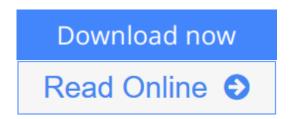# OpenStack Networking Cookbook

By Sriram Subramanian, Chandan Dutta Chowdhury

OpenStack Networking Cookbook By Sriram Subramanian, Chandan Dutta Chowdhury

Harness the power of OpenStack Networking for public and private clouds using 90 hands-on recipes

About This Book

- Build and manage virtual switching, routing, and firewall-based networks in OpenStack using Neutron
- Develop plugins and drivers for Neutron to enhance the built-in networking capabilities
- Monitor and automate OpenStack networks using tools like Ceilometer and Heat

Who This Book Is For

This book is aimed at network and system administrators who want to deploy and manage OpenStack-based cloud and IT infrastructure. If you have basic knowledge of OpenStack and virtualization, this book will help you leverage the rich functionality of OpenStack Networking in your cloud deployments.

What You Will Learn

- Operate OpenStack Networking for public and private clouds
- Configure advanced routing services for your workloads
- Secure data traffic using firewall-as-a-service capabilities of OpenStack
- Discover how to leverage VXLAN to implement SDN in your OpenStack cloud
- Monitor the virtual networks using Ceilometer
- Develop plugins to enhance and customize OpenStack Networking
- Provide HA and VPN connectivity for your virtual machines
- Troubleshoot and solve common problems with OpenStack Networking

In Detail

Networking in OpenStack has evolved from Nova Network to Neutron. This has

resulted in a rich suite of networking services available to OpenStack users and administrators. Advanced services such as routers, firewall, and load balancers use building blocks such as network and subnets. Recent improvements support powerful customization using plugins. The evolution of Neutron continues as it integrates with tools like Ceilometer and Heat.

This book will explore the built-in capabilities of Neutron to effectively deploy cloud solutions. You will begin with the most fundamental constructs of OpenStack Networking for switching and routing. You will then learn how to provide your tenants with services like firewalls and load-balancers. The step-by-step recipes will help you configure and troubleshoot networking problems in your cloud. This book will also introduce you to advanced topics like Ceilometer, Heat, and other upcoming tools in OpenStack

Style and approach

The book is full of step-by-step recipes to configure and manage the networking aspects of your OpenStack cloud. In addition to covering basic configuration involved in OpenStack Networking, the books also shares various troubleshooting tips and techniques. As much as possible the book uses OpenStack dashboard (Horizon) to help the user get a feel of real OpenStack Networking

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Editorial Review

About the Author

Sriram Subramanian

Sriram Subramanian is an experienced professional with over 18 years of experience in building networking and network management products. Since 2011, he has been working with Juniper Networks leading engineering teams responsible for OpenStack Neutron plugins, VMware integration, and Network management products. He is a technologist with a passion for virtualization and cloud networking. He blogs regularly at http://www.innervoice.in/blogs and loves experimenting with new technologies and programming.

Chandan Dutta Chowdhury

Chandan Dutta Chowdhury is a tech lead at Juniper Networks Pvt. Ltd. working on OpenStack Neutron plugins. He has over 11 years of experience in the deployment of Linux-based solutions. In the past, he has been involved in developing Linux-based clustering and deployment solutions. He has contributed to setting up and maintaining a private cloud solution in Juniper Networks. He loves to explore technology and writes a blog at https://chandanduttachowdhury.wordpress.com.

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