Oracle
WebLogic

Weblogic 12c Overview

Brief History

- Founded in 1995

- BEA Systems acquired Web Logic, Inc. in 1998 after which it became BEA web Logic.

- Oracle acquired BEA in 2008, following which it became Oracle Web Logic.

- Weblogic benefits from Oracle acquisition and Oracle's overall vision and ability to execute.

- Oracle acquired Sun which gave Weblogic the strategic advantage for java integration and cloud computing.

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Market Leadership

## According to Gartner

- Holds more market share than its four closest competitors
- Grew at a rate of 17.8%, faster than the industry average of 121 percent
- Holds over 10% more market share than IBM's application server.
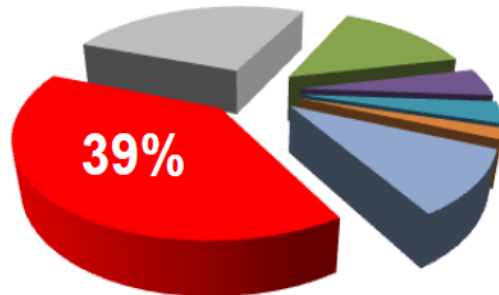
According to IDC

- 36% Share for Oracle
- Oracle has increased its lead in application servers
- Oracle's growth is above that of the industry average
- Number two player is growing in market-share below that of the industry average at 149%

39%

43%

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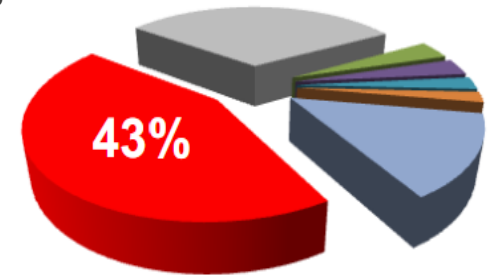
Brief Overview - Features

- Development and Deployment of multi-tier distributed enterprise applications.

- Caching and connection pooling for improved performance.

- Enterprise-level Security.

- Powerful administration facilities.

- Diagnostic Framework.

- Supports a variety of client types.

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Introducing Weblogic 12C

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Overview - Architecture
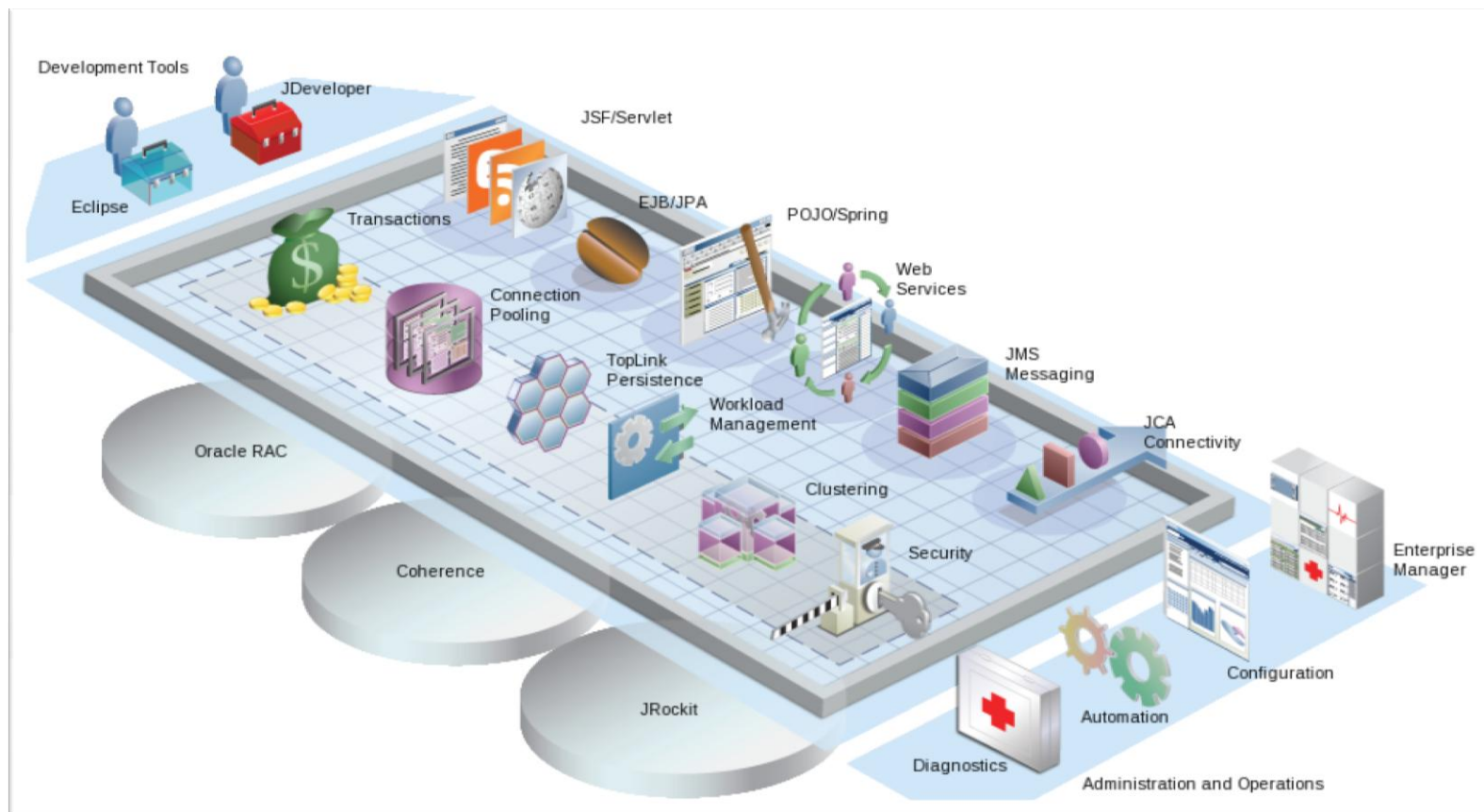
WebLogic 12c has over 200 new features.

Cloud and Scalability

- The new DR capabilities
- Optimized WebLogic Virtual Appliances
- Integrated traffic management
- Coherence Exalogic Exabus
- Exalogic HTTP, JMS and Web Service Performance

Performance and Security

- SPECjEnterprise World Records– EjOPS Overall, EjOPS/Core, EjOPS/Processor
- improved application security with the Transport Layer Security (TLS) 1.2, the successor to SSL
- Integrated Traffic Management

Developer Updates

- Improve efficiency with modern, lightweight Java EE 6 API
- latest Java standards and open source into Oracle WebLogic Server
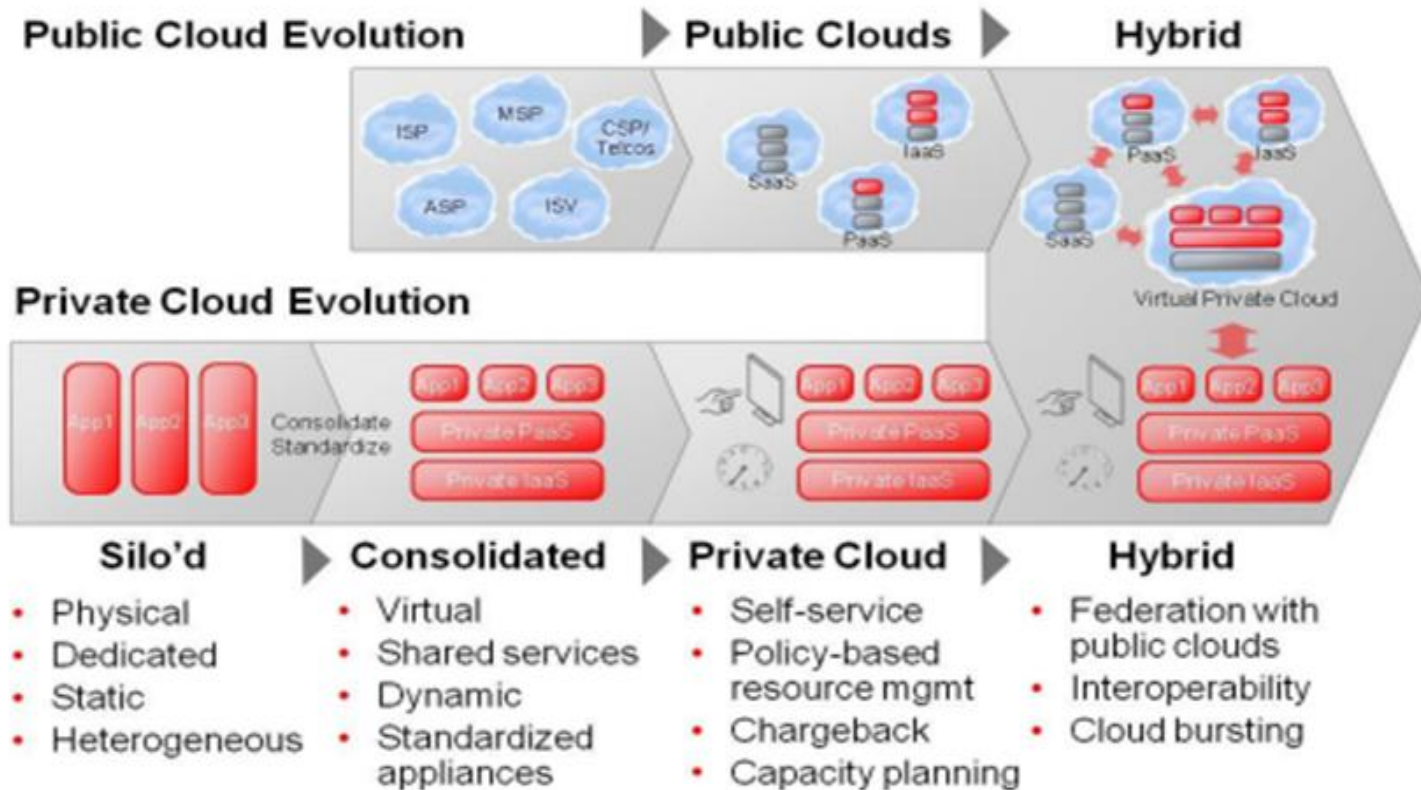- Write less glue code, more business logic when using integrated services

Oracle Cloud Computing

Oracle Cloud Solution

- On-demand access to shared pool of computing
  - Networks
  - Servers
  - Storage
  - Applications
  - Services
- Compelling advantage
  - High efficiency
  - High availability.
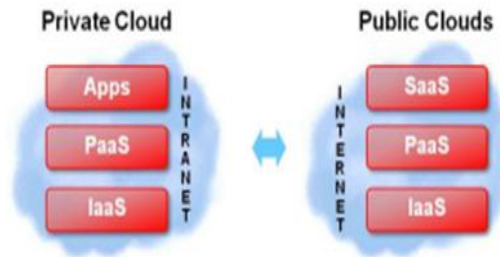 - Elastic scalability
  - Fast deployment
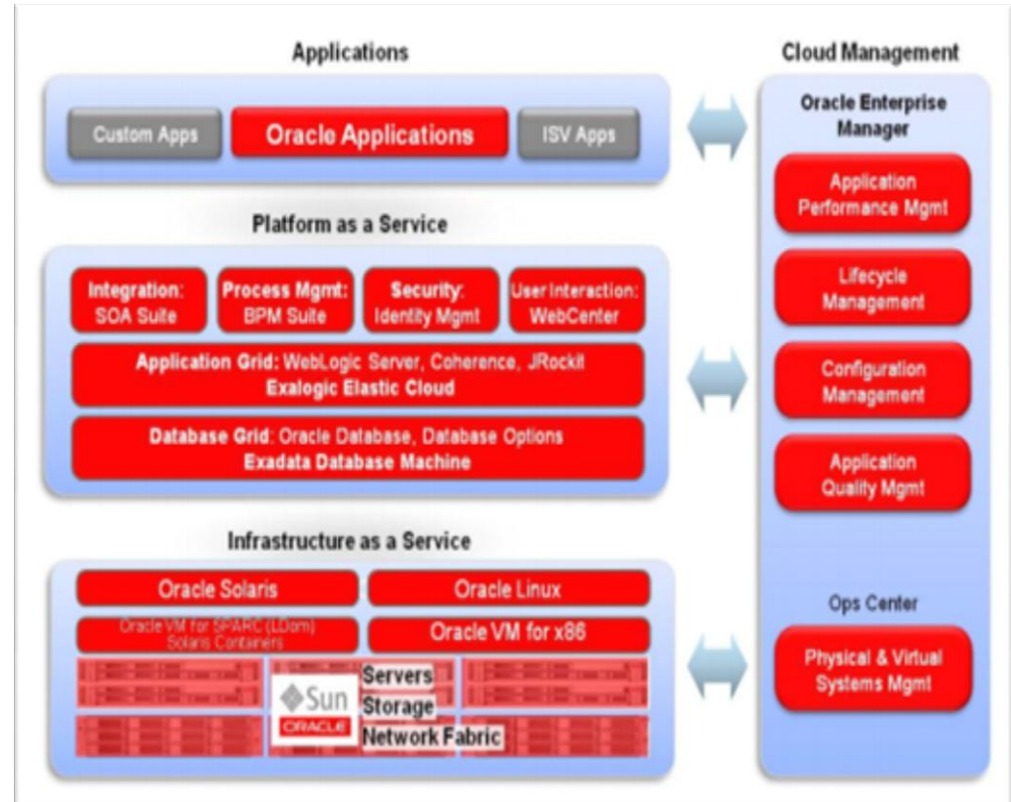
Evolution of Cloud Computing

Oracle Public and Private Cloud
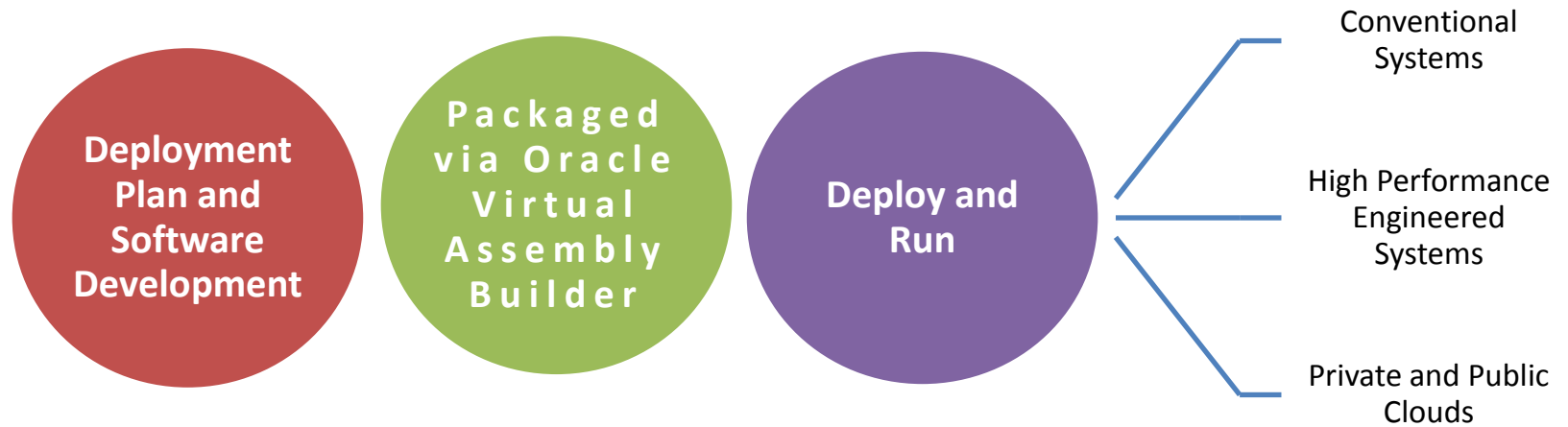
Private Cloud Solutions

- **Features**
  - Application on a shared platform
  - Database & middleware for PaaS
  - Hardware & systems for IaaS

- **Advantages**
  - Greater control of security
  - Easier integration
  - Lower total costs
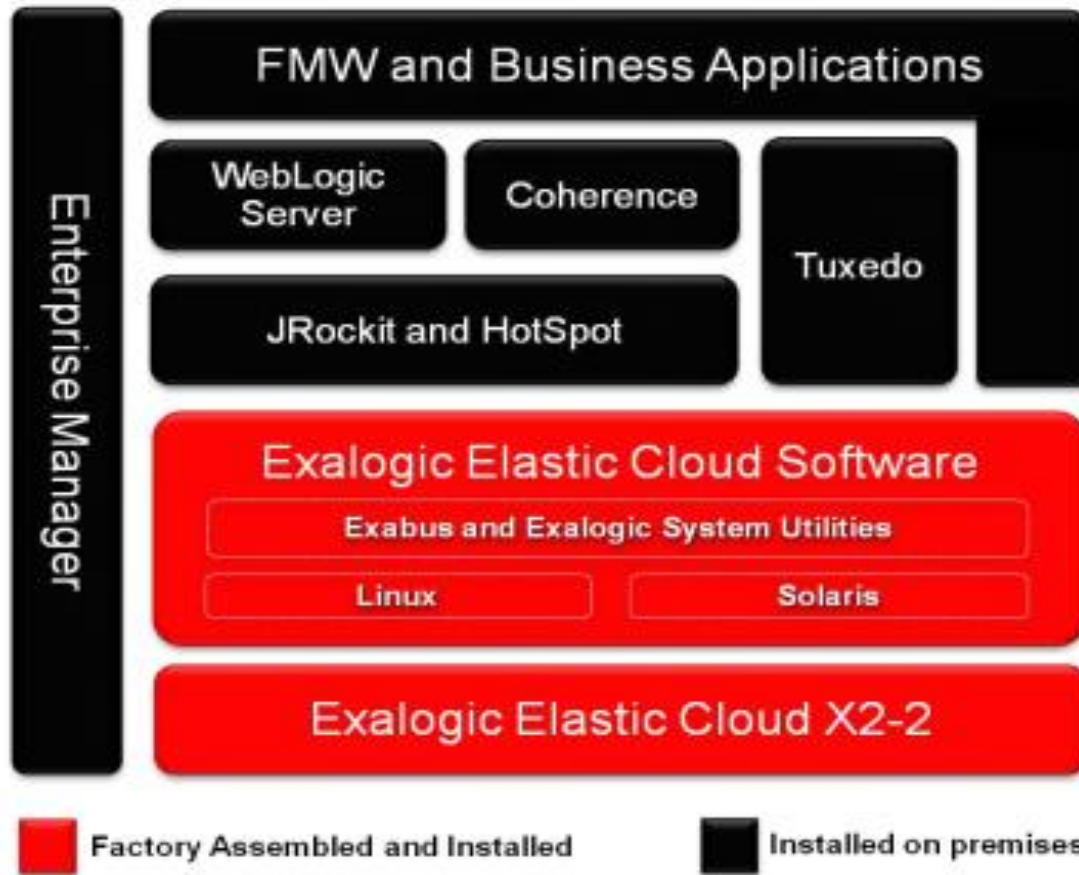 - Capital expense and operating expense

Public Cloud Solutions

- **Features**
  - Oracle On Demand Cloud Services
  - Oracle 3rd Party Public Clouds
  - Powering 3rd Party Public Clouds

- **Advantages**
  - Low upfront costs
  - Economies of scale
  - Outsourced management
  - Operating expense

Private Cloud

Apps | I N T R A N E T
PaaS
IaaS

Public Clouds

I N T E R N E T | SaaS
PaaS
IaaS

Simplified Deployment with Virtualization

Deployment Plan and Software Development

Packaged via Oracle Virtual Assembly Builder

Deploy and Run

- Conventional Systems
- High Performance Engineered Systems
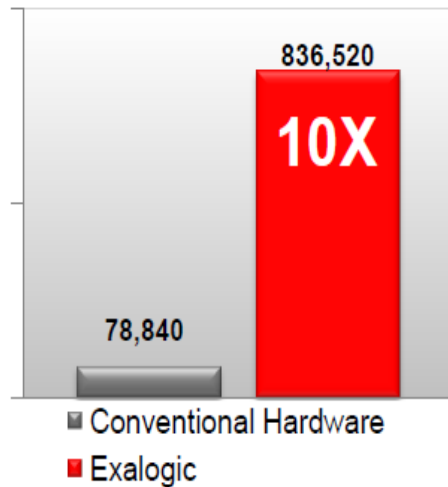- Private and Public Clouds

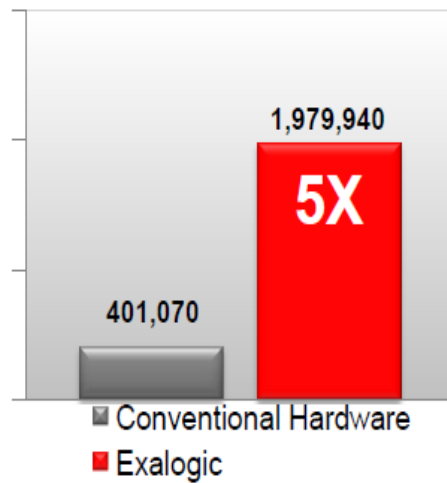Ephlux

Oracle Exalogic Elastic Cloud

EL X2-2

Web Logic Server on Exalogic

Web requests per second

J MS Messages per second

Enterprise Java Operations per second

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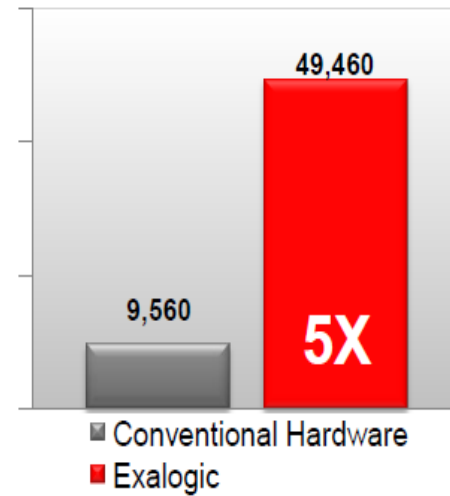
Enhanced HA and DR

Integrated Web Logic   c/RAC Clusters

- RAC Aware Pool with RAC N ode Affinity (Session/Transaction), RAC One N ode Support and Fast Connection Failover

Multiple Data Center Architecture

- Integrated with Active Data Guard (transaction logs) and GoldenGate (Data Grid Change Data Capture)

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Performance Updates

SPEC Enterprise 2010 Performance World Record

- **Multi- Node Overall E jOPS**
  - 2. 4 k more workload than IBM
  - Running on Oracle Database RAC
- **Overall EjOPs per Processor**
  - 56% more workload than IBM
- **Overall EjOPS per Core**
  - 50% more workload than IBM on identical hardware!

Integrated Traffic Management

- Integrated with Oracle Traffic Director
  - Routing, Load balancing, Traffic Shaping
- Fast, highly-configurable re quest routing and caching
- SS L Crypto acceleration using Intel™ Advanced Encryption Set
- Up to 3.5 % More Throughput and   28% lower CPU than Apache
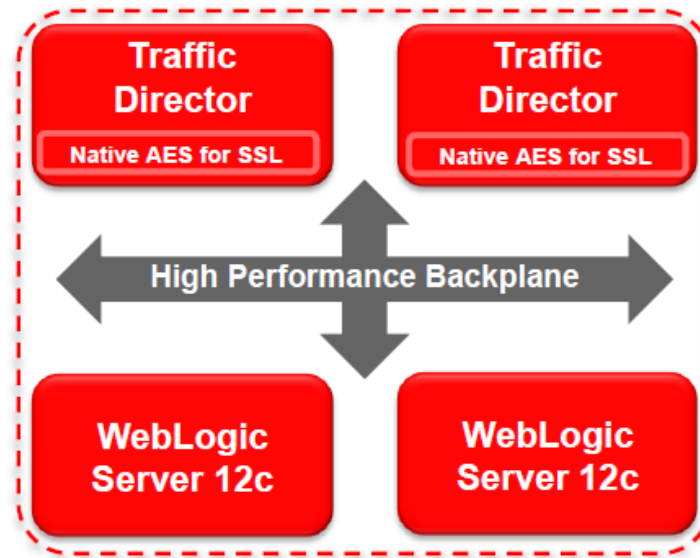
Development Updates

Support for Java EE6

- Java EE 6 Full Profile Certified
- Java SE 7 support
    - Java language optimizations.
    - Client and server support
    - Internationalization
    - SS L / T LS 1 .2 in J SSE
    - Converged Java V M

- Standard Java IDE Support

- Deeper Maven Integration

- Built in Java V M Flight Recorder/Diagnostics

- GlassFish DD Support on Weblogic

- Latest Spring Framework 3.0.x Support

- Built in Classloading Analysis Tool (CAT)

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Open source on Oracle Web Logic Server

- Support for IDEs like Eclipse, netbeans and Text Editors

- Enhanced Web Logic Maven Plug-in
  - New goals, functional support
  - Enable /support / automate the full development lifecycle from maven
  - Additional weblogic fusion middleware enhancements planned
  - Automate repetitive development tasks
  - Bind maven to execution phases integrate with other tools
  - Integrate with team build environments
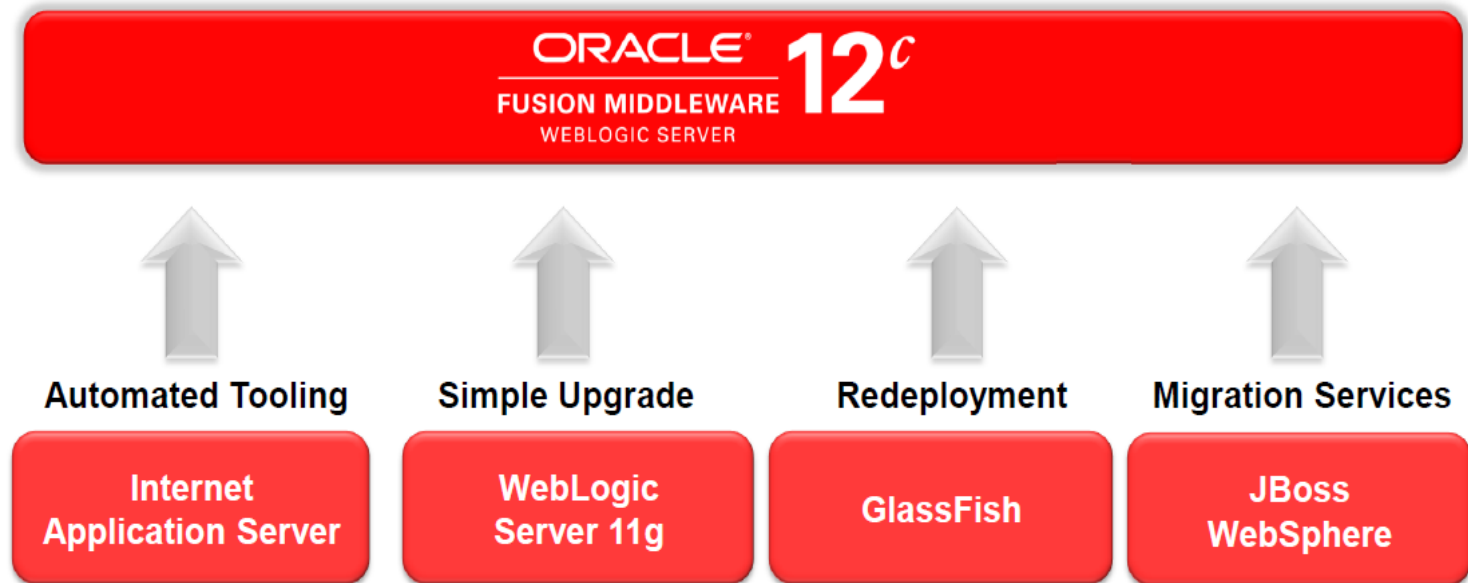
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Integrated Services

- Integrated Caching, Data Grid Services
- Multi-Channel Development
  - Single Programming Model, Flexible Rendering Technology
- Virtual Development Assemblies with O V A B

Upgrade

Seamless Upgrade

- Simple Upgrade from Weblogic Server 1 1 g other servers require Tools and Services.

Upgrade Sequence & Requirements

WebLogic domain
- Upgrade the domain directory on each computer in the domain.

Custom security provider
- Upgrade the custom security providers on each computer in the domain.

Node Manager
- Upgrade custom Node Manager on each computer in the domain

Applications
- Most WebLogic Server applications can be run without modifications in the new WebLogic Server 12.1.1 application environment

External resources
- Verify that all external resources are compatible with WebLogic Server 12.1.1

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