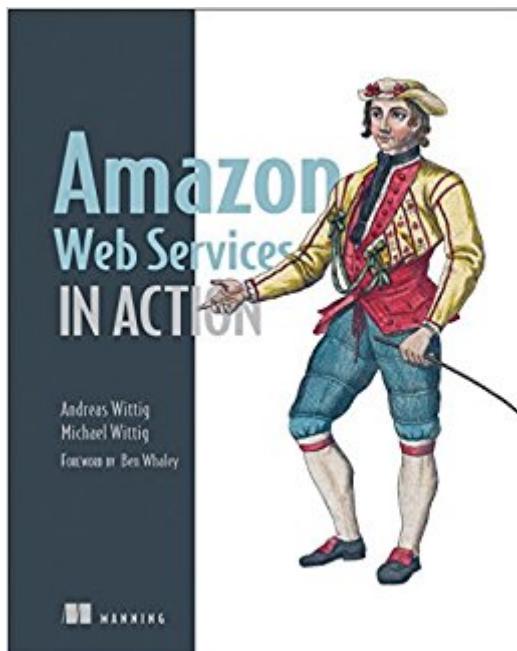


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# Web Services In Action



## Synopsis

Summary Web Services in Action introduces you to computing, storing, and networking in the AWS cloud. The book will teach you about the most important services on AWS. You will also learn about best practices regarding automation, security, high availability, and scalability. Purchase of the print book includes a free eBook in PDF, Kindle, and ePUB formats from Manning Publications. About the Technology Physical data centers require lots of equipment and take time and resources to manage. If you need a data center, but don't want to build your own, Web Services may be your solution. Whether you're analyzing real-time data, building software as a service, or running an e-commerce site, AWS offers you a reliable cloud-based platform with services that scale. All services are controllable via an API which allows you to automate your infrastructure. About the Book Web Services in Action introduces you to computing, storing, and networking in the AWS cloud. The book will teach you about the most important services on AWS. You will also learn about best practices regarding security, high availability and scalability. You'll start with a broad overview of cloud computing and AWS and learn how to spin-up servers manually and from the command line. You'll learn how to automate your infrastructure by programmatically calling the AWS API to control every part of AWS. You will be introduced to the concept of Infrastructure as Code with the help of AWS CloudFormation. You will learn about different approaches to deploy applications on AWS. You'll also learn how to secure your infrastructure by isolating networks, controlling traffic and managing access to AWS resources. Next, you'll learn options and techniques for storing your data. You will experience how to integrate AWS services into your own applications by the use of SDKs. Finally, this book teaches you how to design for high availability, fault tolerance, and scalability. What's Inside Overview of cloud concepts and patterns Manage servers on EC2 for cost-effectiveness Infrastructure automation with Infrastructure as Code (AWS CloudFormation) Deploy applications on AWS Store data on AWS: SQL, NoSQL, object storage and block storage Integrate AWS's pre-built services Architect highly available and fault tolerant systems About the Reader Written for developers and DevOps engineers moving distributed applications to the AWS platform. About the Authors Andreas Wittig and Michael Wittig are software engineers and consultants focused on AWS and web development. Table of Contents PART 1 GETTING STARTED What is Web Services? A simple example: WordPress in five minutes PART 2 BUILDING VIRTUAL INFRASTRUCTURE WITH SERVERS AND NETWORKING Using virtual servers: EC2 Programming your infrastructure: the command line, SDKs, and CloudFormation Automating deployment: CloudFormation, Elastic Beanstalk, and OpsWorks Securing your system: IAM, security groups, and VPC PART 3 STORING DATA IN THE CLOUD Storing your objects: S3 and

Glacier  
Storing your data on hard drives: EBS and instance store  
Using a relational database service: RDS  
Programming for the NoSQL database service: DynamoDB  
PART 4 ARCHITECTING ON AWS  
Achieving high availability: availability zones, auto-scaling, and CloudWatch  
Decoupling your infrastructure: ELB and SQS  
Designing for fault-tolerance  
Scaling up and down: auto-scaling and CloudWatch

## **Book Information**

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## **Customer Reviews**

Andreas Wittig migrated the complete IT infrastructure of the first Bank in Germany to AWS. He has a strong distributed systems background and started as a Java developer and was responsible for the first realtime online-banking platform written entirely in Node.js based on Websockets. He implemented DevOps into software teams to help financial industry customers create new products. Today, he runs a business with a focus on consulting and developing of AWS and web technologies. Michael Wittig was part of the team who migrated the complete IT infrastructure of the first Bank in Germany to AWS. He has a strong algorithmic trading background using AWS to analyze Terabytes of historical financial data and for realtime analytics of financial data using a wide range of technologies and programming languages. Today he runs a business with a focus on consulting and developing of AWS and web technologies together with his brother, Andreas.

Best book available on these topics.

Awesome book!! If you are ready to get your hands dirty with AWS, this is the book for you. Does a great job of helping you optimize costs, maintain flexibility and decrease downtime.

Excellent product.Excellent seller.

I am on my second reading of this fantastic book. Well written, and a thorough introduction to this service as a service. I hope to have my infrastructure in place soon. And my business soon after that.

I have been waiting for a well put together books to narratively document the more often utilized services on AWS. This book does an excellent job overviewing EC2, S3, CloudFormation and other services. There is a special emphasis on how they may be used interoperably with the fundamental goal of being failure resistant.If you are looking for an ease into using AWS, or you are an experienced user who would like to review how others recommend using the services this is an excellent book to have in your collection.

Concepts very well explained. Writing style is very easy and chapters build themselves incrementally. Happy with the purchase.

I know it is impossible to keep up with the ever changing landscape of aws or azure, but the book is missing some content I wish it had. It did have lots of good information on the basic services and well worth the read. I would recommend the book.

Good book, but took a while to read.

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