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The Fundamentals of Telemetry Pipelines

And How They Are Used to Maintain
Application Performance

Russ Miles

REPORT

The Fundamentals of Telemetry Pipelines

*And How They Are Used to
Maintain Application Performance*

Russ Miles

Beijing • Boston • Farnham • Sebastopol • Tokyo

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The Fundamentals of Telemetry Pipelines

by Russ Miles

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Preface

This report is for DevOps, site reliability engineers, and security engineers struggling under a promising deluge of telemetry data. High-quality metrics, traces, and logs are all essential to observing and working with modern systems but, when applied to a modern, complex cloud-based system, the result can be a confusing mess.

Telemetry pipelines give you the tools to navigate this mess, providing the ways and means to extract so much more from your data. In this report, you'll learn what the promise of telemetry pipelines is and how it feels to be able to use telemetry pipeline tools to master your flood of telemetry data. From there, we dive into the key concepts you'll need when you build your own telemetry pipelines and look at some real-world examples. By the end of this report, you'll understand how investing in your own telemetry pipelines can help you go even further, implementing valuable business cases, such as compliance and cost management.