

ORACLE EXALOGIC ELASTIC CLOUD SOFTWARE DATA SHEET



KEY FEATURES AND BENEFITS

FEATURES

- Datacenter building block comprised of fully integrated compute nodes, storage and networking
- Choice of x86 or SPARC compute nodes
- Fully integrated ZFS network attached storage appliance with 40TB of SAS disk storage
- QDR InfiniBand IO Fabric, with 40 Gb/second throughput and microsecond latencies
- Datacenter service network integration with 10 GbE
- Scalable, open standard grid architecture
- Highly optimized, tuned and pre-configured for running Oracle's entire Fusion Middleware stack
- Complete redundancy for high availability

BENEFITS

- Fastest Java performance with application accelerated by 10x
- Foundation for mission critical cloud with no single point of failure
- Hardware and software engineered together for data center efficiency and IT agility
- One platform for all enterprise application consolidation
- Scale up to 8 racks without external switches
- Factory installed Oracle Solaris and Enterprise Linux
- Complete application to bare-metal management with Oracle Enterprise manager

Oracle Exalogic Elastic Cloud is the world's first and only integrated cloud machine—hardware and software engineered together to provide a "cloud in a box." Oracle Exalogic is designed to revolutionize datacenter consolidation, providing disparate, mission-critical, performance-sensitive workloads with maximum reliability, availability, and security.

Datacenter Challenges

For most enterprise IT organizations, years of innovation, expansion, and acquisition have resulted in sprawling infrastructure that stretches the limits of manageability and they now find themselves with multiple platforms, technologies, domains of expertise and vendors to coordinate and manage. In response, a number of technologies and practices have become prominent for large enterprises, ranging from consolidation, virtualization and centralized storage to enterprise-wide standardization of software and hardware. In addition, these techniques have given way to adoption of a more centralized, automated, and elastic infrastructure which is commonly referred to as the “private cloud.” Real-world approaches that truly deliver on the promise of the private cloud will involve systems engineered together for maximum performance while balancing openness, reliability, cost, flexibility, and resource efficiency.

Oracle Exalogic Elastic Cloud Solution

Oracle Exalogic Elastic Cloud is the world's first engineered system specifically designed to provide enterprises with a foundation for a secure, mission-critical private cloud capable of virtually unlimited scale, unbeatable performance, and previously unimaginable management simplicity. Exalogic is the ideal platform for applications of all types from small-scale departmental applications to the largest and most demanding ERP and mainframe applications. While Exalogic is optimized for enterprise Java, Oracle Fusion Middleware and Oracle's Fusion Applications, it is also an excellent environment for the thousands of third-party and custom Linux and Solaris applications widely deployed today. Simply put, Exalogic is a giant step forward in realizing Oracle's vision for the datacenter of the 21st century.

RELATED PRODUCTS AND SERVICES

Software

- WebLogic Server
- Coherence
- JRockit and HotSpot
- Exalogic Elastic Cloud Software
- Enterprise Manager
- Oracle Tuxedo (optional)
- Oracle Solaris
- Oracle Linux

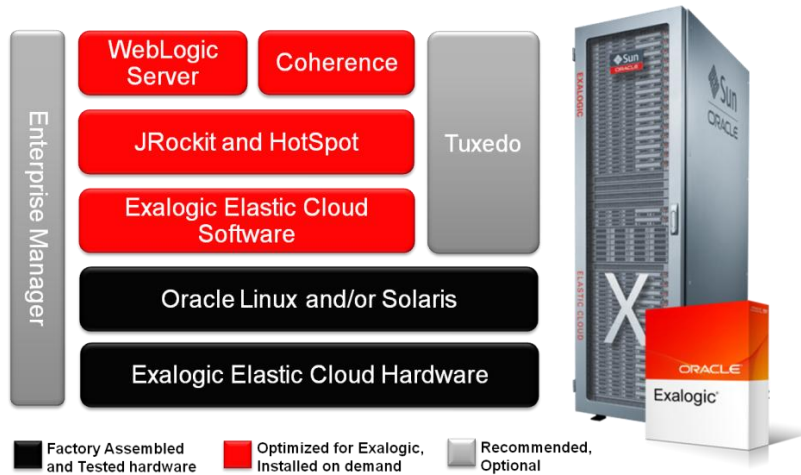
Oracle Exalogic Elastic Cloud Software

Oracle Exalogic Elastic Cloud Software includes a number of optimizations and enhancements made to the core products within Oracle WebLogic Suite. This includes Oracle WebLogic Server, Oracle Coherence, Oracle JRockit, and Oracle HotSpot. In addition to unique support for Java applications and Oracle Fusion Middleware, Exalogic also provides users with a choice of Oracle Linux or Oracle Solaris operating systems. Exalogic is 100% compatible with all standard Oracle Linux 5 and Solaris 11 applications, and no special certification for Exalogic is required and as a result, all Oracle applications that are certified for the appropriate releases of Oracle Linux and Solaris are supported on Exalogic.

RELATED SERVICES

The following services are available from Oracle:

- Advanced Customer Services
- Consulting Services
- Oracle University courses
- Oracle Auto Services Request



Oracle WebLogic Server

Industry's Leading Java EE Application Server (Gartner & IDC study), which has a comprehensive Java platform for developing, deploying, and integrating enterprise applications. It has also a robust support for the latest emerging Java EE APIs, including Web services, transactions, persistence, and security.

Oracle WebLogic benefits:

- Lower Operational Cost – Superior manageability with automation reduces the time and expense of keeping systems up and running
- Maximum Availability – Built-in features to drastically reduce planned and unplanned downtime and thus minimize business impact due to application outages
- Superior Performance – Fast, scalable systems enable IT to change as the business grows. Consistently sets world records in industry performance benchmarks.

- Best for Oracle portfolio – The product line is well integrated with the rest of Oracle's portfolio and has excellent support for interoperability with other systems

Oracle Coherence

Industry's Leading in-memory data-grid solution, enabling organizations to predictably scale mission-critical applications by providing fast and reliable access to frequently used data.

Oracle Coherence benefits:

- Predictable application scalability – Enables applications to scale linearly and dynamically for predictable cost and improved resource utilization. Scalability of data capacity and processing capacity.
- Improved Service Level – No single point of failure. Allows for significant increases in transaction rates while improving application response times.
- Automated, dynamic data partitioning—enables continuous data availability and transactional integrity, even in the event of a server failure.
- Reduce Cost by offloading backend systems – DB, Mainframe etc. Get up to 4x more Application Server density out-of-the-box for Web applications.

Oracle JRockit and HOTSPOT

Industry's fastest Java Virtual Machine (JVM) that provides deterministic response times for standard Java on the order of milli- or even micro-seconds, highly suitable for the latency requirements of the most demanding financial, military, and telecom applications.

Benefits of Oracle JRockit and HOTSPOT

- Predictable and extreme latency performance – Guaranteed acceleration of application execution
- Zero coding – 'Swap out' any JVM with Zero-coding and minimal configuration for instantaneous performance improvements
- Advanced management tools – Monitor, tune and diagnose your in-production application performance with no performance penalties

Oracle Enterprise Manager

Oracle Enterprise Manager provides application-to-disk management through Enterprise Manager Grid Control and Enterprise Manager OpsCenter. Enterprise Manager allows every individual hardware component within an Exalogic deployment to be monitored in real time

and, at the customer's option, have system status automatically reported to Oracle Support for proactive system maintenance. Through integration with Oracle Support, Enterprise Manager can apply tested patch bundles tailored for Exalogic that cover every layer of the system, from device firmware and operating system to JVM, application server, upper-stack Fusion Middleware, and Oracle applications.

Oracle Solaris and Oracle Enterprise Linux

Exalogic provides users with a choice of Oracle Linux or Oracle Solaris operating systems. Solaris is the number one UNIX operating system in the market and Oracle continues to invest in Oracle Linux. Exalogic is 100% compatible with all standard Oracle Linux 5 and Solaris 11 applications. To this end, no special certification for Exalogic is required. As a result, all Oracle applications that are certified for the appropriate releases of Oracle Linux and Solaris are supported on Exalogic.

Exalogic Elastic Cloud Software

The Exalogic Elastic Cloud Software encapsulates a set of enhancements made to Oracle WebLogic Suite, for optimized performance when running on Exalogic hardware. The WebLogic Suite of products enhanced are the WebLogic Application Server, the JRockit Java Virtual Machine (JVM) and the Coherence In-Memory Data Grid. The software optimizations address performance limitations that only become apparent when the software is running on Exalogic's high-density computing nodes and fast-networking InfiniBand switches. With these software optimizations, the WebLogic Suite of products can utilize the benefits of this high-end hardware to the maximum, resulting in a well balanced hardware-software engineered system. At a high-level, the key benefits provided by the optimizations can be grouped into the following:

- Increased WebLogic scalability, throughput and responsiveness
- Superior WebLogic session replication performance
- Tighter Oracle RAC integration for more reliable database interaction
- Reduced response times for Exalogic to Exadata Communication

Extreme Performance Matched By The Best Support

Oracle Exalogic support offers complete, enterprise-ready services to ensure successful installation of Exalogic system by providing start-up services and 24x7 global support for both Exalogic software and hardware. In addition Oracle Exalogic support services provide a single point of accountability for faster trouble-free resolution with just one call.

Oracle Premier Support and Oracle Premier Support for Systems, delivers the best level of support, seamlessly.

Oracle Exalogic Elastic Cloud Software
Oracle WebLogic Server
10.3.4 or later
Oracle Coherence
3.6 or later
Oracle JRockit
28.1 or later
Oracle HotSpot
1.6.0_23 or later
Oracle Tuxedo (optional)
11.1.1 or later
Oracle Enterprise Manager OpsCenter
11.1.1.0.0 or later
Oracle Enterprise Manager Grid Control
11.1 or later
Integrated Lights Out Manager (ILOM)
3.0 or later
Oracle Solaris
11 Express
Oracle Linux
Unbreakable Enterprise Kernel 5.5 64-bit

For More Information

For more information please contact your Oracle sales professional or visit Exalogic on the Web at <http://www.oracle.com/exalogic>



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