## 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 <a href="http://oss.oracle.com/projects/ocfs2/files/">http://oss.oracle.com/projects/ocfs2/files/</a> and the tools from <a href="http://oss.oracle.com/projects/ocfs2-tools/files/">http://oss.oracle.com/projects/ocfs2-tools/files/</a>.

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**

Sander van Vugt

#### 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 Van Stee, 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 quests 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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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

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administration sharing field tested insights best practices and case studies you can find nowhere else The authors begin with a primer on virtualization its concepts uses and advantages Next they tour Xen's capabilities explore the Xen LiveCD introduce the Xen hypervisor and walk you through configuring your own hard disk based Xen installation After you re running they guide you through each leading method for creating guests and migrating existing systems to run as Xen guests Then they offer comprehensive coverage of managing and securing Xen guests devices networks and distributed resources Whether you re an administrator data center manager developer system integrator or ISP Running Xen will help you achieve your goals with Xen reliably efficiently with outstanding performance and at a surprisingly low cost Understanding the Xen hypervisor what it does and how it works Using pre built system images including compressed file systems Managing domains with the xm console Populating and storing guest images Planning designing and configuring networks in Xen Utilizing Xen security special purpose VMs virtual network segments remote access firewalls network monitors sHype access control Xen Security Modules XSM and more Managing quest resources memory CPU and I O Employing Xen in the PRO\*C User's Guide. Version 1.1 Oracle Corporation, D. Neville, P. Clare, K. enterprise tools products and techniques Jacobs, 1987 Run Form and Run Menu for Windows Installation and Users Guide ,1991 OSF/Motif User's Guide OSF/Motif User's Guide Open Software Foundation,1990 M CREATED ,1991 Osf/Motif 2.0 User's Guide Open Software Foundation, 1994 Osborne CP/M® User Guide Thom Hogan, 1982

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