Learning Docker Networking

Rajdeep Dua, Vaibhav Kohli, Santosh Kumar Konduri

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Key Features

- Set up, configure, and monitor a virtual network of containers using a bridge network and virtual switches
- Master the skill of networking Docker Containers using frameworks such as Kubernetes, Docker Swarm, and Mesosphere
- Acquire hands-on experience through practical examples of Docker networking spanning multiple containers, over multiple hosts, clubbed with various frameworks

Book Description

Docker is a Linux container implementation that enables the creation of light weight portable development and production environments. These environments can be updated incrementally. Docker achieves this by leveraging containment principles like cgroups and Linux namespaces along with Overlay filesystem based portable images. Docker provides the networking primitives that allow administrators to specify how different containers network with each application and connect each of its components, then distribute them across a large number of servers and ensure coordination between them irrespective of the host or VM they are running in.

This book will show you how to create, deploy, and manage a virtual network for connecting containers spanning single or multiple hosts.

What you will learn

- Get to know the basics of networking and see how Docker networking works
- Expose the strengths and weaknesses of the current Docker network implementation and third party landscape
- Understand Docker networking spanning multiple containers over multiple hosts through practical examples
- Observe the pitfalls of Docker networking and how to overcome them
- Learn how Docker networking works for Docker Swarm and Kubernetes
- Configure Networking using Docker's container network model (CNM)
- Explore OpenvSwitch to connect contain

About the Author

Rajdeep Dua has over 16 years of experience in distributed systems. He has worked in R&D and Developer Relation roles at Microsoft, Google, VMware, and Salesforce.com. He has exposure to multiple cloud platforms like Google App Engine, Heroku, Force.com, vSphere, and Google Compute Engine.

Rajdeep has been working on Docker and related container technologies for more than two years now. He did his MBA in IT from IIM Lucknow in the year 2000.

Vaibhav Kohli has around 3 years of working experience in the research and development department of VMware, and he has been teaching computer engineering for a year at the esteemed Mumbai University. He

has published many research papers and filed three patents from VMware in the container domain. He has also conducted workshops in various companies and meetups on container technology (Docker) and Kubernetes.

Santosh Kumar Konduri has around 5 years of IT experience. He is an expert OpenStack administrator with 3 years of experience.

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