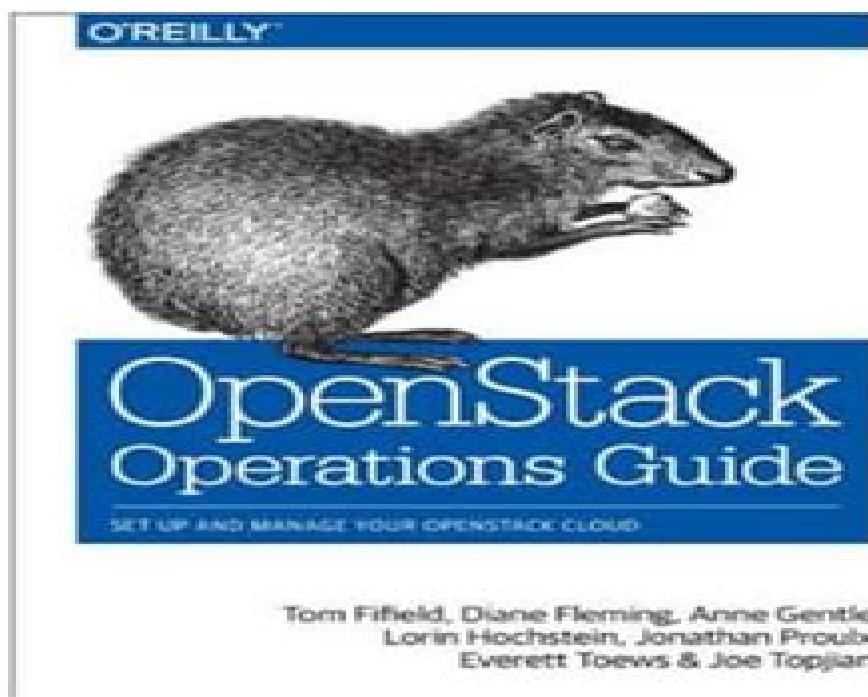


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# Openstack Operations Guide Diane Fleming

**Cody Bumgardner**

## **Openstack Operations Guide Diane Fleming:**

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[\*\*OpenStack Operations Guide\*\*](#) Adam Hyde,Tom Fifield,Diane Fleming,Anne Gentle,Lorin Hochstein,Jonathan Proulx,Everett Toews,Joe Topjian,2013    [\*\*OpenStack Operations Guide\*\*](#) Tom Fifield,Diane Fleming,Anne Gentle,Lorin Hochstein,Jonathan Proulx,Everett Toews,Joe Topjian,2014-04-24 Design deploy and maintain your own private or public Infrastructure as a Service IaaS using the open source OpenStack platform In this practical guide experienced developers and OpenStack contributors show you how to build clouds based on reference architectures as well as how to perform daily administration tasks Designed for horizontal scalability OpenStack lets you build a cloud by integrating several technologies This approach provides flexibility but knowing which options to use can be bewildering Once you complete this book you ll know the right questions to ask while you organize compute storage and networking resources If you already know how to manage multiple Ubuntu machines and maintain MySQL you re ready to Set up automated deployment and configuration Design a single node cloud controller Use metrics to improve scalability Explore compute nodes network design and storage Install OpenStack packages Use an example architecture to help simplify decision making Build a working environment to explore an IaaS cloud Manage users projects and quotas Tackle maintenance debugging and network troubleshooting Monitor log backup and restore    *Openstack Operations Guide ,2014*    *OpenStack Operations Guide* Tom Fifield. Diane Fleming. Anne Gentle. Lorin Hochstein. Jonathan Proulx. Everett Toews. Joe Topjian,2014

**Learning OpenStack Networking** James Denton,2018-08-31 Discover the basics of virtual networking in OpenStack to implement various cloud network architectures Key Features Learn the difference between Open vSwitch and Linux bridge switching technologies Connect virtual machine instances to virtual networks subnets and ports Implement virtual load balancers firewalls and routers in your network Book Description OpenStack Networking is a pluggable scalable and API driven system to manage

physical and virtual networking resources in an OpenStack based cloud. Like other core OpenStack components OpenStack Networking can be used by administrators and users to increase the value and maximize the use of existing datacenter resources. This third edition of Learning OpenStack Networking walks you through the installation of OpenStack and provides you with a foundation that can be used to build a scalable and production ready OpenStack cloud. In the initial chapters you will review the physical network requirements and architectures necessary for an OpenStack environment that provide core cloud functionality. Then you'll move through the installation of the new release of OpenStack using packages from the Ubuntu repository. An overview of Neutron networking foundational concepts including networks, subnets and ports will segue into advanced topics such as security groups, distributed virtual routers, virtual load balancers and VLAN tagging within instances. By the end of this book you will have built a network infrastructure for your cloud using OpenStack Neutron. What you will learn: Get familiar with Neutron constructs including agents and plugins. Build foundational Neutron resources to provide connectivity to instances. Work with legacy Neutron routers and troubleshoot traffic through them. Explore high availability routing capabilities utilizing Virtual Router Redundancy Protocol (VRRP). Create and manage load balancers and associated components. Manage security groups as a method of securing traffic to and from instances. Who this book is for: If you are an OpenStack based cloud operator and administrator who is new to Neutron networking and wants to build your very own OpenStack cloud then this book is for you. Prior networking experience and a physical server and network infrastructure is recommended to follow along with concepts demonstrated in the book.

### **OpenStack in Action**

Cody Bumgardner, 2016-04-10 Summary: OpenStack in Action offers the real world use cases and step by step instructions you can take to develop your own cloud platform from inception to deployment. This book guides you through the design of both the physical hardware cluster and the infrastructure services you'll need to create a custom cloud platform. Purchase of the print book includes a free eBook in PDF, Kindle and ePUB formats from Manning Publications.

**About the Technology:** OpenStack is an open source framework that lets you create a private or public cloud platform on your own physical servers. You build custom infrastructure platform and software services without the expense and vendor lock in associated with proprietary cloud platforms like Amazon Web Services and Microsoft Azure. With an OpenStack private cloud you can get increased security, more control, improved reliability and lower costs. **About the Book:** OpenStack in Action offers real world use cases and step by step instructions on how to develop your own cloud platform. This book guides you through the design of both the physical hardware cluster and the infrastructure services you'll need. You'll learn how to select and set up virtual and physical servers, how to implement software defined networking and technical details of designing, deploying and operating an OpenStack cloud in your enterprise. You'll also discover how to best tailor your OpenStack deployment for your environment. Finally you'll learn how your cloud can offer user facing software and infrastructure services. **What's Inside:** Develop and deploy an enterprise private cloud. Private cloud technologies from an IT perspective. Organizational impact of

self service cloud computing About the Reader No prior knowledge of OpenStack or cloud development is assumed About the Author Cody Bumgardner is the Chief Technology Architect at a large university where he is responsible for the architecture deployment and long term strategy of OpenStack private clouds and other cloud computing initiatives Table of Contents

PART 1 GETTING STARTED Introducing OpenStack Taking an OpenStack test drive Learning basic OpenStack operations Understanding private cloud building blocks PART 2 WALKING THROUGH A MANUAL DEPLOYMENT Walking through a Controller deployment Walking through a Networking deployment Walking through a Block Storage deployment Walking through a Compute deployment PART 3 BUILDING A PRODUCTION ENVIRONMENT Architecting your OpenStack Deploying Ceph Automated HA OpenStack deployment with Fuel Cloud orchestration using OpenStack

*Mastering OpenStack - Second Edition* Omar Khedher, Chandan Dutta, 2017-04-26 Discover your complete guide to designing, deploying, and managing OpenStack based clouds in mid to large IT infrastructures with best practices, expert understanding, and more. About This Book: Design and deploy an OpenStack based cloud in your mid to large IT infrastructure using automation tools and best practices. Keep yourself up to date with valuable insights into OpenStack components and new services in the latest OpenStack release. Discover how the new features in the latest OpenStack release can help your enterprise and infrastructure. Who This Book Is For: This book is for system administrators, cloud engineers, and system architects who would like to deploy an OpenStack based cloud in a mid to large IT infrastructure. This book requires a moderate level of system administration and familiarity with cloud concepts. What You Will Learn: Explore the main architecture design of OpenStack components and core by core services and how they work together. Design different high availability scenarios and plan for a no single point of failure environment. Set up a multinode environment in production using orchestration tools. Boost OpenStack's performance with advanced configuration. Delve into various hypervisors and container technology supported by OpenStack. Get familiar with deployment methods and discover use cases in a real production environment. Adopt the DevOps style of automation while deploying and operating in an OpenStack environment. Monitor the cloud infrastructure and make decisions on maintenance and performance improvement. In Detail: In this second edition, you will get to grips with the latest features of OpenStack. Starting with an overview of the OpenStack architecture, you'll see how to adopt the DevOps style of automation while deploying and operating in an OpenStack environment. We'll show you how to create your own OpenStack private cloud. Then you'll learn about various hypervisors and container technology supported by OpenStack. You'll get an understanding about the segregation of compute nodes based on reliability and availability needs. We'll cover various storage types in OpenStack and advanced networking aspects such as SDN and NFV. Next you'll understand the OpenStack infrastructure from a cloud user point of view. Moving on, you'll develop troubleshooting skills and get a comprehensive understanding of services such as high availability and failover in OpenStack. Finally, you will gain experience of running a centralized logging server and monitoring OpenStack services. The book will show you how to carry out performance tuning.

based on OpenStack service logs You will be able to master OpenStack benchmarking and performance tuning By the end of the book you ll be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies Style and approachThis book will help you understand the flexibility of OpenStack by showcasing integration of several out of the box solutions in order to build a large scale cloud environment It will also cover detailed discussions on the various design and deployment strategies for implementing a fault tolerant and highly available cloud infrastructure

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