

LEARNING AWS BY AUROBINDO SARKAR, AMIT SHAH



Learning AWS

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

Aurobindo Sarkar

Amit Shah

[PACKT] enterprise⁸⁸
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About the Author

Aurobindo Sarkar

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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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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Most helpful customer reviews

6 of 6 people found the following review helpful.

And yet another introduction to some of the basic services offered by AWS

By Jascha Casadio

After almost 10 years since the EC2 service was first launched, Amazon still securely controls the IaaS market, despite the number of contenders significantly increased since. This dominance resulted in legions of start-up entering the PaaS market, building their services on top of AWS, as well as in an abundance of blogs and books dedicated to it. Part of this literature covers a specific service and thus targets a small niche; other parts give instead an overview of the services or a good part of them. Learning AWS belongs in the latter category: it targets DevOps and Cloud Architects with little or no experience with the AWS and aims to teach them about the basic features of the key services, so that they can easily get started. Yea, yet another introduction to some of the services of the Amazon Web Services.

Writing a book that introduces the reader to the whole Amazon ecosystem is hard. Not because the services are hard to understand and/or their features kept secret. On the contrary, the difficulty comes from the fact that, on the one hand Amazon provides an excellent and very detailed documentation, which they often update; on the other hand, the internet and the bookstores are invaded by a horde of articles and books, respectively, that do the same. So, while the task per se is easy, it is instead very hard to provide the reader

with value that make the purchase worth it.

The very first thing that grasps the attention of the enthusiast reading the book is the presence of two kinds of images: some are very detailed and colorful, while others are very spartan and all in black and white. The former are screenshots taken from Amazon (not sure if from an ad hoc session or from the official documentation itself), while the latter are made by the author. This discrepancy definitely lowers the overall quality of the text. Plus, let's be honest: black and white is good for Casablanca. In 2015 I do expect high quality colorful images and schemas. Mainly from a book that goes for 49.99.

Up to chapter 3, the reader is slowly taken through the steps required to launch both an EC2 and an RDS instances, and a security group. Slowly here means that the reader, who is supposed to be a DevOps or a Cloud Architect, is presented with 3 pages plenty of images to teach him how to register to the AWS services, just like filling a form was that hard. The book is agreeable and friendly to read, no doubts. Still, we are told what we have been told over and over in these long 9 years: don't store sessions on the EC2 instances; create stateless applications so that they scale out; avoid single point of failures. Any Cloud Architect should know this already, despite being completely new to the Amazon Web Services.

Starting with chapter 4 the discussion moves to scalability. Again, lots of nice screenshots and black and white schemas that get DevOps, with an (over) friendly step-by-step approach, through setting up other basic services, such as ELB. This goes on until the very back cover. Another disturbing things that repeats through the book is that each and every option of every service introduced by the author is listed. Mind it, listed, not explained. Just like a reference.

Wrapping it all up, this book is not worth the purchase. It does not provide anything that Amazon does not freely give to any beginner already, including the reference to each and every option of their services. Official documentation apart, the bookstores are plenty of better and more affordable alternatives.

As usual, you can find more reviews on my personal blog: <http://books.lostinmalloc.com>. Feel free to pass by and share your thoughts!

0 of 0 people found the following review helpful.

For expert users who are however new to cloud services

By Oleg Okun

This book covers a lot of topics related to Amazon Web Services (AWS) - the leading cloud services: setting up an own AWS account, a high-level overview of the main AWS components, criteria for designing cloud applications, AWS cost model, application development environment, solutions for scalability, high availability, fault tolerance, disaster recovery, security, and deployment to live production. Due to so many topics and practical recommendations, this book could serve as a quick guide for expert users who are however new to cloud-based services. Despite the fact that many topics are not described in depth, it is still useful to have all of them under the same cover.

0 of 0 people found the following review helpful.

the chapters on optimization and security will be a great resource for any AWS user

By Shari Card

I'll preface this review by stating that I have used AWS in the distant past, but I needed to find a resource to get me up to speed on all of the new service offerings. This book did just that. The overview of the service offerings in the early chapters were clear and concise. In my opinion, the chapters on optimization and security will be a great resource for any AWS user. I like the step-by-step setup instructions for the different services. They were clearly written and easy to follow. Learning AWS will definitely become one of my go to resources.

See all 9 customer reviews...

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