



OpenSolaris™ Operating System

Be brilliant faster

The open source community gives developers like you easy access to the latest technologies, enabling you to create new services quickly. But to leverage those technologies, you need a development environment that's stable, consistent, and easy to install and use.



Highlights

- Open source innovation with the assurance of proven, extensive testing processes and worldwide support
- Familiar environment to GNU/Linux and UNIX developers
- Easy to install and deploy
- Network repository system for greater control and flexibility
- OpenSolaris™ Image Packaging System: easy access control to applications; automatically addresses dependencies
- Supported on more than 1000 systems from a wide range of vendors, including Sun, HP, IBM, Dell, and Fujitsu

Based on Solaris™—an enterprise-class OS that's the result of a \$500 million research and development investment by Sun—the OpenSolaris OS offers free, built-in features that help you build, debug, and deploy new applications faster.

With new releases scheduled for every six months, the OpenSolaris OS delivers the latest open source technologies in a development and deployment environment that's familiar to GNU/Linux and UNIX® users. It also provides access to unique Solaris 10 OS features, such as Dynamic Tracing (DTrace), Solaris Containers, Predictive Self-Healing, and Solaris ZFS, plus the latest innovations from the OpenSolaris community.

Between releases, the OpenSolaris Image Packaging System provides necessary updates from a wide range of Sun and other repositories. Developers can distribute your applications through your own package repository, so you reach new markets quickly and offer updates easily.

Because the OpenSolaris OS is supported on more than 1000 platforms, it offers great advantages in terms of flexibility and scalability. Now you can take your ideas from experiment to global deployment without switching operating systems. And you can participate

in the OpenSolaris community, working with developers around the world who are contributing to the innovation, including thousands of Sun engineers.

By offering developers advanced Solaris technology, access to the latest innovations from the OpenSolaris community, innovations in packaging, and the assurance of Sun's proven, extensive testing processes and worldwide support, OpenSolaris makes it faster and easier than ever to produce optimized, high quality code.

Open source and Sun

As a worldwide leader in open source, Sun has had engineers participating in open source communities and listening to what customers want for years. In a report on Free/Libre Open Source Software (FLOSS) prepared for the European Commission in 2006, Sun was found to have contributed substantially more code to a Linux distribution than any other organization. Sun's overall contribution was greater than that of the next five contributors combined.

In addition to OpenSolaris, Sun contributes to a range of open source projects, including MySQL™, NetBeans™, GlassFish™, OpenOffice.org™, OpenJDK™, java.net, and many others. Developers and businesses can rely on Sun

for an end-to-end open source environment for development and deployment—all from a single, trusted vendor.

OpenSolaris OS release

Developers accustomed to other open source OS distributions will find OpenSolaris familiar and easy to install. Plus, the OpenSolaris OS is a stable, supported platform that combines proven Solaris technologies with new, advanced features.

The OpenSolaris OS is distributed as a much smaller install image than the Solaris 10 OS, and it's available on a single LiveCD that includes the core OS—the kernel, system libraries, and system utilities. And the LiveCD's localized, graphical installer makes the installation process familiar and intuitive. So with the OpenSolaris OS, you get the flexibility of a Linux-like distribution and the advanced features that make the Solaris OS unique.

The LiveCD also enables you to try the OS before installation, and to select, install, and upgrade additional components using the network-based OpenSolaris Image Packaging System. You can get it through the opensolaris.com Web site or peer-to-peer mechanisms such as BitTorrent.

Powerful features

The open source OpenSolaris OS contains many new features not available in even the most current Solaris 10 updates, including simplified installation; a familiar, easy-to-update environment; and built-in tools that make it easier to develop and deploy applications that run on a wide range of systems. The full upgrades planned for every six

months will include tools to enable seamless updates to the OS.

To make development more efficient and ensure faster, more consistent deployments, the OpenSolaris OS leverages key features of Solaris that aren't available in any other operating system, including:

- **Solaris ZFS.** With Solaris ZFS snapshots, you can test your ideas and then roll back to an earlier development point if a problem is discovered. (Solaris ZFS is the default file system for the OpenSolaris OS.)
- **DTrace.** DTrace provides pervasive observability to accelerate application development and optimization of Apache/MySQL/PHP (AMP) and MySQL/Apache/Ruby/Solaris (MARS) stacks
- **Solaris Containers.** Solaris Containers technology lets you simulate and debug distributed applications in multiple zones and test multiple application server versions in identical environments, ensuring that applications can be deployed on a wide range of systems from single CPU through multi-CPU multicore systems.
- **Predictive Self Healing.** This unique feature automatically diagnoses, isolates, and aids in recovery from hardware and application faults, enabling services to remain available in the face of catastrophic component, software, or configuration problems.

Support

Unlike other freely licensed operating systems, the Solaris support model doesn't force you to choose between free and supportable versions. Solaris and OpenSolaris OS releases

Learn More

To learn more about the OpenSolaris operating system, please visit opensolaris.com

To join the OpenSolaris community, please visit opensolaris.org.

You can download the OpenSolaris operating system at opensolaris.com/get

are both free to acquire, and optional support services are available for both—including robust developer support provided by a world-class organization that stands behind its open source products.

Sun offers two types of support for the OpenSolaris OS:

- **Essentials** has a 48-hour email response and provides the opportunity to report bugs and receive updates when available.
- **Production** provides 24x7 phone support; the opportunity to report bugs, receive updates when available, and access future premium network package repositories; and full escalation support.

Both levels of support have an 18-month lifecycle, so you can innovate with the assurance of industry-leading support through several scheduled upgrades of the OpenSolaris OS.

The OpenSolaris OS provides many third-party applications as part of the default installation, available on the network package repository. A full list of available software can be viewed at pkg.opensolaris.org.