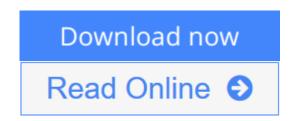# Native Docker Clustering with Swarm

By Fabrizio Soppelsa, Chanwit Kaewkasi

Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi

Key Features

- Get to grips with Docker Swarm, one of the key components of the Docker ecosystem.
- Optimize Swarm and SwarmKit features for scaling massive applications through containers.
- Learn about Docker's scheduling tricks, high availability, security, and platform scalability.

Book Description

Docker Swarm serves as one of the crucial components of the Docker ecosystem and offers a native solution for you to orchestrate containers. It's turning out to be one of the preferred choices for Docker clustering thanks to its recent improvements.

This book covers Swarm, Swarm Mode, and SwarmKit. It gives you a guided tour on how Swarm works and how to work with Swarm. It describes how to set up local test installations and then moves to huge distributed infrastructures. You will be shown how Swarm works internally, what's new in Swarmkit, how to automate big Swarm deployments, and how to configure and operate a Swarm cluster on the public and private cloud.

This book will teach you how to meet the challenge of deploying massive production-ready applications and a huge number of containers on Swarm. You'll also cover advanced topics that include volumes, scheduling, a Libnetwork deep dive, security, and platform scalability.

What you will learn

- Create and manage Swarm Mode clusters of any size
- Get a backstage view of the biggest Swarms ever built : Swarm2k and Swarm3k, with their 2,300 and 4,700 nodes
- Discovery mechanisms and Raft
- Deploy your containerized app on Swarm

- Administer Swarm clusters on AWS, Azure, and DigitalOcean
- Integrate Flocker volumes with Swarm
- Create and manage Swarms on OpenStack Magnum

About the Author

Fabrizio Soppelsa works as an Escalations Engineer for Mirantis Inc., the OpenStack company. Docker activist and advocate since Docker 0.3 and author of several articles on the Docker tools in three languages, he is also a concrete contributor to the projects, especially Machine. He currently lives in Moscow, Russia, where he is the Docker Meetup organizer with his spider Mosha.

I would like to thank ClusterHQ folks for their help on Flocker, especially, Ryan Wallner. the Yandex team and Denis Kutin for having given me a free OpenStack lab on which I could easily access. Mirantis for creating the (I think) best OpenStack distribution. The Docker team and the Docker community, for all the fun.

Chanwit Kaewkasi is an Assistant Professor at the School of Computer Engineering, Suranaree University of Technology, Thailand. Chanwit started contributing to the Docker Swarm project since 0.1 where he co-designed and implemented the strategy filters, the ZooKeeper discovery, and other features. He currently serves as Docker Swarm Maintainer and Docker Captain.

I'd like to thank my wife, Pitchaya, for her encouragement and best support to everything I'm working on, including this book.

Special thanks to the Docker Engineering team for their great software, Suranaree University of Technlogy for being my great workplace, and my parents for their support and lastly, Fabrizio for inviting me to co-author this great book.

Table of Contents

1. Welcome to Docker Swarm
2. Discover the Discovery Services
3. Meeting Docker Swarm Mode
4. Creating a Production-Grade Swarm
5. Administer a Swarm Cluster
6. Deploy Real Applications on Swarm
7. Scaling Up Your Platform
8. Exploring Additional Features of Swarm
9. Securing a Swarm Cluster and the Docker Software Supply Chain
10. Swarm and the Cloud
11. What is next?

⬇ **Download** Native Docker Clustering with Swarm ...pdf

Native Docker Clustering with Swarm

By Fabrizio Soppelsa, Chanwit Kaewkasi

Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi

Key Features

- Get to grips with Docker Swarm, one of the key components of the Docker ecosystem.
- Optimize Swarm and SwarmKit features for scaling massive applications through containers.
- Learn about Docker's scheduling tricks, high availability, security, and platform scalability.

Book Description

Docker Swarm serves as one of the crucial components of the Docker ecosystem and offers a native solution for you to orchestrate containers. It's turning out to be one of the preferred choices for Docker clustering thanks to its recent improvements.

This book covers Swarm, Swarm Mode, and SwarmKit. It gives you a guided tour on how Swarm works and how to work with Swarm. It describes how to set up local test installations and then moves to huge distributed infrastructures. You will be shown how Swarm works internally, what's new in Swarmkit, how to automate big Swarm deployments, and how to configure and operate a Swarm cluster on the public and private cloud.

This book will teach you how to meet the challenge of deploying massive production-ready applications and a huge number of containers on Swarm. You'll also cover advanced topics that include volumes, scheduling, a Libnetwork deep dive, security, and platform scalability.

What you will learn

- Create and manage Swarm Mode clusters of any size
- Get a backstage view of the biggest Swarms ever built : Swarm2k and Swarm3k, with their 2,300 and 4,700 nodes
- Discovery mechanisms and Raft
- Deploy your containerized app on Swarm
- Administer Swarm clusters on AWS, Azure, and DigitalOcean
- Integrate Flocker volumes with Swarm
- Create and manage Swarms on OpenStack Magnum

About the Author

Fabrizio Soppelsa works as an Escalations Engineer for Mirantis Inc., the OpenStack company. Docker activist and advocate since Docker 0.3 and author of several articles on the Docker tools in three languages, he is also a concrete contributor to the projects, especially Machine. He currently lives in Moscow, Russia, where he is the Docker Meetup organizer with his spider Mosha.

I would like to thank ClusterHQ folks for their help on Flocker, especially, Ryan Wallner. the Yandex team and Denis Kutin for having given me a free OpenStack lab on which I could easily access. Mirantis for creating the (I think) best OpenStack distribution. The Docker team and the Docker community, for all the

fun.

Chanwit Kaewkasi is an Assistant Professor at the School of Computer Engineering, Suranaree University of Technology, Thailand. Chanwit started contributing to the Docker Swarm project since 0.1 where he co-designed and implemented the strategy filters, the ZooKeeper discovery, and other features. He currently serves as Docker Swarm Maintainer and Docker Captain.

I'd like to thank my wife, Pitchaya, for her encouragement and best support to everything I'm working on, including this book.

Special thanks to the Docker Engineering team for their great software, Suranaree University of Technlogy for being my great workplace, and my parents for their support and lastly, Fabrizio for inviting me to co-author this great book.

Table of Contents

1. Welcome to Docker Swarm
2. Discover the Discovery Services
3. Meeting Docker Swarm Mode
4. Creating a Production-Grade Swarm
5. Administer a Swarm Cluster
6. Deploy Real Applications on Swarm
7. Scaling Up Your Platform
8. Exploring Additional Features of Swarm
9. Securing a Swarm Cluster and the Docker Software Supply Chain
10. Swarm and the Cloud
11. What is next?

Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi Bibliography

- Rank: #1106919 in eBooks
- Published on: 2016-12-20
- Released on: 2016-12-20
- Format: Kindle eBook

⬇ **Download** Native Docker Clustering with Swarm ...pdf

🗎 **Read Online** Native Docker Clustering with Swarm ...pdf

Download and Read Free Online Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi

Editorial Review

About the Author
Fabrizio Soppelsa works as an Escalations Engineer for Mirantis Inc., the OpenStack company. Docker activist and advocate since Docker 0.3 and author of several articles on the Docker tools in three languages, he is also a concrete contributor to the projects, especially Machine. He currently lives in Moscow, Russia, where he is the Docker Meetup organizer with his spider Mosha.

Users Review

From reader reviews:

Sheila Gallagher:

Inside other case, little individuals like to read book Native Docker Clustering with Swarm. You can choose the best book if you like reading a book. Given that we know about how is important the book Native Docker Clustering with Swarm. You can add knowledge and of course you can around the world by a book. Absolutely right, due to the fact from book you can recognize everything! From your country until foreign or abroad you will end up known. About simple matter until wonderful thing it is possible to know that. In this era, we can easily open a book or maybe searching by internet gadget. It is called e-book. You may use it when you feel fed up to go to the library. Let's study.

Arlene Martin:

It is possible to spend your free time to learn this book this book. This Native Docker Clustering with Swarm is simple to develop you can read it in the playground, in the beach, train and soon. If you did not have got much space to bring the actual printed book, you can buy typically the e-book. It is make you simpler to read it. You can save typically the book in your smart phone. Consequently there are a lot of benefits that you will get when one buys this book.

Karen Martinez:

On this era which is the greater man or woman or who has ability in doing something more are more special than other. Do you want to become considered one of it? It is just simple solution to have that. What you have to do is just spending your time very little but quite enough to enjoy a look at some books. One of several books in the top record in your reading list is Native Docker Clustering with Swarm. This book which is qualified as The Hungry Hills can get you closer in turning out to be precious person. By looking way up and review this publication you can get many advantages.

Donna Nichols:

As we know that book is very important thing to add our information for everything. By a reserve we can know everything you want. A book is a pair of written, printed, illustrated as well as blank sheet. Every year has been exactly added. This reserve Native Docker Clustering with Swarm was filled with regards to science. Spend your free time to add your knowledge about your scientific disciplines competence. Some people has different feel when they reading the book. If you know how big benefit of a book, you can sense enjoy to read a guide. In the modern era like now, many ways to get book which you wanted.

Download and Read Online Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi #6UE5TBD97JR

Read Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi for online ebook

Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi books to read online.

Online Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi ebook PDF download

Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi Doc

Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi Mobipocket

Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi EPub

6UE5TBD97JR: Native Docker Clustering with Swarm By Fabrizio Soppelsa, Chanwit Kaewkasi