
Openstack In Action

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Openstack In Action

2020-12-27

BRYLEE RHODES

I Am a Software Engineer and I Am in Charge Simon and Schuster

GraphQL in Action gives you the tools to

get comfortable with the GraphQL language, build and optimize a data API service, and use it in a front-end client application. Summary Reduce bandwidth demands on your APIs by getting only the results you need—all in a single

request! The GraphQL query language simplifies interactions with web servers, enabling smarter API queries that can hugely improve the efficiency of data requests. In *GraphQL in Action*, you'll learn how to bring those benefits to your own APIs, giving your clients the power to ask for exactly what they need from your server, no more, no less. Practical and example-driven, this book teaches everything you need to get started with GraphQL—from design principles and syntax right through to performance optimization. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology GraphQL APIs are fast, efficient, and easy to maintain. They reduce app latency and server cost while boosting developer productivity.

This powerful query layer offers precise control over API requests and returns, making apps faster and less prone to error. About the book *GraphQL in Action* gives you the tools to get comfortable with the GraphQL language, build and optimize a data API service, and use it in a front-end client application. By working through set up, security, and error handling you'll learn to create a complete GraphQL server. You'll also unlock easy ways to incorporate GraphQL into your existing codebase so you can build simple, scalable data APIs. What's inside Define a GraphQL schema for relational and document databases Implement GraphQL types using both the schema language and object constructor methods Optimize GraphQL resolvers with data caching and batching

Design GraphQL fragments that match UI components' data requirements
Consume GraphQL API queries, mutations, and subscriptions with and without a GraphQL client library
About the reader For web developers familiar with client-server applications. About the author Samer Buna has over 20 years of experience in software development including front-ends, back-ends, API design, and scalability. Table of Contents
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[Production Ready OpenStack - Recipes for Successful Environments](#) IT Revolution
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 approach This 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. *Troubleshooting OpenStack* Manning Undoubtedly, presupposition theory is a major chapter in the success story of dynamic semantics. This book features papers on this topic based on a conference on "Presupposition"

convened in Stuttgart in October 2000. [Building the Network of the Future](#) Packt Publishing Ltd

Keystone—OpenStack's Identity service—provides secure controlled access to a cloud's resources. In OpenStack environments, Keystone performs many vital functions, such as authenticating users and determining what resources users are authorized to access. Whether the cloud is private, public, or dedicated, access to cloud resources and security is essential. This practical guide to using Keystone provides detailed, step-by-step guidance to creating a secure cloud environment at the Infrastructure-as-a-Service layer—as well as key practices for safeguarding your cloud's ongoing security. Learn about Keystone's

fundamental capabilities for providing Identity, Authentication, and Access Management Perform basic Keystone operations, using concrete examples and the latest version (v3) of Keystone's Identity API Understand Keystone's unique support for multiple token formats, including how it has evolved over time Get an in-depth explanation of Keystone's LDAP support and how to configure Keystone to integrate with LDAP Learn about one of Keystone's most sought-after features—support for federated identity

Identity, Authentication, and Access Management in OpenStack Simon and Schuster

Summary Kubernetes in Action is a comprehensive guide to effectively developing and running applications in a

Kubernetes environment. Before diving into Kubernetes, the book gives an overview of container technologies like Docker, including how to build containers, so that even readers who haven't used these technologies before can get up and running. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Kubernetes is Greek for "helmsman," your guide through unknown waters. The Kubernetes container orchestration system safely manages the structure and flow of a distributed application, organizing containers and services for maximum efficiency. Kubernetes serves as an operating system for your clusters, eliminating the need to factor the underlying network and server

infrastructure into your designs. About the Book Kubernetes in Action teaches you to use Kubernetes to deploy container-based distributed applications. You'll start with an overview of Docker and Kubernetes before building your first Kubernetes cluster. You'll gradually expand your initial application, adding features and deepening your knowledge of Kubernetes architecture and operation. As you navigate this comprehensive guide, you'll explore high-value topics like monitoring, tuning, and scaling. What's Inside Kubernetes' internals Deploying containers across a cluster Securing clusters Updating applications with zero downtime About the Reader Written for intermediate software developers with little or no familiarity with Docker or container

orchestration systems. About the Author
 Marko Luksa is an engineer at Red Hat working on Kubernetes and OpenShift.
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 Managing pods' computational resources
 Automatic scaling of pods and cluster nodes
 Advanced scheduling
 Best practices for developing apps
 Extending Kubernetes
Software-Defined Networking (SDN) with OpenStack "O'Reilly Media, Inc."
 Get up and running with OpenStack
 Swift, the free, open source solution for deploying high-performance object storage clusters at scale. In this practical guide, Joe Arnold, co-founder and CEO of SwiftStack, brings you up-to-speed on the basic concepts of object storage and walks you through what you need to know to plan, build, operate, and measure the performance of your own Swift storage system. Object storage is essential today with the growth of web,

mobile, and software-as-a-service (SaaS) applications. This book helps you through the process, with separate sections on application development, installation, administration, and troubleshooting. Learn Swift's concepts for organizing, distributing, and serving data Explore basic and advanced features of the Swift RESTful API Delve into Swift's many client libraries, including useful Python features Write middleware to customize and simplify your storage system Understand requirements for planning a Swift deployment—including your specific use case Learn options for coaxing the best performance from your cluster Get best practices for daily operations, such as monitoring and planning capacity additions Pick up techniques for testing

and benchmarking your Swift cluster
Advanced Information Systems Engineering

Summary Go in Action introduces the Go language, guiding you from inquisitive developer to Go guru. The book begins by introducing the unique features and concepts of Go. Then, you'll get hands-on experience writing real-world applications including websites and network servers, as well as techniques to manipulate and convert data at speeds that will make your friends jealous. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Application development can be tricky enough even when you aren't dealing with complex systems programming problems like

web-scale concurrency and real-time performance. While it's possible to solve these common issues with additional tools and frameworks, Go handles them right out of the box, making for a more natural and productive coding experience. Developed at Google, Go powers nimble startups as well as big enterprises—companies that rely on high-performing services in their infrastructure. About the Book Go in Action is for any intermediate-level developer who has experience with other programming languages and wants a jump-start in learning Go or a more thorough understanding of the language and its internals. This book provides an intensive, comprehensive, and idiomatic view of Go. It focuses on the specification and implementation of

the language, including topics like language syntax, Go's type system, concurrency, channels, and testing. What's Inside Language specification and implementation Go's type system Internals of Go's data structures Testing and benchmarking About the Reader This book assumes you're a working developer proficient with another language like Java, Ruby, Python, C#, or C++. About the Authors William Kennedy is a seasoned software developer and author of the blog GoingGo.Net. Brian Ketelsen and Erik St. Martin are the organizers of GopherCon and coauthors of the Go-based Skynet framework. Table of Contents Introducing Go Go quick-start Packaging and tooling Arrays, slices, and maps Go's type system Concurrency Concurrency

patterns Standard library Testing and benchmarking

OpenStack in Action BRILL

Covering technique and implementation for building code for complex applications frameworks, this book demonstrates how to build high-quality output that is consistent and maintainable. Lessons on abstracting the design of the code so that multiple outputs can be created from a single abstract model of the application functionality are provided. Techniques that range from using simple code processors to handle common coding problems to creating more elaborate and complex generators that maintain entire application tiers are covered. Topics such as building database access, user interface, remote procedure, test cases,

and business logic code are also addressed, as is code for other system functions. Although code generation is an engineering technique, it also has an impact on engineering teams and management, an aspect of code generation that is covered in depth in this resource.

Ansible: Up and Running Packt Publishing Ltd

Among the many configuration management tools available, Ansible has some distinct advantages—it's minimal in nature, you don't need to install anything on your nodes, and it has an easy learning curve. This practical guide shows you how to be productive with this tool quickly, whether you're a developer deploying code to production or a system administrator looking for a

better automation solution. Author Lorin Hochstein shows you how to write playbooks (Ansible's configuration management scripts), manage remote servers, and explore the tool's real power: built-in declarative modules. You'll discover that Ansible has the functionality you need and the simplicity you desire. Understand how Ansible differs from other configuration management systems Use the YAML file format to write your own playbooks Learn Ansible's support for variables and facts Work with a complete example to deploy a non-trivial application Use roles to simplify and reuse playbooks Make playbooks run faster with ssh multiplexing, pipelining, and parallelism Deploy applications to Amazon EC2 and other cloud platforms Use Ansible to

create Docker images and deploy Docker containers

Kubernetes in Action Packt Publishing Ltd

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.

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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](#) "O'Reilly Media, Inc."
OpenStack Trove is your step-by-step guide to set up and run a secure and scalable cloud Database as a Service

(DBaaS) solution. The book shows you how to set up and configure the Trove DBaaS framework, use prepackaged or custom database implementations, and provision and operate a variety of databases—including MySQL, PostgreSQL, MongoDB, Cassandra, and Redis—in development and production environments. Authors Amrith Kumar and Douglas Shelley, both active technical contributors to the Trove project, describe common deployment scenarios such as single-node database instances and walk you through the setup, configuration, and ongoing management of complex database topics like replication, clustering, and high availability. The book provides detailed descriptions of how Trove works and gives you an in-depth understanding

of its architecture. It also shows you how to avoid common errors and debug and troubleshoot Trove installations, and perform common tasks such as:

Cloud Computing "O'Reilly Media, Inc." Concepts of Biology is designed for the typical introductory biology course for nonmajors, covering standard scope and sequence requirements. The text includes interesting applications and conveys the major themes of biology, with content that is meaningful and easy to understand. The book is designed to demonstrate biology concepts and to promote scientific literacy.

Introduction to Business Simon and Schuster

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.

U.S. History Simon and Schuster Summary Go from zero to production readiness with Docker in 22 bite-sized lessons! Learn Docker in a Month of Lunches is an accessible task-focused guide to Docker on Linux, Windows, or Mac systems. In it, you'll learn practical Docker skills to help you tackle the challenges of modern IT, from cloud migration and microservices to handling legacy systems. There's no excessive theory or niche-use cases—just a quick-and-easy guide to the essentials of Docker you'll use every day. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology The idea behind Docker is simple: package applications in

lightweight virtual containers that can be easily installed. The results of this simple idea are huge! Docker makes it possible to manage applications without creating custom infrastructures. Free, open source, and battle-tested, Docker has quickly become must-know technology for developers and administrators. About the book *Learn Docker in a Month of Lunches* introduces Docker concepts through a series of brief hands-on lessons. Following a learning path perfected by author Elton Stoneman, you'll run containers by chapter 2 and package applications by chapter 3. Each lesson teaches a practical skill you can practice on Windows, macOS, and Linux systems. By the end of the month you'll know how to containerize and run any kind of application with Docker. What's

inside Package applications to run in containers Put containers into production Build optimized Docker images Run containerized apps at scale About the reader For IT professionals. No previous Docker experience required. About the author Elton Stoneman is a consultant, a former architect at Docker, a Microsoft MVP, and a Pluralsight author. Table of Contents PART 1 - UNDERSTANDING DOCKER CONTAINERS AND IMAGES 1. Before you begin 2. Understanding Docker and running Hello World 3. Building your own Docker images 4. Packaging applications from source code into Docker Images 5. Sharing images with Docker Hub and other registries 6. Using Docker volumes for persistent storage PART 2 - RUNNING DISTRIBUTED APPLICATIONS IN CONTAINERS 7.

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PRODUCTION 17. Optimizing your Docker images for size, speed, and security 18. Application configuration management in containers 19. Writing and managing application logs with Docker 20. Controlling HTTP traffic to containers with a reverse proxy 21. Asynchronous communication with a message queue 22. Never the end *Learning OpenStack* Springer Nature Black & white print. American Government 3e aligns with the topics and objectives of many government courses. Faculty involved in the project have endeavored to make government workings, issues, debates, and impacts meaningful and memorable to students while maintaining the conceptual coverage and rigor inherent in the subject. With this objective in mind, the

content of this textbook has been developed and arranged to provide a logical progression from the fundamental principles of institutional design at the founding, to avenues of political participation, to thorough coverage of the political structures that constitute American government. The book builds upon what students have already learned and emphasizes connections between topics as well as between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses, future careers, and as engaged citizens. In order to help students understand the ways that government, society, and individuals interconnect, the revision includes more

examples and details regarding the lived experiences of diverse groups and communities within the United States. The authors and reviewers sought to strike a balance between confronting the negative and harmful elements of American government, history, and current events, while demonstrating progress in overcoming them. In doing so, the approach seeks to provide instructors with ample opportunities to open discussions, extend and update concepts, and drive deeper engagement.

OpenShift in Action CRC Press

If you are an OpenStack-based cloud operator with experience in OpenStack Compute and nova-network but are new to Neutron networking, then this book is for you. Some networking experience is recommended, and a physical network

infrastructure is required to provide connectivity to instances and other network resources configured in the book.

Kubernetes in Action, Second Edition
"O'Reilly Media, Inc."

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.

Learning OpenStack Networking (Neutron)

Cloud Computing: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being

deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. - Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems - Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud

based system for practical use of computing clouds along with an in-depth discussion of several projects - Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-scale distributed computing
OpenStack Operations Guide Newnes
This book is a new contribution aiming to give some last research findings in the field of optimization and computing. This work is in the same field target than our two previous books published: “Recent Developments in Metaheuristics” and “Metaheuristics for Production Systems”, books in Springer Series in Operations Research/Computer Science Interfaces. The challenge with this work is to gather the main contribution in three fields,

optimization technique for production decision, general development for optimization and computing method and wider spread applications. The number of researches dealing with decision maker tool and optimization method grows very quickly these last years and in a large number of fields. We may be able to read nice and worthy works from research developed in chemical, mechanical, computing, automotive and many other fields.

Designing Social Interfaces Simon and Schuster

Leverage the best SDN technologies for your OpenStack-based cloud infrastructure About This Book Learn how to leverage critical SDN technologies for OpenStack Networking APIs via plugins and drivers Champion

the skills of achieving complete SDN with OpenStack with specific use cases and capabilities only covered in this title Discover exactly how you could implement cost-effective OpenStack SDN integration for your organization Who This Book Is For Administrators, and cloud operators who would like to implement Software Defined Networking on OpenStack clouds. Some prior experience of network infrastructure and networking concepts is assumed. What You Will Learn Understand how OVS is used for Overlay networks Get familiar with SDN Controllers with Architectural details and functionalities Create core ODL services and understand how OpenDaylight integrates with OpenStack to provide SDN capabilities Understand OpenContrail architecture and how it

supports key SDN functionality such as Service Function Chaining (SFC) along with OpenStack Explore Open Network Operating System (ONOS) – a carrier grade SDN platform embraced by the biggest telecom service providers. Learn about upcoming SDN technologies in OpenStack such as Dragonflow and OVN. In Detail Networking is one of the pillars of OpenStack and OpenStack Networking are designed to support programmability and Software-Defined Networks. OpenStack Networking has been evolving from simple APIs and functionality in Quantum to more complex capabilities in Neutron. Armed with the basic knowledge, this book will help the readers to explore popular SDN technologies, namely, OpenDaylight (ODL), OpenContrail, Open Network

Operating System (ONOS) and Open Virtual Network (OVN). The first couple of chapters will provide an overview of OpenStack Networking and SDN in general. Thereafter a set of chapters are devoted to OpenDaylight (ODL), OpenContrail and their integration with OpenStack Networking. The book then introduces you to Open Network Operating System (ONOS) which is fast becoming a carrier grade SDN platform. We will conclude the book with overview of upcoming SDN projects within OpenStack namely OVN and Dragonflow. By the end of the book, the readers will be familiar with SDN technologies and know how they can be leveraged in an OpenStack based cloud. Style and approach A hands-on practical tutorial through use cases and examples for

Software Defined Networking with
OpenStack.