Application Server applications with DataPower



Intelligent Management

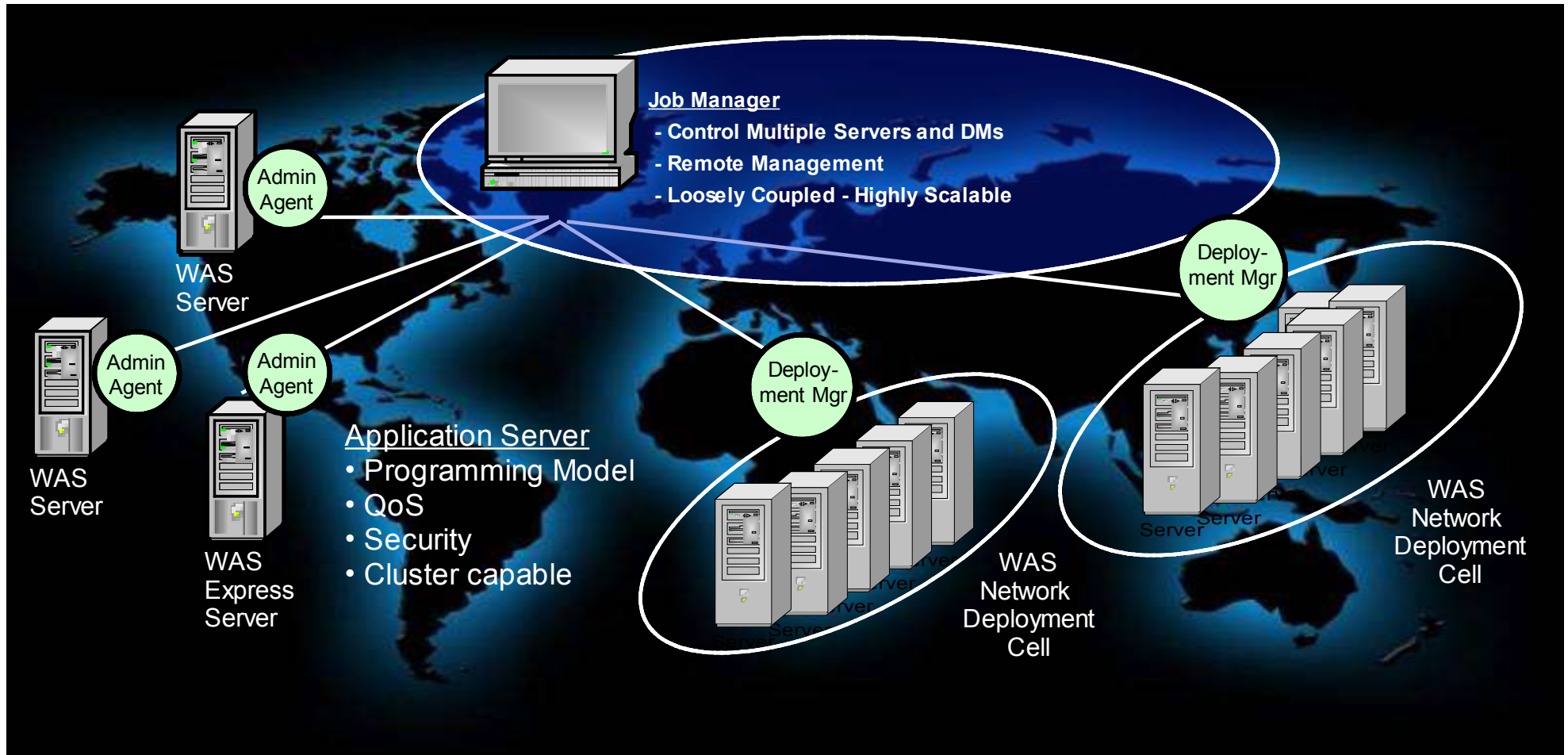
- *Anticipate and adjust to evolving business and technology needs with infrastructure and application intelligence*



Flexible Management

For cost effective worldwide growth

- Job Manager for expanded central administration
- Central administration agent for WAS Express and Base



Flexible Management Options

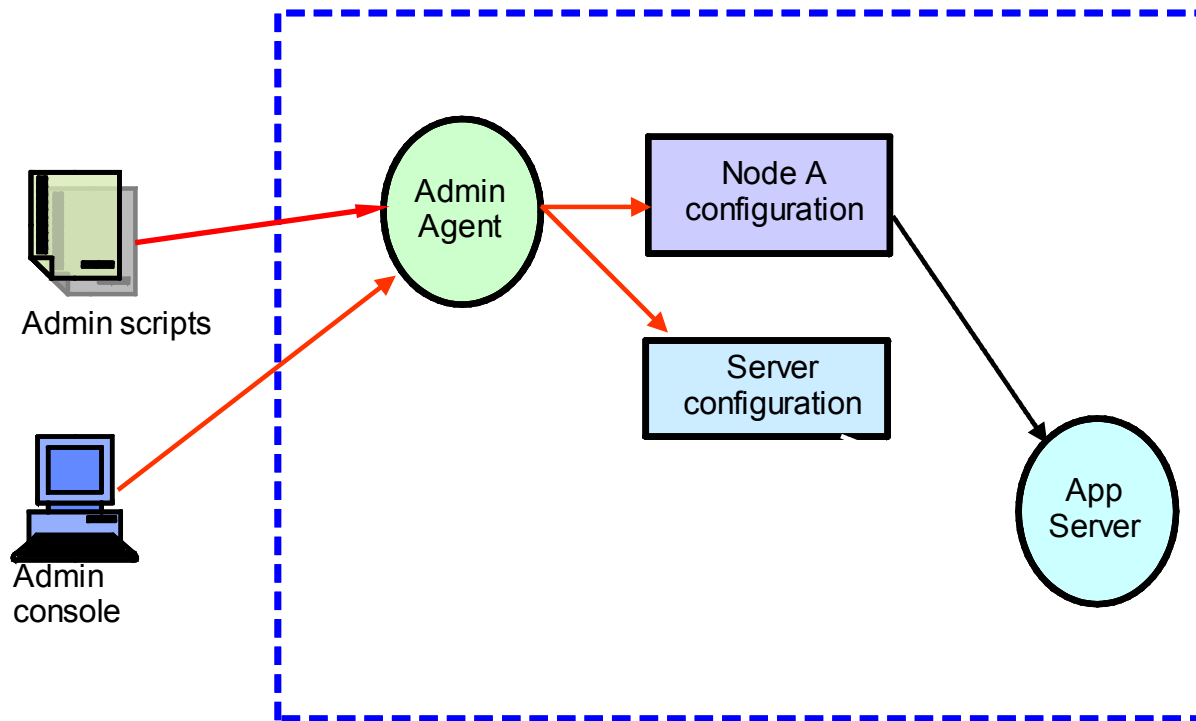
Improves control and eases administration

WebSphere Application Server
V7 Base and Express Product Architecture

- Central administration of Express and Base servers

- Admin logic hosted in separate JVM from application server offloading the application server

- Admin agent can manage multiple local nodes



Centralized Installation Manager

Simplifying Installation & Deployment

- Supports centralized installation from the Deployment Manager to Nodes in the cell
- Single install to the Deployment Manager which allows Push install package from DMGR to endpoints
 - Select a set of hosts and push to those endpoints
 - Installs appropriate endpoint code based on type of endpoint
 - Agent-less
- Centralization of patch management



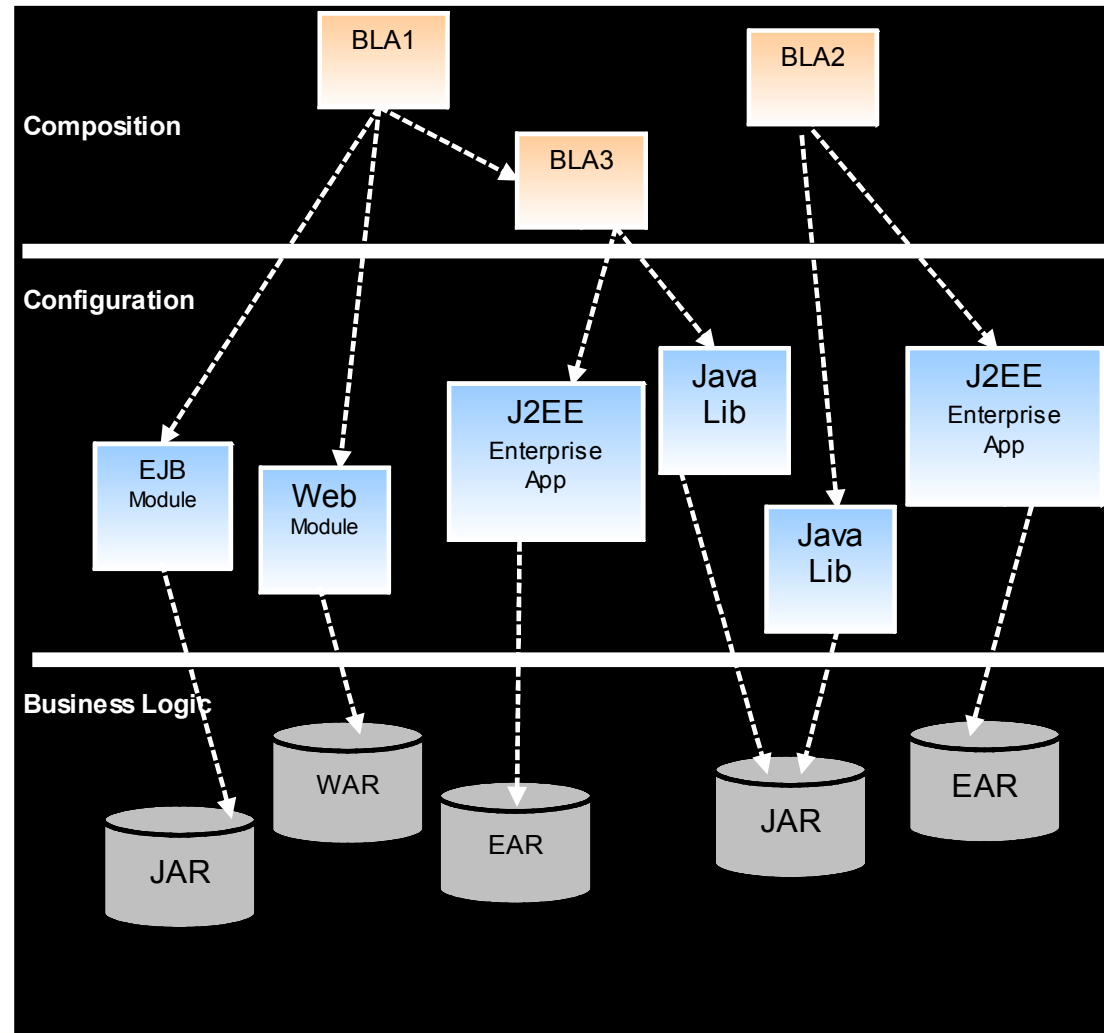
WebSphere Business Level Applications

Significantly improves the management of multi-component applications, simplifying administrative tasks

- **A composition model that extends the notion of “Application”**
 - Manages JEE and non-JEE artifacts like SCA packages, libraries, proxy filters etc.
 - Performs dependency management by tracking relationships between application components
 - Supports Application Service Provider (ASP) scenarios by allowing single application binaries to be shared between multiple deployments

- **Supports full lifecycle management of applications**
 - Install, distribute, activate, update, remove

- **Aligns WebSphere Applications better with business as opposed to IT configuration**



Questions

