

# **Solaris ZFS Administration Guide**

# Oracle Solaris Zfs Administration Guide

**Janice Winsor**



## **Oracle Solaris Zfs Administration Guide:**

**Oracle Solaris 11 System Administration The Complete Reference** Michael Jang, Harry Foxwell, 2012-09-22 Take Full Advantage of the Oracle Solaris 11 Management Features Manage a highly scalable cloud based computing platform and deliver unmatched performance levels at every layer of your IT stack Oracle Solaris 11 System Administration The Complete Reference shows how to deploy Solaris from scratch Get up to date details on installation options device configuration virtualization techniques network security file encryption and Web services NFS Samba and Apache are fully covered in this Oracle Press guide Install Oracle Solaris 11 on x86 and SPARC machines Manage storage using the ZFS file system Define user roles and enforce strong access policies Create fully isolated zones and virtual system environments Configure print e mail DNS and DHCP services Share files and devices using NFS and Samba Set up Apache Web servers and deploy AMP applications [Oracle Solaris 11 Advanced Administration Cookbook](#) Alexandre Borges, 2014-10-10 If you are a Solaris administrator who wants to learn more about administering an Oracle Solaris system and want to go a level higher in utilizing the advanced features of Oracle Solaris then this book is for you A working knowledge of Solaris Administration is assumed [Oracle Solaris 11.2 System Administration Handbook \(Oracle Press\)](#) Harry Foxwell, Glynn Foster, 2015-10-23 This Oracle Press guide offers complete coverage of Oracle Solaris 11 2 installation configuration management security and tuning This handbook includes cutting edge information on Oracle Solaris 11 2 providing you the essential skills needed to successfully set up deploy and maintain a Solaris system Every aspect of Solaris system administration is explained in full detail including configuration networking performance security virtualization and cloud computing Oracle Solaris 11 System Administration Handbook features up to date details on new technologies such as OpenStack cloud support Unified Archives provisioning Kernel Zone virtualization and software defined networking You will learn the keys to optimizing Oracle Solaris 11 2 instances with the hands on technical instruction and shared best practices contained in this authoritative volume from Oracle Press Real world case studies provide detailed scenarios and ready to deploy solutions Tips and best practices for administration are included throughout Covers brand new configuration tools and techniques **DS8800 Performance Monitoring and Tuning** Gero Schmidt, Bertrand Dufrasne, Jana Jamsek, Peter Kimmel, Hiroaki Matsuno, Flavio Morais, Lindsay Oxenham, Antonio Rainero, Denis Senin, IBM Redbooks, 2012-09-14 This IBM Redbooks publication provides guidance about how to configure monitor and manage your IBM System Storage DS8800 and DS8700 storage systems to achieve optimum performance It describes the DS8800 and DS8700 performance features and characteristics including IBM System Storage Easy Tier and DS8000 I O Priority Manager It also describes how they can be used with the various server platforms that attach to the storage system Then in separate chapters we detail specific performance recommendations and discussions that apply for each server environment as well as for database and DS8000 Copy Services environments We also outline the various tools available for monitoring and measuring I O performance for different server environments as well as

describe how to monitor the performance of the entire DS8000 storage system This book is intended for individuals who want to maximize the performance of their DS8800 and DS8700 storage systems and investigate the planning and monitoring tools that are available The IBM System Storage DS8800 and DS8700 storage system features as described in this book are available for the DS8700 with Licensed Machine Code LMC level 6 6 2x xxx or higher and the DS8800 with Licensed Machine Code LMC level 7 6 2x xxx or higher For information about optimizing performance with the previous DS8000 models DS8100 and DS8300 see the following IBM Redbooks publication DS8000 Performance Monitoring and Tuning SG24 7146

Solaris ZFS Administration Guide Sun Microsystems,2008 This book is intended for anyone responsible for setting up and administering ZFS file systems Topics are described for both SPARC and x86 based systems where appropriate **OCA**  
**Oracle Solaris 11 System Administration Exam Guide (Exam 1Z0-821)** Michael Ernest,2013-05-07 Accompanying CD ROM includes MasterExam software and two practice exams with detailed answers and explanations and an electronic copy of the book in PDF format *Oracle® Solaris 11 System Administration* Bill Calkins,2013-06-21 Oracle Solaris 11 System Administration covers every skill required to effectively install and administer the Oracle Solaris 11 1 operating system in production environments It features dozens of step by step learn by example procedures demonstrating how to apply complex solutions in real world data center environments Author Bill Calkins has administered and taught Oracle Solaris and its predecessors for more than twenty years He also helped develop the newest Oracle Certified Associate OCA and Oracle Certified Professional OCP exams which raise the bar for Solaris certification This guide covers every new 1Z0 821 exam topic in detail and also covers many 1Z0 822 exam topics Calkins also reviews the changes that system administrators will face when upgrading to Solaris 11 1 and presents new ways to perform familiar tasks on both SPARC and x86 hardware You ll learn how to Install the Solaris 11 Operating Environment with Live Media or Text Interactive installers Install manage and update software with the Image Packaging System and IPS repositories Understand customize and troubleshoot SPARC and x86 boot processes from system power up to loading the OS including coverage of ILOM OpenBoot and GRUB 2 Administer and create services through the service management facility SMF Configure system messaging using SMF notifications syslog and rsyslog Configure and administer ZFS storage pools including ZFS on the boot drive local disks LUNs and a SAN Configure and manage ZFS file systems encryption redundancy snapshots clones network sharing monitoring device replacement and legacy UFS migration Create migrate contain and administer zones including solaris10 branded and immutable zones Use RBAC to create custom rights profiles and grant special privileges Manage and monitor system process scheduler including FSS process schedulers and proc tools Configure Solaris networking and network services including Reactive and Fixed Network Configurations VNICs and Virtual Networking A companion website [unixd.com/solaris11book.html](http://unixd.com/solaris11book.html) includes new 1Z0 821 and 1Z0 822 study strategies and self assessment exams *Systems Performance* Brendan Gregg,2020-12-09 Systems Performance Second Edition covers concepts strategy tools and tuning for operating systems and

applications using Linux based operating systems as the primary example A deep understanding of these tools and techniques is critical for developers today Implementing the strategies described in this thoroughly revised and updated edition can lead to a better end user experience and lower costs especially for cloud computing environments that charge by the OS instance Systems performance expert and best selling author Brendan Gregg summarizes relevant operating system hardware and application theory to quickly get professionals up to speed even if they have never analyzed performance before Gregg then provides in depth explanations of the latest tools and techniques including extended BPF and shows how to get the most out of cloud web and large scale enterprise systems Key topics covered include Hardware kernel and application internals and how they perform Methodologies for rapid performance analysis of complex systems Optimizing CPU memory file system disk and networking usage Sophisticated profiling and tracing with perf Ftrace and BPF BCC and bpftrace Performance challenges associated with cloud computing hypervisors Benchmarking more effectively Featuring up to date coverage of Linux operating systems and environments Systems Performance Second Edition also addresses issues that apply to any computer system The book will be a go to reference for many years to come and like the first edition required reading at leading tech companies Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

### **Oracle Solaris 10 System Virtualization Essentials**

Jeff Victor, Jeff Savit, Gary Combs, Simon Hayler, Bob Netherton, 2010-09-01 Virtualization and related technologies like hypervisors which create virtual machines on a single hardware machine and containers also known as zones which create virtual operating systems running on a single operating system are a totally new area for many system administrators Oracle Solaris™ 10 System Virtualization Essentials provides an accessible introduction to computer virtualization specifically the system virtualization technologies that use the Oracle Solaris or OpenSolaris operating systems This accessible guide covers the key concepts system administrators need to understand and explains how to Use Dynamic Domains to maximize workload isolation on Sun SPARC systems Use Oracle VM Server for SPARC to deploy different Oracle Solaris 10 and OpenSolaris environments on SPARC CMT chip multithreading systems Use Oracle VM Server for x86 or xVM hypervisor to deploy a server with heterogeneous operating systems Use Oracle VM VirtualBox to develop and test software in heterogeneous environments Use Oracle Solaris Containers to maximize efficiency and scalability of workloads Use Oracle Solaris Containers to migrate Solaris 8 and Solaris 9 workloads to new hardware systems Mix virtualization technologies to maximize workload density Starting with a discussion of system virtualization in general terms the needs of consolidation the benefits of virtualization and a description of the most common types of computer virtualization this book also covers many of the concepts features and methods shared by many implementations of system virtualization Oracle's computer virtualization technologies that are directly related to the Oracle Solaris OS are described in detail along with a discussion of the factors that should be considered when choosing a virtualization technology Finally several examples of these technologies and an

overview of virtualization management software are provided as well as a history of virtualization

**Oracle Solaris Cluster Essentials, Portable Docs** READ,2010-09-09 Thousands of IT organizations have adopted clustering to improve the availability of mission critical software services Today with the rapid growth of cloud computing environments clustering is even more crucial Now there s a comprehensive authoritative guide to the industry s most stable robust clustering platform the Oracle Solaris Cluster Oracle Solaris Cluster Essentials thoroughly covers both Oracle Solaris Cluster 3 2 and Oracle Solaris Cluster Geographic Edition offering start to finish lifecycle guidance for planning implementation management and troubleshooting Authored by Oracle Solaris Cluster expert Tim Read this book covers both high availability and disaster recovery features and offers detailed guidance for both Oracle and non Oracle database environments It also presents several example implementations that can be used to quickly construct effective proofs of concept Whether you re new to clustering or upgrading from older solutions this bookbrings together all the information you ll need to maximize the value reliability and performance of any Oracle Solaris Cluster environment You ll learn how to Understand Oracle Solaris Cluster s product features and architecture and their implications for design and performance Establish requirements and design clustered systems that reflect them Master best practices for integrating clustering with virtualization Implement proven disaster recovery planning techniques Efficiently maintain Oracle Solaris Cluster environments Part of the Solaris System Administration Series Oracle Solaris Cluster Essentials combines a complete technology introduction and hands on guide for every architect administrator and IT manager responsible for high availability and business continuity

**Active Directory com Samba 4 - Tópicos Avançados** Nivio Paula de Souza,2023-07-03 O Active Directory AD uma implementa o de servi o de diret rio desenvolvido pela Microsoft que utiliza o protocolo e o servi o LDAP para a troca de informa es e o armazenamento de objetos como usu rios grupos computadores controladores de dom nio etc No livro Active Directory com Samba 4 foi implementado um AD completamente funcional e neste livro as funcionalidades do AD ser o estendidas para ampliar suas aplica es O livro Active Directory com Samba 4 T picos Avan ados um guia que mostra passo a passo como implementar diversas funcionalidades avan adas em um AD que podem ser aplicadas no dia a dia das empresas O uso de tokens para autentica o dos usu rios em vez do uso de senhas a integra o de diversos servi os ao AD a sincroniza o do AD local com o Azure AD e a implementa o de servidores de arquivos altamente dispon veis expandem o alcance do sistema e aumentam sua seguran a e resili ncia para que o administrador tenha maior controle do AD com o aumento da disponibilidade e com a integra o a servi os e nuvem em controladores de dom nio servidores membro e outros dispositivos da rede Neste livro voc aprender a Configurar o AD para autentica o de usu rios por tokens Integrar outros servi os ao AD Implementar controladores de dom nio adicionais Implementar a automatiza o da replica o da pasta sysvol entre DC Implementar a replica o de DC em diferentes sites Implementar rela es de confian a entre dom nios Implementar alta disponibilidade em servidores de arquivos Migrar um AD de um servidor Windows Server 2022 para o Samba 4 Implementar

a sincroniza o do Samba AD com o Azure AD Implementar a segurança b sica do AD      **Solaris 10 ZFS Essentials** Scott Watanabe,2009-12-24 The ZFS file system offers a dramatic advance in data management with an innovative approach to data integrity tremendous performance improvements and a welcome integration of file system and volume management capabilities The centerpiece of this new architecture is the concept of a virtual storage pool which decouples the file system from physical storage in the same way that virtual memory abstracts the address space from physical memory allowing for much more efficient use of storage devices In ZFS space is shared dynamically between multiple file systems from a single storage pool and is parceled out from the pool as file systems request it Physical storage can therefore be added to storage pools dynamically without interrupting services This provides new levels of flexibility availability and performance Because ZFS is a 128 bit file system its theoretical limits are truly mind boggling 2128 bytes of storage and 264 for everything else including file systems snapshots directory entries devices and more Solaris™ 10 ZFS Essentials is the perfect guide for learning how to deploy and manage ZFS file systems If you are new to Solaris or are using ZFS for the first time you will find it very easy to get ZFS up and running on your home system or your business IT infrastructure by following the simple instructions in this book Then you too will understand all the benefits ZFS offers Rock solid data integrity No silent data corruption ever Mind boggling scalability Breathtaking speed Near zero administration Solaris™ 10 ZFS Essentials is part of the Solaris System Administration Series and is intended for use as a full introduction and hands on guide to Solaris ZFS

**Oracle Exalogic Elastic Cloud Handbook** Tom Plunkett,TJ Palazzolo,Tejas Joshi,2012-08-07 Achieve Extreme Application Performance for a Private Cloud with Oracle Exalogic Elastic Cloud Transition to a private cloud computing infrastructure and achieve unmatched levels of performance with help from this Oracle Press guide Oracle Exalogic Elastic Cloud Handbook shows you how to plan implement and maintain a private cloud Find out how to set up components deploy Java applications maximize redundancy and throughput and migrate legacy workloads Examples screenshots and diagrams are included throughout this comprehensive resource Configure Oracle Exalogic Elastic Cloud nodes and racks Optimize Java EE application performance on Oracle WebLogic Server Provision and administer a highly scalable private cloud Build debug and manage custom Java applications Secure monitor and tune using Oracle Enterprise Manager Leverage capabilities from Oracle Fusion Middleware Consolidate Oracle and third party application workloads      **Solaris 10 System Administration Essentials** Solaris System Engineers,2009-11-23 Solaris™ 10 System Administration Essentials is the first book to concisely yet comprehensively cover all of the breakthrough features of the Solaris 10 operating system The Solaris OS has a long history of innovation and the Solaris 10 OS is a watershed release that includes features such as Zones which provide application isolation and facilitate server consolidation ZFSTM the file system that provides a new approach to managing your data with an easy administration interface The Fault Management Architecture which automates fault detection and resolution The Service Management Facility a unified model for services and service management on every Solaris system

Dynamic Tracing DTrace for troubleshooting OS and application problems on production systems in real time In addition the Solaris 10 OS fully supports 32 bit and 64 bit x86 platforms as well as the SPARC architecture The book s key topics include Installing booting and shutting down a system Managing packages and patches software updates Controlling system processes Managing disks and devices Managing users Configuring networks Using printing services Solaris™ 10 System Administration Essentials is part of a new series on Solaris system administration It is a practical guide to deploying and managing the Solaris 10 operating system in a business or academic environment The book is easy to read and rich with examples a perfect companion for system administrators who are deploying the Solaris OS for the first time *Solaris™ 10 ZFS Essentials* Scott Watanabe,2009 The ZFS file system offers a dramatic advance in data management with an innovative approach to data integrity tremendous performance improvements and a welcome integration of file system and volume management capabilities The centerpiece of this new architecture is the concept of a virtual storage pool which decouples the file system from physical storage in the same way that virtual memory abstracts the address space from physical memory allowing for much more efficient use of storage devices In ZFS space is shared dynamically between multiple file systems from a single storage pool and is parceled out from the pool as file systems request it Physical storage can therefore be added to storage pools dynamically without interrupting services This provides new levels of flexibility availability and performance Because ZFS is a 128 bit file system its theoretical limits are truly mind boggling 2128 bytes of storage and 264 for everything else including file systems snapshots directory entries devices and more Solaris™ 10 ZFS Essentials is the perfect guide for learning how to deploy and manage ZFS file systems If you are new to Solaris or are using ZFS for the first time you will find it very easy to get ZFS up and running on your home system or your business IT infrastructure by following the simple instructions in this book Then you too will understand all the benefits ZFS offers Rock solid data integrity No silent data corruption ever Mind boggling scalability Breathtaking speed Near zero administration Solaris™ 10 ZFS Essentials is part of the Solaris System Administration Series and is intended for use as a full introduction and hands on guide to Solaris ZFS **OCA Oracle Solaris 11 System Administration Exam Guide** Michael Ernest,2013 A complete study system for OCA Exam 1Z0 821 Prepare for the Oracle Certified Associate Oracle Solaris 11 system administration exam In each chapter you ll find challenging practice questions a two minute drill and a chapter summary to highlight what you ve learned P 4 of cover **OCA Oracle Solaris 11 System Administration Exam Guide** ,2013 *OCP Oracle Solaris 11 Advanced System Administration Exam Guide (Exam 1Z0-822)* Michael Ernest,2016-02-05 Written by an Oracle Solaris training expert this is the only Oracle Press exam guide for the Oracle Certified Professional Oracle Solaris 11 Advanced System Administration exam OCP Oracle Solaris 11 Advanced System Administration Exam Guide Exam 1Z0 822 offers 100% coverage of the Oracle Solaris 11 Advanced System Administration exam objectives woven into an integrated self study system The book features Exam Tips that highlight key information and potential exam pitfalls as well as hands on examples

that reinforce practical learning for real world practice End of chapter self tests feature multiple choice questions accompanied by in depth answer explanations This Oracle Press guide also serves as an on the job reference for Oracle Solaris system administrators after the exam Electronic content includes two practice exams that match the actual exam in content format and difficulty Michael Ernest he has been teaching courses on Oracle Solaris for the last fifteen years Perfect companion to OCA Oracle Solaris 11 System Administration Exam Guide Exam 1Z0 821 Electronic content features two practice exams in the LearnKey MasterExam test engine as well as a PDF eBook LearnKey MasterExam test engine features open and closed book exams a timed live exam and scoring and review modes All practice exam answer options correct and incorrect are accompanied by detailed explanations

**Advanced Oracle Solaris 11 System Administration** Bill Calkins, 2012-08-24 Oracle Solaris 11 enterprise sysadmins master the advanced techniques you need to manage the increased complexity of today's highly integrated often heterogeneous systems and to drive maximum performance manageability and value from your Solaris and enterprise technology investments In Oracle Solaris 11 Advanced System Administration long time Oracle Solaris expert Bill Calkins systematically addresses every advanced topic on the latest Solaris sysadmin exam showing how to apply this knowledge on both SPARC and x86 hardware in today's fast changing data center environments Calkins guides you through managing Solaris 11 network environments setting up RAID metadevices with SVM configuring ZFS storage pools and file systems configuring and administering Solaris zones and containers administering VFS and swap space creating and managing user and Role Based Access Accounts RBAC installing cloning and upgrading the operating system and much more For Oracle Solaris professionals preparing to certify or upgrade their certifications Calkins provides these and other valuable study tools chapter opening quick references chapter summaries lists of key terms exercises review questions with detailed answers notes cautions exam alerts and a complete sample exam Calkins offers even more study resources at his popular website [unixed.com](http://unixed.com)

[Solaris Operating Environment System Administrator's Guide](#) Janice Winsor, 2003 Solaris Operating Environment System Administrator's Guide Fourth Edition by Janice Winsor The definitive quick answer resource for every Solaris 9 sysadmin Fully updated Covers Solaris 9 new Flash Install and Live Upgrade installation features Secure Shell network commands and much more Administering users devices systems networks and printing Maximizing efficiency productivity and system availability Fast solutions for every Solaris 9 system administration challenge direct from Sun Solaris Operating Environment System Administrator's Guide Fourth Edition is the definitive quick start tutorial for every new Solaris system administrator and the ideal fast access reference for every Solaris administrator regardless of experience Fully updated to reflect Solaris 9's newest features and management tools it covers day to day administration tools and demonstrates how to maximize efficiency reliability and availability in any Solaris environment Coverage includes all this and much more NEW Secure Shell network commands NEW Flash Install and Live Upgrade installation features NEW Allocate deallocate list devices commands `cd` `rw` `rm` `format` `ssh` commands and more Basic

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