

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

Jeff Dike



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 HiperSockets™ and Shoot The Other Node In The Head STONITH by using VSMSEVER 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 possess 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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Jeffries,2015-07-27 GoldenGate exchanges data among systems in a timely manner and meets the demand for real time access to information regardless of volume The new release 12c includes an optimized database intelligent and integrated delivery capabilities expanded heterogeneity and tighter security Perform zero downtime data migration to on premise or public cloud with GoldenGate s feature rich portfolio Start with the installation and learn the design concepts and enhanced configuration of GoldenGate 12c Exploit new 12c features to successfully implement GoldenGate on your enterprise Dive deep into configuring GoldenGate for high availability DDL support and reverse processing Build fast secure robust scalable technical solutions by tuning data delivery and networks Finally enrich your data replication knowledge by learning the troubleshooting tips *Practical Guide to XEN High Availability* Sander van Vugt,2010-03-08 If you need an affordable and stable solution to offer high availability for virtual machines this book is written for you With this book you will learn how to build an HA solution with open source software The solutions described in this book can help our organization save thousands of dollars on data center virtualization You will learn how to create virtual machines using Xen and how to make them highly available using Pacemaker software As a bonus you will also read how to implement a cheap SAN solution using open source software This book is written for anyone who wants to create an affordable and stable solution for high availability of Xen virtual machines To get the most out of this book the reader should have a good working knowledge of Linux The book uses SUSE Linux Enterprise as the example distribution The configuration is also applicable to other distributions 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

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