

---

# Docker Networking and Service Discovery

*by Michael Hausenblas*

Beijing • Boston • Farnham • Sebastopol • Tokyo

**O'REILLY®**

---

# Table of Contents

<b>Preface.....</b>	<b>v</b>
<b>1. Motivation.....</b>	<b>9</b>
Go Cattle!	10
The Docker Networking and Service Discovery Stack	10
<b>2. Containers and Networking.....</b>	<b>13</b>
Docker Networking 101	15
Docker Multi-Host Networking	20
<b>3. Containers and Service Discovery.....</b>	<b>25</b>
The Challenge	25
Technologies	27
Wrapping It Up	32
<b>4. Containers and Orchestration.....</b>	<b>35</b>
What Does A Scheduler Actually Do?	36
Vanilla Docker and Docker Swarm	37
Kubernetes	39
Apache Mesos	41
Hashicorp Nomad	43
Which One Should I Use?	44
<b>5. And now?.....</b>	<b>49</b>
References	49
Acknowledgements	49