



Topology Summary

Node	Console
Cloud1	none
compute1	telnet localhost:5017
compute2	telnet localhost:5029
infra1	telnet localhost:5028
infra2	telnet localhost:5037
infra3	telnet localhost:5034
leaf01	telnet localhost:5032
leaf02	telnet localhost:5036
log1	telnet localhost:5030
mgmt01	telnet localhost:5008
MAF1	none
ond1	telnet localhost:5031
ond2	telnet localhost:5033
ond3	telnet localhost:5035
spine01	telnet localhost:5005
spine02	telnet localhost:5006
swimgt	telnet localhost:5006

Devices Summary

- minimyth@cpu 1.0%, RAM 6.0%

Openstack Ceph E Le Nuove Architetture Progetti Cloud

**Vikhyat Umrao,Michael Hackett,Karan
Singh**

Openstack Ceph E Le Nuove Architetture Progetti Cloud:

Ceph: Designing and Implementing Scalable Storage Systems Michael Hackett, Vikhyat Umrao, Karan Singh, Nick Fisk, Anthony D'Atri, Vaibhav Bhembre, 2019-01-31 Get to grips with the unified highly scalable distributed storage system and learn how to design and implement it Key Features Explore Ceph's architecture in detail Implement a Ceph cluster successfully and gain deep insights into its best practices Leverage the advanced features of Ceph including erasure coding tiering and BlueStore Book Description This Learning Path takes you through the basics of Ceph all the way to gaining in depth understanding of its advanced features You'll gather skills to plan deploy and manage your Ceph cluster After an introduction to the Ceph architecture and its core projects you'll be able to set up a Ceph cluster and learn how to monitor its health improve its performance and troubleshoot any issues By following the step by step approach of this Learning Path you'll learn how Ceph integrates with OpenStack Glance Manila Swift and Cinder With knowledge of federated architecture and CephFS you'll use Calamari and VSM to monitor the Ceph environment In the upcoming chapters you'll study the key areas of Ceph including BlueStore erasure coding and cache tiering More specifically you'll discover what they can do for your storage system In the concluding chapters you will develop applications that use Librados and distributed computations with shared object classes and see how Ceph and its supporting infrastructure can be optimized By the end of this Learning Path you'll have the practical knowledge of operating Ceph in a production environment This Learning Path includes content from the following Packt products Ceph Cookbook by Michael Hackett Vikhyat Umrao and Karan Singh Mastering Ceph by Nick Fisk Learning Ceph Second Edition by Anthony D Atri Vaibhav Bhembre and Karan Singh What you will learn Understand the benefits of using Ceph as a storage solution Combine Ceph with OpenStack Cinder Glance and Nova components Set up a test cluster with Ansible and virtual machine with VirtualBox Develop solutions with Librados and shared object classes Configure BlueStore and see its interaction with other configurations Tune monitor and recover storage systems effectively Build an erasure coded pool by selecting intelligent parameters Who this book is for If you are a developer system administrator storage professional or cloud engineer who wants to understand how to deploy a Ceph cluster this Learning Path is ideal for you It will help you discover ways in which Ceph features can solve your data storage problems Basic knowledge of storage systems and GNU Linux will be beneficial **OpenStack Cloud Application Development** Scott Adkins, John

Belamaric, Vincent Giersch, Denys Makogon, Jason E. Robinson, 2015-11-13 Leverage the power of OpenStack to develop scalable applications with no vendor lock in OpenStack Cloud Application Development is a fast paced professional book for OpenStack developers delivering comprehensive guidance without wasting time on development fundamentals Written by experts in the OpenStack community from Infoblox Gigaspaces GoDaddy and Comcast this book shows you how to work effectively and efficiently within the OpenStack platform to develop large scalable applications without worrying about underlying hardware Follow along with an OpenStack build that illustrates how and where each technology comes into play

as you learn expert tips and best practices that make your product stronger Coverage includes OpenStack service primitives networking within the OpenStack Ecosystem deployment of Virtualized Network Functions for Enterprises containers data protection and much more If you need to get on board quickly this professional book is your ideal roadmap to OpenStack development Understand all aspects of OpenStack technologies Follow an example build to drill down into critical elements Learn the OpenStack best practices and insider tips Leverage the full capability of IaaS at a professional pace OpenStack is supported by dozens of major technology companies compatible with Amazon Web Services and can be used alongside or on top of VMWare vSphere and other similar technologies It frees developers from the confines of hardware and vendor lock in while providing a reliable fast and easy platform for developing scalable cloud applications OpenStack Cloud Application Development is an expert led guide to getting the most out of OpenStack designed specifically for the professional developer

OpenStack in Action Cody Bumgardner, 2016-03-15 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 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 *Ceph Cookbook* Karan Singh,2016-02-29 Over 100 effective recipes to help you design implement and manage the software defined and massively scalable Ceph storage system About This Book Implement a Ceph cluster successfully and gain deep insights into its best practices Harness the abilities of experienced storage administrators and architects and run your own software defined storage system This comprehensive step by step guide will show you how to build and manage Ceph storage in production environment Who This Book Is For This book is aimed at storage and cloud system engineers system administrators and technical architects who are interested in building software defined storage solutions to power their cloud and virtual infrastructure If you have basic knowledge of GNU Linux and storage systems with no experience of software defined storage solutions and Ceph but eager to learn this book is for you What You Will Learn Understand install configure and manage the Ceph storage system Get to grips with performance tuning and benchmarking and gain practical tips to run Ceph in production Integrate Ceph with OpenStack Cinder Glance and nova components Deep dive into Ceph object storage including s3 swift and keystone integration Build a Dropbox like file sync and share service and Ceph federated gateway setup Gain hands on experience with Calamari and VSM for cluster monitoring Familiarize yourself with Ceph operations such as maintenance monitoring and troubleshooting Understand advanced topics including erasure coding CRUSH map cache pool and system maintenance In Detail Ceph is a unified distributed storage system designed for excellent performance reliability and scalability This cutting edge technology has been transforming the storage industry and is evolving rapidly as a leader in software defined storage space extending full support to cloud platforms such as Openstack and Cloudstack including virtualization platforms It is the most popular storage backend for Openstack public and private clouds so is the first choice for a storage solution Ceph is backed by RedHat and is developed by a thriving open source community of individual developers as well as several companies across the globe This book takes you from a basic knowledge of Ceph to an expert understanding of the most advanced features walking you through building up a production grade Ceph storage cluster and helping you develop all the skills you need to plan deploy and effectively manage your Ceph cluster Beginning with the basics you ll create a Ceph cluster followed by block object and file storage provisioning Next you ll get a step by step tutorial on integrating it with OpenStack and building a Dropbox like object storage solution We ll also take a look at federated architecture and CephFS and you ll dive into Calamari and VSM for monitoring the Ceph environment You ll develop expert knowledge on troubleshooting and benchmarking your Ceph storage cluster Finally you ll get to grips with the best practices to operate Ceph in a production environment Style and approach This step by step guide is filled with practical tutorials making complex scenarios easy to understand **OpenStack Essentials** Dan Radez,2015-05-26 If you need to get started with OpenStack or want to learn more then this book is your perfect companion If you re comfortable with the Linux command line you ll gain confidence in using OpenStack *Applied OpenStack Design*

Patterns Uchit Vyas, 2016-12-20 Learn practical and applied OpenStack cloud design solutions to gain maximum control over your infrastructure You will achieve a complete controlled and customizable platform Applied OpenStack Design Patterns teaches you how to map your application flow once you set up components and architectural design patterns Also covered is storage management and computing to map user requests and allocations Best practices of High Availability and Native Cluster Management are included Solutions are presented to network components of OpenStack and to reduce latency and enable faster communication gateways between components of OpenStack and native applications What You Will Learn Design a modern cloud infrastructure Solve complex infrastructure application problems Understand OpenStack cloud infrastructure components Adopt a business impact analysis to support existing new cloud infrastructure Use specific components to integrate an existing tool chain set to gain agility and a quick continuous delivery model Who This Book Is For Seasoned solution architects DevOps and system engineers and analysts *OpenStack for Architects* Michael Solberg, 2017-02-03 Design and implement successful private clouds with OpenStack About This Book Explore the various design choices available for cloud architects within an OpenStack deployment Craft an OpenStack architecture and deployment pipeline to meet the unique needs of your organization Create a product roadmap for Infrastructure as a Service in your organization using this hands on guide Who This Book Is For This book is written especially for those who will design OpenStack clouds and lead their implementation These people are typically cloud architects but may also be in product management systems engineering or enterprise architecture What You Will Learn Familiarize yourself with the components of OpenStack Build an increasingly complex OpenStack lab deployment Write compelling documentation for the architecture teams within your organization Apply Agile configuration management techniques to deploy OpenStack Integrate OpenStack with your organization s identity management provisioning and billing systems Configure a robust virtual environment for users to interact with Use enterprise security guidelines for your OpenStack deployment Create a product roadmap that delivers functionality quickly to the users of your platform In Detail Over the last five years hundreds of organizations have successfully implemented Infrastructure as a Service IaaS platforms based on OpenStack The huge amount of investment from these organizations industry giants such as IBM and HP as well as open source leaders such as Red Hat have led analysts to label OpenStack as the most important open source technology since the Linux operating system Because of its ambitious scope OpenStack is a complex and fast evolving open source project that requires a diverse skill set to design and implement it This guide leads you through each of the major decision points that you ll face while architecting an OpenStack private cloud for your organization At each point we offer you advice based on the experience we ve gained from designing and leading successful OpenStack projects in a wide range of industries Each chapter also includes lab material that gives you a chance to install and configure the technologies used to build production quality OpenStack clouds Most importantly we focus on ensuring that your OpenStack project meets the needs of your organization which will guarantee a successful

rollout Style and approach This is practical hands on guide to implementing OpenStack clouds where each topic is illustrated with real world examples and then the technical points are proven in the lab [Mastering OpenStack](#) Omar Khedher,2015-07-30 This comprehensive guide will help you to choose the right practical option and make strategic decisions about the OpenStack cloud environment to fit your infrastructure in production At the start this book will explain the OpenStack core architecture You will soon be shown how to create your own OpenStack private cloud Next you will move on to cover the key security layer and network troubleshooting skills along with some advanced networking features Finally you will gain experience of centralizing and logging OpenStack The book will show you how to carry out performance tuning based on OpenStack service logs By the end of this book you will be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies *Production Ready OpenStack - Recipes for Successful Environments* Arthur Berezin,2015-10-12 Over 90 practical and highly applicable recipes to successfully deploy various OpenStack configurations in production About This Book Get a deep understanding of OpenStack s internal structure and services Learn real world examples on how to build and configure various production grade use cases for each of OpenStack s services Use a step by step approach to install and configure OpenStack s services to provide Compute Storage and Networking as a services for cloud workloads Who This Book Is For If you have a basic understanding of Linux and Cloud computing and want to learn about configurations that OpenStack supports this is the book for you Knowledge of virtualization and managing Linux environments is expected Prior knowledge or experience of OpenStack is not required although beneficial What You Will Learn Plan an installation of OpenStack with a basic configuration Deploy OpenStack in a highly available configuration Configure Keystone Identity services with multiple types of identity backends Configure Glance Image Store with File NFS Swift or Ceph image backends and use local image caching Design Cinder to use a single storage provider such as LVM Ceph and NFS backends or to use multiple storage backends simultaneously Manage and configure the OpenStack networking backend Configure OpenStack s compute hypervisor and the instance scheduling mechanism Build and customize the OpenStack dashboard In Detail OpenStack is the most popular open source cloud platform used by organizations building internal private clouds and by public cloud providers OpenStack is designed in a fully distributed architecture to provide Infrastructure as a Service allowing us to maintain a massively scalable cloud infrastructure OpenStack is developed by a vibrant community of open source developers who come from the largest software companies in the world The book provides a comprehensive and practical guide to the multiple uses cases and configurations that OpenStack supports This book simplifies the learning process by guiding you through how to install OpenStack in a single controller configuration The book goes deeper into deploying OpenStack in a highly available configuration You ll then configure Keystone Identity Services using LDAP Active Directory or the MySQL identity provider and configure a caching layer and SSL After that you will configure storage back end providers for Glance and Cinder which will include Ceph NFS Swift and local storage Then you

will configure the Neutron networking service with provider network VLANs and tenant network VXLAN and GRE Also you will configure Nova s Hypervisor with KVM and QEMU emulation and you will configure Nova s scheduler filters and weights Finally you will configure Horizon to use Apache HTTPD and SSL and you will customize the dashboard s appearance Style and approach This book consists of clear concise instructions coupled with practical and applicable recipes that will enable you to use and implement the latest features of OpenStack *OpenStack Cloud Security* Fabio Alessandro

Locati,2015-07-28 OpenStack is a system that controls large pools of computing storage and networking resources allowing its users to provision resources through a user friendly interface OpenStack helps developers with features such as rolling upgrades federated identity and software reliability You will begin with basic security policies such as MAC MLS and MCS and explore the structure of OpenStack and virtual networks with Neutron Next you will configure secure communications on the OpenStack API with HTTP connections You will also learn how to set OpenStack Keystone and OpenStack Horizon and gain a deeper understanding of the similarities differences between OpenStack Cinder and OpenStack Swift By the end of this book you will be able to tweak your hypervisor to make it safer and a smart choice based on your needs Ceph

Cookbook Vikhyat Umrao,Michael Hackett,Karan Singh,2017-11-24 Over 100 effective recipes to help you design implement and troubleshoot manage the software defined and massively scalable Ceph storage system About This Book Implement a Ceph cluster successfully and learn to manage it Recipe based approach in learning the most efficient software defined storage system Implement best practices on improving efficiency and security of your storage cluster Learn to troubleshoot common issues experienced in a Ceph cluster Who This Book Is For This book is targeted at storage and cloud engineers system administrators or anyone who is interested in building software defined storage to power your cloud or virtual infrastructure If you have basic knowledge of GNU Linux and storage systems with no experience of software defined storage solutions and Ceph but eager to learn then this book is for you What You Will Learn Understand install configure and manage the Ceph storage system Get to grips with performance tuning and benchmarking and learn practical tips to help run Ceph in production Integrate Ceph with OpenStack Cinder Glance and Nova components Deep dive into Ceph object storage including S3 Swift and Keystone integration Configure a disaster recovery solution with a Ceph Multi Site V2 gateway setup and RADOS Block Device mirroring Gain hands on experience with Ceph Metrics and VSM for cluster monitoring Familiarize yourself with Ceph operations such as maintenance monitoring and troubleshooting Understand advanced topics including erasure coding CRUSH map cache pool and general Ceph cluster maintenance In Detail Ceph is a unified distributed storage system designed for reliability and scalability This technology has been transforming the software defined storage industry and is evolving rapidly as a leader with its wide range of support for popular cloud platforms such as OpenStack and CloudStack and also for virtualized platforms Ceph is backed by Red Hat and has been developed by community of developers which has gained immense traction in recent years This book will guide you right from the basics of Ceph such as

creating blocks object storage and filesystem access to advanced concepts such as cloud integration solutions The book will also cover practical and easy to implement recipes on CephFS RGW and RBD with respect to the major stable release of Ceph Jewel Towards the end of the book recipes based on troubleshooting and best practices will help you get to grips with managing Ceph storage in a production environment By the end of this book you will have practical hands on experience of using Ceph efficiently for your storage requirements Style and approach This step by step guide is filled with practical tutorials making complex scenarios easy to understand [Building Service Platforms Using OpenStack and CEPH](#) Jens Döbler, Malte Dreyer, Daniel Rohde, 2015

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1 press the to watch the reading of the book hey little ant 2 after listening to the story press the button to respond to the question would you squish or save the ant 3 in the blue box respond with if you would squish or save little ant by using the button 4 next write down your three reasons for your choice using the or button 5

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written by phillip hoose with illustration by debbie tilley background and summary of story hey little ant is a song based children s picture book used throughout the world to teach young children alternatives to violent and bullying behavior and to

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lesson 40 minutes 1 minute introduce the book today we are reading hey little ant it s about a boy and an ant and we will look at the situation from their two different perspectives i want you to pay attention to the reasons that they give for their perspective after we read the book we will have a discussion about what is the

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this opinion writing craft is a fun way to have students come up with reasons and supporting details about whether or not you should squish ants this is common core aligned and pairs great with the book hey little ant by phillip and hannah hoose however owning this book is by no means necessary for using this resource

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