

FAST, MODERN, AND RELIABLE

KEY FEATURES

- Free to download, use and distribute
- Updates (errata) are freely available
- Ksplice zero downtime kernel updates
- DTrace dynamic tracing framework
- System management and high availability tools included
- Optimized for enterprise and cloud implementations
- Tracks Linux mainline closely

KEY BENEFITS

- Extensively tested and fully certified
- Supported by wide range of ISVs and IHVs
- Easy to migrate from RHEL to Oracle Linux – no reinstall needed
- Extreme performance, especially for large systems
- Improved power management
- Improved application uptime
- Prevents silent data corruption

ORACLE LINUX

Oracle Linux brings the latest Linux innovations to market, delivering extreme performance, advanced scalability, and reliability for enterprise applications and systems along with worldwide, enterprise-class, low-cost support.

For more than a decade Oracle has been investing in enhancing, supporting and advancing Linux. Bringing the latest Linux innovations to market, Oracle Linux is the only operating system offering zero downtime updates with Ksplice and is optimized for extreme performance, scalability, and reliability required for demanding enterprise workloads.

The Best Enterprise Linux

Oracle Linux is an open-source operating system and comes with a choice of two kernels, the innovative Unbreakable Enterprise Kernel (which is installed and enabled by default) and a Red Hat Compatible Kernel. The Unbreakable Enterprise Kernel is fully open source (GPL) and is designed to be fast, modern, reliable, and 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 enterprise applications and systems.

Oracle Linux is fully compatible with Red Hat Enterprise Linux (RHEL), so applications written for RHEL run on Oracle Linux without requiring any modifications.

Free and Easy to Download, Install, and Use

Oracle Linux can be downloaded, used and distributed free of charge. Oracle provides access to the individual RPM packages including all security updates and bug fixes (errata) via public yum repositories, without requiring a support subscription. The source code of the Unbreakable Enterprise Kernel is also available via public git repositories, providing a detailed revision history (including patches and comments) of the operating system core.

Latest Innovations in Oracle Linux

Oracle Linux with the Unbreakable Enterprise Kernel delivers many key features and enhancements, including numerous performance improvements for large systems and for data center workloads.

ASMLib – ASMLib is a support library for the Automatic Storage Management feature of the Oracle Database, which simplifies database administration.

Btrfs file system – Btrfs provides a flexible way to manage storage, without needing a separate volume manager. It ensures data integrity via the built-in RAID support and checksums on data and meta-data.

XFS file system – Beginning with Oracle Linux 6.4, customers with Premier Support subscriptions will receive support for the XFS file system at no additional charge. XFS is a journaling file system known for extreme scalability with near native I/O performance.

Oracle Cluster File System 2 – OCFS2 is a general-purpose, extent-based clustered file system which Oracle developed and contributed to the Linux community. It provides an open source, enterprise-class alternative to proprietary cluster file systems, and provides both high performance and high availability.

Database Smart Flash Cache – This feature allows customers to increase the effective size of the Oracle database buffer cache without adding more main memory to the system.

Data Integrity – Oracle Linux supports the T10 Protection Information Model (*T10-PI*) to prevent silent data corruption

DTrace – DTrace is a comprehensive dynamic tracing framework that was initially developed for the Oracle Solaris operating system. DTrace provides a powerful infrastructure to permit administrators, developers, and service personnel to concisely answer arbitrary questions about the behavior of the operating system and user programs in real time.

Ksplice Zero Downtime Kernel Updates – Available to Oracle Linux Premier support customers, Ksplice technology 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.

Linux Containers (LXC) – Safely and securely run multiple applications or instances of an operating system on a single host without risking them interfering with each other. Containers are lightweight and resource-friendly, which saves both rack space and power. Using the Btrfs file system, taking snapshots or clones of Linux Containers can be performed with very little overhead.

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. The Dom0 of Oracle VM Server is specially built to handle enterprise-class workload requirements. It leverages Oracle Linux with the 64-bit Oracle Unbreakable Enterprise Kernel, and has been designed for tight security and scalability in a virtualized environment. In addition, Oracle Linux customers can use Oracle VM Templates to deploy Oracle solutions 7-10x faster in a virtual machine compared to other virtualization technologies, as described in the white paper, Oracle VM – Quantifying the Value of Application-Driven Virtualization:

<http://www.oracle.com/us/technologies/virtualization/oracle-vm-validation-report-1738491.pdf>

Committed to Working with the Linux Community

The Linux kernel team at Oracle works closely with the upstream maintainers and the Linux community. New feature developments and improvements are integrated in the upstream repositories from the start.

Comprehensive Management Software

The right to use Oracle Enterprise Manager 12c is included with every Oracle Linux support subscription at no additional cost. Oracle Enterprise Manager is a feature-rich systems and applications management suite, capable of managing thousands of servers from a central and easy to use web-based interface.

It supports features such as:

- Bare-metal provisioning of Oracle Linux servers
- Configuration management, data collection for analysis and auditing
- Lights-out or ad-hoc patching
- Availability and performance monitoring
- Event management and job systems

- Central package management/deployment via local yum repositories
- Grouping of servers, custom jobs, custom action/corrective action scripts

To ease migrations from existing infrastructures, Oracle Linux also includes and supports Spacewalk, the open source variant of Red Hat Satellite Server.

Enterprise High Availability

Included with Oracle Linux support subscriptions is Oracle Clusterware, an enterprise high availability software solution. Oracle Clusterware enables independent servers to operate together as a single system and provides high availability for both Oracle and 3rd party applications, and for all workloads. Features of Oracle Clusterware include:

- Robust policy engine
- Support for Active|Active or Active|Passive failovers
- Developed to support changing data center requirements with methods to simplify the addition of servers and storage as needed
- Support for rolling upgrades to meet strict application availability requirements

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 Middleware, Oracle Applications and Oracle Database. Oracle Linux also runs inside Oracle's Engineered Systems such as Oracle Exadata, Oracle Exalogic, Oracle Database Appliance, Oracle Big Data Appliance, and Oracle Database Backup Logging Recovery Appliance.

Oracle invests significantly in testing and releasing critical bug fixes faster, making Oracle Linux the best option for enterprise deployments. 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 behavior is correct in all circumstances. Oracle recommends the use of Oracle Linux, not just for all Linux-based Oracle deployments, but for any Linux-based workloads that can benefit from boosts in performance, reliability and scalability.

Broad Support from ISV and IHV Partners

Besides testing with Oracle products, Oracle also works closely with key vendors such as AMD, Brocade, Cisco, Dell, EMC, Emulex, Fujitsu, HP, IBM, Intel, Microsoft, NetApp, QLogic, SAP and many others, representing a wide range of ISV and IHV partners, ensuring fully tested and certified solutions for customers. For more information, refer to the resources below:

Oracle Validated configurations

<http://www.oracle.com/technetwork/topics/linux/validated-configurations-085828.html>

Oracle Linux and Oracle VM Hardware Certification List

<http://linux.oracle.com/hardware-certifications>

Oracle Linux ISV Partners

<http://www.oracle.com/technetwork/server-storage/linux/partners/index.html>

Flexible Support Options, Higher Value

Oracle is the only vendor in the industry that offers a complete Linux-based solution stack – applications, middleware, database, management tools, operating system, virtualization, and hardware. With Oracle as your Linux support provider, you have a single point of contact for all your support needs. Oracle delivers enterprise-class support for Oracle Linux and the

Unbreakable Enterprise Kernel including premier backports, indemnification, testing and more. Oracle supports Oracle Linux installations at significantly lower cost than competing vendors.

You are free to decide for which of your systems you want to obtain a support subscription, and at which level each of them should be supported. This makes Oracle Linux an ideal choice for both your development and production systems – **you** decide which support coverage is the best for each of your systems individually, while keeping all of them up-to-date and secure.

Migrating from Red Hat Enterprise Linux

Migrating an existing system from RHEL to Oracle Linux is simple – there is no need to re-install the operating system or any application. Oracle will take over support for your existing RHEL systems. Just follow the instructions outlined at <https://linux.oracle.com/switch.html>

Migrating from SUSE Linux

For those who are considering migrating from SUSE Linux to Oracle Linux, Oracle offers a support program and many resources to help with migration efforts. The SUSE Migration Program will provide basic support for your SUSE Linux environments while you plan, schedule and convert your systems to Oracle Linux. For more information, please visit the Migration Made Easy website:

<http://www.oracle.com/us/technologies/suse-to-oracle/index.html>

Resources

To get more information and to keep up with the latest updates, refer to these resources:

Oracle Linux on oracle.com

<http://www.oracle.com/linux>

Oracle Linux on the Oracle Technology Network

<http://otn.oracle.com/linux>

Oracle Linux Blog

<http://blogs.oracle.com/linux>

Oracle Linux Product Documentation Library

http://docs.oracle.com/cd/E37670_01/index.html

Oracle Linux on Facebook

<http://www.facebook.com/OracleLinux>

Oracle Linux on Twitter

http://www.twitter.com/ORCL_Linux

Oracle Linux on LinkedIn

http://www.linkedin.com/groups?gid=120238&trk=myg_ugrp_ovr

Contact Us

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



Oracle is committed to developing practices and products that help protect the environment

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