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Linux Cluster Architecture

Sun Solaris to IBM AIX 5L Migration: A Guide for System Administrators

High Availability MySQL Cookbook

Linux High Availability Complete Video Course

Pro SQL Server on Linux

Pro Oracle Database 11g RAC on Linux

A Real-World Guide to Effective VMware Use

End-to-End High Availability Solution for System z from a Linux Perspective

High Performance Drupal

High Performance Linux Clusters with OSCAR, Rocks, OpenMosix, and MPI

CentOS High Availability

VMware Cookbook

SAP HANA on IBM Power Systems: High Availability and Disaster Recovery Implementation Updates

Linux High Availability

Achieving High Availability on Linux for System z with Linux-HA Release 2

Pro Linux High Availability Clustering

Professional Red Hat Enterprise Linux 3

Including Container-Based Deployment with Docker and Kubernetes

Asterisk 1.4 - the Professional's Guide

Hadoop Operations

BUCKLEY KIMBERLY

InfoWorld Packt Publishing Ltd

Asterisk is the leading Open Source Telephony application and PBX software solution. It represents an effective, easy-to-administer, and accessible platform for running enterprise telephony requirements. The real world, however, offers numerous hurdles when running Asterisk in the commercial environment including call routing, resilience, or integrating Asterisk with other systems. This book will show you some of the ways to overcome these problems. As the follow-up to Packt's highly successful 2005 title Building Telephony Systems with Asterisk, this book presents the collected wisdom of Asterisk Professionals in the commercial environment. Aimed at Administrators and Asterisk Consultants who are comfortable with the basics of Asterisk operation and installation, this book covers numerous hands-on topics such as Call Routing, Network Considerations, Scalability, and Resilience _ all the while providing practical solutions and suggestions. It also covers more business-related areas like Billing Solutions and a Winning Sales Technique. Even if your interest or experience with Asterisk is lower level, this book will provide a deeper understanding of how Asterisk operates in the real world. Asterisk is deployed across countless enterprises globally. Running on Linux, it has constantly demonstrated its resilience, stability, and scalability and is now the advanced communication solution of choice to many organizations and consultants. With a foreword from Mark Spencer, the man behind Asterisk, this book presents the accumulated wisdom of three leading Asterisk Consultants and shows the reader how to get the most out of Asterisk in the commercial environment. Over the course of eleven chapters, this book introduces the reader to topics as diverse as Advanced Dial Plans, Network Considerations, and Call Routing, through to Localization, DAHDI, Speech Technology, and Working with a GUI. The book also covers the more nebulous aspects of being an Asterisk professional such as evaluating customer requirements and pitching for contracts. This book represents the wisdom and

thoughts of front line consultants. The knowledge they impart will prove informative, thought provoking and be of lasting interest to Asterisk professionals.

Pro Ubuntu Server Administration Sams Publishing

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. This IBM Redbooks publication starts with an explanation of high availability (HA) fundamentals such as HA concepts and terminology. It continues with a discussion of why a business needs to consider an HA solution and then explains how to determine your business single points of failure. We outline the components of a high availability solution and describe these components. Then we provide some architectural scenarios and demonstrate how to plan and decide an implementation of an end-to-end HA solution, from Linux on System z database scenarios to z/OS, and include storage, network, z/VM, Linux, and middleware. This implementation includes the IBM Tivoli System Automation for Multiplatforms (TSA MP), which monitors and automates applications distributed across Linux, AIX®, and z/OS® operating systems, as well as a GDPS based solution. It includes the planning for an end-to-end scenario, considering Linux on System z, z/VM, and z/OS operating environments, and the middleware used. The TSA MP implements HA for infrastructure, network, operating systems, and applications across multiple platforms and is compared to a Linux HA implementation based on open source Linux-HA, which is Linux only.

Real World Skills for Red Hat Administrators "O'Reilly Media, Inc."

Over 60 simple but incredibly effective recipes focusing on different methods of achieving high availability for MySQL database.

Beowulf Cluster Computing with Linux "O'Reilly Media, Inc."

Pro Linux High Availability Clustering teaches you how to implement this fundamental Linux add-on into your business. Linux High Availability Clustering is needed to ensure the availability of mission critical resources. The technique is applied more and more in corporate datacenters around the world. While lots of documentation about the subject is available on the

internet, it isn't always easy to build a real solution based on that scattered information, which is often oriented towards specific tasks only. Pro Linux High Availability Clustering explains essential high-availability clustering components on all Linux platforms, giving you the insight to build solutions for any specific case needed. In this book four common cases will be explained: Configuring Apache for high availability Creating an Open Source SAN based on DRBD, iSCSI and HA clustering Setting up a load-balanced web server cluster with a back-end, highly-available database Setting up a KVM virtualization platform with high-availability protection for a virtual machine. With the knowledge you'll gain from these real-world applications, you'll be able to efficiently apply Linux HA to your work situation with confidence. Author Sander Van Vugt teaches Linux high-availability clustering on training courses, uses it in his everyday work, and now brings this knowledge to you in one place, with clear examples and cases. Make the best start with HA clustering with Pro Linux High Availability Clustering at your side.

The Linux Enterprise Cluster "O'Reilly Media, Inc."

To the outside world, a "supercomputer" appears to be a single system. In fact, it's a cluster of computers that share a local area network and have the ability to work together on a single problem as a team. Many businesses used to consider supercomputing beyond the reach of their budgets, but new Linux applications have made high-performance clusters more affordable than ever. These days, the promise of low-cost supercomputing is one of the main reasons many businesses choose Linux over other operating systems. This new guide covers everything a newcomer to clustering will need to plan, build, and deploy a high-performance Linux cluster. The book focuses on clustering for high-performance computation, although much of its information also applies to clustering for high-availability (failover and disaster recovery). The book discusses the key tools you'll need to get started, including good practices to use while exploring the tools and growing a system. You'll learn about planning, hardware choices, bulk installation of Linux on multiple systems, and other basic considerations. Then, you'll learn about software options that can save you hours--or even weeks--of deployment time. Since a wide variety of options exist in each area of

clustering software, the author discusses the pros and cons of the major free software projects and chooses those that are most likely to be helpful to new cluster administrators and programmers. A few of the projects introduced in the book include: MPI, the most popular programming library for clusters. This book offers simple but realistic introductory examples along with some pointers for advanced use. OSCAR and Rocks, two comprehensive installation and administrative systems openMosix (a convenient tool for distributing jobs), Linux kernel extensions that migrate processes transparently for load balancing PVFS, one of the parallel filesystems that make clustering I/O easier C3, a set of commands for administering multiple systems Ganglia, OpenPBS, and cloning tools (Kickstart, SIS and G4U) are also covered. The book looks at cluster installation packages (OSCAR & Rocks) and then considers the core packages individually for greater depth or for folks wishing to do a custom installation. Guidelines for debugging, profiling, performance tuning, and managing jobs from multiple users round out this immensely useful book.

High Availability IT Services IBM Redbooks

How can you help your Drupal website continue to perform at the highest level as it grows to meet demand? This comprehensive guide provides best practices, examples, and in-depth explanations for solving several performance and scalability issues. You'll learn how to apply coding and infrastructure techniques to Drupal internals, application performance, databases, web servers, and performance analysis. Covering Drupal versions 7 and 8, this book is the ideal reference for everything from site deployment to implementing specific technologies such as Varnish, memcache, or Solr. If you have a basic understanding of Drupal and the Linux-Apache-MySQL-PHP (LAMP) stack, you're ready to get started. Establish a performance baseline and define goals for improvement Optimize your website's code and front-end performance Get best and worst practices for customizing Drupal core functionality Apply infrastructure design techniques to launch or expand a site Use tools to configure, monitor, and optimize MySQL performance Employ alternative storage and backend search options as your site grows Tune your web servers through httpd and PHP configuration Monitor services and perform load tests to catch problems before they become critical

High Availability and Disaster Recovery Options for DB2 for Linux, UNIX, and Windows Packt Publishing Ltd

"Linux Clustering" is the premier resource for system administrators wishing to implement clustering solutions on the many types of Linux systems. It guides Linux Administrators through difficult tasks while offering helpful tips and tricks.

Red Hat Enterprise Linux 6 Administration IBM Redbooks

The aim of this IBM Redbooks publication is to provide a technical reference for IT system administrators in organizations that are considering a migration from Sun Solaris to IBM AIX 5L-based systems. This book presents a system administrator view of the technical differences that exist and the methods that are necessary to complete a successful migration to AIX 5L-based systems. This book is designed primarily as a reference for experienced Sun Solaris 8 or 9 system administrators who will be working with AIX 5L. This book is not an AIX 5L administration how-to book for system administrators who are beginners, but rather a guide for experienced administrators who have to translate a given Solaris system administration task to AIX 5L.

Fast and Scalable Designs Pro Linux High Availability Clustering

Gain the essential skills and hands-on expertise required to pass the LPIC-3 300 certification exam. This book provides the insight for you to confidently install, manage and troubleshoot OpenLDAP, Samba, and FreeIPA. Helping you to get started from scratch, this guide is divided into three comprehensive sections covering everything you'll need to prepare for the exam. Part 1 focuses on OpenLDAP and topics including securing the directory, integration with PAM and replication. Part 2 covers Samba and teaches you about Samba architecture, using different back ends, print services, and deploying Samba as a stand-alone server, PDC, and Active Directory Domain Controller. Finally, Part 3 explains how to manage FreeIPA and how to integrate it with Active Directory. Practical LPIC-3 300 is the perfect study guide for anyone interested in the LPIC-3 300 certification exam, OpenLDAP, Samba, or FreeIPA. What You'll Learn Integrate LDAP with PAM and NSS, and with Active Directory and Kerberos Manage OpenLDAP replication and server performance tuning Use Samba as a PDC and BDC Configure Samba as a domain member server in an existing NT domain Use Samba as an AD Compatible Domain Controller Replicate, manage, and integrate FreeIPA Who

This Book Is For This book is for anyone who is preparing for the LPIC-3 300 exam, or those interested in learning about OpenLDAP and Samba in general.

High Availability in WebSphere Messaging Solutions Apress

Get SQL Server up and running on the Linux operating system and containers. No database professional managing or developing SQL Server on Linux will want to be without this deep and authoritative guide by one of the most respected experts on SQL Server in the industry. Get an inside look at how SQL Server for Linux works through the eyes of an engineer on the team that made it possible. Microsoft SQL Server is one of the leading database platforms in the industry, and SQL Server 2017 offers developers and administrators the ability to run a database management system on Linux, offering proven support for enterprise-level features and without onerous licensing terms. Organizations invested in Microsoft and open source technologies are now able to run a unified database platform across all their operating system investments. Organizations are further able to take full advantage of containerization through popular platforms such as Docker and Kubernetes. Pro SQL Server on Linux walks you through installing and configuring SQL Server on the Linux platform. The author is one of the principal architects of SQL Server for Linux, and brings a corresponding depth of knowledge that no database professional or developer on Linux will want to be without. Throughout this book are internals of how SQL Server on Linux works including an in depth look at the innovative architecture. The book covers day-to-day management and troubleshooting, including diagnostics and monitoring, the use of containers to manage deployments, and the use of self-tuning and the in-memory capabilities. Also covered are performance capabilities, high availability, and disaster recovery along with security and encryption. The book covers the product-specific knowledge to bring SQL Server and its powerful features to life on the Linux platform, including coverage of containerization through Docker and Kubernetes. What You'll Learn Learn about the history and internal of the unique SQL Server on Linux architecture. Install and configure Microsoft's flagship database product on the Linux platform Manage your deployments using container technology through Docker and Kubernetes Know the basics of building databases, the T-SQL language, and developing applications against SQL Server on Linux Use tools and features

to diagnose, manage, and monitor SQL Server on Linux Scale your application by learning the performance capabilities of SQL Server Deliver high availability and disaster recovery to ensure business continuity Secure your database from attack, and protect sensitive data through encryption Take advantage of powerful features such as Failover Clusters, Availability Groups, In-Memory Support, and SQL Server's Self-Tuning Engine Learn how to migrate your database from older releases of SQL Server and other database platforms such as Oracle and PostgreSQL Build and maintain schemas, and perform management tasks from both GUI and command line Who This Book Is For Developers and IT professionals who are new to SQL Server and wish to configure it on the Linux operating system. This book is also useful to those familiar with SQL Server on Windows who want to learn the unique aspects of managing SQL Server on the Linux platform and Docker containers. Readers should have a grasp of relational database concepts and be comfortable with the SQL language. Prepare for the Highest Level Professional Linux Certification Apress

If you've been asked to maintain large and complex Hadoop clusters, this book is a must. Demand for operations-specific material has skyrocketed now that Hadoop is becoming the de facto standard for truly large-scale data processing in the data center. Eric Sammer, Principal Solution Architect at Cloudera, shows you the particulars of running Hadoop in production, from planning, installing, and configuring the system to providing ongoing maintenance. Rather than run through all possible scenarios, this pragmatic operations guide calls out what works, as demonstrated in critical deployments. Get a high-level overview of HDFS and MapReduce: why they exist and how they work Plan a Hadoop deployment, from hardware and OS selection to network requirements Learn setup and configuration details with a list of critical properties Manage resources by sharing a cluster across multiple groups Get a runbook of the most common cluster maintenance tasks Monitor Hadoop clusters—and learn troubleshooting with the help of real-world war stories Use basic tools and techniques to handle backup and catastrophic failure *Computerworld* Pearson Education

More Than 8 Hours of video instruction to learn everything you need to know about Linux High Availability Overview Linux High Availability Complete Video Course: Red Hat EX436 and LPIC-3

304 has 8 hours of comprehensive video that teaches you everything you need to know about configuring and using High Availability in Linux. Uptime is a crucial part of your job. This title focuses on giving you the knowledge you need to maintain a high level of availability for you Linux servers. You will also find full hands-on labs, so you can get real-world experience while working your way through the course. The course can be used with all flavors of Linux, including Red Hat, Ubuntu, and SUSE. It also covers every objective in the Red Hat Certificate of Expertise in High Availability Clustering exam (EX436) and the High Availability portion of the Linux Professional Institute LPIC-3 304: Virtualization and High Availability exam. Description Linux High Availability Clustering Complete Video Course is a unique video product that teaches you how to implement and configure high availability solutions for your Linux projects. High Availability ensures the availability of critical workloads in the cloud and in data centers for both large corporate and smaller environments and this video course is your go-to resource for getting started with High Availability today. Configuring High Availability is an essential part of setting up a Linux environment. High Availability is used in the data center, but also for ensuring the availability of critical workloads in the Cloud. The video course includes whiteboard concept teaching, live CLI work, screencast teaching, and hands-on labs, so you have everything you need to learn about High Availability for your work. It also covers everything you need to study for and pass the RHCA Exam 436 and also covers the High Availability portion of the Linux Professional Institute LPIC-3 304: Virtualization and High Availability exam. About the Instructor Sander van Vugt is an independent Linux trainer, author, and consultant living in the Netherlands. Sander has written numerous books about different Linux-related topics and many articles for Linux publications around the world. Sander has been teaching Red Hat, SUSE, and LPI Linux classes since 1994. As a consultant, he specializes in Linux High Availability solutions and performance optimization. More information about Sander is on his website at www.sandervanvugt.com. For more ... Clusters For High Availability John Wiley & Sons Need to configure or manage Novell Cluster Services on NetWare, Linux or a mixed environment? Pick up a copy of the official reference guide, *Novell Cluster Services for Linux and NetWare*. This book blends in-depth information with practical, real world

examples to cover cluster services configuration strategies, backup requirements, cluster services management, and upgrading tactics. You'll gain invaluable insight from authors Rob Bastiaansen and Sander van Vugt, two Novell Certified Instructors with day-to-day experience consulting on the topics covered in this book. Master installing and managing Novell Cluster Services with the tutorial not available from anyone else, *Novell Cluster Services for Linux and NetWare*.

A Comprehensive Getting-Started Guide Prentice Hall Professional 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 *Red Hat EX436 and LPIC-3 304* Apress Until now, building and managing Linux clusters has required more intimate and specialized knowledge than most IT

organizations possess. This book dramatically lowers the learning curve, bringing together all the hands-on knowledge and step-by-step techniques needed to get the job done.

Apress

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 VMSERVE 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.

LPIC-3 304-200 Linux Virtualization and High Availability Exam Practice Questions & Dumps Apress

This IBM® Redbooks® publication updates Implementing High Availability and Disaster Recovery Solutions with SAP HANA on IBM Power Systems, REDP-5443 with the latest technical content that describes how to implement an SAP HANA on IBM Power Systems™ high availability (HA) and disaster recovery (DR) solution by using theoretical knowledge and sample scenarios.

This book describes how all the pieces of the reference architecture work together (IBM Power Systems servers, IBM Storage servers, IBM Spectrum™ Scale, IBM PowerHA® SystemMirror® for Linux, IBM VM Recovery Manager DR for Power Systems, and Linux distributions) and demonstrates the resilience of SAP HANA with IBM Power Systems servers. This publication is for architects, brand specialists, distributors, resellers, and anyone developing and implementing SAP HANA on IBM Power Systems integration, automation, HA, and DR solutions. This publication provides documentation to transfer the how-to-skills to the technical teams, and documentation to the sales team.

Practical Migration from x86 to LinuxONE CRC Press

Enabling technologies - An overview of cluster computing / Thomas Sterling / - Node Hardware / Thomas Sterling / - Linux / Peter H. Beckman / - Network Hardware / Thomas Sterling / - Network Software / Thomas Sterling / - Setting Up clusters : installation and configuration - How fast is my beowulf? / David Bailey / - Parallel programming / - Parallel programming with MPI / William Gropp / - Advanced topics in MPI programming / William Gropp / - Parallel programming with PVM / Al Geist / - Fault-tolerant and adaptive programs with PVM / Al Geist / - Managing clusters / - Cluster workload management / James Patton Jones / - Condor : a distributed job scheduler / - Maui scheduler : A multifunction cluster scheduler / David B. Jackson / - PBS : portable batch system / James Patton Jones / - PVFS : parallel virtual file system / Walt Ligon / - Chiba city : the Argonne scalable cluster.

Exam Practice Questions For LPIC-3 304-200 Exam Prep LATEST VERSION IBM Redbooks

LinuxONE is a portfolio of hardware, software, and solutions for an enterprise-grade Linux environment. It has been designed to run more transactions faster and with more security and reliability specifically for the open community. It fully embraces open source-based technology. Two servers are available for LinuxONE: The IBM® LinuxONE III LT1 and IBM LinuxONE III LT2. We describe these servers in "IBM LinuxONE servers" on page 5. Aside from

still running SUSE Linux Enterprise Server and Red Hat Enterprise Linux Servers, LinuxONE runs Ubuntu, which is popular on x86 hardware. Ubuntu, which runs the cloud, smartphones, a computer that can remote control a planetary rover for NASA, many market-leading companies, and the Internet of Things, is now available on IBM LinuxONE servers. Together, these two technology communities deliver the perfect environment for cloud and DevOps. Ubuntu 16.04 on LinuxONE offers developers, enterprises, and Cloud Service Providers a scalable and secure platform for next generation applications that include OpenStack, KVM, Docker, and Juju. The following are reasons why you would want to optimize your servers through virtualization using LinuxONE: Too many distributed physical servers with low utilization A lengthy provisioning process that delays the implementation of new applications Limitations in data center power and floor space High total cost of ownership (TCO) Difficulty allocating processing power for a dynamic environment This IBM Redbooks® publication provides a technical planning reference for IT organizations that are considering a migration from their x86 distributed servers to LinuxONE. This book walks you through some of the important considerations and planning issues that you might encounter during a migration project. Within the context of a pre-existing UNIX based or x86 environment, it presents an end-to-end view of the technical challenges and methods necessary to complete a successful migration to LinuxONE.

Linux Cluster Architecture Prentice Hall

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. The expert guide to high availability clusters for HP-UX, Linux, Windows 2000, and Windows NT. The start-to-finish guide to high availability clustering Includes ways to maximize enterprise application availability-and minimize cost Completely updated for the latest tools, technologies, and applications Describes high availability solutions in HP-UX, Linux, and Windows environments Business-critical applications require higher availability than ever before-a.