Oracle Cluster File System (OCFS2) User's Guide

1. Introduction

A Cluster File System allows all nodes in a cluster to concurrently access a device via the standard file system interface. This allows for easy management of applications that need to run across a cluster.

OCFS (Release 1) was released in December 2002 to enable Oracle Real Application Cluster (RAC) users to run the clustered database without having to deal with RAW devices. The file system was designed to store database related files, such as data files, control files, redo logs, archive logs, etc.

OCFS2 is the next generation of the Oracle Cluster File System. It has been designed to be a general-purpose cluster file system. With it, one can store not only database related files on a shared disk, but also store Oracle binaries and configuration files (shared Oracle home) making management of RAC even easier.

2. Installation

The OCFS2 distributions comprises of two sets of packages. Namely, the kernel module and the tools.

The kernel module is available for download from http://oss.oracle.com/projects/ocfs2/files/ and the tools from http://oss.oracle.com/projects/ocfs2-tools/files/.

Download the appropriate packages. For the kernel module, download the one that matches the distribution, platform, kernel version and the kernel flavor (smp, hugemem, psmp, etc). For tools, simply match the platform and distribution.

The tools packages are split into two. *ocfs2-tools* includes the command line tools, whereas, *ocfs2console* includes the GUI front–end for the tools. One does not have to install the console, though it is recommended for ease–of–use.

Ocfs2 Users Guide

Julian Dyke,Steve Shaw,Martin Bach

Ocfs2 Users Guide:

Achieving High Availability on Linux for System z with Linux-HA Release 2 Lydia Parziale,Antonio Dias,Livio Teixeira Filho,Dulce Smith,Jin VanStee,Mark Ver,IBM Redbooks,2009-04-13 As Linux on System z becomes more prevalent and mainstream in the industry the need for it to deliver higher levels of availability is increasing IBM supports the High Availability Linux Linux HA project which provides high availability functions to the open source community One component of the Linux HA project is the Heartbeat program which runs on every known Linux platform Heartbeat is part of the framework of the Linux HA project This IBM Redbooks publication provides information to help you evaluate and implement Linux HA release 2 by using Heartbeat 2 0 on the IBM System z platform with either SUSE Linux Enterprise Server version 10 or Red Hat Enterprise Linux 5 To begin we review the fundamentals of high availability concepts and terminology Then we discuss the Heartbeat 2 0 architecture and its components We examine some of the special considerations when using Heartbeat 2 0 on Linux on System z particularly Linux on z VM with logical partitions LPARs interguest communication by using HiperSocketsTM and Shoot The Other Node In The Head STONITH by using VSMSERVE for Simple Network IPL snIPL By reading this book you can examine our environment as we outline our installation and setup processes and configuration We demonstrate an active and passive single resource scenario and a quorum scenario by using a single resource with three guests in the cluster Finally we demonstrate and describe sample usage scenarios **Experiences with Oracle® 10gR2 Solutions on Linux for IBM System z** Lydia Parziale,Kathryn Arrell,Dennis Dutcavich,Terry Elliott,Bruce Frank,Erik Kane,IBM Redbooks,2007-02-16 This IBM Redbooks publication describes experiences gained while installing and testing several Oracle solutions such as Single Instance of Oracle Database 10gR2 Including sharing ORACLE_HOME and Cloning Oracle databases RAC Instance of Oracle Database 10gR2 using raw devices block devices or OCFS2 files Oracle E Business Suite 11 5 10 2 with a split configuration database on Linux on System z Oracle AS10g Interested readers include database consultants installers administrators and system programmers This book is not meant to replace Oracle documentation it documents our experiences installing Oracle products User Mode Linux Jeff Dike,2006 With User Mode Linux you can create virtual Linux machines within a Linux computer and use them to test and debug applications network services and even kernels This work covers almost everything from getting started through running enterprise class User Mode Linux servers It offers advice on bootup compilation administration and more **The Definitive Guide to SUSE Linux Enterprise Server 12** Sander van Vugt,2014-11-14 The Definitive Guide to SUSE Linux Enterprise Server 12 is a task oriented book designed for self study as well as classroom environments which will also serve you as a reference guide The book covers all skills that system administrators typically need to posses to administer SUSE Linux Enterprise Server in corporate environments It starts at the beginning which makes The Definitive Guide to SUSE Linux Enterprise Server 12 suitable for people without any preliminary Linux knowledge and yet works up to advanced SUSE Linux administration tasks

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virtualization concepts practical instructions examples and best practices Find out how to design Oracle VM server farms build and deploy virtual machines handle provisioning and cloning and work with Oracle VM Manager Monitoring tuning and security techniques are also covered in this comprehensive volume Install configure and manage all Oracle VM components Plan size and set up Oracle VM server farms and server pools Control resources from Oracle Enterprise Manager Grid Control Oracle VM Manager and Oracle VM Command Line Interface Govern network drives and virtual storage using Oracle VM tools Create virtual machines manually or from Oracle library templates Convert existing virtual machines on other systems to Oracle VM virtual machines Generate virtual machine clones that run on multiple server pools Maintain guest operating systems and software using Oracle Enterprise Manager Grid Control s Oracle VM Management Pack *Ubuntu 24.04 LTS Server* Richard Petersen,2025-03-07 This book is designed as an Ubuntu 24 04 LTS Server administration and reference source covering the Ubuntu servers and their support applications Server tools are covered as well as the underlying configuration files and system implementations The emphasis is on what administrators will need to know to perform key server support and management tasks Coverage of the systemd service management system is integrated into the book Topics covered include software management systemd service management systemd networkd Netplan network configuration and Ubuntu cloud services Key servers are examined including Web FTP CUPS printing NFS and Samba Windows shares Network support servers and applications covered include the Squid proxy server the Domain Name System BIND server DHCP distributed network file systems nftables firewalls and cloud computing The book is organized into five parts getting started services shared resources network support and shells Part 1 focuses on basic tasks such as installing the Ubuntu Live Server configuring networking with Netplan systemd networkd and NetworkManager managing software from the Ubuntu Snap and APT repositories and basic usage for the desktop and the command line interfaces Part 2 examines Internet servers as well as how services are managed by systemd using unit files Configuration and implementation of the Postfix mail server the vsftpd FTP server the Apache Web server as well as news and database servers are covered in detail Part 3 deals with servers that provide shared resources on a local network or the Internet Services examined include the CUPS printing server NFS Linux network file server and Samba Windows file and printing server clustering and cloud computing services supported by Ubuntu Part 4 covers servers that provide network support like the Squid proxy server the Bind Domain Name System DNS server DHCP servers and the nftables firewall along with the configuration firewall tools FirewallD and UFW IPtables is included for reference Key networking operations are also examined like IPv6 auto configuration TPC IP networking and network monitoring tools Part 5 provides a review of shell commands including those used for managing files as well as shell scripts variables and configuration files Be advised that for the servers there are very few changes from Ubuntu 22 04 but many changes for the desktop **Expert Oracle Enterprise Manager 12c** Kellyn Pot'Vin,Niall Litchfield,Alex Gorbachev,Anand Akela,Pete Sharman,Gokhan Atil,Leighton Nelson,Bobby Curtis,2013-08-13

Enterprise Manager 12c EM12c Oracle s newest and fully integrated enterprise management product now provides a complete cloud lifecycle management solution and enterprise environment management interface Expert Oracle Enterprise Manager 12c opens up the secrets of this incredible management tool saving you time while enhancing your visibility as someone management can rely upon to deliver reliable database service in today s increasingly chaotic and change driven IT environment Expert Oracle Enterprise Manager 12c covers all the topics you demand and need to function effectively from basic monitoring and configuration to advanced metric extensions and plugins Real life scenarios and demonstrations place you in the comfort zone of using the EM12c console and the experienced author team provides deep understanding of the inner workings of this new Enterprise Manager Database administrators and system administrators are expected to offer increasing levels of service for 24X7 systems and newer cloud environments Em12c offers robust end to end intelligent management of the complete environment It includes direct real time integration with Oracle s online knowledgebase Expert Oracle Enterprise Manager 12c helps you master this important tool and manage any challenge that comes your way Provides example solutions to everyday problems through EM12c features Explains the changes in EM12c included trusted extensions Focuses on advanced aspects of the EM12c interface **Oracle VM 3 Cloud Implementation and Administration Guide, Second Edition** Edward Whalen,Erik Benner,Nic Ventura,2017-09-22 Master Cloud building with Oracle VM 3 installation configuration and maintenance Set up configure and manage a dynamic virtualization platform across your enterprise using the detailed information contained in this Oracle Press guide The book shows step by step how to size servers for Oracle VM choose and deploy virtualization hardware and manage the environment as the foundation for a private cloud infrastructure Real world examples and valuable best practices are featured throughout Oracle VM 3 Cloud Implementation and Administration Guide lays out key virtualization concepts and clearly explains every aspect of Oracle VM architecture From there you will learn how design server farms build and maintain virtual machines handle provisioning and cloning work with Oracle VM Manager and incorporate solid security procedures Advanced topics such as Disaster Recovery design and implementation Cloud management with Oracle Enterprise Manager Cloud Control and advanced storage and network integration aspects are fully covered Features tips techniques and tools for optimizing Oracle products on Oracle VM Contains expert hands on advice on tackling the most common challenges Written by a team of Oracle professionals with extensive VM experience Linux Recipes for Oracle DBAs Darl Kuhn,Bernard Lopuz,Charles Kim,2008-11-21 Linux Recipes for Oracle DBAs is an example based book on managing Oracle Database in a Linux environment Covering commonly used distributions such as Red Hat Enterprise Linux and Oracle Enterprise Linux the book is written for database administrators who need to get work done and lack the luxury of curling up fireside with a stack of Linux documentation The book is task oriented Look up the task to perform See the solution Read up on the details Get the job done Takes you directly from problem to solution Covers the right mix of Linux user and administration tasks for database administrators Respects

your time by being succinct and to the point What you ll learn Execute Linux commands applicable to Oracle Database administration Write shell scripts to automate critical DBA tasks Monitor tune and optimize a Linux server to run Oracle Database Perform Linux system administration tasks relevant to Oracle Database Implement Oracle real application clusters on Linux Implement Oracle automatic storage management on Linux Remotely and securely manage Oracle on Linux Who this book is for Linux Recipes for Oracle DBAs is a book for Oracle database administrators who want to expertly operate Oracle databases on the Linux operating system If you re new to Linux or are migrating from a Unix platform or just want detailed solutions for tasks that Oracle DBAs perform on Linux servers this book is for you   **Pro Oracle Database 11g RAC on Linux** Julian Dyke,Steve Shaw,Martin Bach,2011-01-11 Pro Oracle Database 11g RAC on Linux provides full life cycle guidance on implementing Oracle Real Application Clusters in a Linux environment Real Application Clusters commonly abbreviated as RAC is Oracle s industry leading architecture for scalable and fault tolerant databases RAC allows you to scale up and down by simply adding and subtracting inexpensive Linux servers Redundancy provided by those multiple inexpensive servers is the basis for the failover and other fault tolerance features that RAC provides Written by authors well known for their talent with RAC Pro Oracle Database 11g RAC on Linux gives you a rock solid and technically flawless foundation on which to build your RAC management skills Authors Julian Dyke and Steve Shaw share their hard won experience in building RAC clusters showing you how to build for success using the very latest Oracle technologies such as Automatic Storage Management ASM and Oracle Clusterware You ll learn to troubleshoot performance and other problems You ll even learn how to correctly deploy RAC in a virtual machine environment based upon Oracle VM which is the only virtualization solution supported by Oracle Corporation RAC is a complex and powerful technology It demands expertise in its deployment You can t just wing it in creating a RAC solution Julian and Steve have earned the right to term themselves expert in Pro Oracle Database 11g RAC on Linux they offer a rigorous and technically correct treatment of RAC that helps you build a solid foundation of expertise and achieve success Rigorous and technically accurate content Complete coverage of RAC from planning to implementation to rollout to ongoing maintenance and troubleshooting Up to date with the very latest RAC features   **Clusterbau: Hochverfügbarkeit mit pacemaker, OpenAIS, heartbeat und LVS** Michael Schwartzkopff,2010   *Running Xen* Jeanna N. Matthews,Eli Dow,Todd Deshane,Wenjin Hu,Jeremy Bongio,Patrick F. Wilbur,Brendan Johnson,2008-04-06 This accessible and immediately useful book expertly provides the Xen community with everything it needs to know to download build deploy and manage Xen implementations Ian Pratt Xen Project Leader VP Advanced Technology Citrix Systems The Real World 100% Practical Guide to Xen Virtualization in Production Environments Using free open source Xen virtualization software you can save money gain new flexibility improve utilization and simplify everything from disaster recovery to software testing Running Xen brings together all the knowledge you need to create and manage high performance Xen virtual machines in any environment Drawing on the unparalleled experience of a world class

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