

Alex Vrenios

# Linux® Cluster Architecture

SAMS



# Linux Cluster Architecture Alex Vrenios

**Lei Huang**



## **Linux Cluster Architecture Alex Vrenios:**

**Linux Cluster Architecture** Alex Vrenios, 2002 Cluster computers provide a low cost alternative to multiprocessor systems for many applications Building a cluster computer is within the reach of any computer user with solid C programming skills and a knowledge of operating systems hardware and networking This book leads you through the design and assembly of such a system and shows you how to measure and tune its overall performance A cluster computer is a multicomputer a network of node computers running distributed software that makes them work together as a team Distributed software turns a collection of networked computers into a distributed system It presents the user with a single system image and gives the system its personality Software can turn a network of computers into a transaction processor a supercomputer or even a novel design of your own Some of the techniques used in this book s distributed algorithms might be new to many readers so several of the chapters are dedicated to such topics You will learn about the hardware needed to network several PCs the operating system files that need to be changed to support that network and the multitasking and the interprocess communications skills needed to put the network to good use Finally there is a simple distributed transaction processing application in the book Readers can experiment with it customize it or use it as a basis for something completely different

**Linux Cluster Architecture** Alex Vrenios, 2002 Cluster computers provide a low cost alternative to multiprocessor systems for many applications Building a cluster computer is within the reach of any computer user with solid C programming skills and a knowledge of operating systems hardware and networking This book leads you through the design and assembly of such a system and shows you how to measure and tune its overall performance A cluster computer is a multicomputer a network of node computers running distributed software that makes them work together as a team Distributed software turns a collection of networked computers into a distributed system It presents the user with a single system image and gives the system its personality Software can turn a network of computers into a transaction processor a supercomputer or even a novel design of your own Some of the techniques used in this book s distributed algorithms might be new to many readers so several of the chapters are dedicated to such topics You will learn about the hardware needed to network several PCs the operating system files that need to be changed to support that network and the multitasking and the interprocess communications skills needed to put the network to good use Finally there is a simple distributed transaction processing application in the book Readers can experiment with it customize it or use it as a basis for something completely different

*The British National Bibliography* Arthur James Wells, 2004      *American Book Publishing Record* , 2002

*Books in Print Supplement* , 2002      *Forthcoming Books* Rose Arny, 2002      *Books In Print 2004-2005* Ed Bowker

Staff, Staff Bowker, Ed, 2004      **Building Clustered Linux Systems** Robert W. Lucke, 2005 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      High Performance Linux Clusters with OSCAR, Rocks, OpenMosix, and MPI Joseph D Sloan,2004-11-16 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      **Linux Clustering** Charles Bookman,2003 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      **Linux** Vrenios,A.· ( ),2003 Linux Linux      **Hands-On Linux for Architects** Denis Salamanca,Esteban Flores,2019-04-30 Explore practical use cases to learn everything from Linux components and functionalities through to hardware and software support Key FeaturesGain a clear understanding of how to design a Linux environmentLearn more about the architecture of the modern Linux operating system OS Understand infrastructure needs and design a high performing computing environmentBook Description It is very important to understand the flexibility of an infrastructure when designing an efficient environment In this book you will cover everything from Linux components and functionalities through to hardware and software support which will help you to implement and tune effective Linux based solutions This book gets started with an overview of Linux design methodology

Next you will focus on the core concepts of designing a solution. As you progress you will gain insights into the kinds of decisions you need to make when deploying a high performance solution using Gluster File System GlusterFS. In the next set of chapters the book will guide you through the technique of using Kubernetes as an orchestrator for deploying and managing containerized applications. In addition to this you will learn how to apply and configure Kubernetes for your NGINX application. You will then learn how to implement an ELK stack which is composed of Elasticsearch Logstash and Kibana. In the concluding chapters you will focus on installing and configuring a Saltstack solution to manage different Linux distributions and explore a variety of design best practices. By the end of this book you will be well versed with designing a high performing computing environment for complex applications to run on. By the end of the book you will have delved inside the most detailed technical conditions of designing a solution and you will have also dissected every aspect in detail in order to implement and tune open source Linux based solutions. What you will learn: Study the basics of infrastructure design and the steps involved. Expand your current design portfolio with Linux based solutions. Discover open source software based solutions to optimize your architecture. Understand the role of high availability and fault tolerance in a resilient design. Identify the role of containers and how they improve your continuous integration and continuous deployment pipelines. Gain insights into optimizing and making resilient and highly available designs by applying industry best practices. Who this book is for: This intermediate level book is for Linux system administrators, Linux support engineers, DevOps engineers, Linux consultants or any open source technology professional looking to learn or expand their knowledge in architecting, designing and implementing solutions based on Linux and open source software. Prior experience in Linux is required. **Linux Cluster**

**Architecture**, 2002. The combination of several computers into a single system image is the way of the future. The alternative multiprocessor systems using a specialized operating system is often too inefficient and too costly in the long run. Today's solution is to combine several single processors over an inexpensive network. Called cluster architecture, this solution requires careful planning and sophisticated application software. Linux Cluster Architecture helps system designers and administrators learn the essential skills associated with Linux cluster architecture, internetworking, integration, operating system configuration and application software development. **The Linux Enterprise Cluster** Karl Kopper, 2005. The Linux Enterprise Cluster explains how to take a number of inexpensive computers with limited resources, place them on a normal computer network and install free software so that the computers act together like one powerful server. This makes it possible to build a very inexpensive and reliable business system for a small business or a large corporation. The book includes information on how to build a high availability server pair using the Heartbeat package, how to use the Linux Virtual Server load balancing software, how to configure a reliable printing system in a Linux cluster environment and how to build a job scheduling system in Linux with no single point of failure. The book also includes information on high availability techniques that can be used with or without a cluster, making it helpful for System Administrators even if they are not

building a cluster Anyone interested in deploying Linux in an environment where low cost computer reliability is important will find this book useful The CD ROM includes the Linux kernel ldirectord software the Mon monitoring package the Ganglia package OpenSSH rsync SystemImager Heartbeat and all the figures and illustrations used in the book **Pro Linux High Availability Clustering** Sander van Vugt, 2014-07-25 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 **Beowulf Cluster Computing with Linux** Thomas Lawrence Sterling, 2002 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 **OpenShift Multi-Cluster Management Handbook** Giovanni Fontana, Rafael Pecora, 2022-11-11 Discover best practices for designing and scaling robust OpenShift clusters architecture for different workloads Manage multiple clusters on premise or in the cloud using multi cluster management tools to keep them secure and compliant Implement multi cluster CI CD on OpenShift using GitOps Key Features Discover best practices to design robust OpenShift architecture and scale them to different workloads Understand the minimal collection of topics you should consider in your container security strategy Implement multi cluster CI CD on OpenShift using GitOps Book Description For IT professionals working with Red Hat OpenShift Container Platform the key to maximizing efficiency is understanding the powerful and resilient options to maintain the

software development platform with minimal effort OpenShift Multi Cluster Management Handbook is a deep dive into the technology containing knowledge essential for anyone who wants to work with OpenShift This book starts by covering the architectural concepts and definitions necessary for deploying OpenShift clusters It then takes you through designing Red Hat OpenShift for hybrid and multi cloud infrastructure showing you different approaches for multiple environments from on premises to cloud providers As you advance you ll learn container security strategies to protect pipelines data and infrastructure on each layer You ll also discover tips for critical decision making once you understand the importance of designing a comprehensive project considering all aspects of an architecture that will allow the solution to scale as your application requires By the end of this OpenShift book you ll know how to design a comprehensive Red Hat OpenShift cluster architecture deploy it and effectively manage your enterprise grade clusters and other critical components using tools in OpenShift Plus What you will learn Understand the important aspects of OpenShift cluster architecture Design your infrastructure to run across hybrid clouds Define the best strategy for multitenancy on OpenShift Discover efficient troubleshooting strategies with OpenShift Build and deploy your applications using OpenShift Pipelines Tekton Work with ArgoCD to deploy your applications using GitOps practices Monitor your clusters security using Red Hat Advanced Cluster Security Who this book is for This book is for a wide range of IT professionals using or looking to use OpenShift with a hybrid multi cloud approach In this book IT architects will find practical guidance on OpenShift clusters architecture while Sysadmins SREs and IT operators will learn more about OpenShift deployment troubleshooting networking security and tools to manage multiple clusters from a single pane For DevOps engineers this book covers CI CD strategies for multiple clusters using GitOps Equipped with just basic knowledge of containerization and Kubernetes you re ready to get started

**Distributed Services with OpenAFS** Franco Milicchio,Wolfgang Alexander Gehrke,2007-03-26 This book shows in detail how to build enterprise level secure redundant and highly scalable services from scratch on top of the open source Linux operating system suitable for small companies as well as big universities The core architecture presented is based on Kerberos LDAP AFS and Samba Coverage shows how to integrate web message related data base and other services with this backbone This architecture provides a Single Sign On solution for different client platforms and can also be employed for clustering Although it is implemented with Debian GNU Linux the content can be applied to other UNIX flavors [Linux Clustering with CSM and GPFS](#) ,2004 *Achieving Order Through CHAOS* ,2003 Since fall 2001 Livermore Computing at Lawrence Livermore National Laboratory has deployed 11 Intel IA 32 based Linux clusters ranging in size up to 1154 nodes All provide a common programming model and implement a similar cluster architecture Hardware components are carefully selected for performance usability manageability and reliability and are then integrated and supported using a strategy that evolved from practical experience Livermore Computing Linux clusters run a common software environment that is developed and maintained in house while drawing components and additional support from the open source community and

industrial partnerships The environment is based on Red Hat Linux and adds kernel modifications cluster system management monitoring and failure detection resource management authentication and access control development environment and parallel file system The overall strategy has been successful and demonstrates that world class high performance computing resources can be built and maintained using commodity off the shelf hardware and open source software



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