

ORACLE SOLARIS 11 EXPRESS

KEY FEATURES AND BENEFITS

Innovation matters—increase business efficiency and lower costs.

BENEFITS

- **Enhanced Availability.** Greatly reduces planned downtime by eliminating traditional patching with dramatic reduction of maintenance-related reboots and time to reboot
- **Complete Built-in Virtualization.** Delivering fully virtualized networking features that provide the highest levels of performance with the lowest overhead, adding even more flexibility to Oracle Solaris Zones
- **Improved Data management.** New advanced storage features such as built-in deduplication, encryption, and thin provisioning, which enhance the industry-leading Oracle Solaris ZFS technology and deliver the best storage foundation for virtualized and cloud environments
- **Additional Security.** Provides advanced transparent security to users, applications, and devices while simplifying security with fine-grained delegated management, implementing the latest security standards and continuing Oracle Solaris' leadership position as a highly secure operating system

Oracle Solaris 11 Express builds on the proven technologies of Oracle Solaris 10, and is a fully-supported production release delivering immediate access to the latest advanced features of Oracle Solaris 11. Oracle Solaris 11 Express is supported on more than 1000 systems, including our latest engineered systems Oracle Exadata and Oracle Exalogic Elastic Cloud.

Deploy advanced technologies

Enterprises are under tremendous pressure to do more with less, roll out new business services faster, fit more servers into the same space, and comply with new regulations. Oracle 11 Express allows customer to take advantage of the latest Solaris features like network virtualization, data de-duplication and built in data encryption.

Improve IT Efficiency

The new availability features greatly reduce planned downtime by up to 50% while virtually eliminating traditional patching. Maintenance related reboots are greatly reduced and the new faster boot system can decrease system boot time to seconds.

Next generation virtualization

Delivers fully virtualized networking features, in addition to existing system and data virtualization features that provide the highest levels of performance with the lowest overhead, adding even more flexibility to Oracle Solaris Zones

Unified Software Administration

Simplifies the acquisition, installation, and maintenance of Oracle Solaris and additional Oracle, third-party, and in-house applications through a network-based package system that uses dependency-aware tools to update the software stack while virtually eliminating opportunities for errors during updates.

Secure Operation

The leading-edge security features in Oracle Solaris helps you reduce the risk of intrusions, secure your applications and data, assign the minimum set of privileges and roles needed by users and applications, and control access to data based on its sensitivity label.

Guaranteed Compatibility

Oracle Solaris 11 preserves guaranteed binary compatibility with over 11,000 third-party products and customer developed applications. Enhancing our built-in compatibility features, now with Oracle Solaris 10 Zones customers can quickly and easily move entire Solaris 10 environments into their own separate zone on Oracle Solaris 11.

Oracle Solaris Technologies

With Oracle Solaris 11 express you get access to the latest technologies, features below are key highlights that we have enhanced from existing Oracle Solaris features.

Oracle Solaris Zones

Oracle Solaris Zones is an OS-level virtualization technology built in to Oracle Solaris. Using flexible, software-defined boundaries to isolate software applications and services, this breakthrough approach allows multiple private execution environments to be created within a single instance of Oracle Solaris.

By dynamically controlling application and resource priorities, businesses can define and achieve predictable service levels. System administrators can easily meet changing requirements by quickly provisioning new Oracle Solaris Zones, or moving them from system to system or disk to disk within the same system as capacity or configuration needs change.

Oracle Solaris Zones are now fully integrated with the new virtualization, management efficiency, security and file system features of Oracle Solaris 11, making them ideal for rapid “thin” provisioning of new services within datacenter and cloud environments.

Image Packaging System (IPS)

New with Oracle Solaris 11 is the Image packaging system. IPS is the next-generation packaging system that provides safe system updates and upgrades. It has built in dependency checking to ensure that the correct versions of required software are installed on the system for a system that is more reliable and optimized.

Oracle Solaris ZFS

Oracle Solaris ZFS is designed from the ground up to deliver a general-purpose file system that spans from the desktop to the datacenter. Anyone who has ever lost important files, run out of space on a partition, spent weekends adding new storage to servers, tried to grow or shrink a file system, or experienced data corruption knows the limitations of traditional file systems and volume managers. Oracle Solaris ZFS addresses these challenges efficiently and with minimal manual intervention. Oracle Solaris 11 Express includes new advanced storage features such as built-in de-duplication, encryption, and thin provisioning that enhance our industry-leading Oracle Solaris ZFS technology and deliver the best storage foundation for virtualized and cloud environments.

Security

Oracle Solaris’ user management and process rights management and Oracle Solaris Zones together allow hundreds of applications and multiple customers to be hosted on the same system. Administrators can leverage features such as Secure by Default, Trusted Extensions, and the Service Management Facility to minimize and harden Oracle Solaris even more.

With Oracle Solaris, you can

- Verify your system’s integrity by using Oracle Solaris’ digitally signed binaries and file verification features
- Reduce risk by granting only the privileges needed for users and processes, with “root as a role” providing higher levels of security separation and auditing.
- Simplify administration and increase privacy and performance by using the standards-based key management and cryptographic frameworks in Oracle Solaris, automatically leveraging hardware cryptographic acceleration and Trusted Platform

Module support when present.

- Secure your system using dynamic service profiles, including a built-in, reduced-exposure network services profile
- Control access to data based on its sensitivity level by using the labeled security technology in Oracle Solaris with trusted extensions

Predictive self healing

Predictive self healing is an innovative Oracle Solaris feature that automatically diagnoses, isolates, and helps you recover from many hardware and application faults. As a result, business-critical applications and essential system services can continue uninterrupted in the event of software failures, major hardware component failures, and even software configuration problems.

- Oracle Solaris' fault management architecture continuously monitors data relating to hardware and software errors. Automatically and silently detecting and diagnosing the underlying problem, it can automatically take the faulty component offline on SPARC and x86 processor-based systems. Easy-to-understand diagnostic messages link to articles in Oracle's knowledge base to help clearly guide administrators through corrective tasks requiring human intervention.
- Oracle Solaris' service management facility creates a standardized control mechanism for application services by turning them into first-class objects that administrators can observe and manage in a uniform way. These services can automatically be restarted if they're accidentally terminated by an administrator, fail as the result of a software programming error, or are interrupted by an underlying hardware problem.

Oracle Solaris DTrace

System administrators, integrators, and developers can use the dynamic instrumentation and tracing capabilities in Oracle Solaris to see what's really going on in the system. DTrace can be safely used on production systems—without modifying applications. It is a powerful tool that gives a comprehensive view of the entire system, from kernel to application; and enhanced with popular providers such as Java. With DTrace, you can delve deeply into today's complex systems when troubleshooting systemic problems or diagnosing performance bottlenecks—in real time and on the fly. This level of insight reduces the time for diagnosing problems from days and weeks to minutes and hours, and ultimately reduces the time required to fix those problems.

Enterprise Support

Support for Oracle Solaris 11 Express is included in all currently available Oracle Solaris support offerings: these include Oracle Premier Support for systems, Oracle Premier support for operating systems, Oracle Solaris Premier Subscription for non-Oracle hardware.

Contact Us

For more information about Oracle Solaris, visit oracle.com/solaris or call +1.800.ORACLE1 to speak to an Oracle representative.

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