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 InsideOverview of cloud concepts and patternsManage servers on EC2 for cost-effectivenessInfrastructure automation with Infrastructure as Code (AWS CloudFormation)Deploy applications on AWSStore data on AWS: SQL, NoSQL, object storage and block storageIntegrate 's pre-built servicesArchitect highly available and fault tolerant systemsAbout the ReaderWritten for developers and DevOps engineers moving distributed applications to the AWS platform.About the AuthorsAndreas Wittig and Michael Wittig are software engineers and consultants focused on AWS and web development.Table of ContentsPART 1 GETTING STARTEDWhat is Web Services?A simple example: WordPress in five minutesPART 2 BUILDING VIRTUAL INFRASTRUCTURE WITH SERVERS AND NETWORKINGUsing virtual servers: EC2Programming your infrastructure: the command line, SDKs, and CloudFormationAutomating deployment: CloudFormation, Elastic Beanstalk, and OpsWorksSecuring your system: IAM, security groups, and VPCPART 3 STORING DATA IN THE CLOUDStoring your objects: S3 and

GlacierStoring your data on hard drives: EBS and instance storeUsing a relational database service: RDSProgramming for the NoSQL database service: DynamoDBPART 4 ARCHITECTING ON AWSAchieving high availability: availability zones, auto-scaling, and CloudWatchDecoupling your infrastructure: ELB and SQSDesigning for fault-toleranceScaling up and down: auto-scaling and CloudWatch

Book Information

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Customer Reviews

The TL;DR summary: Why do you want to read this book? Because when it comes to providing support for complex cloud applications, Web Services (AWS) has no competition. Web Services in Action will help you learn what you need to know to build and deploy your application on AWS.Do I know what I am writing about? Well, yes, as a matter of fact. For the last two years I have been writing the software for nderground (a dot net domain). nderground is a private social network that is hosted on AWS and uses a number of AWS services that are discussed in Web Services in Action.The power that AWS provides comes at a cost: an extremely steep learning curve. When you first sign up for AWS you are presented with a huge variety of services that you can use to build you application. does provide some documentation on application architecture, but it tends to be an overview. does provide a fair amount of engineering documentation, but it never seems to be sufficient.The documentation provided by follows a pattern. The main page for a service appears to have been written by marketing and describes the service as "the greatest thing since sliced bread". Then there is the engineering documentation, which is complicated and, in some cases,

incomplete. In the case of 's Simple Notification Service I had to write code to implement an SNS service before I was able to understand what it could and could not do, since the documentation was not sufficient. Web Services in Action provides a good complement to 's documentation. Writing about AWS is a huge challenge since AWS is a vast and complex topic. The start of the book provides an introduction to Web Services, security and access control.

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