Learning AWS

By Aurobindo Sarkar, Amit Shah

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Design, build, and deploy responsive applications using AWS cloud components

About This Book

- Build scalable and highly available real-time applications
- Make cost-effective architectural decisions by implementing your product's functional and non-functional requirements
- Develop your skills with hands-on exercises using a three-tiered service oriented application as an example

Who This Book Is For

This book is targeted at expert programmers and architects wanting to learn AWS. Some familiarity with Spring, MySQL, and RESTful web services is assumed.

What You Will Learn

- Multi-tenant design approaches for SaaS applications
- Planning dev, test, staging, and production environments
- Design considerations for scalability and high-availability
- Planning for DR
- The security considerations and implementation of AWS applications
- Production deployment processes and tools
- Monitoring AWS applications using CloudWatch
- Automating infrastructure using CloudFormation

In Detail

With the increasing global interest in leveraging cloud infrastructure, AWS Cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale cloud applications. The variety of features available within AWS can reduce overall infrastructure costs and accelerate the development

process for both large enterprises and startups alike.

Beginning with basic cloud concepts, you'll learn about the various cloud services models and the design implications of multi-tenant applications. You'll then design, implement, and deploy a multi-tier, scalable, highly-available and secure application on the AWS platform. At every step, we explain the key guiding principles driving real-world production-ready application architectures. Finally, you will learn how to automate your cloud infrastructure, set up operations, application monitoring, and DevOps pipeline.

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Editorial Review

About the Author

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Aurobindo Sarkar is a consulting CTO at BYOF Studios. With a career spanning 22 plus years, he has consulted at some of the leading organizations in the U.S., the UK, and Canada. He specializes in Software as a Service product development, cloud computing, cloud economics, big data analytics, Internet of Things (IoT) platforms, and web-scale architectures. His domain expertise runs across financial services, media, mobile gaming, public and automotive sectors. Aurobindo has been actively working with technology start-ups for over 5 years now. As a member of the top leadership team at various start-ups, he has mentored several founders and CxOs, provided technology advisory services, developed cloud strategies, drawn up product roadmaps, and set up large engineering teams. Aurobindo has an MS (Computer Science) from New York University, M.Tech (Management) from Indian Institute of Science, and B.Tech (Engineering) from IIT Delhi.

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Amit Shah has a bachelor's degree in electronics. He is a senior manager at Western Outdoor Interactive. He has been programming since the early '80s with the first wave of personal computing?initially as a hobbyist and then as a professional. His areas of interest include embedded systems, Internet of Things (IoT), analog and digital hardware design, systems programming, cloud computing, and enterprise architecture. He has been working extensively in the field of cloud computing and enterprise architecture for the past 4 years.

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