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Docker In Practice

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FOREWORD BY Ben Firshman

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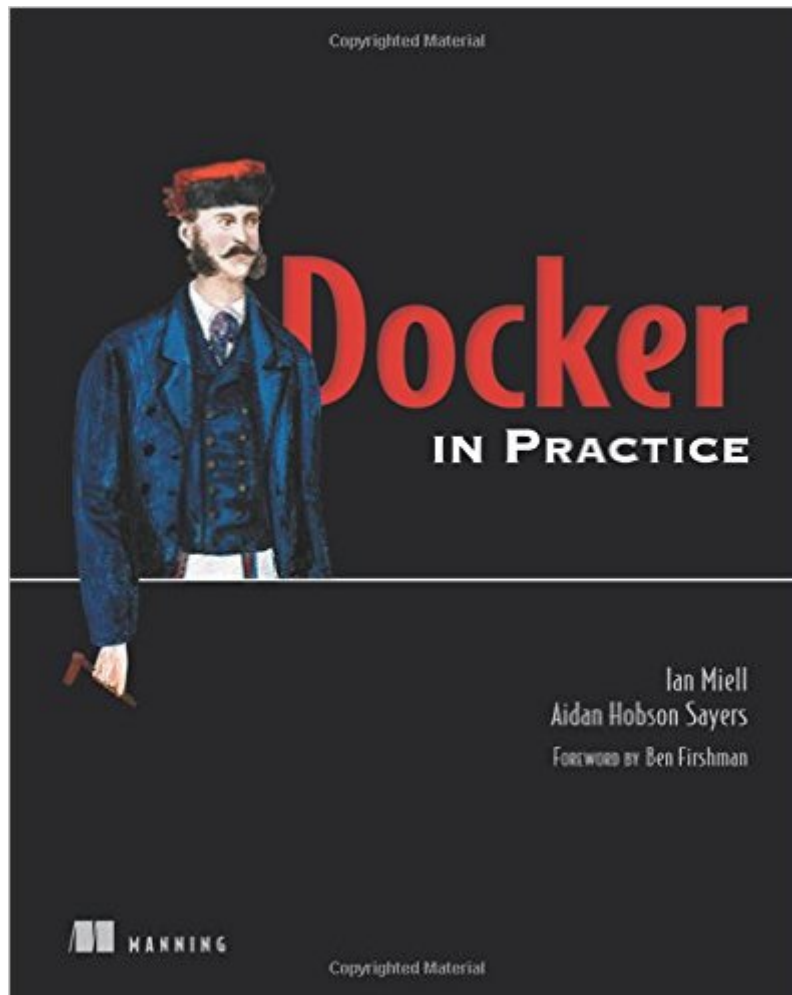
Synopsis

Summary An open source container system, Docker makes deploying applications painless and flexible. Docker is powerful and simple to use, and it makes life easier for developers and administrators alike providing shorter build times, fewer production bugs, and effortless application roll-out. About the Book Docker in Practice is a hands-on guide that covers 101 specific techniques you can use to get the most out of Docker. Following a cookbook-style Problem/Solution/Discussion format, this practical handbook gives you instantly useful solutions for important problems like effortless server maintenance and configuration, deploying microservices, creating safe environments for experimentation, and much more. As you move through this book, youâ ™ll advance from basics to Docker best practices like using it with your Continuous Integration process, automating complex container creation with Chef, and orchestration with Kubernetes. Whatâ ™s InsideSpeeding up your DevOps pipelineCheaply replacing VMsStreamlining your cloud workflowUsing the Docker HubNavigating the Docker ecosystem About the Reader For anyone interested in real-world Docker. About the Authors Ian Miell and Aidan Hobson Sayers have contributed to Docker and have extensive experience building and maintaining commercial Docker-based infrastructures in large-scale environments. Table of ContentsPART 1: DOCKER FUNDAMENTALSDISCOVERING DOCKERUNDERSTANDING DOCKER - INSIDE THE ENGINE ROOMPART 2: DOCKER AND DEVELOPMENTUSING DOCKER AS A LIGHTWEIGHT VIRTUAL MACHINEDAY-TO-DAY DOCKERCONFIGURATION MANAGEMENT - GETTING YOUR HOUSE IN ORDERPART 3: DOCKER AND DEVOPSCONTINUOUS INTEGRATION: SPEEDING UP YOUR DEVELOPMENT PIPELINECONTINUOUS DELIVERY: A PERFECT FIT FOR DOCKER PRINCIPLESNETWORK SIMULATION: REALISTIC ENVIRONMENT TESTING WITHOUT THE PAINPART 4: DOCKER IN PRODUCTIONCONTAINER ORCHESTRATION: MANAGING MULTIPLE DOCKER CONTAINERSDOCKER AND SECURITYPLAIN SAILING - DOCKER IN PRODUCTION AND OPERATIONAL CONSIDERATIONSDOCKER IN PRODUCTION: DEALING WITH CHALLENGES

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Customer Reviews

There are by now quite a few introductory books on Docker, but they mostly suffer from the same faults: they cover only the simple things. Doing simple things with Docker is very simple, and hardly needs a book-length explanation, but as soon as you try to do something non-trivial with Docker, things get complicated very quickly. "Docker in Practice" is completely unafraid of this, and dives straight into solving real-world problems with containers: transitioning from VMs, breaking down a system into microservices, persisting volumes, advanced image building techniques, continuous integration and Selenium testing, etcd and confd, network simulation, security, monitoring, performance, and debugging.It also addresses what I think is the biggest issue with Docker in production today: configuration management and orchestration. Many people are still treating Docker as a 'lite' alternative to full-fat CM tools: Puppet, Chef, and so on, but they're in for an unpleasant surprise as the disease of 'container sprawl' sets in: fragile manual setups frozen as hard-to-maintain images, rapidly getting out of sync, with no central infrastructure-as-code repository, change control, or versioning. Full marks to the authors for tackling this head on, with detailed worked examples of managing Dockerfiles with traditional Unix tools such as Perl and make, Docker-native tools like Docker Compose, Helios, Swarm, and Kubernetes, and 'pure' CM tools such as Chef Solo.The Docker ecosystem is fluid and developing extremely fast; accordingly, the authors have wisely decided to make their survey of tools broad but shallow, giving just enough information in each recipe to get you up and running with a particular technique, but not so much detail that the book would rapidly become out of date. Finally, they are refreshingly honest about the bugs and shortcomings of Docker and associated tools, and provide practical advice and tips for actually getting stuff to work.For me, this is the one essential Docker book.

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