

Introduction to Oracle[®] Solaris 11.4 Administration

November 2020

This article outlines the features that are necessary to set up and manage your Oracle Solaris operating system (OS).

As a system administrator, you can create user accounts and configure the work environment of the user. You can also display system information, control system processes, and monitor system performance information. To manage system and application services, you can use the Oracle Solaris Service Management Facility (SMF).

You can use the Puppet software to perform system configuration tasks, software management tasks, and subsystem management tasks in Oracle Solaris. To manage printers and your printing environment, you can use the Common UNIX Printing System (CUPS). You can troubleshoot system issues on both SPARC and x86 platforms. You can also work with system locales, keyboards, fonts, and useful utilities related to internationalization. Each section in this article provides further information about these features.

Note - To install the Oracle Solaris 11.4 OS, see [Automatically Installing Oracle Solaris 11.4 Systems](#) or [Manually Installing an Oracle Solaris 11.4 System](#). To connect your system to the network, see [Planning for Network Deployment in Oracle Solaris 11.4](#).

Creating and Managing User Accounts

After you have installed the Oracle Solaris OS on your system and connected your installed system to the network, you can start setting up user accounts and user groups on your system. For reference, see [Managing User Accounts and User Environments in Oracle Solaris 11.4](#).

The guide describes concepts and procedures for creating and maintaining user accounts by using the following tools:

- Command line interfaces (CLIs) such as `useradd`, `usermod`, and other `user*` commands.
- Interactive tools such as the `useradm` command in interactive mode or the Oracle Solaris Account Management BUI.

Viewing and Managing System Information, Processes, Tasks, and Performance

Oracle Solaris provides tools for monitoring and controlling system processes and performance as well as other types of information about the system. These administration tools include the Oracle Solaris SMF, and other commands such as `vmstat`, `sar`, `crontab`, and `at`. They enable you to do the following:

- Manage processes
- Display statistics about system resources and performance
- Set up or schedule tasks
- Control and manage devices

For reference, see [Managing System Information, Processes, and Performance in Oracle Solaris 11.4](#).

Managing System Services

You manage services in the system through the Oracle Solaris SMF feature. SMF also defines actions that can be invoked on a service. For reference, see [Managing System Services in Oracle Solaris 11.4](#).

The guide explains concepts, capabilities, and components of the Oracle Solaris SMF. It also describes how to use the different commands of the feature, such as `svcadm` and `svccfg`. These commands enable you to display information about services, or to start and stop services.

Setting Up and Administering Printers

Oracle Solaris uses the Common UNIX Printing System (CUPS) as the default print service. If you are using the LP print service, transition to using CUPS for setting up and managing print queues, print requests, and the printing environment.

For information about CUPS concepts and how to use this print service, see [Configuring and Managing Printing in Oracle Solaris 11.4](#).

Using Puppet to Perform Configuration Management

Configure and administer system configurations by using a cross-platform software called Puppet. This tool enables you to manage subsystems in the Oracle Solaris OS and to automate common system configuration tasks for multiple nodes, including the following tasks:

- View and modify Puppet resources
- Define system configuration by writing Puppet site manifests, classes, and modules.
- Configure other OS components and features such as ZFS file systems, networking, naming services, packaging, and so on.

For main reference about Puppet infrastructure, including installing the Puppet package, see [Using Puppet to Perform Configuration Management in Oracle Solaris 11.4](#).

Managing and Troubleshooting a System Using Core Files and Crash Dump Information

Troubleshooting involves preparing to handle system problems such as system hangs, crashes, or failures to reboot. When a process terminates abnormally, a core file is generated which you can examine. You can customize the default processes that create crash dump files and core files. You can use various Oracle Solaris tools to investigate what has caused a specific problem. You can then make corrections to the system.

For a description of common system problems and ways to troubleshoot them, see [Troubleshooting System Administration Issues in Oracle Solaris 11.4](#).

Additional tools are available for troubleshooting. Oracle Solaris includes an architecture for building and deploying systems and services that are capable of predictive self-healing. The FMA receives data related to errors, automatically diagnoses the problems, and attempts to take faulty components offline. For information about fault management, see [Managing Faults, Defects, and Alerts in Oracle Solaris 11.4](#).

A separate guide exists for troubleshooting networking issues. See [Troubleshooting Network Administration Issues in Oracle Solaris 11.4](#).

Internationalization Features

Oracle Solaris 11.4 is an internationalized OS based on international standards.

To learn about the concepts of internationalization and localization as well as perform configuration tasks that involve languages and locales, see [International Language Environments Guide for Oracle Solaris 11.4](#).

Part No: E60995

Copyright © 2012, 2020, Oracle and/or its affiliates.

License Restrictions Warranty/Consequential Damages Disclaimer

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

Warranty Disclaimer

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

Restricted Rights Notice

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

Hazardous Applications Notice

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Trademark Notice

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epcy, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

Third-Party Content, Products, and Services Disclaimer

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Pre-General Availability Draft Label and Publication Date

Pre-General Availability: 2020-01-15

Pre-General Availability Draft Documentation Notice

If this document is in public or private pre-General Availability status:

This documentation is in pre-General Availability status and is intended for demonstration and preliminary use only. It may not be specific to the hardware on which you are using the software. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to this documentation and will not be responsible for any loss, costs, or damages incurred due to the use of this documentation.

Oracle Confidential Label

ORACLE CONFIDENTIAL. For authorized use only. Do not distribute to third parties.

Revenue Recognition Notice

If this document is in private pre-General Availability status:

The information contained in this document is for informational sharing purposes only and should be considered in your capacity as a customer advisory board member or pursuant to your pre-General Availability trial agreement only. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described in this document remains at the sole discretion of Oracle.

This document in any form, software or printed matter, contains proprietary information that is the exclusive property of Oracle. Your access to and use of this confidential material is subject to the terms and conditions of your Oracle Master Agreement, Oracle License and Services Agreement, Oracle PartnerNetwork Agreement, Oracle distribution agreement, or other license agreement which has been executed by you and Oracle and with which you agree to comply. This document and information contained herein may not be disclosed, copied, reproduced, or distributed to anyone outside Oracle without prior written consent of Oracle. This document is not part of your license agreement nor can it be incorporated into any contractual agreement with Oracle or its subsidiaries or affiliates.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Référence: E60995

Copyright © 2012, 2020, Oracle et/ou ses affiliés.

Restrictions de licence/Avis d'exclusion de responsabilité en cas de dommage indirect et/ou consécutif

Ce logiciel et la documentation qui l'accompagne sont protégés par les lois sur la propriété intellectuelle. Ils sont concédés sous licence et soumis à des restrictions d'utilisation et de divulgation. Sauf stipulation expresse de votre contrat de licence ou de la loi, vous ne pouvez pas copier, reproduire, traduire, diffuser, modifier, accorder de licence, transmettre, distribuer, exposer, exécuter, publier ou afficher le logiciel, même partiellement, sous quelque forme et par quelque procédé que ce soit. Par ailleurs, il est interdit de procéder à toute ingénierie inverse du logiciel, de le désassembler ou de le décompiler, excepté à des fins d'interopérabilité avec des logiciels tiers ou tel que prescrit par la loi.

Exonération de garantie

Les informations fournies dans ce document sont susceptibles de modification sans préavis. Par ailleurs, Oracle Corporation ne garantit pas qu'elles soient exemptes d'erreurs et vous invite, le cas échéant, à lui en faire part par écrit.

Avis sur la limitation des droits

Si ce logiciel, ou la documentation qui l'accompagne, est livré sous licence au Gouvernement des Etats-Unis, ou à quiconque qui aurait souscrit la licence de ce logiciel pour le compte du Gouvernement des Etats-Unis, la notice suivante s'applique :

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

Avis sur les applications dangereuses

Ce logiciel ou matériel a été développé pour un usage général dans le cadre d'applications de gestion des informations. Ce logiciel ou matériel n'est pas conçu ni n'est destiné à être utilisé dans des applications à risque, notamment dans des applications pouvant causer un risque de dommages corporels. Si vous utilisez ce logiciel ou matériel dans le cadre d'applications dangereuses, il est de votre responsabilité de prendre toutes les mesures de secours, de sauvegarde, de redondance et autres mesures nécessaires à son utilisation dans des conditions optimales de sécurité. Oracle Corporation et ses affiliés déclinent toute responsabilité quant aux dommages causés par l'utilisation de ce logiciel ou matériel pour des applications dangereuses.

Marques

Oracle et Java sont des marques déposées d'Oracle Corporation et/ou de ses affiliés. Tout autre nom mentionné peut correspondre à des marques appartenant à d'autres propriétaires qu'Oracle.

Intel et Intel Inside sont des marques ou des marques déposées d'Intel Corporation. Toutes les marques SPARC sont utilisées sous licence et sont des marques ou des marques déposées de SPARC International, Inc. AMD, Epyc, et le logo AMD sont des marques ou des marques déposées d'Advanced Micro Devices. UNIX est une marque déposée de The Open Group.

Avis d'exclusion de responsabilité concernant les services, produits et contenu tiers

Ce logiciel ou matériel et la documentation qui l'accompagne peuvent fournir des informations ou des liens donnant accès à des contenus, des produits et des services émanant de tiers. Oracle Corporation et ses affiliés déclinent toute responsabilité ou garantie expresse quant aux contenus, produits ou services émanant de tiers, sauf mention contraire stipulée dans un contrat entre vous et Oracle. En aucun cas, Oracle Corporation et ses affiliés ne sauraient être tenus pour responsables des pertes subies, des coûts occasionnés ou des dommages causés par l'accès à des contenus, produits ou services tiers, ou à leur utilisation, sauf mention contraire stipulée dans un contrat entre vous et Oracle.

Date de publication et mention de la version préliminaire de Disponibilité Générale ("Pre-GA")

Version préliminaire de Disponibilité Générale ("Pre-GA") : 15.01.2020

Avis sur la version préliminaire de Disponibilité Générale ("Pre-GA") de la documentation

Si ce document est fourni dans la Version préliminaire de Disponibilité Générale ("Pre-GA") à caractère public ou privé :

Cette documentation est fournie dans la Version préliminaire de Disponibilité Générale ("Pre-GA") et uniquement à des fins de démonstration et d'usage à titre préliminaire de la version finale. Celle-ci n'est pas toujours spécifique du matériel informatique sur lequel vous utilisez ce logiciel. Oracle Corporation et ses affiliés déclinent expressément toute responsabilité ou garantie expresse quant au contenu de cette documentation. Oracle Corporation et ses affiliés ne sauraient en aucun cas être tenus pour responsables des pertes subies, des coûts occasionnés ou des dommages causés par l'utilisation de cette documentation.

Mention sur les informations confidentielles Oracle

INFORMATIONS CONFIDENTIELLES ORACLE. Destinées uniquement à un usage autorisé. Ne pas distribuer à des tiers.

Avis sur la reconnaissance du revenu

Si ce document est fourni dans la Version préliminaire de Disponibilité Générale ("Pre-GA") à caractère privé :

Les informations contenues dans ce document sont fournies à titre informatif uniquement et doivent être prises en compte en votre qualité de membre du customer advisory board ou conformément à votre contrat d'essai de Version préliminaire de Disponibilité Générale ("Pre-GA") uniquement. Ce document ne constitue en aucun cas un engagement à fournir des composants, du code ou des fonctionnalités et ne doit pas être retenu comme base d'une quelconque décision d'achat. Le développement, la commercialisation et la mise à disposition des fonctions ou fonctionnalités décrites restent à la seule discrétion d'Oracle.

Ce document contient des informations qui sont la propriété exclusive d'Oracle, qu'il s'agisse de la version électronique ou imprimée. Votre accès à ce contenu confidentiel et son utilisation sont soumis aux termes de vos contrats, Contrat-Cadre Oracle (OMA), Contrat de Licence et de Services Oracle (OLSA), Contrat Réseau Partenaires Oracle (OPN), contrat de distribution Oracle ou de tout autre contrat de licence en vigueur que vous avez signé et que vous vous engagez à respecter. Ce document et son contenu ne peuvent en aucun cas être communiqués, copiés, reproduits ou distribués à une personne extérieure à Oracle sans le consentement écrit d'Oracle. Ce document ne fait pas partie de votre contrat de licence. Par ailleurs, il ne peut être intégré à aucun accord contractuel avec Oracle ou ses filiales ou ses affiliés.

Accessibilité de la documentation

Pour plus d'informations sur l'engagement d'Oracle pour l'accessibilité de la documentation, visitez le site Web Oracle Accessibility Program, à l'adresse : <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Accès aux services de support Oracle

Les clients Oracle qui ont souscrit un contrat de support ont accès au support électronique via My Oracle Support. Pour plus d'informations, visitez le site <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> ou le site <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> si vous êtes malentendant.