E-Business Suite Technology Stack Certification Roadmap

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Senior Director, Applications Technology Integration
Topics

Support Policy Updates

• Lifetime Support Stages
• Technology Products Support Stages
• EBS Support Stages

E-Business Suite Certifications & Roadmap

• Desktop Clients
• Database Tier
• Application Server Tier
• External Integrations
• Security-Related
• “Other Cool Stuff”

Last updated: June 3, 2011
Support Policy Updates
Lifetime Support Stages

5 Years  
Premier

3 Years  
Extended

Indefinite  
Sustaining

Extra cost
## Lifetime Support Coverage

<table>
<thead>
<tr>
<th>Key Feature</th>
<th>Premier Support</th>
<th>Extended Support</th>
<th>Sustaining Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Product and Technology Releases</td>
<td>●</td>
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<tr>
<td>Technical Support</td>
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<tr>
<td>Access to Support Portal</td>
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<tr>
<td>Updates and Fixes</td>
<td>●</td>
<td>●</td>
<td>Pre-existing</td>
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<tr>
<td>Security Alerts</td>
<td>●</td>
<td>●</td>
<td>Pre-existing</td>
</tr>
<tr>
<td>Critical Patch Updates</td>
<td>●</td>
<td>●</td>
<td>Pre-existing</td>
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<tr>
<td>Tax, Legal, and Regulatory Updates</td>
<td>●</td>
<td>●</td>
<td>Pre-existing</td>
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<tr>
<td>Upgrade Scripts</td>
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<td>Pre-existing</td>
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<tr>
<td>Certification with Existing third-party Products/versions</td>
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<tr>
<td>Certification with most new third-party products/versions</td>
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<tr>
<td>Certification with most new Oracle products</td>
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<td></td>
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</tbody>
</table>

[oracle.com/support/lifetime-support-policy.html](oracle.com/support/lifetime-support-policy.html)
The most important thing not in Extended Support

“Certification with most new third-party products/versions”

Examples

- New server-based platforms (HP-UX, AIX, etc)
- New IE, Firefox, Safari releases
- Windows 7 Service Packs
  Vista Service Packs
  New Windows versions
- Microsoft Office
- Mac OS X 10.7
Where can I find authoritative dates?

www.oracle.com/support/lifetime-support-policy.html
<table>
<thead>
<tr>
<th>DB</th>
<th>Premier Support Ends</th>
<th>Extended Support Ends</th>
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<tr>
<td>9.2</td>
<td>Jul 2007</td>
<td>Jul 2010</td>
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<td>10.2</td>
<td>Jul 2010</td>
<td>Jul 2013</td>
</tr>
<tr>
<td>11.1</td>
<td>Aug 2012</td>
<td>Aug 2015</td>
</tr>
<tr>
<td>11.2</td>
<td>Jan 2015</td>
<td>Jan 2018</td>
</tr>
</tbody>
</table>
Database Support Windows

10.2 Extended

11.1 Premier Extended

11.2 Premier Extended

You Are Here
Premier Support Policies for Technology Products

New Database & Fusion Middleware patches released for

• Current patchset
• Previous patchset for 12 months after current patchset’s release

“New patches” include

• Quarterly Critical Update Patches (security fixes)
• Quarterly Patch Set Updates
• Patch bundles
• Interim patches (a.k.a. “one-off” or emergency patches)
Implications for E-Business Suite Users

Articles on blogs.oracle.com/stevenChan

• “On Database Patching and Support: A Primer for E-Business Suite Users”

• “On Apps Tier Patching and Support: A Primer for E-Business Suite Users”
## E-Business Suite Support Windows

<table>
<thead>
<tr>
<th>EBS</th>
<th>Premier Support Ends</th>
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<tr>
<td>11.5.10</td>
<td>Nov 2010</td>
<td>Nov 2013</td>
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<td>12.0</td>
<td>Jan 2012</td>
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<td>12.1</td>
<td>May 2014</td>
<td>May 2017</td>
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E-Business Suite Support Windows

<table>
<thead>
<tr>
<th>Year</th>
<th>11i</th>
<th>12.0 Premier</th>
<th>12.1 Premier</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
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<td>2013</td>
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</tbody>
</table>

You Are Here
Minimum Extended Support Baseline for EBS 11i
Note 883202.1

1. EBS 11.5.10 with Consolidated Update 2
2. ATG Rollup Patchset 6 (Patch 5903765)
3. Database 10.2.0.4 or 11.1.0.7
4. Forms6i Patchset 19 (Version 6.0.8.28, Patch 6194129)
5. Oracle HTTP Server MLR Patchset 4393827
6. Sun Java Runtime Engine (JRE) 1.6.0_03+

and

2. EBS patches listed for all licensed and shared products

From Dec. 1 2010
What 11i Baseline Patches Do You Need?

Use EBS Patch Wizard to generate a report (Patch 10123716)

<table>
<thead>
<tr>
<th>Product Family</th>
<th>Recommended Patches</th>
<th>New Code Level</th>
<th>Minimum Baseline Support</th>
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<tbody>
<tr>
<td>Applications Technology</td>
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<td>Applications Updates</td>
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<td>E-Business Intelligence</td>
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<td>Interaction Center</td>
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<td>Discrete Manufacturing</td>
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<td>E-Business Suite</td>
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<td>Financials</td>
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<tr>
<td>Financial Payables Suite</td>
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<tr>
<td>Financial Receivables Suite</td>
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<td></td>
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</tr>
</tbody>
</table>

Note 1178133.1
Minimum Extended Support Baseline for EBS 12.0
Note 1195034.1

1. EBS 12.0.6
2. Database 10.2.0.5, 11.1.0.7, 11.2.0.2
3. Forms 10.1.2.3
4. Java 6 for server-side Java
5. Sun Java Runtime Engine (JRE) 1.6.0_03+

and

2. EBS patches listed for all licensed and shared products
EBS Certification Roadmap
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 Technology Stack
3-Tier Logical Architecture

Client
- Java
- Windows
- Apple

Application
- ORACLE
- 10g
- OC4J
- JSP
- BC4J
- UIX
- BI Publisher
- Forms

HTTP/S

Web Listener

Database
- ORACLE
- 10gR2 or 11g
- Global Single Data Model
- RAC & ASM

ORACLE

JDBC/SQQL Net
Only Lifetime Support Documents are authoritative

• The following slides summarize support dates from the various Oracle Lifetime Support documents listed here:
  
  www.oracle.com/support/lifetime-support-policy.html

• Do *not* use this presentation as your sole source of support information. You *must* check the source documents for the authoritative support dates.
Interpreting These Diagrams

“Premier Support for Discoverer 4i ended as of Oct 2006.”

Discoverer 4i Oct 2006 —> Discoverer 10g Dec 2011

“Premier Support for Discoverer 10g is available until Dec 2011.”

11.5.10 Nov 2010

“11.5.10 is expected to be a terminal release”

STOP

JRE 6 1.6.0_03+

“We plan to certify JRE 7 with EBS”

JRE 7

“11.5.10 is expected to be a terminal release”

Premier Support for Discoverer 4i ended as of Oct 2006.”

Premier Support for Discoverer 10g is available until Dec 2011.”

We plan to certify JRE 7 with EBS”
EBS Release Roadmap

11.5.8  
Nov 2007

11.5.9  
Jun 2008

11.5.10  
Nov 2010

12.0.0  
Jan 2012

12.1.1  
May 2014

12.0.4

12.1.2

12.0.6

12.1.3

12.2

Legend
No Premier Support
Supported
Future
EBS Release 12.2 Technology Stack

Client

Application

WebLogic JSP
WebLogic Server
BC4J
UIX 11g
BI Publisher
Forms

Database

ORACLE FUSION MIDDLEWARE 11g

ORACLE DATABASE 11g

11gR2

Global Single Data Model
RAC & ASM
Edition-Based Redefinition
Latest middleware: Fusion Middleware 11g

- WebLogic Server to replace Fusion Middleware 10g
- Oracle Containers for Java (OC4J)

Latest database: Oracle 11gR2 11.2 Database

- Online patching via Edition-Based Redefinition
- Improved performance via database result caching
Reducing Patching Downtime
Online Patching With Oracle 11g Release 2 Database

- Functionality uses native 11gR2 features that allow online application upgrade with uninterrupted availability of the application
- Patches can be applied while the production system is fully operational
- Only a short downtime is required to complete patching process
- The amount of downtime required by any patch will be more predictable
EBS 12.2 Technology Highlights

Enhanced User Experience

Enhanced user interface

• Home page improvements
• New slide-out navigator
• Personalization improvements
• AutoVue print services for attachments

Performance enhancements

• Workflow RAC Affinity
• Result set caching for profiles
EBS 12.2 Technology Highlights
Expanded Integration and Certifications

Improved integration
• SOA Suite 11g for SOA Gateway
• Integration Repository enhancements
• Asynchronous Web Services support

Latest desktop certifications
• WebADI integration with Oracle Open Office
• Internet Explorer 9 and Firefox 4 for Windows desktops, Safari 5 on Mac

Internationalization enhancements
• Serbian and Albanian language support
• Enhanced international calendar support
E-Business Desktop Client Certifications

<table>
<thead>
<tr>
<th>Recommended Version</th>
<th>11i</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows</td>
<td>Windows 7 SP1</td>
<td>Windows 7 SP1</td>
</tr>
<tr>
<td>Apple Mac OS X</td>
<td>10.4</td>
<td>10.6</td>
</tr>
</tbody>
</table>

Also supported

- Windows 7
- Windows Vista, SP 1, SP 2
- Windows XP SP 2, SP 3

Check Notes 285218.1 & 389422.1 for your target configuration
## E-Business Desktop Browser Certifications

<table>
<thead>
<tr>
<th>Recommended Version</th>
<th>11i</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Internet Explorer</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Mozilla Firefox</td>
<td>3.6</td>
<td>3.6</td>
</tr>
<tr>
<td>Apple Safari</td>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Also Supported</th>
<th>11i</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Internet Explorer</td>
<td>6, 7</td>
<td>6, 7</td>
</tr>
<tr>
<td>Mozilla Firefox</td>
<td>3.x</td>
<td>3.x</td>
</tr>
</tbody>
</table>

Check Notes 285218.1 & 389422.1 for your target configuration
Windows 7 Configurations

Certified
- Windows 7 Service Pack 1
- Windows 7 32-bit, 32-bit browser, 32-bit JRE
- Windows 7 64-bit, 32-bit browser, 32-bit JRE

Upcoming
- Windows 7 64-bit, 64-bit browser, 64-bit JRE
Future Desktop Platform Certifications

Both EBS 11i & 12
- IE 9
- Firefox 4, 5, 6, 7
- Mac OS X 10.7 ("Lion")
EBS Desktop Java Client Roadmap

JInit 1.1
Dec 2008

JInit 1.3
Jul 2009

JRE 1.4
Dec 2006

JRE 5
Apr 2008

JRE 6
1.6.0_03+

JRE 7

Legend
No Premier Support
Supported
Future

JInit – JInitiator

JRE – Java Runtime Engine

EBS 11i only
EBS + Office Roadmap

Legend:
- No Premier Support
- Supported
- Future

MS Office 2003 → MS Office 2007 → MS Office 2010
E-Business Suite
Database Tier Roadmap
Supported Database Options & Features

- Advanced Compression
- Active Data Guard
- Using Active Data Guard databases for EBS reporting
- Advanced Networking Option
- Cross-Platform Transportable Tablespaces
- Data Guard Redo Apply with Physical Standby
- Database Partitioning
- Database Vault
- Native PL/SQL Compilation
- Oracle Connection Manager
- Oracle Label Security (OLS)
- Real Application Clusters (RAC)
- Real Application Testing
- SecureFiles
- Transparent Data Encryption (TDE) (Column & Tablespace)
- Transportable Database
- Virtual Private Database (VPD)

Configurations vary by EBS and DB release; check documentation
Advanced Compression in Oracle’s Internal EBS

Implemented compression with Oracle’s Internal E-Business Suite
- 4-node Sun E25K RAC; Compressed 100 largest tables and associated objects with 11gR1

Results
- Average database storage savings 3x
- Table compression 4x
- Index compression 2x
- LOB compression 2.3x

231 TB of total storage savings across primary, standby, test, dev and backup instances
Future Database Tier Certifications

Active Projects
- Turnkey solution for using Oracle Golden Gate for EBS reporting
- Streamlining Real Application Clusters + EBS documentation

Under Evaluation
- Shared database ORACLE_HOMEs
EBS 11i Forms6i Roadmap

Legend
- No Premier Support
- Supported
- Future

PS – Forms6i Patchset
EBS 12 Java Runtime Roadmap

OC4J 10.1.3 → OC4J 10.1.3.3 → OC4J 10.1.3.4 → OC4J 10.1.3.5 → OC4J 10.1.3.6

Legend
- No Premier Support
- Supported
- Future
## EBS Application Tier Java Certifications

<table>
<thead>
<tr>
<th>Platform</th>
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<tbody>
<tr>
<td>HP-UX</td>
<td>Jan 2007</td>
<td>Until Java 7 release</td>
<td>Sep 2011</td>
<td>Sep 2012</td>
</tr>
<tr>
<td>IBM AIX</td>
<td>Sep 2007</td>
<td>Sep 2011</td>
<td>Sep 2012</td>
<td></td>
</tr>
</tbody>
</table>

**Important:** Check your O/S vendor’s support site for specific details
New in 12.1.2: OBIA content embedded in EBS pages

Embed custom content such as OBIA analytics in new rich container
Oracle E-Business Suite + External Identity Management

Authorization

E-Business Suite

Oracle Access Manager*

Authentication

Oracle Internet Directory

User Management

* Via WebGate & EBS AccessGate
EBS User Authentication Roadmap

- **EBS Built-In Security**
- **SSO 3.0.9 to 10.1.4.2**
- **SSO 10.1.4.3 Dec 2011**
- **STOP**
- **EBS 12 only**

Legend:
- **No Premier Support**
- **Supported**
- **Future**

**SSO** – Oracle Single Sign-On
**OAM** – Oracle Access Manager

* Dec 2012 if using Portal, Discoverer 11g
Application System Management Solution for EBS

- Monitor concurrent requests, workflows, user sessions
- Report on history & trends
- Automate repetitive DBA tasks

Centralized management of multiple environments

- Monitor concurrent requests, workflows, user sessions
- Report on history & trends
- Automate repetitive DBA tasks
### Oracle Enterprise Manager Grid Control Roadmap

**Application Management Pack (AMP)**

<table>
<thead>
<tr>
<th>AMP Version</th>
<th>10gR3</th>
<th>10gR4</th>
<th>10gR5</th>
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<tbody>
<tr>
<td>AMP 2.0</td>
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<td>AMP 2.0.1</td>
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<td>AMP 2.0.2</td>
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<td>AMP 3.0</td>
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<td>AMP 3.1</td>
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<td>AMP 4.0</td>
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</table>

**Legend**

- **No Premier Support**
- **Supported**
- **Future**
Application Change Management Solution for EBS

- Oracle EBS patches
- Your own customized patches
- Functional setups

Automated deployment across different environments:

- Oracle EBS patches
- Your own customized patches
- Functional setups
Oracle Enterprise Manager Grid Control Roadmap
Application Change Management Pack (ACMP)

<table>
<thead>
<tr>
<th></th>
<th>10gR3</th>
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<th>10gR5</th>
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<td>ACMP 3.1</td>
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<td>ACMP 4.0</td>
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Legend
- **No Premier Support**
- **Supported**
- **Future**
# External Fusion Middleware Certifications

<table>
<thead>
<tr>
<th>Oracle Application Server 10g Module</th>
<th>Release 11i</th>
<th>Release 12</th>
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<tbody>
<tr>
<td>Oracle SOA Suite (SOA development)</td>
<td>11.1.1.2</td>
<td>11.1.1.2</td>
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<tr>
<td>BPEL (prepackaged SOA integrations)</td>
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<td>11.1.1.2</td>
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<tr>
<td>Secure Enterprise Search</td>
<td>10.1.8.4</td>
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<td>GoldenGate</td>
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E-Business Suite Security Certifications Roadmap
## Security-Related Configurations

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<th>Feature</th>
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<tbody>
<tr>
<td>Tablespace Encryption</td>
<td>11.2.0.1</td>
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<tr>
<td>Column Encryption</td>
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<td>11.2.0.2</td>
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<tr>
<td>Database Vault</td>
<td>11.2.0.2</td>
<td>11.2.0.2</td>
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<tr>
<td>Advanced Networking Option (ANO)</td>
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<td>11.2.0.2</td>
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<td>SecureFiles</td>
<td>11.2.0.2</td>
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<td>Virtual Private Database (VPD)</td>
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<td>Oracle Label Security (OLS)</td>
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</table>
### Other Security-Related Certifications
Certified by Fusion Middleware Product Teams

<table>
<thead>
<tr>
<th>Identity Manager</th>
<th>11i</th>
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<td>11.1.1.4</td>
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<td>Enterprise Single Sign-On</td>
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<td>Identity Federation</td>
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<tr>
<td>Oracle Virtual Directory via OID</td>
<td>11.1.1.4</td>
<td>11.1.1.4</td>
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IPv6 Certified

Reverse proxy architecture

IPv6 to IPv4 Proxy

Desktop Client

Enterprise Server

Database

IPv4

IPv4
US Federal Desktop Core Configuration (FDCC)

Hardened client certification for US Federal agencies

- E-Business Suite 11.5.10.CU2, ATG RUP 6
- Native Sun JRE plug-in 1.6.0_03
- Vista Enterprise
- Windows XP SP2
- FDCC 1.1 Configuration

Future
- US Government Configuration Baseline (USGCB)
EBS Virtualization on Oracle VM

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

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

Oracle VM Servers
- Hold guest VMs
- Enterprise Linux
- Windows

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

XE, SE, EE or RAC Database
EBS Virtualization Templates

Self-contained EBS 12 system in two Oracle VM images

- EBS 12.1.3 Vision Demo Database tier (OEL 5.3 + 11.1.0.7 DB)
- EBS 12.X Application Server tier (OEL 5.3) – *any* EBS 12 release!
E-Business Suite + Oracle VM Resources

Free Downloads

- Oracle VM Template Developers Guide For Oracle E-Business Suite (Note 677681.1)
- Virtualization Kit Scripts for E-Business Suite OVM Templates (Patch 9207542)
- Oracle E-Business Suite High Availability on Oracle VM (Note 986690.1)
EBS-specific Oracle VM Capabilities

Oracle VM E-Business Suite Virtualization Kit
- Scripts to configure and wire the EBS VMs in each image
- Set instance names, IP addresses upon first boot

Live migration between application tier nodes!
- Conventional application tier failures, logout all users on a failed node
- End-user sessions on a virtual node in a VM server pool can be migrated to a different node... transparently
Amazon Virtual Private Cloud

Secure VPN Connection over the Internet

Customer's Network

Customer's isolated AWS resources

Subnets

VPN Gateway

Router

Amazon Web Services Cloud

ORACLE
E-Business Suite Technology Stack Blog

blogs.oracle.com/stevenChan

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