Spotlight on: MySQL & Oracle Linux

What is MySQL?
MySQL is the world's most popular open source database. With its proven ease-of-use, performance, and scalability, MySQL has become the leading database choice for Web-based applications, used by high profile web properties including Facebook, Twitter, YouTube, Yahoo!, and many more.

MySQL Enterprise Edition includes the most comprehensive set of advanced features, management tools and technical support to achieve the highest levels of MySQL scalability, security, reliability, and uptime. It reduces the risk, cost, and complexity in developing, deploying, and managing business-critical MySQL applications.

What is Oracle Linux?
Oracle Linux delivers extreme performance, advanced scalability, and reliability for enterprise applications and systems along with worldwide, enterprise-class, low-cost support. Over 11,000 customers rely on Oracle Linux.

Available under the GNU General Public License and the only operating system to offer zero-downtime updates, Oracle Linux is optimized for Oracle hardware and software. It provides enterprises with the benefits of the latest Linux innovations including rigorous testing with real-world workloads.

Why Use MySQL Enterprise Edition with Oracle Linux?

“As a medium-sized company, we benefit greatly from the processing power and economies provided by MySQL and Oracle’s rigorous testing and range of experts when it comes to Oracle Linux. Oracle readily identifies bugs and provides fixes and patches ahead of the Red Hat distribution. With the combination of MySQL and Oracle Linux as the foundation, we can meet our business objectives and the certification and testing requirements of our enterprise customers with confidence.”

Bill Roth, Executive Vice President, LogLogic, Inc.
Using MySQL Enterprise Edition jointly with Oracle Linux provides the unique following benefits:

- **Tested and Recommended by Oracle**: Oracle’s product development teams use Oracle Linux, with the Unbreakable Enterprise Kernel, for building and testing Oracle products including Oracle Databases, Middleware and Applications. Oracle Linux undergoes massive testing cycles that involve hundreds of thousands of servers and over 120,000 hours of testing every day. This includes the routine testing of the full software stack, with the help of the Oracle Validated Configurations test suite, to ensure that the underlying operating system behaviour is correct in all circumstances. MySQL is extensively tested on Oracle Linux, making Oracle Linux the best option for enterprise deployments.

- **Oracle Linux Unbreakable Enterprise Kernel**: Fully open source (GPL) and designed to be fast, modern and reliable, it includes the latest innovations from mainline kernel community and Oracle engineers. Whether your workloads are running on physical or virtualized hardware, Oracle Linux will ensure maximum performance, reliability, security, and scalability for all your applications. Oracle Linux with the Unbreakable Enterprise Kernel delivers many key features and enhancements including the Oracle Cluster File System 2 (OCFS2), providing both performance and High Availability, and DTrace, a comprehensive dynamic tracing framework that was initially developed for the Oracle Solaris operating system.

- **Zero Downtime Kernel Updates with Ksplice**: Ksplice updates the Oracle Linux kernel while it is running – without requiring a reboot or interruption. Only Oracle Linux offers this unique capability, making it possible to keep up with important kernel updates without burdening you with the operational cost and disruption of rebooting for every update to the Linux kernel. This Technology is available to Oracle Linux Premier Support customers.

- **Single point of contact for technical support**: Using Oracle Linux and MySQL Enterprise Edition, you get a single point of contact, from infrastructure experts, for your most critical service and support issues. Additionally, Integration with the My Oracle Support Environment allows MySQL customers to benefit from Oracle’s world-class support infrastructure.

- **High Availability with DRBD**: DRBD (Distributed Replicated Block Device) is an open source Linux kernel module which leverages synchronous replication to deliver high availability database applications across local storage. Linux, DRBD, Corosync and Pacemaker, provide an integrated stack of mature and proven open source technologies. The complete DRBD stack for MySQL has been certified by Oracle, and commercial support is available as part of MySQL Enterprise Edition and Oracle Linux Premier Support, providing a single point of contact for the entire stack, whether issues relate to the operating system, DRBD, clustering software or MySQL.
• **Fully Integrated Virtualization**: Oracle Linux users can easily virtualize their applications by using Oracle VM server virtualization which is tested and integrated with Oracle Linux. Oracle VM incorporates an open source Xen hypervisor, which has been customized and optimized to support enterprise applications deployed on Oracle Linux.

• **Oracle VM Template for MySQL Enterprise Edition**: The Oracle VM Template for MySQL Enterprise Edition enables rapid deployment and eliminates manual configuration efforts and risks by providing a pre-installed and pre-configured virtualized MySQL Enterprise Edition software image running on Oracle Linux and Oracle VM, certified for production use.

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**Resources & Contacts**

White Paper: Performance Advantages of Running an Oracle® MySQL Replicated Database on Oracle Linux with Oracle’s Sun Flash Accelerator F80 PCIe Card


Demo: MySQL Enterprise Edition

https://www.youtube.com/watch?v=IYcsc9g2mdI

For more information about Oracle Linux, visit http://www.oracle.com/linux or call +1.800.ORACLE1 to speak to an Oracle representative.

For more information about MySQL, visit http://www.mysql.com or contact us at http://www.mysql.com/about/contact.

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**Hardware and Software, Engineered to Work Together**