

# Preface

With an increasing interest in leveraging cloud infrastructure around the world, the AWS cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale cloud applications through a user-friendly interface. The variety of features available within AWS can reduce overall infrastructure costs and accelerate the development process for both large enterprises and start-ups alike.

*Learning AWS* covers basic, intermediate, and advanced features and concepts as they relate to designing, developing, and deploying scalable, highly available, and secure applications on the AWS platform. By sequentially working through the steps in each chapter, you will quickly master the features of AWS to create an enterprise-grade cloud application. We use a three-tiered services-oriented sample application for extensive hands-on exercises.

This book will not only teach you about the AWS components, but you will gain valuable information about key concepts such as multi-tenancy, auto scaling, planning, implementing application development environments, addressing application security concerns, and so on. You will also learn how these concepts relate to cost effective architectural decisions while designing scalable, highly available, and secure AWS cloud applications.

A step-by-step approach to cloud application design and implementation is explained in a conversational and easy-to-follow style. Each topic is explained sequentially in the process of creating an AWS cloud application. Detailed explanations of the basic and advanced features of AWS that address the needs of readers with a wide range of real-world experiences are also included. Expert programmers and architects will appreciate the focus on the *practice* rather than the *theory*.