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## **Advanced E-Business Suite Architectures**

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# Program Agenda

- Performance & Scalability
- Business Continuity
- Security
- Virtualization
- Business Intelligence
- External Integrations
- Systems Management
- Oracle E-Business Suite 12.2

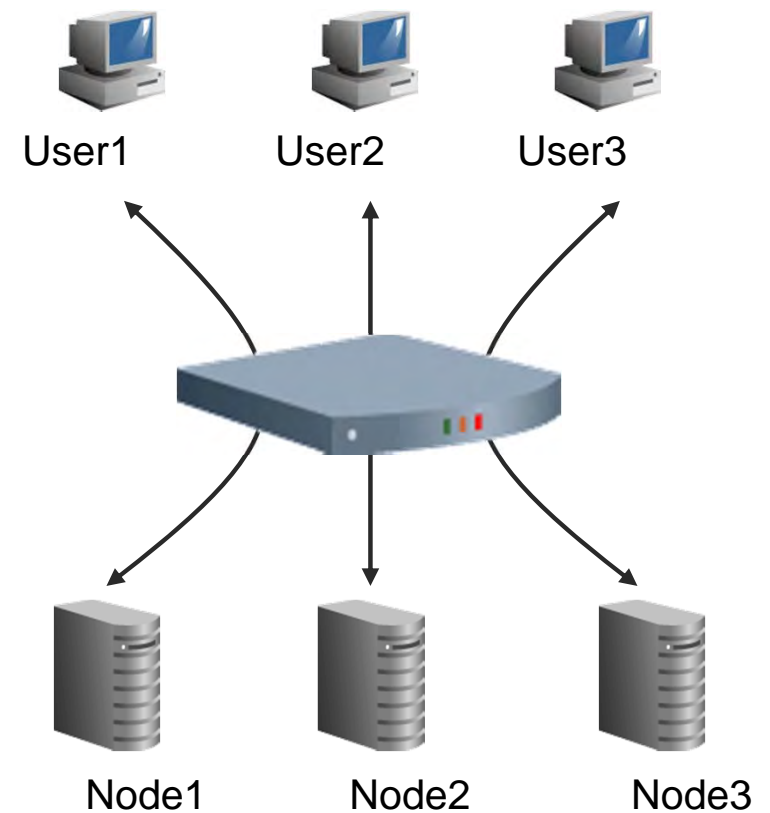


Performance &  
Scalability

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# Load-Balanced Configuration

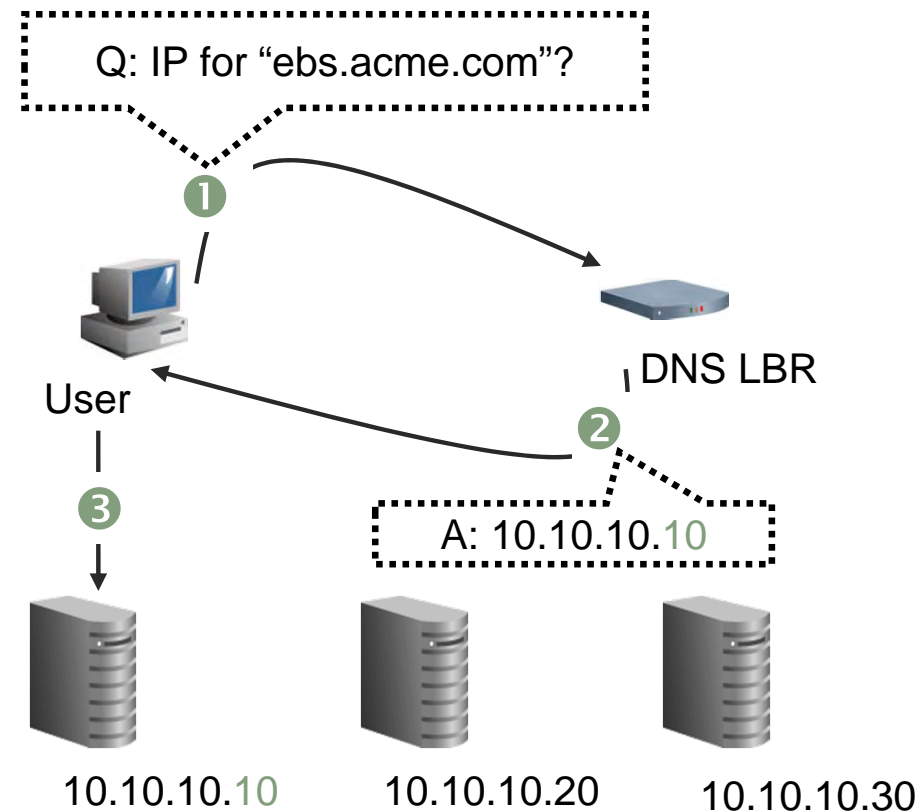
- Types of Load-balancing
  - DNS-based
  - HTTP Layer (Web and Forms Servlets)
- Additional Types of Load-balancing
  - Apache Jserv Layer/OC4J
  - Forms Metric Server (R11i)
  - Concurrent Processing Layer (PCP)
  - Database Layer





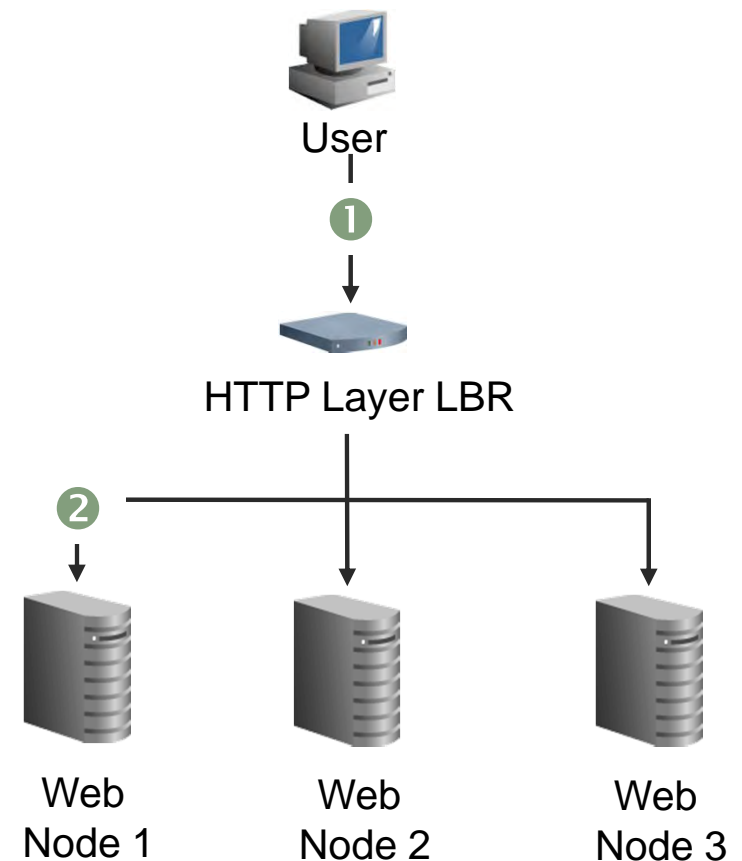
# DNS-Based Load-Balancing

- Users query DNS LBR for IP address of URL
- DNS LBR supplies different IP addresses to different users depending on load of a given node
- Vendor-dependent: heartbeat checks against nodes, sophisticated algorithms for load-balancing



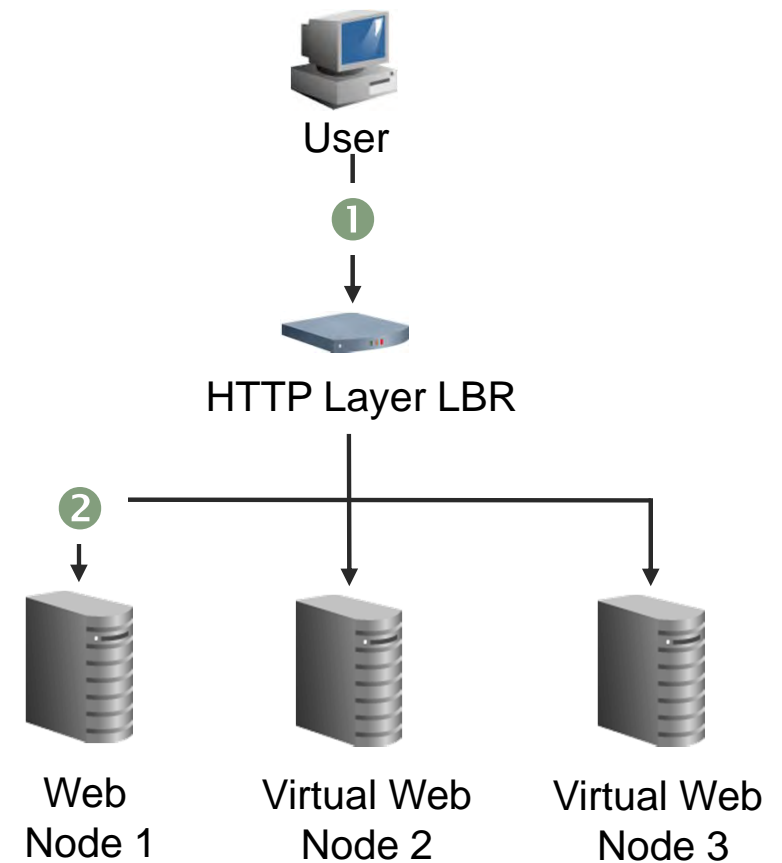
# HTTP Layer Load-Balancing

- Users navigate to Web Entry Point
- HTTP Layer LBR routes all subsequent traffic for a specific user to a specific Web Node
- LBR must support persistent session connections
- LBRs may use heartbeat checks for node death detection & restart, and sophisticated algorithms for load-balancing



# Hybrid Virtual/Physical Load-Balancing

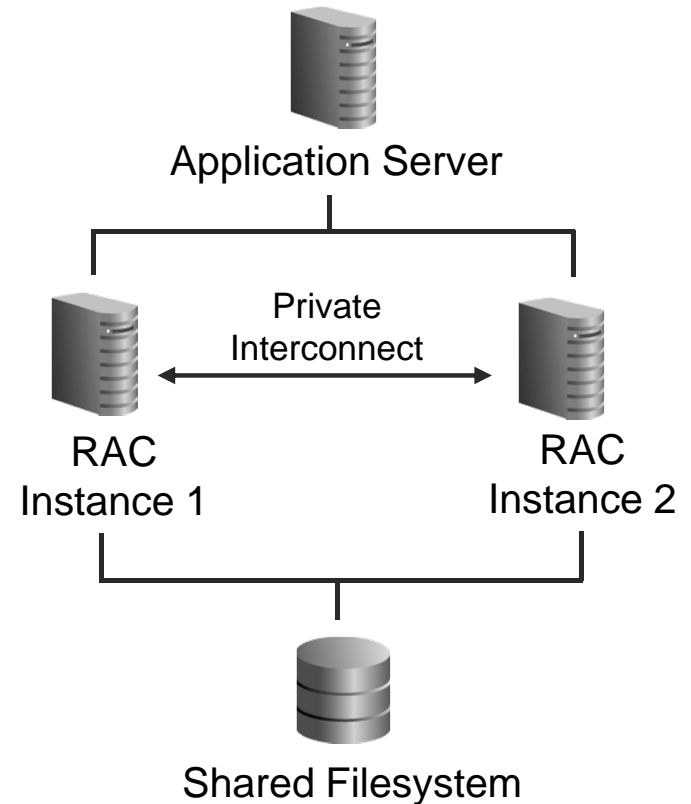
- Ideal resources for spikes: easy to provision, remove, reallocate
- Virtual machines integrate transparently with physical machines
- VM's can run on fixed hardware, private clouds, public clouds





# Real Application Clusters (RAC)

- Allows multiple database servers to access the same data in parallel
- Improves scalability & fault-tolerance
- Supports Automatic Storage Management (ASM), Cluster Ready Services (CRS), Parallel Concurrent Processing (PCP)



# Oracle E-Business Suite on Exadata & Exalogic

- Lowers Costs
- Reduces Complexity
- Improves Performance
- Strategic Direction



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# Summary of EBS Performance Results Exastack

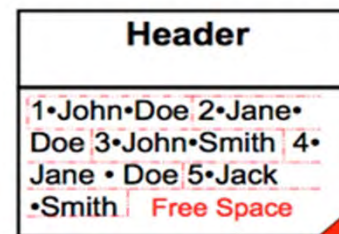
- Faster Response Advantage:
  - 3x For O2C Forms transactions
  - 8x For Self Service transactions
- Users per Core Advantage
  - Two-to-One users per core.
  - Headroom for additional loads.
- Higher Throughput
  - Push more transactions through a single Exa\* core.
- Linear Scaling Advantage
  - Support very large deployments of EBS with ease



# Advanced Compression 11g Database Option

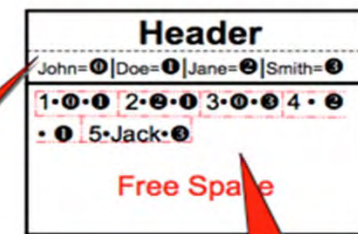
- Table Compression Advisor \*
- Reduces table sizes
- Reduces network bandwidth overhead
- Improves performance of concurrent programs
- Improves backup performance

Uncompressed Block



Local  
Symbol Table

Compressed Block



More Data  
Per Block

\* <http://www.oracle.com/technology/products/database/compression/compression-advisor.html>

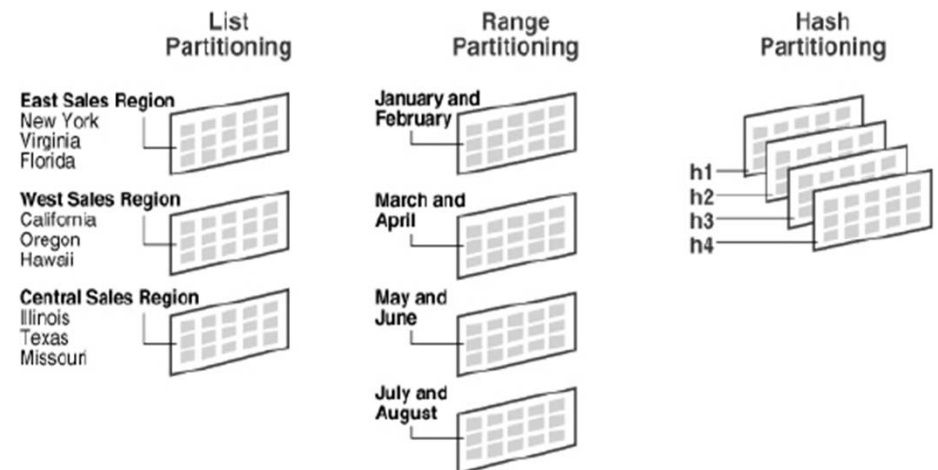
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## Results: Oracle's Use of Advanced Compression

- Oracle's Internal E-Business Suite Production system deployed ACO in 2009
  - Average overall storage savings 3x
    - Table compression 4x
    - Index compression 2x
    - LOB compression 2.3x
  - **231TB of realized storage savings** primary, standby & test systems
    - Additional benefits also accrued in Dev clones and backup
- Payroll, Order-2-Cash, AP/AR batch flows, Self-Service flows run without regression, Queries involving full table scans show speedup

# Database Partitioning Option

- Keep legacy data for historical business analytics
- Break large tables into smaller partitions
- Optimize long-running queries & reports
- Can be used with Information Lifecycle Management (ILM) solutions







# Business Continuity

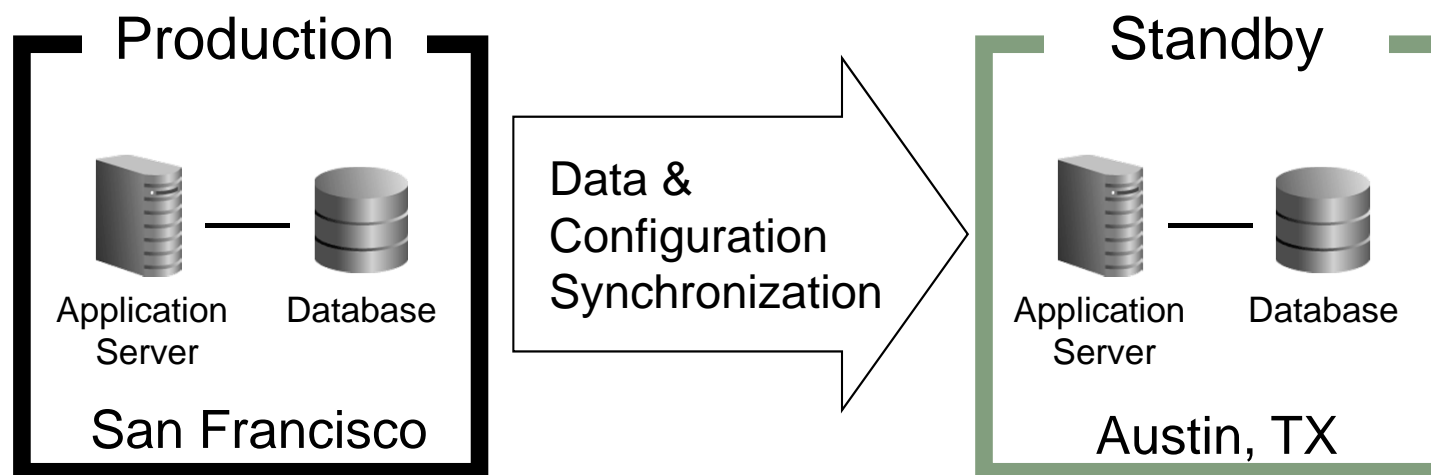
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# Business Continuity

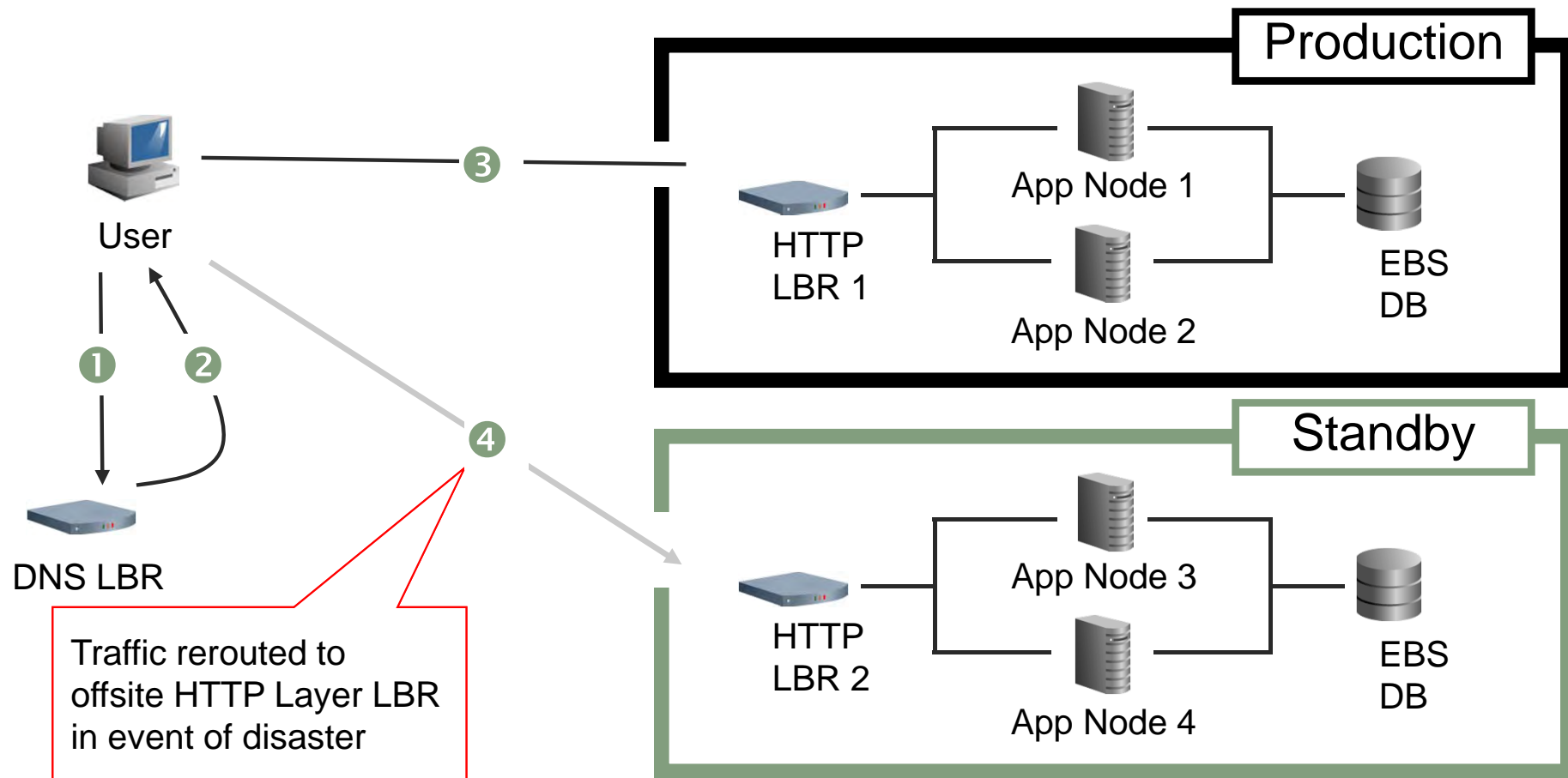
- A.k.a. “Disaster Recovery”
- Catastrophic site failures
- Operational failover (not just tape backups)
- Planned outages may also benefit from the infrastructure
- Operational priorities must be reviewed
- Potentially expensive

# Active-Passive Business Continuity Architecture

- Completely standalone, self-contained sites
- Data and configurations synchronized constantly between sites via Oracle DataGuard and physical standby



# Case Study: Business Continuity Architecture



# Business Continuity Project Delivery

- Work closely with users, stakeholders, executive sponsors
- Prioritize disaster recovery needs carefully
  - Mirrored production environment (scale and scope)
  - Reduced scale (such as fewer web nodes)
  - Reduced in scope (such as support internal employees but not external users)
- Research options, check references
- Work with platform hardware vendors, experienced consultants and partners
- Deploy proof-of-concept testbeds
- Test thoroughly





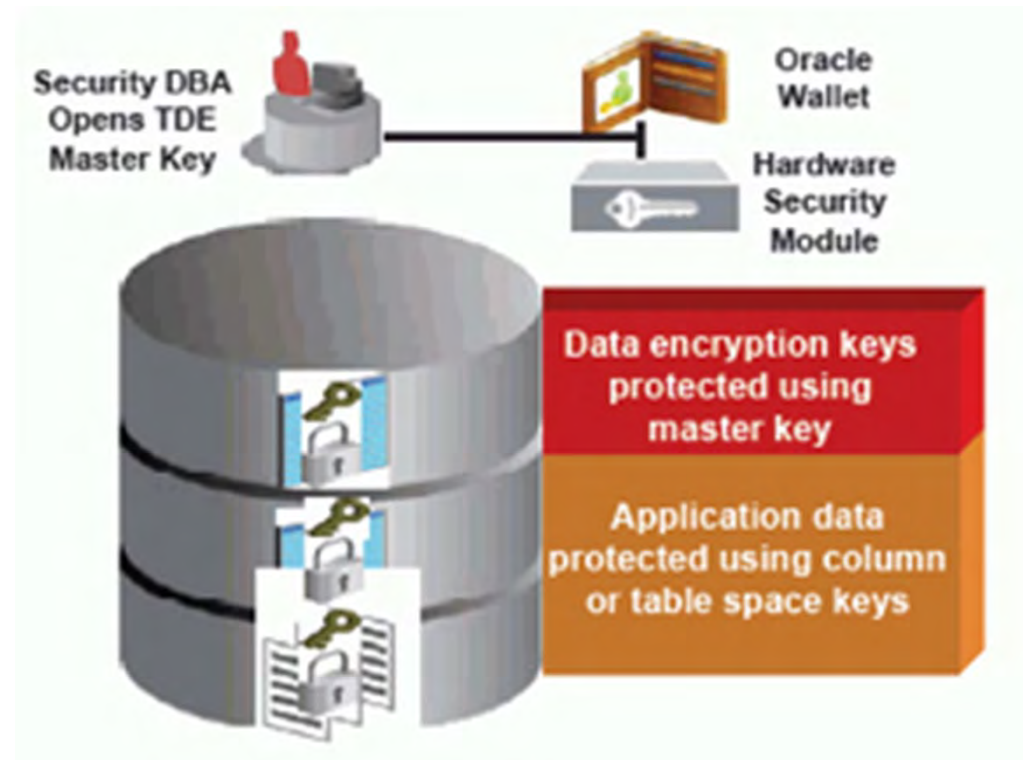
Security

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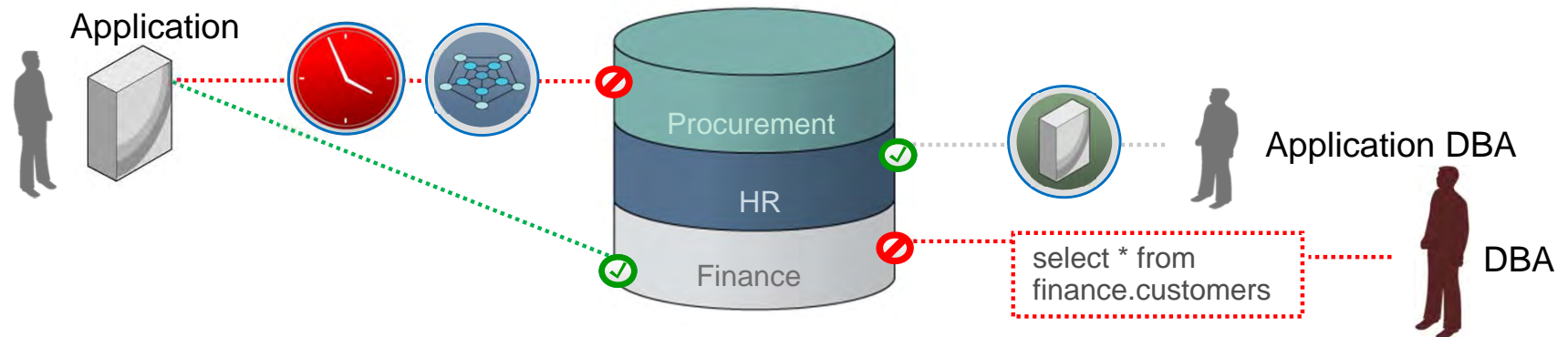
# Transparent Data Encryption

- Data at rest is encrypted
- Decrypted on-the-fly while EBS is running
- Encrypt tablespaces or individual columns
- Store keys in Oracle Wallet Manager



# Oracle Database Vault

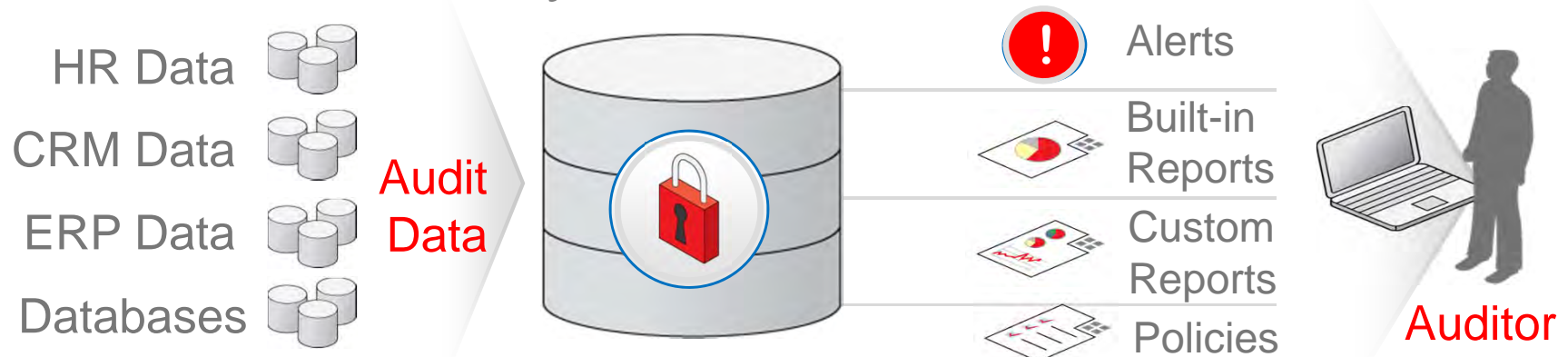
## Privileged Account Controls



- Enforce least privilege and prevent DBA access to apps data
- Enforce who, where, when, and how data can be accessed using rules and factors
- Securely enable applications consolidation and outsourcing / off-shoring
- **Default realm for E-Business Suite is available – use it as-is or choose a subset**

# Oracle Audit Vault

## Audit Database Activity in Real Time



- Consolidate database audit trail into secure centralized repository
- Detect and alert on suspicious activities, including privileged users
- Out-of-the box compliance reports for SOX, PCI, and other regulations
  - E.g., privileged user audit, entitlements, failed logins, regulated data changes
- **Integrates with E-Business Suite security system**

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# Data Masking



## What

- The act of anonymizing customer, financial, or company-confidential data to create new, legible data that retains the data's properties, such as its width, type, and format

## Why

- To protect confidential data in non-production environments when the data is shared with non-production users without revealing sensitive information

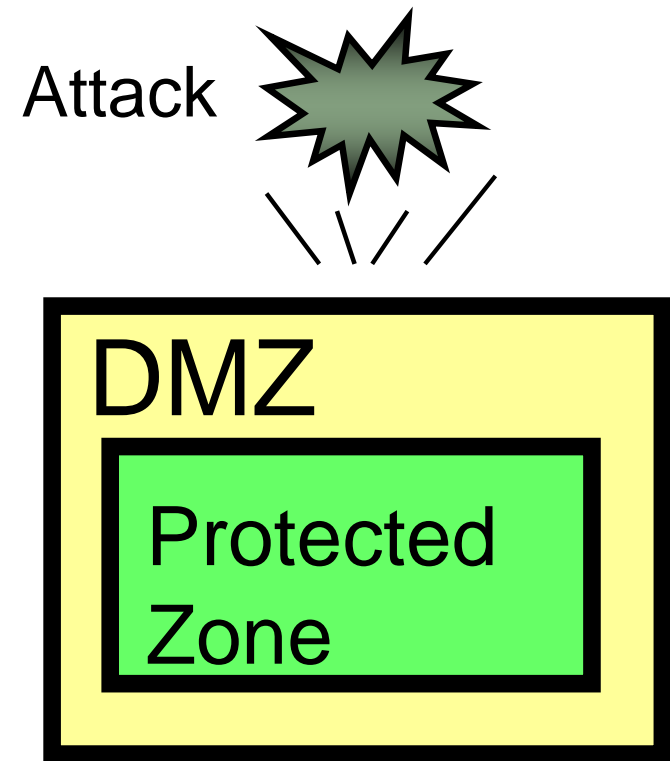
**How:** - Enterprise Manager Data Masking Pack

# Additional Database Options

- Advanced Networking Option (ANO)
- SecureFiles
- Virtual Private Database (VPD)
- Oracle Label Security (OLS)

# Demilitarized Zone (DMZ)

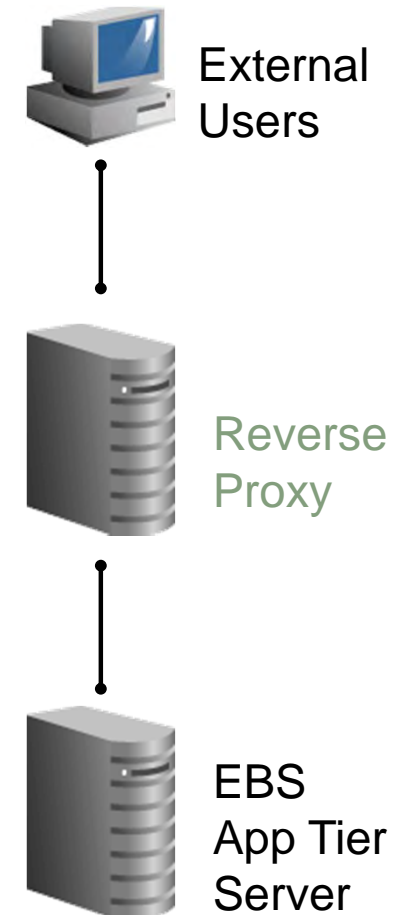
- Perimeter network
- Single or multi-segment
- DMZ-based servers have restricted responsibilities
- Security breaches remain contained within DMZ



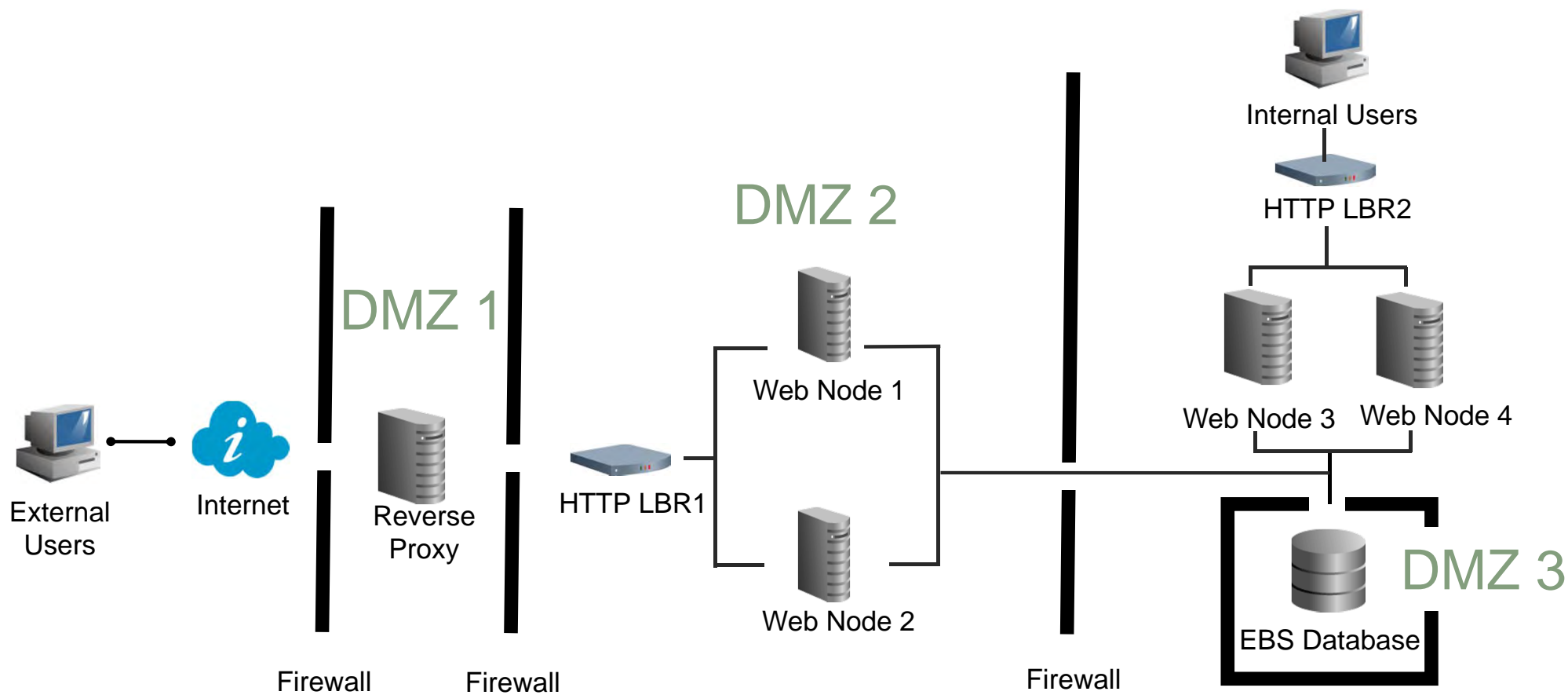


# Reverse Proxy Server

- Makes requests to the web server on behalf of the client
- Allows use of standard ports (80, 443) on external side; higher ports internally
- Filters requests to web server via rules
- Allows for content caching (optional)



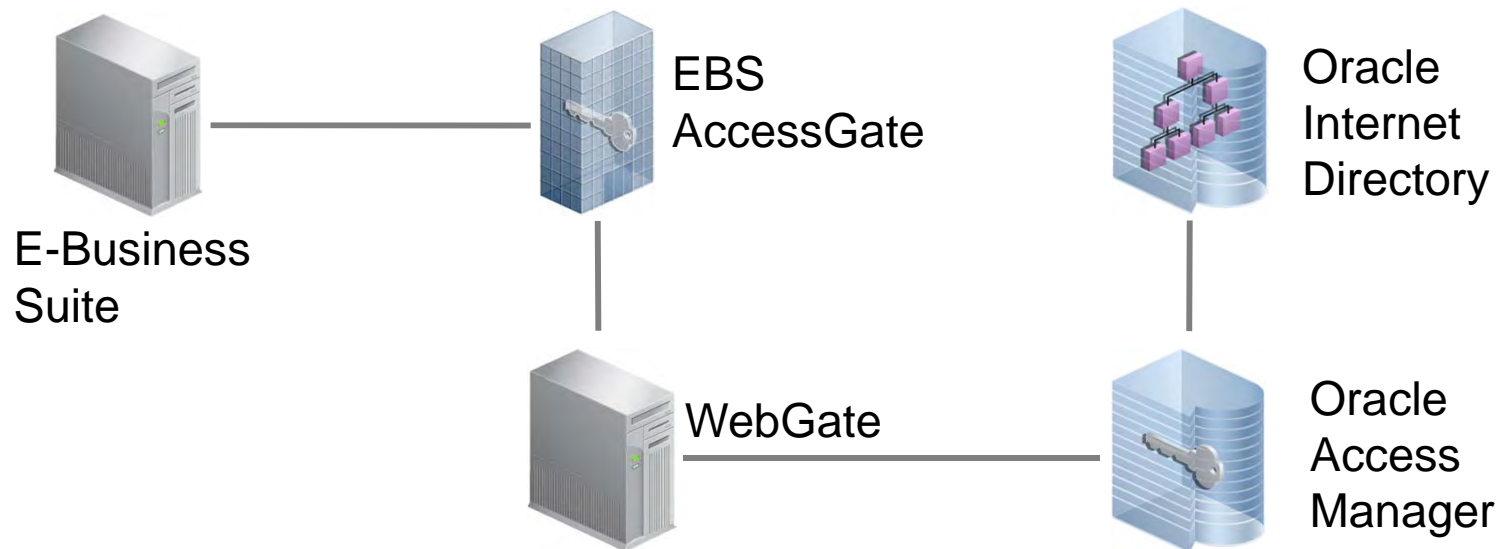
# Case Study: DMZs, Reverse Proxy and Load-Balancing



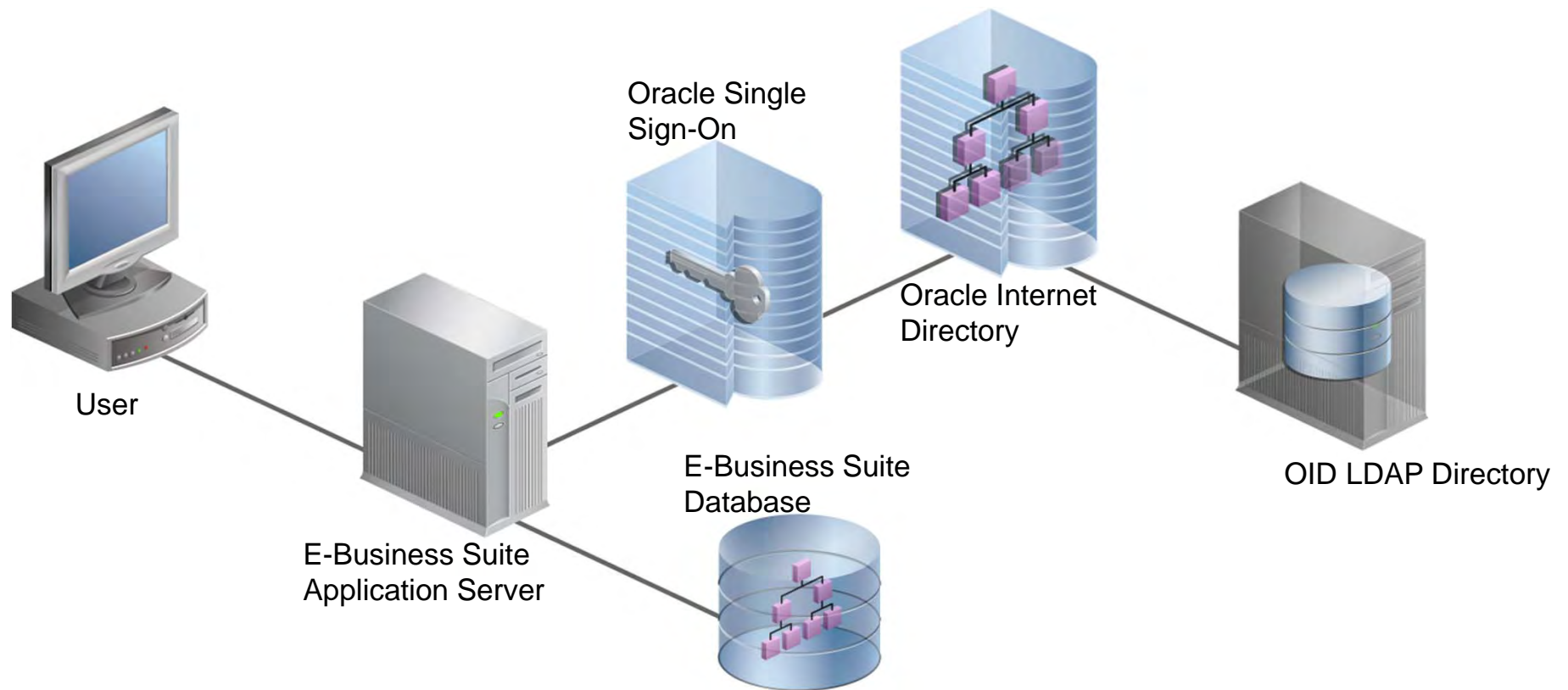
# E-Business Suite & Identity Management

- E-Business Suite has a built-in security model, handling authentication and authorization
- Other options:
  - Authenticate users with Oracle Access Manager (OAM 11g or OAM 10g)
  - Authenticate users with Oracle Single Sign-On (OSSO)
  - Authenticate users with third-party authentication tools via OAM
  - Manage users with Oracle Internet Directory (OID)
  - Integrate with third-party LDAP directories via OID

# Enable Single Sign-On with Oracle Access Manager

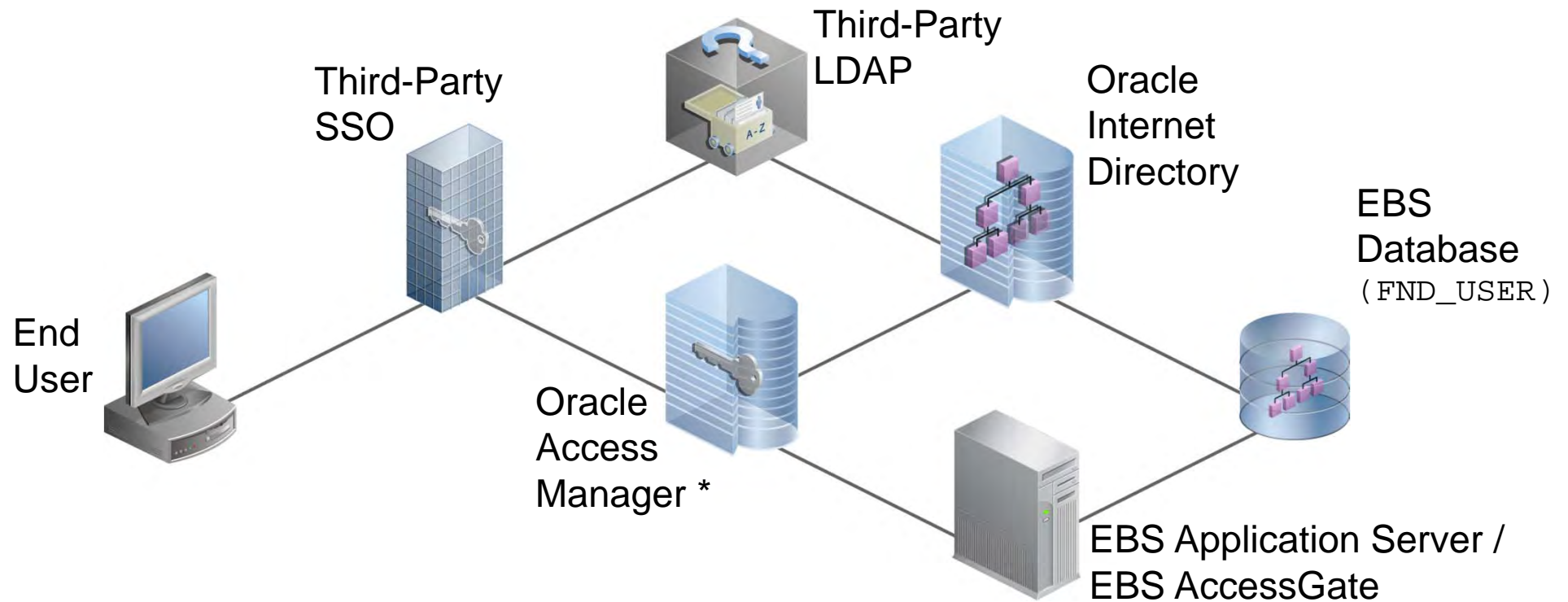


# Enable Single Sign-On with Oracle Single Sign-On





# Third-Party Integration Architecture

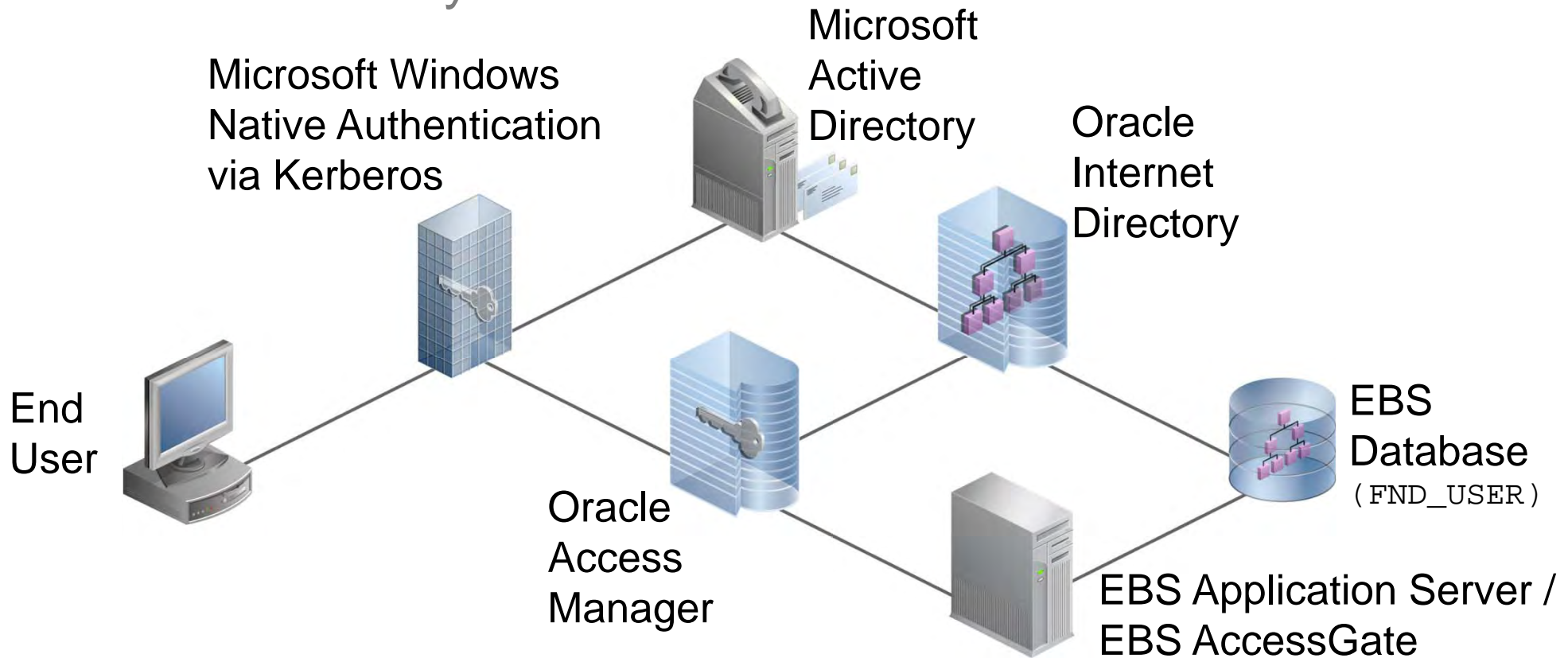


\* *WebGate not shown.*



# Case Study: Integration with Microsoft

## Active Directory & Kerberos



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# Other Identity Management Certifications

Product	Latest Versions for EBS
Oracle Identity Manager	9.1.0.7, 11.1.1.5
Oracle Identity Federation	11.1.1.5
Oracle Adaptive Access Manager	11.1.1.5
Oracle Enterprise Single Sign-On Suite Plus	11.1.1.5

★ All certifications here are performed by Fusion Middleware product teams.

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# Virtualization

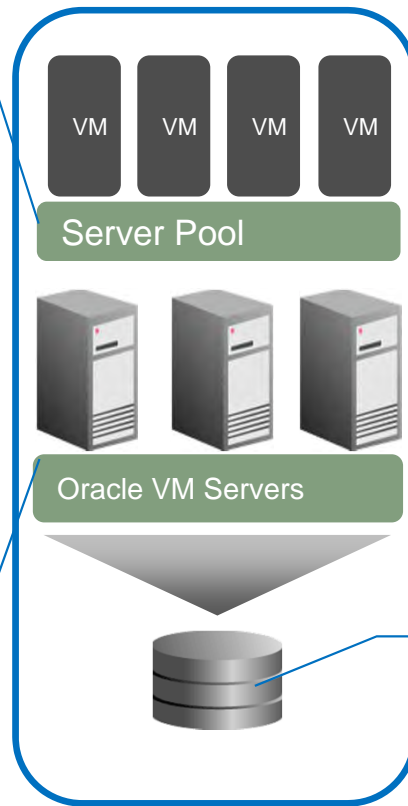
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# Virtualization

- Increase value by faster provisioning and packing more environments on same hardware
  - Virtualization frees resources from “ownership lock”
  - Provisioning times improve by order of magnitude
  - Customer use cases show average utilization jumping from 20% to 70%, and provisioning times of minutes / hours
- Lower the cost
  - Less hardware required to do more
  - Provision spike hardware from public clouds
  - Use operating budget instead of capital budget

# Oracle Virtualization Architecture

- Server Pool
- Pool resources
  - Load-balance
  - Migrate
  - Auto-Failover



- Oracle VM Manager
- Browser-based
  - Java server
  - Scalable & Available

- Oracle VM Servers
- Hold guest VMs
  - Linux, Solaris, Windows

- Shared Storage Pool Options
- NAS/NFS
  - SAN
  - iSCSI

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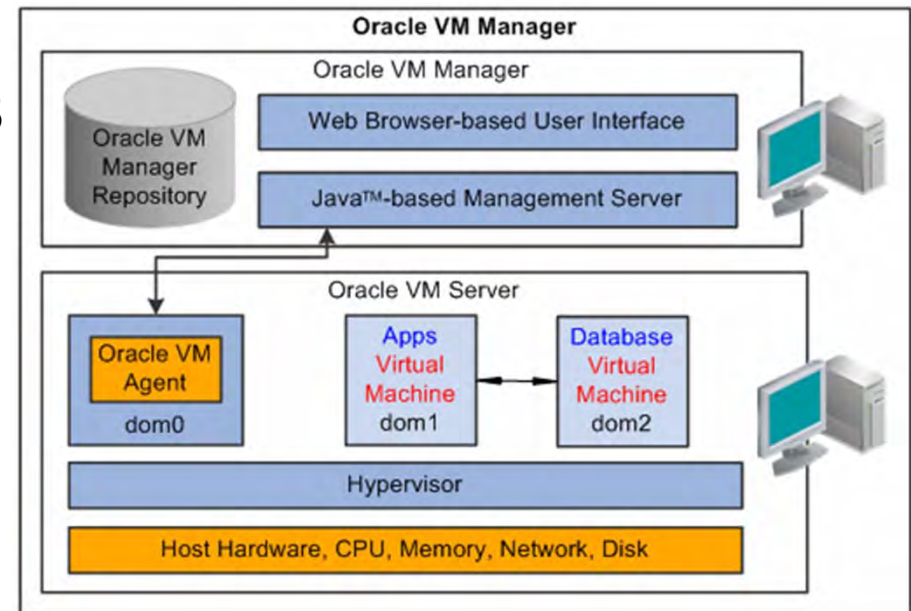
# Virtualization

## Oracle VM Templates for EBS:

- EBS 12.1.3 Prod or Vision Database tier (OEL 5 + 11.2 DB)
- EBS 12.1.3 Application Server tier (OEL 5)
- 32-bit and 64-bit

## EBS Virtualization Kit:

- Scripts to configure and wire together the EBS VMs
- Set instance names, IP addresses upon first boot



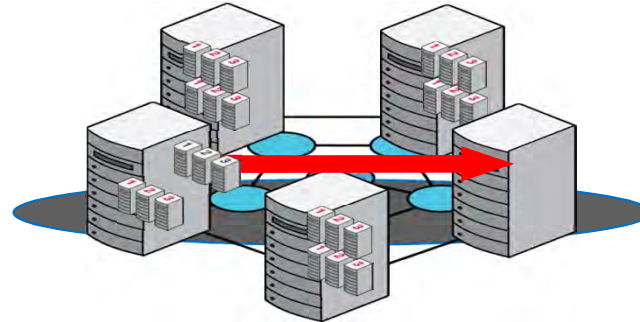
Sample Oracle VM architecture with deployed E-Business Suite templates

# Virtualization and Storage

## Economies of Virtualization

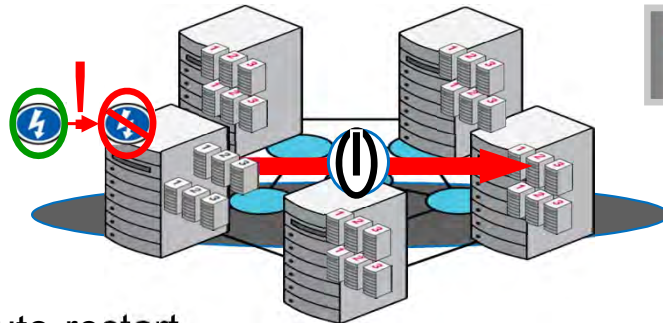
- Unused VM's CPU, memory, network are free
- Storage costs, whether used or not
- Minimize unused storage costs
  - Most virtual environments are highly similar
- Use shared storage for binaries
- Use file systems with block-level normalization for dbf's
  - For example, ZFS does not duplicate identical blocks

# NEW! Advanced Policy Management of VMs



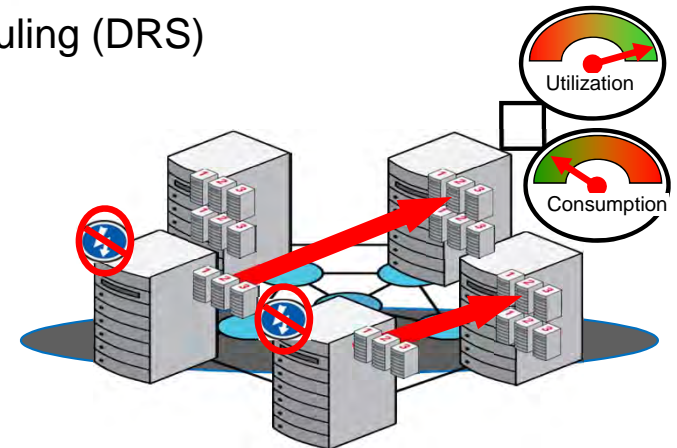
## NEW! Dynamic Resource Scheduling (DRS)

- Live Migrate VMs based on server load
- Dynamically managed quality of service



## H.A. Auto-restart

- Automatically restart VM(s) on Server- or VM failure
- True clusterware logic for reliable failure detection
- Triggers even if Oracle VM Manager is unavailable



## NEW! Dynamic Power Management (DPM)

- Automatically power-off under-utilized servers
- Consolidate VMs onto fewest servers
- Reverse the process when load increases

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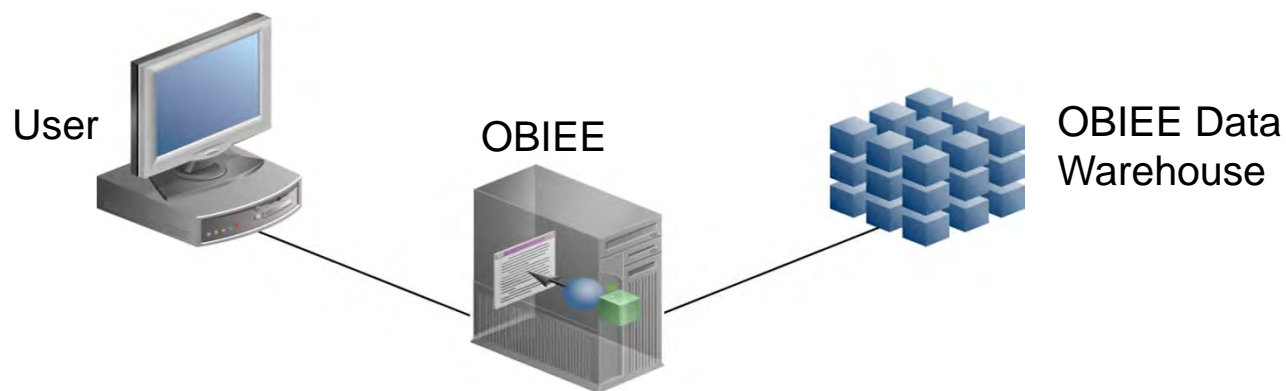


# Business Intelligence

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# Oracle Business Intelligence Enterprise Edition+ (OBIEE)

- Sophisticated business analysis tools
- High-volume production reporting
- Exception-based alerts
- Predictive intelligence
- Microsoft Office integration



# Oracle Business Intelligence Applications (OBIA)

- Provide end-user reporting via prebuilt dashboards, ad hoc queries
- Drill-down into data via tabular & graphical analytical tools
- Consolidates data from EBS, Siebel, PeopleSoft, and others

 **Top 10 Orders**

Sales Order Number	EBS Action Link	Customer Name	Source Order Status Description	Total Ordered Amount
100173		Computer Service and Rentals	Closed	\$739,418
100174		Business World	Closed	\$738,893
120043		Imaging Innovations, Inc.	Closed	\$74,063
200133		Imaging Innovations, Inc.	Closed	\$59,548
120018		Hilman and Associates	Closed	\$54,149
100037		Imaging Innovations, Inc.	Closed	\$54,100
120040		Imaging Innovations, Inc.	Closed	\$50,578



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Sales Order 100173

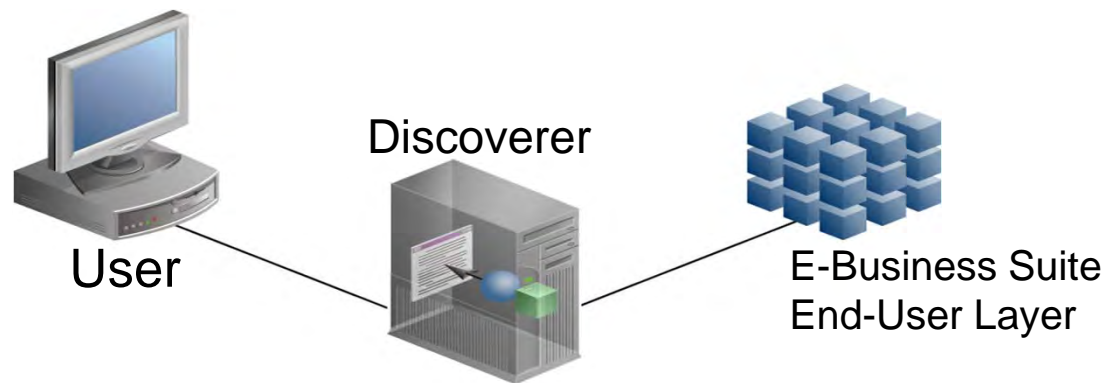
General		Shipp
Customer Name	Computer Service and Rentals	F
Customer PO		Ship
Order Date	18-Dec-2001 04:25:06	Deliv
Need By Date	18-Jan-2002 04:25:21	Deliver
Booked Date	18-Jan-2002 04:27:35	
Status	Closed	
Quality Plan	<a href="#">View Quality Plan</a>	
Invoice Information	<a href="#">View Invoice Information</a>	

Line Num	Item	Item Description	Ordered Quantity	UOM	Fulfilled Quantity	Pr
1.1	82000	Consulting/Training	420	Ea	420	1,

# Oracle Discoverer

- Access `APPS_MODE` End-User Layer via Business Intelligence System  
Discoverer workbooks secured by Applications responsibilities
- Discoverer 11g End-User Layer resides in E-Business Suite database
- Run Discoverer on separate cluster for enhanced scalability, wide deployment





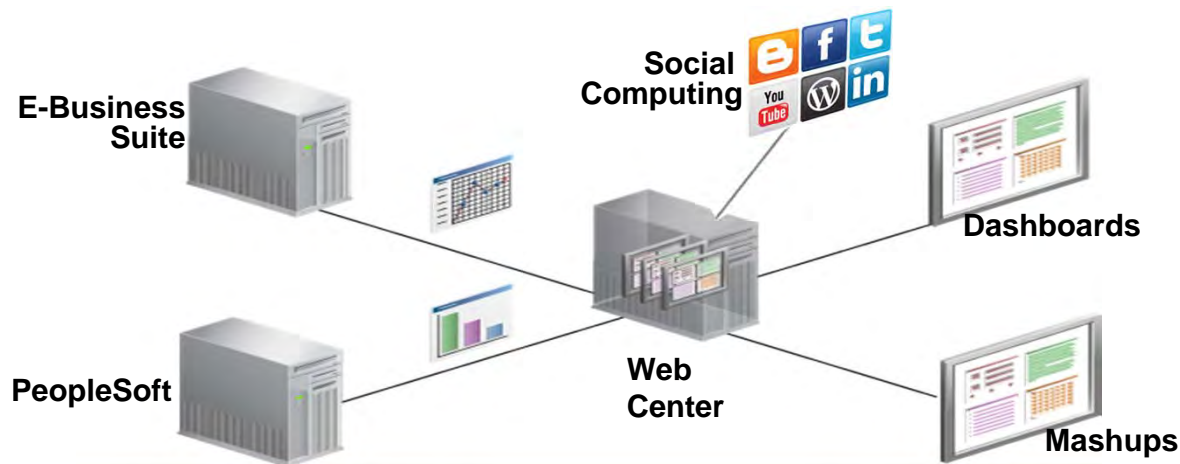


# External Integrations

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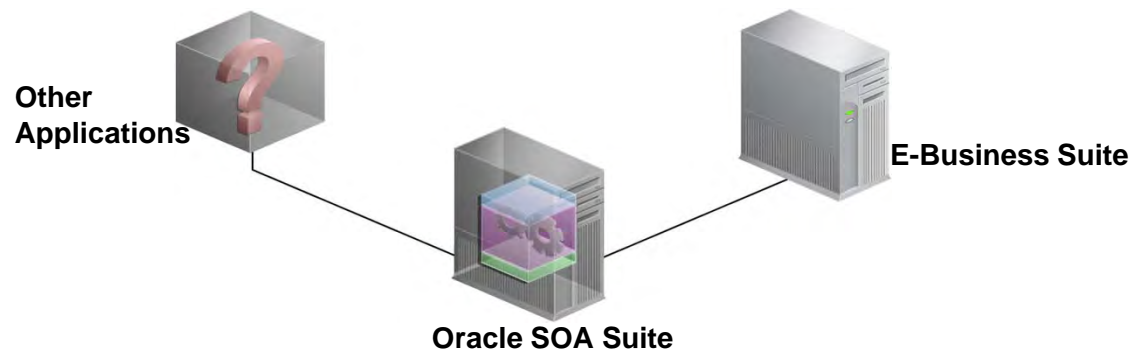
# Oracle Web Center

- Build websites, collaborative and composite applications in Web Center
- Add EBS R12 portlets via WSRP 1.0 / JSR-168
- Pull data from PSFT, Siebel, JDE, and social computing services
- Display data in EBS portlets based on EBS responsibilities



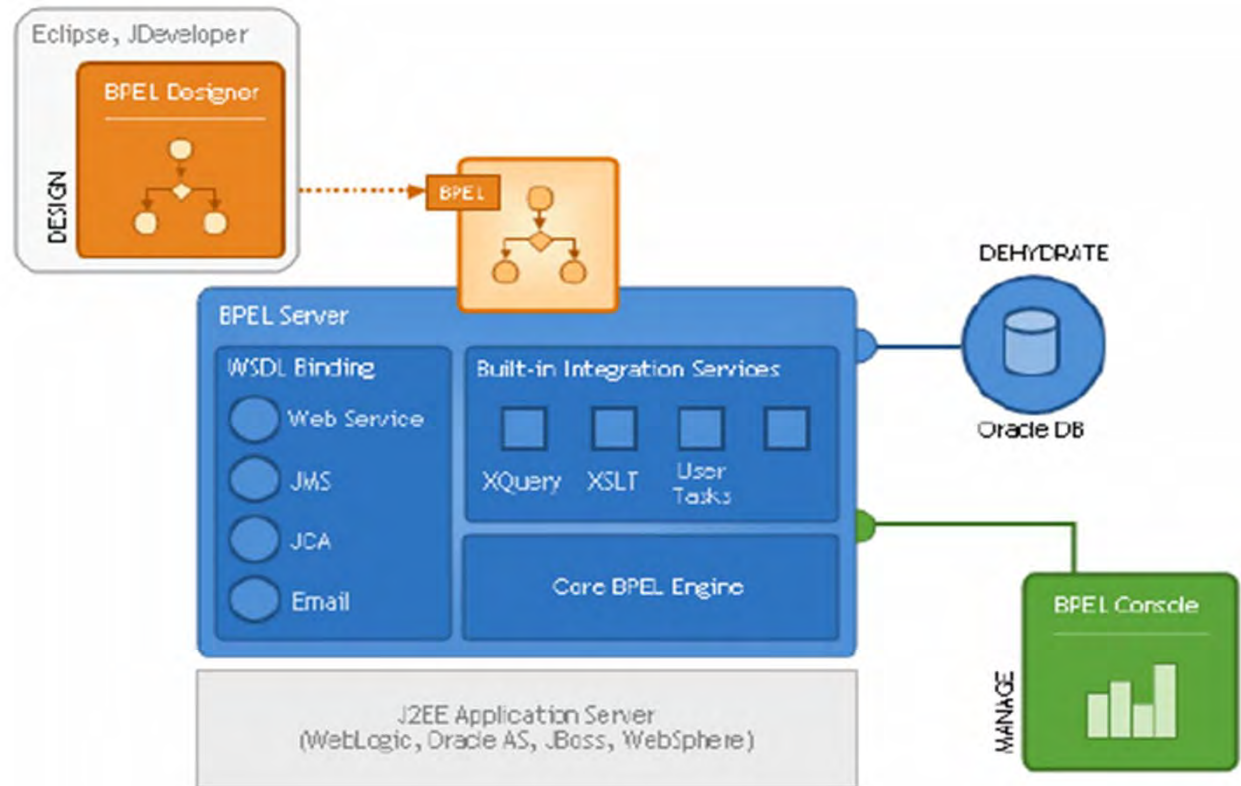
# Oracle SOA Suite

- Build integrations via Service Oriented Architecture (SOA) technologies
- Over 250 adapters for Enterprise Application Integration J2EE and open standards-based integration, including:
  - E-Business Suite, third-party applications, database sources
  - XML, JMS, JCA
  - Web Services: SOAP, WSDL, UDDI
  - B2B Protocols: RosettaNet, HIPAA, EDI



# Oracle BPEL

- Use Oracle BPEL Process Manager to integrate third-party applications via custom business processes





# Application Integration Architecture

## Oracle Application Integration Architecture

### Process Integration Packs



- Loosely coupled composite business processes

### Direct Integrations



### Foundation Pack



- Comprehensive process composition framework

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## Direct Integrations

*Manage.* Pre-built integrations to support data flows between systems

## Process Integration Packs

*Optimize.* Pre-built composite business processes across enterprise Applications

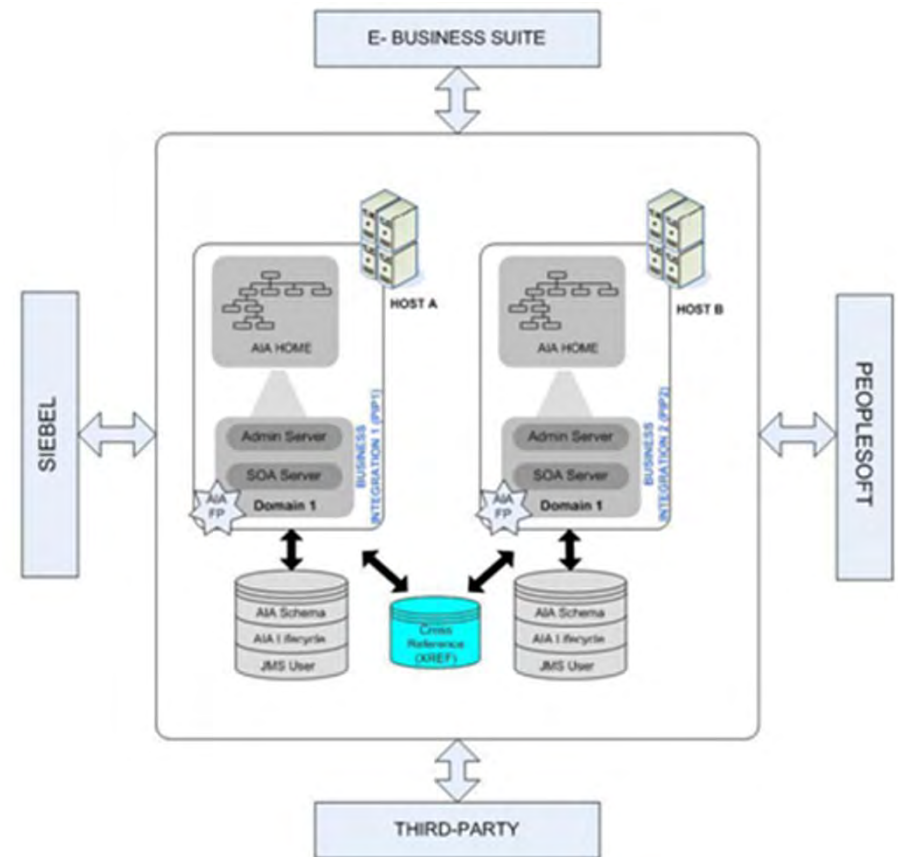
## Foundation Pack

*Standardize.* Common Object and Shared Service Library with supporting SOA programming model and best practice implementation methods

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# Application Integration Architecture

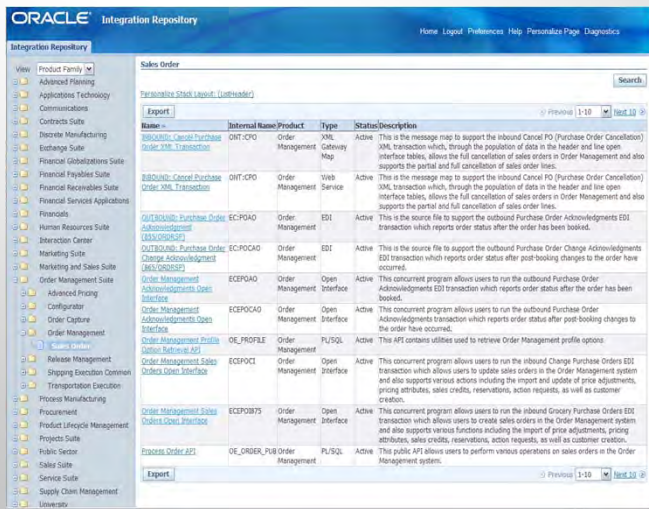
- AIA Foundation pack with pre-built PIP (Process Integration Packs) and CBPs (Composite Business Processes).
- Based on SOA
- Standards compliance
- Multiple integration styles
- Application agnostic Shared Services inventory



# Oracle Integration Repository

## E-Business Suite Integration Points

- Web Services
- Business Events
- Public Java & PL/SQL APIs
- Batch Interfaces



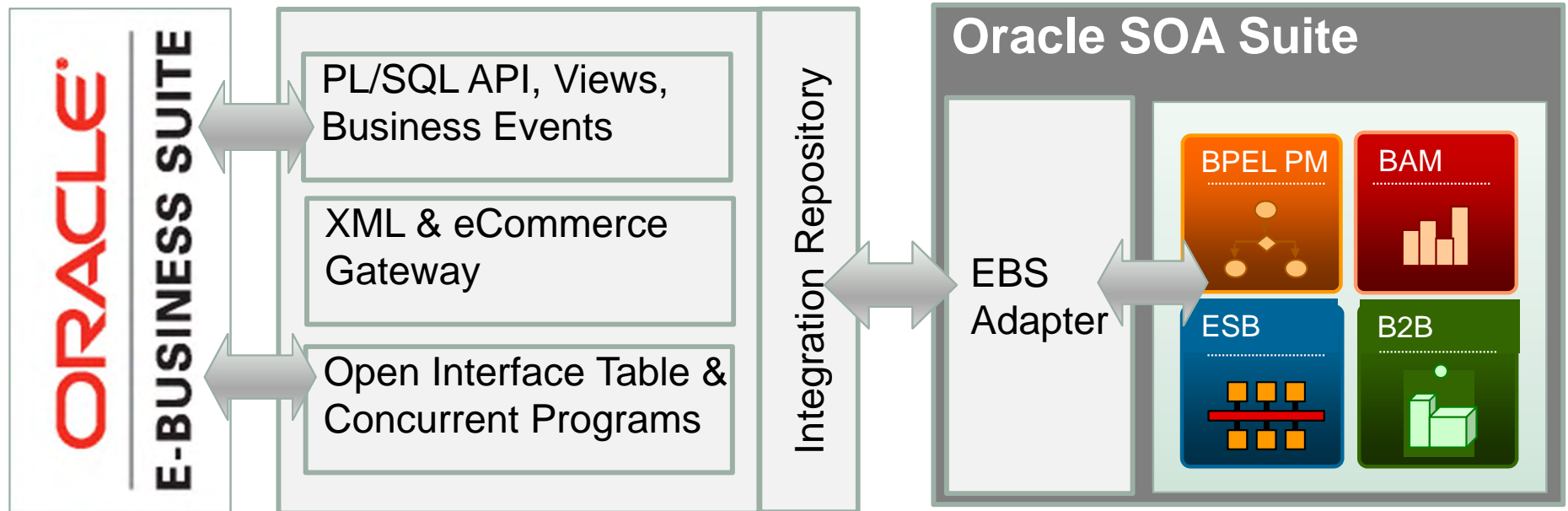
The screenshot displays the Oracle Integration Repository interface. The left sidebar shows a tree view of product families, with 'Sales Order' selected. The main area shows a table of integration points for 'Sales Order'. The table has columns for Name, Internal Name, Product, Type, Status, and Description. The table lists various integration points such as 'Inbound Cancel PO (Purchase Order Cancellation)', 'Outbound Cancel PO (Purchase Order Cancellation)', 'Inbound Purchase Order Acknowledgments', 'Outbound Purchase Order Acknowledgments Change Acknowledgment', 'Order Management Acknowledgments Open Interface', 'Order Management Acknowledgments Open Interface', 'Order Management Profile', 'Order Management Sales', 'Order Management Sales Open Interface', 'Order Management Sales Open Interface', and 'Process Order API'.

Name	Internal Name	Product	Type	Status	Description
Inbound Cancel PO (Purchase Order Cancellation)	INT-CPO	Order Management	Web Gateway	Active	This is the message map to support the inbound Cancel PO (Purchase Order Cancellation) XML transaction which, through the population of data in the header and line open interface tables, allows the full cancellation of sales orders in Order Management and also supports the partial and full cancellation of sales order lines.
Outbound Cancel PO (Purchase Order Cancellation)	OUT-CPO	Order Management	Web Service	Active	This is the message map to support the inbound Cancel PO (Purchase Order Cancellation) XML transaction which, through the population of data in the header and line open interface tables, allows the full cancellation of sales orders in Order Management and also supports the partial and full cancellation of sales order lines.
Inbound Purchase Order Acknowledgments	INT-POAO	Order Management	EDI	Active	This is the source file to support the inbound Purchase Order Acknowledgments EDI transaction which reports order status after the order has been booked.
Outbound Purchase Order Acknowledgments Change Acknowledgment	OUT-POAO	Order Management	EDI	Active	This is the source file to support the inbound Purchase Order Acknowledgments EDI transaction which reports order status after post-booking changes to the order have occurred.
Order Management Acknowledgments Open Interface	ECEPOAO	Order Management	Open Interface	Active	This concurrent program allows users to run the inbound Purchase Order Acknowledgments EDI transaction which reports order status after the order has been booked.
Order Management Acknowledgments Open Interface	ECEPOAO	Order Management	Open Interface	Active	This concurrent program allows users to run the inbound Purchase Order Acknowledgments EDI transaction which reports order status after post-booking changes to the order have occurred.
Order Management Profile	OE_PROFILE	Order Management	PL/SQL	Active	This AFS contains utilities used to retrieve Order Management profile options.
Order Management Sales	ECEPOCI	Order Management	Open Interface	Active	This concurrent program allows users to run the inbound Change Purchase Orders EDI transaction which allows users to update sales orders in the Order Management system and also supports various actions including the import and update of price adjustments, pricing attributes, sales credits, reservations, action requests, as well as customer creation.
Order Management Sales Open Interface	ECEPOCI	Order Management	Open Interface	Active	This concurrent program allows users to run the inbound Change Purchase Orders EDI transaction which allows users to update sales orders in the Order Management system and also supports various actions including the import of price adjustments, pricing attributes, sales credits, reservations, action requests, as well as customer creation.
Process Order API	OE_ORDER_PUB	Order Management	PL/SQL	Active	This public API allows users to perform various operations on sales orders in the Order Management system.

- Search and view available interfaces by product family, standard, or interface type
- Hosted for 11.5.10: <http://irep.oracle.com>
- Shipped with Release 12 – automatically matches the patch level at your own site
- Supports custom service interfaces

# Oracle E-Business Suite Adapter

## Integration Solution Overview



- Leverages Integration Repository
- Secured and Trusted Connection
- Function Security Enabled

- Application Context Ready
- Transaction Support
- Customization Support

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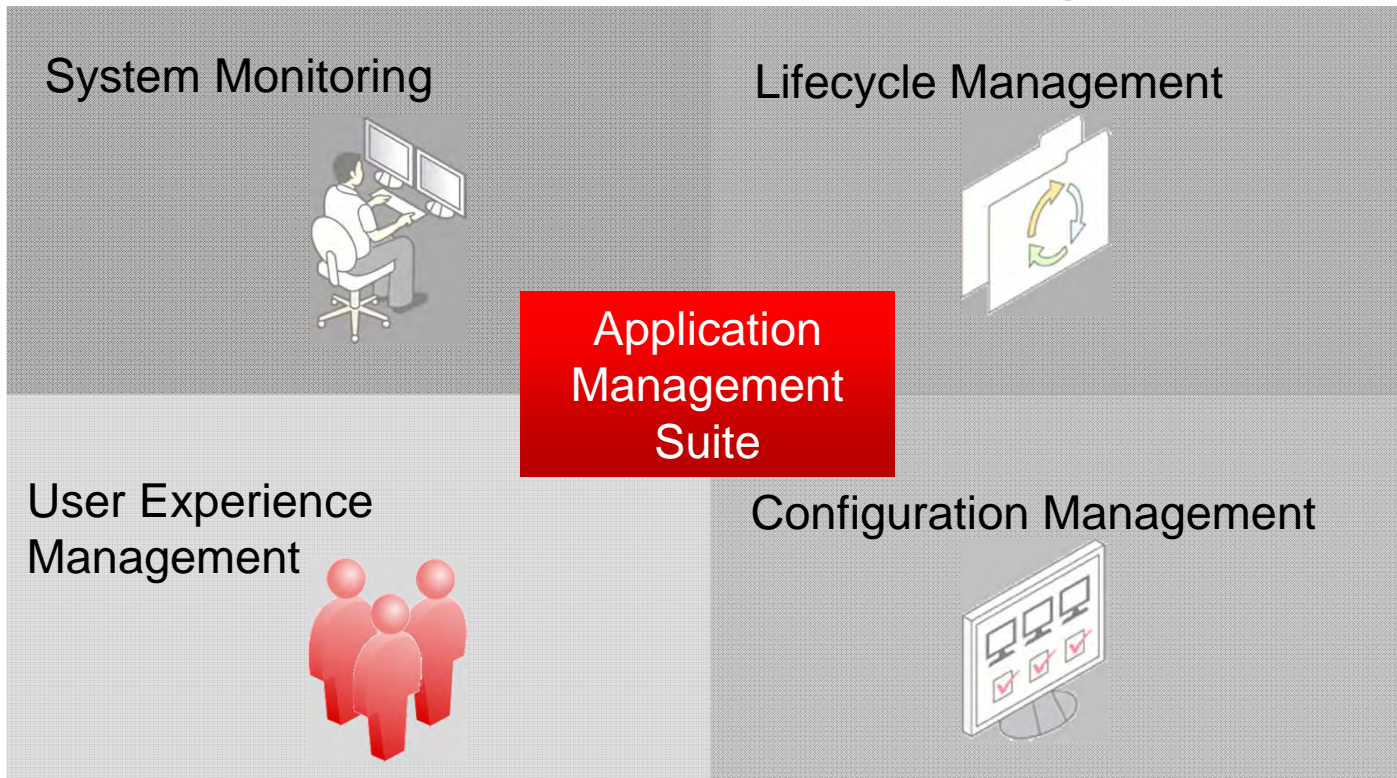


# Systems Management

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# Application Management Suite for EBS

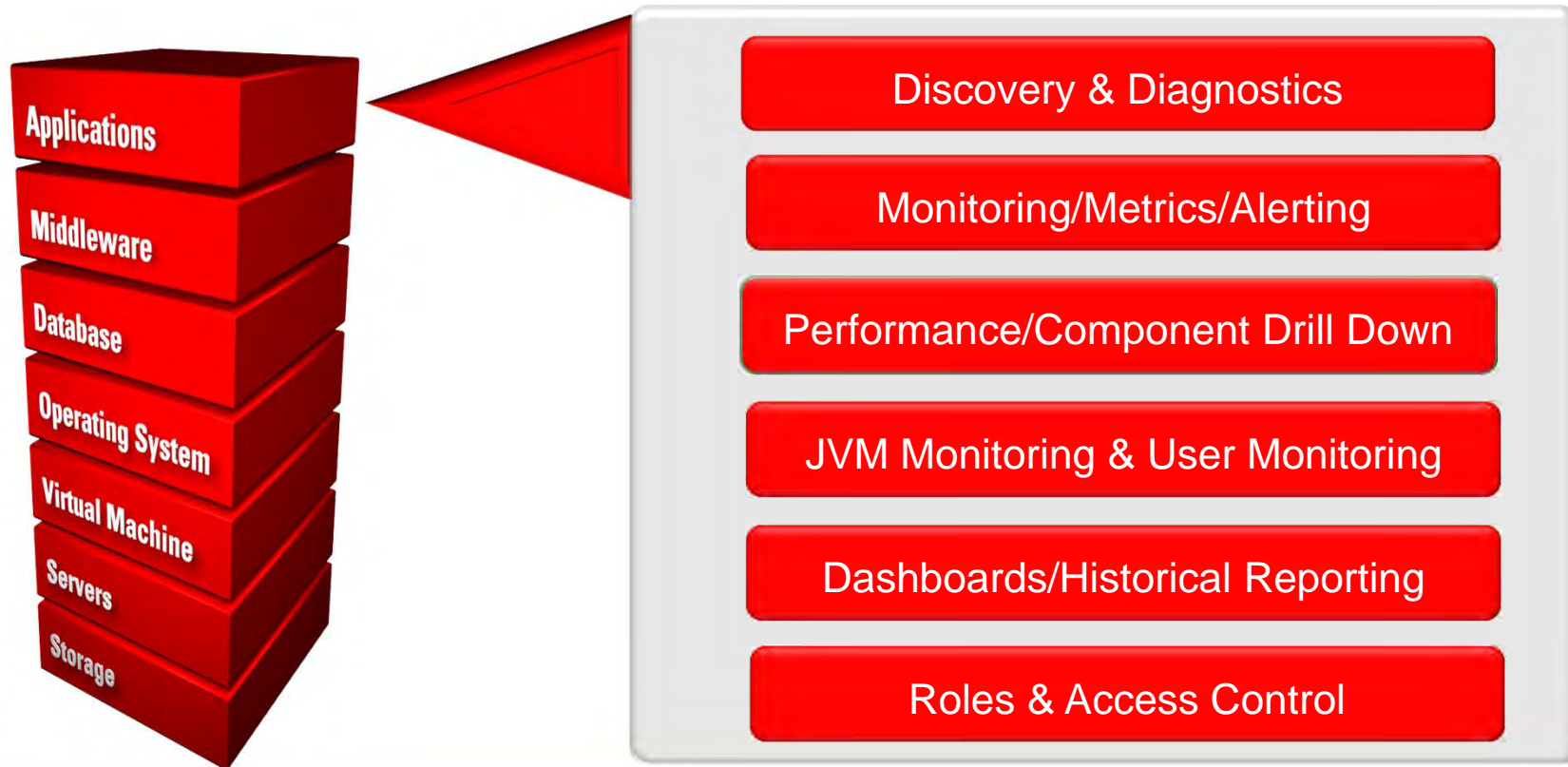
Business visibility built-into each category



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# System Management

## Oracle E-Business Suite Targets

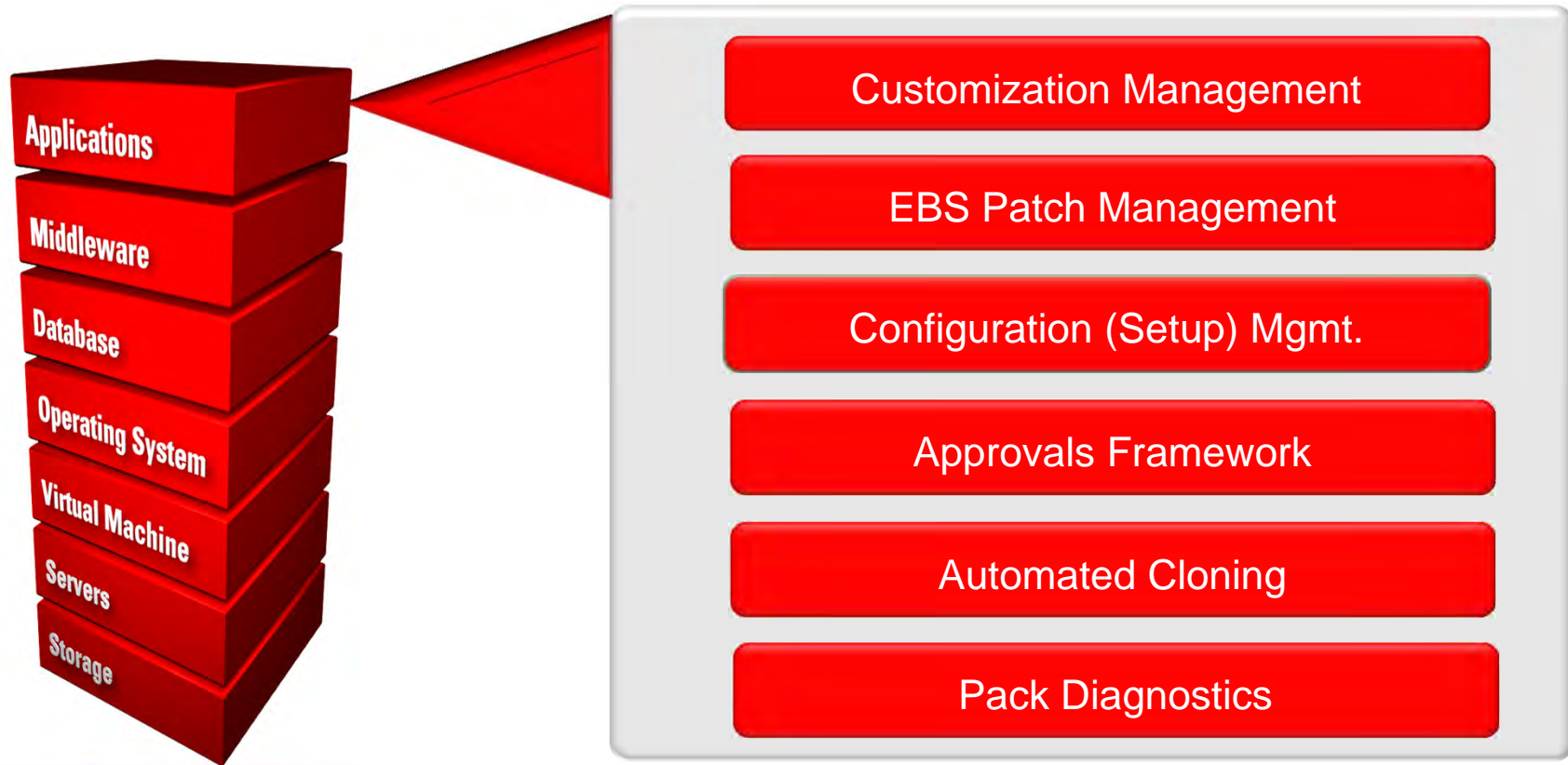


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# Lifecycle / Change Management

## Oracle E-Business Suite Targets



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# WebLogic Server Administration Console

ORACLE WebLogic Server<sup>™</sup> Administration Console

Home Log Out Preferences Record Help Welcome, weblogic Connected to: EBS\_domain\_PROD

### Change Center

**View changes and restarts**

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

### Domain Structure

EBS\_domain\_PROD

- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

### How do I...

- Search the configuration
- Use the Change Center
- Record WLST Scripts
- Change Console preferences
- Monitor servers

### Home Page

#### Information and Resources

##### Helpful Tools

- Configure applications
- Configure GridLink for RAC Data Source
- Recent Task Status
- Set your console preferences
- Oracle Enterprise Manager

##### General Information

- Common Administration Task Descriptions
- Read the documentation
- Ask a question on My Oracle Support
- Oracle Guardian Overview

#### Domain Configurations

##### Domain

- Domain

##### Environment

- Servers
- Clusters
- Virtual Hosts
- Migratable Targets
- Coherence Servers
- Coherence Clusters
- Machines
- Work Managers
- Startup And Shutdown Classes

##### Services

- Messaging
  - JMS Servers
  - Store-and-Forward Agents
  - JMS Modules
  - Path Services
  - Bridges
- Data Sources
- Persistent Stores
- XML Registries
- XML Entity Caches
- Foreign JNDI Providers
- Work Contexts

##### Interoperability

- WTC Servers
- Jolt Connection Pools

##### Diagnostics

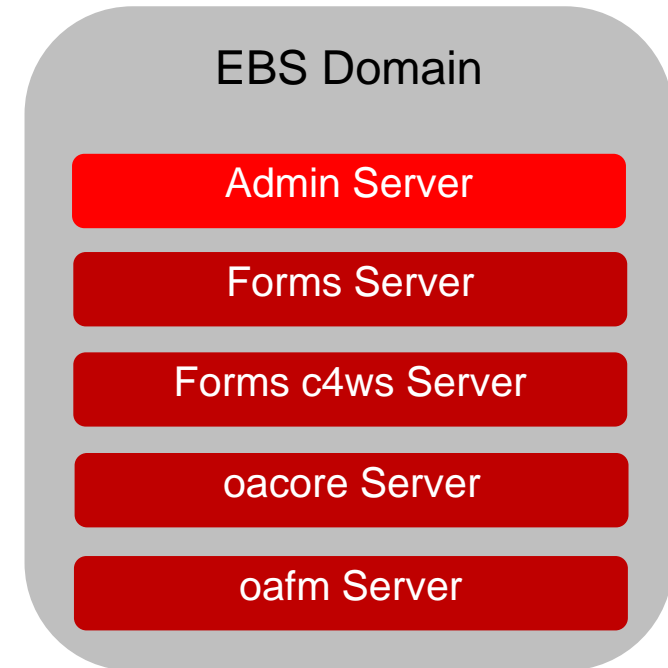
- Log Files
- Diagnostic Modules
- Diagnostic Images
- Request Performance
- Archives
- Context
- SNMP

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# WebLogic Server

## Terminology

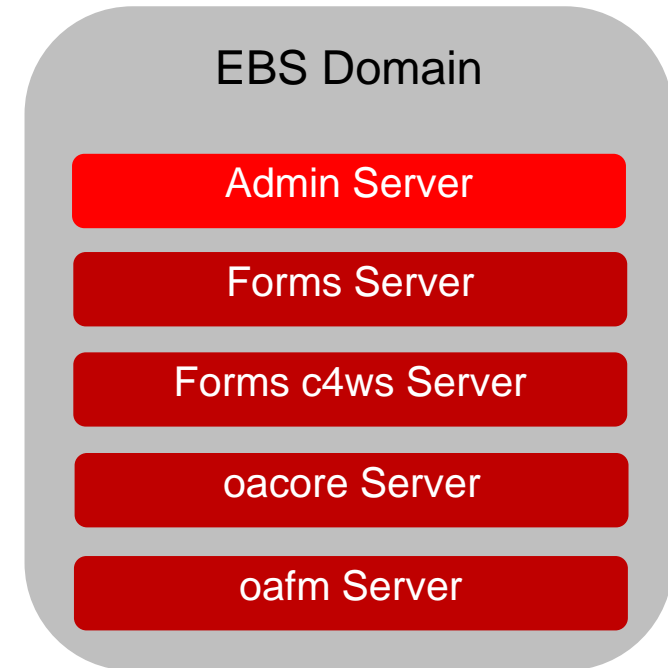
- **Domain**
  - A domain is the basic administration unit for WebLogic Server instances
  - Logical group of an Admin Server and one or more Managed servers
- **Admin Server**
  - Special instance of WebLogic Server instance
  - Operates as the central control entity for the configuration of the entire domain
  - Stores the configuration information of all other servers in the domain



# WebLogic Server

## Terminology

- **Managed Server**
  - Server instances other than the Admin server in a Domain
  - Does not depend on Admin server once up and running
  - Can be clustered to increase availability and scalability
  - All managed servers in a cluster are part of the same domain
- **Node Manager**
  - Separate process from WebLogic server
  - Used to control Managed servers and perform startup/shutdown operations remotely



# WebLogic Server Administration Console

ORACLE WebLogic Server® Administration Console

Change Center

[View changes and restarts](#)

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

[Lock & Edit](#)

[Release Configuration](#)

Domain Structure

- EBS\_domain\_PROD
  - Environment
    - Servers**
    - Clusters
    - Virtual Hosts
    - Migratable Targets
    - Coherence Servers
    - Coherence Clusters
    - Machines
    - Work Managers
    - Startup and Shutdown Classes
  - Deployments
  - Services

How do I...

- Create Managed Servers
- Clone Servers
- Delete Managed Servers
- Delete the Administration Server
- Start and stop servers

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: EBS\_domain\_PROD

Home > Summary of Servers

### Summary of Servers

[Configuration](#) [Control](#)

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page summarizes each server that has been configured in the current WebLogic Server domain.

[Customize this table](#)

Servers (Filtered - More Columns Exist)

[New](#) [Clone](#) [Delete](#) Showing 1 to 5 of 5 Previous | Next

<input type="checkbox"/>	Name	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)		localhost	RUNNING	OK	7001
<input type="checkbox"/>	forms-c4ws_server1	forms-c4ws_cluster1	localhost	SHUTDOWN		7610
<input type="checkbox"/>	forms_server1	forms_cluster1	localhost	SHUTDOWN		7210
<input type="checkbox"/>	oacore_server1	oacore_cluster1	localhost	SHUTDOWN		7010
<input type="checkbox"/>	oafm_server1	oafm_cluster1	localhost	SHUTDOWN		7410

[New](#) [Clone](#) [Delete](#) Showing 1 to 5 of 5 Previous | Next

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# WebLogic Server

## Management Pack for WLS

- Leverages EM Grid Control
- Manage multiple WLS instances
- Application Performance Management
- Configuration Management
- End-to-end patch automation
- WLS Administration
  - Cloning of WLS Servers
  - Extending WLS Domains
  - Monitoring WLS targets

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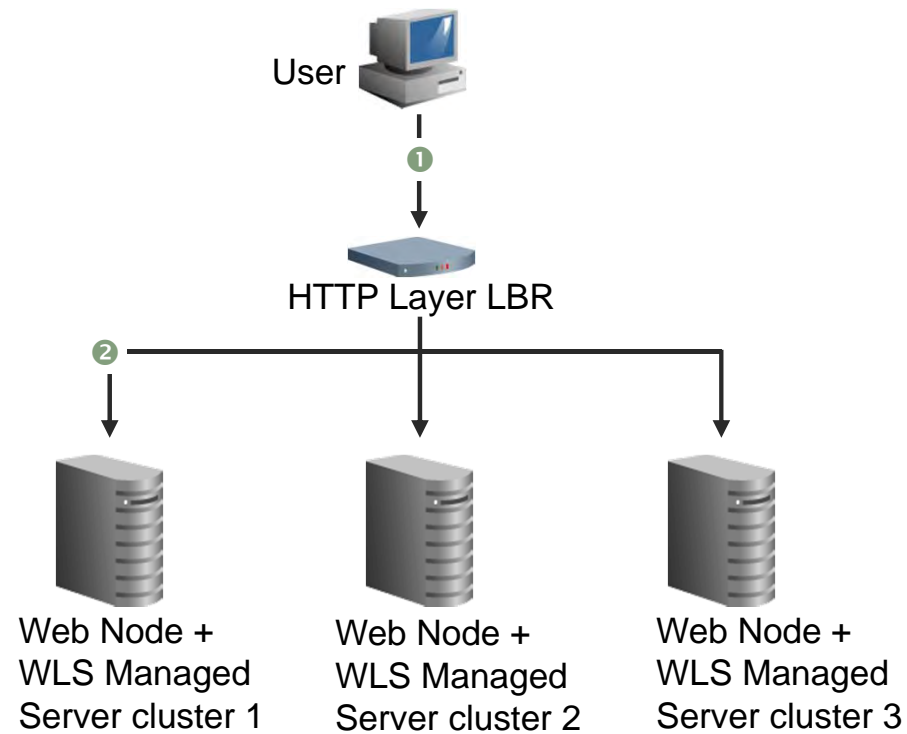
**ENTERPRISE MANAGER**

**Management Pack  
for WLS**

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# WebLogic Server

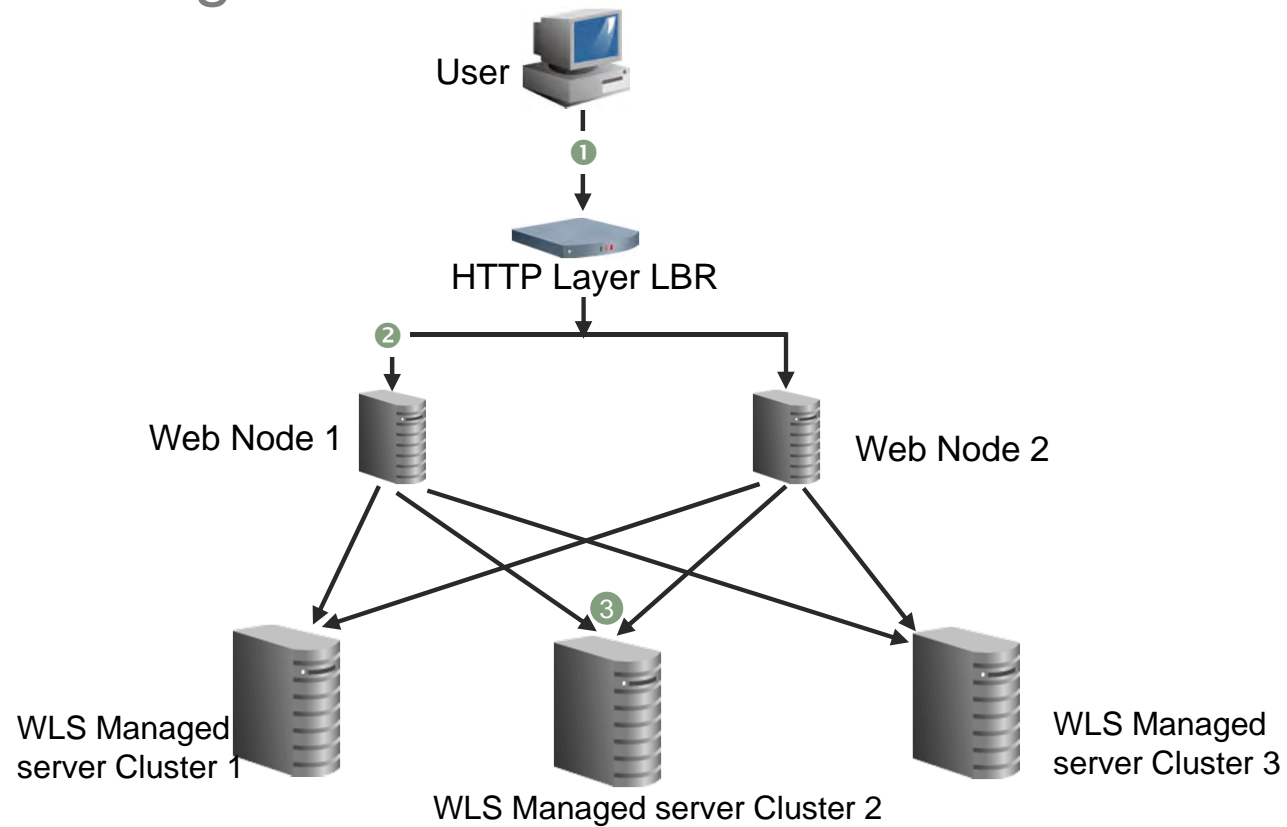
## Load Balancing – Scenario 1





# WebLogic Server

## Load Balancing – Scenario 2



# WebLogic Server

## Benefits

- End users experience “always on” applications & services
- Comprehensive, low-overhead application monitoring and deep diagnostics
- Integration with Oracle RAC for highest levels of application availability
- Rapid development of applications without lost time due to System restarts
- Comprehensive tooling simplifies customization development and speeds new application delivery

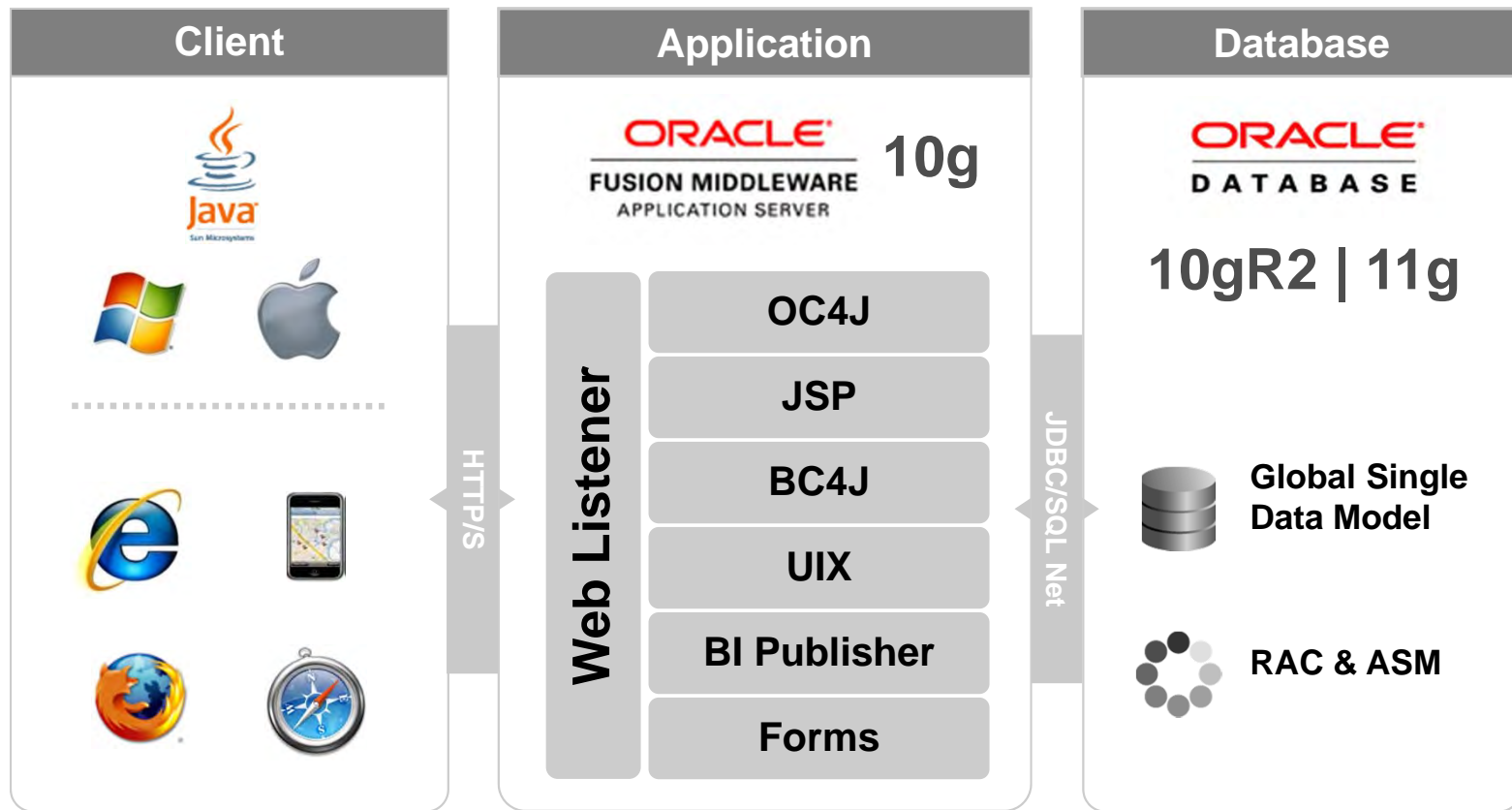


Next Oracle E-Business  
Suite Version R12.2

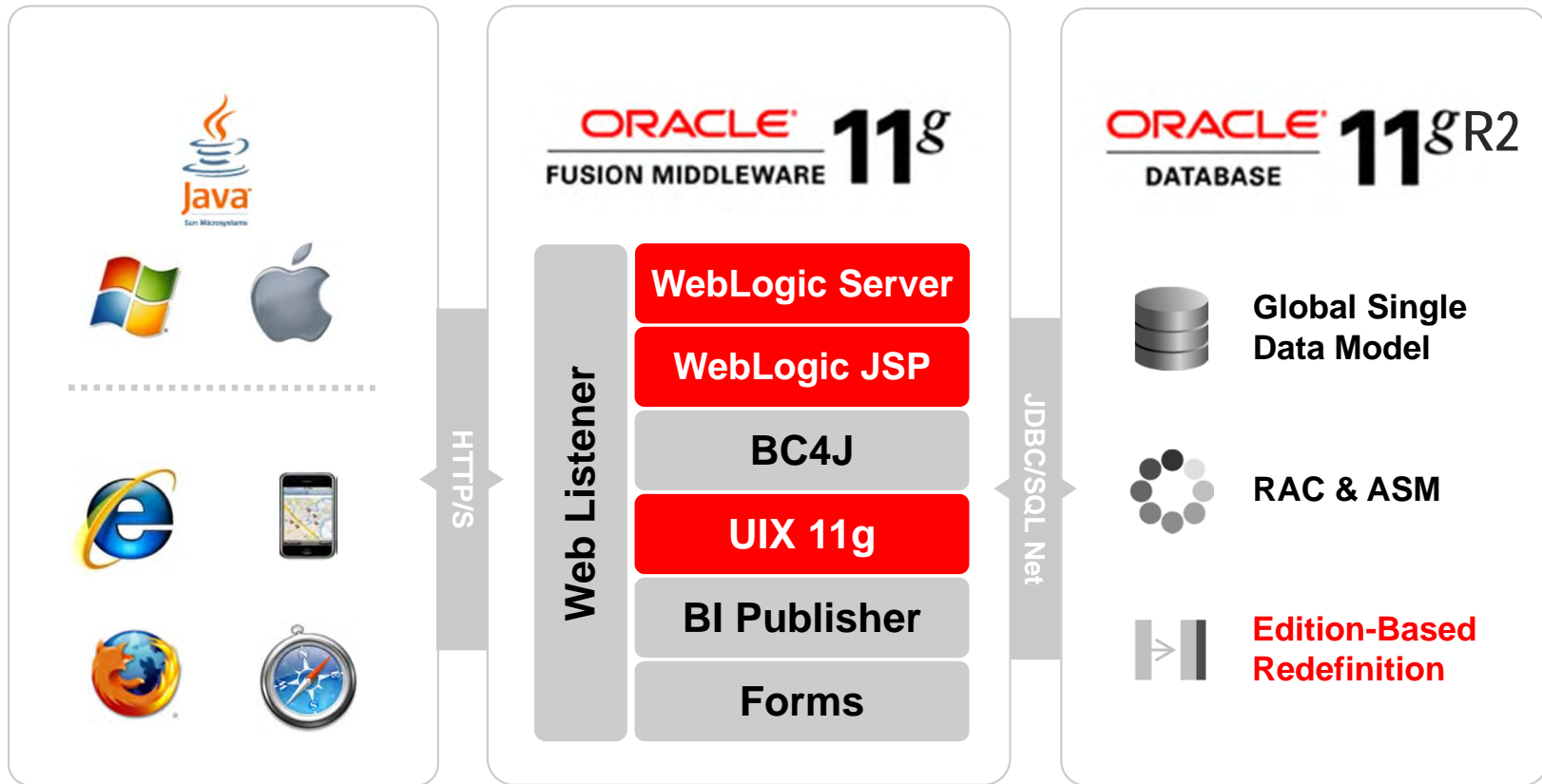
**SOFTWARE.  
HARDWARE.  
COMPLETE.**

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

# Release 12.1 Technology Stack: 3-Tier Logical Architecture



# EBS Release 12.2 Technology Stack








# WebLogic Server

## Features Planned for 12.2

- Graphical User Interface
- WebLogic Scripting Tool (WLST)
- High Availability & Failover
- Consolidated Administration
- Configuration and Deployment
- Monitoring & Messaging
- Troubleshooting Framework
- Integration with OAM



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# Additional Resources



# References

MOS Note ID	Description
380489.1	Using Load-Balancers with Oracle E-Business Suite Release 12
384248.1	Sharing The Application Tier Filesystem in Oracle E-Business Suite Release 12
380490.1	Oracle E-Business Suite R12 Configuration in a DMZ
380486.1	Installing and Configuring Web Cache 10g and Oracle E-Business Suite Release 12
376700.1	Enabling SSL in Release 12
1110648.1	Oracle E-Business Suite Release 12.1 with Oracle Database 11g Advanced Compression
1224313.1	Getting Started with Oracle E-Business Suite Plug-in, Release 4.0

# References

Topic	Reference Guide or Web Site
Application Management Suite for Oracle E-Business Suite	<a href="http://www.oracle.com">http://www.oracle.com</a> → Oracle Enterprise Manager → Application Management
WebLogic Server Management Pack	<a href="http://www.oracle.com">http://www.oracle.com</a> → Oracle Enterprise Manager → Middleware Management
Oracle E-Business Suite Technology Blog	<a href="http://blogs.oracle.com/stevenchan/">http://blogs.oracle.com/stevenchan/</a>

# Related OOW 2011 Sessions

<http://www.oracle.com/openworld/index.html>

**Go to Tools → Content Catalog, then enter the Session ID in the Keyword Search text box**

17247 - Web Services and SOA Integration Options for Oracle E-Business Suite

17245 - Advanced Performance Tips for Oracle E-Business Suite: Oracle RAC, Oracle Advanced Compression

17257 - Integrating Oracle E-Business Suite with Oracle Identity Management Solutions

17242 - Automating Patching with Oracle Application Management Suite for Oracle E-Business Suite

17249 - Oracle E-Business Suite Technology Certification Primer and Roadmap

17240 - Minimizing Oracle E-Business Suite Maintenance Downtimes

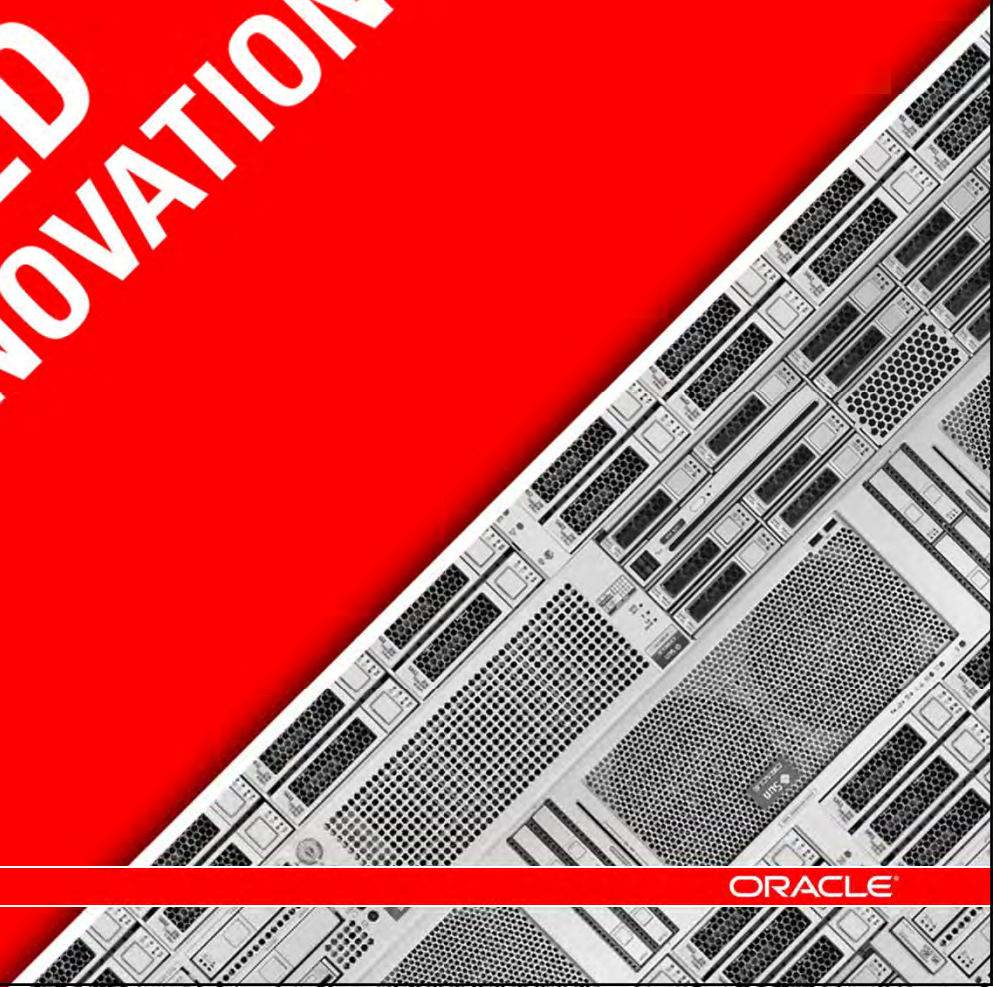


# Q&A

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