



Learning Docker

By Pethuru Raj, Jeeva S. Chelladurai, Vinod Singh



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Docker is a next-generation platform for simplifying application containerization life-cycle. Docker allows you to create a robust and resilient environment in which you can generate portable, composable, scalable, and stable application containers.

This book is a step-by-step guide that will walk you through the various features of Docker from Docker software installation to the impenetrable security of containers. The book starts off by elucidating the installation procedure for Docker and a few troubleshooting techniques. You will be introduced to the process of downloading Docker images and running them as containers. You'll learn how to run containers as a service (CaaS) and also discover how to share data among containers. Later on, you'll explore how to establish the link between containers and orchestrate containers using Docker Compose. You will also come across relevant details about application testing inside a container. You will discover how to debug a container using the docker exec command and the nsenter tool. Finally, you will learn how to secure your containers with SELinux and other proven methods.

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Editorial Review

About the Author

Pethuru Raj

Pethuru Raj, PhD, works as a cloud architect at the IBM Global Cloud Center of Excellence (CoE) in Bangalore, India. He completed his CSIR-sponsored PhD degree at Anna University, Chennai, and continued his UGC-sponsored postdoctoral research at the Department of Computer Science and Automation of IISc, Bangalore. Thereafter, he was granted a couple of international research fellowships (JSPS and JST) to work as a research scientist for 3 years at two leading Japanese universities. Pethuru has contributed to a number of high-quality technology books that are edited by internationally acclaimed professionals. In association with another IBMer, he has recently submitted the complete manuscript for a book called Smart Cities: the Enabling Technologies and Tools, to be published by the CRC Press in the USA in May 2015. He has collaborated with a few established authors to publish a book called High-Performance Big Data Analytics, which will be published by Springer-Verlag, UK, in 2015. He maintains an IT portal at <http://www.peterindia.net>, and his LinkedIn profile can be found at <https://www.linkedin.com/in/peterindia>.

Jeeva S. Chelladhurai

Jeeva S. Chelladhurai has been working as a technical project manager at the IBM Global Cloud Center of Excellence (CoE) in India for the last 8 years. He has more than 18 years of experience in the IT industry. In various capacities, he has technically managed and mentored diverse teams across the globe in envisaging and building pioneering telecommunication products. He specializes in cloud solution delivery, with a focus on data center optimization, software-defined environments (SDEs), and distributed application development, deployment, and delivery using the newest Docker technology. Jeeva is also a strong proponent of Agile methodologies, DevOps, and IT automation. He holds a master's degree in computer science from Manonmaniam Sundaranar University and a graduation certificate in project management from Boston University. He has been instrumental in crafting reusable assets for IBM solution architects and consultants in Docker-inspired containerization technology.

Vinod Singh

Vinod Singh is a lead architect for IBM's cloud computing offerings. He has more than 18 years of experience in the cloud computing, networking, and data communication domains. Currently, he works for IBM's cloud application services and partner marketplace offerings. Vinod has worked on architecting, deploying, and running IBM's PaaS offering (BlueMix) on the SoftLayer infrastructure cloud. He also provides consultancy and advisory services to clients across the globe on the adoption of cloud technologies. He is currently focusing on various applications and services on the IBM Marketplace/BlueMix/SoftLayer platform. He is a graduate engineer from the National Institute of Technology, Jaipur, and completed his master's degree at BITS, Pilani.

Users Review

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