Docker: Up & Running: Shipping Reliable Containers in Production

By Karl Matthias, Sean P. Kane

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Docker is quickly changing the way that organizations are deploying software at scale. But understanding how Linux containers fit into your workflow—and getting the integration details right—are not trivial tasks. With this practical guide, you'll learn how to use Docker to package your applications with all of their dependencies, and then test, ship, scale, and support your containers in production.

Two Lead Site Reliability Engineers at New Relic share much of what they have learned from using Docker in production since shortly after its initial release. Their goal is to help you reap the benefits of this technology while avoiding the many setbacks they experienced.

- Learn how Docker simplifies dependency management and deployment workflow for your applications
- Start working with Docker images, containers, and command line tools
- Use practical techniques to deploy and test Docker-based Linux containers in production
- Debug containers by understanding their composition and internal processes
- Deploy production containers at scale inside your data center or cloud environment
- Explore advanced Docker topics, including deployment tools, networking, orchestration, security, and configuration

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Editorial Review

About the Author

Karl Matthias is a Principal Systems Engineer with Nitro Software. He has worked as a developer, systems administrator, and network engineer for everything from startups to Fortune 500 companies. After a few years at startups in Germany and the UK followed by a stint at home in Portland, Oregon, he and his family recently landed in Dublin, Ireland. When not devoting his time to things digital, he can be found herding his two daughters, shooting film with vintage cameras, or riding one of his bicycles.

Sean Kane is currently a Lead Site Reliability Engineer for the Shared Infrastructure Team at New Relic. He has had a long career in production operations, with many diverse roles, in a broad range of industries. He has spoken about subjects like alerting fatigue and hardware automation at various meet-ups and technical conferences, including Velocity.Sean spent most of his youth living overseas, and exploring what life has to offer, including graduating from the Ringling Brother & Barnum & Bailey Clown College, completing 2 summer internships with the US Central Intelligence Agency, and building the very first web site in the state of Alaska. He gratefully lives in the US Pacific Northwest with his wife and children and still loves traveling and still photography.

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