

Amazon Web Services AWS LiveLessons 2nd Edition

★★★★★ [37 reviews](#)

By [Richard Jones](#)



Start

TIME TO COMPLETE:
17h 14m

LEVEL:
Beginner to advanced

TOPICS:
[Amazon Web Services \(AWS\)](#)

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More Than 17 Hours of Video Instruction

An updated edition of this video title is available. Please go to Amazon Web Services (AWS), 3rd Edition: <https://learning.oreilly.com/videos/amazon-web-services/9780137928521/>

More than 17 hours of video instruction on Amazon Web Services with coverage on cloud computing and available AWS services, as well as a guided hands-on look at using services such as EC2 (Elastic Compute Cloud), S3 (Simple Storage Service), and more.

Overview

Amazon Web Services (AWS) LiveLessons is a unique video product designed to provide a solid foundational understanding of the Amazon Web Services (AWS) infrastructure-as-a-service (IaaS) products. The course covers concepts necessary to understand cloud computing platforms, distributed computing, multi-tier architectures, virtual machines, storage, databases, analytics, high availability, and much more. This course has been designed to show just how simple and cost-effective it is to achieve a superior level of high-availability, fault-tolerance, security, and reduced operational burden in your infrastructure and applications. Detailed throughout the course are a number of use cases designed to spark your imagination and exemplify well-architected solutions within the rich and varied ecosystem that is Amazon Web Services. You can also use this video as a secondary resource to help you study for the AWS Cloud Practitioner and Solutions Architect Exams.

Since the first edition of this course, AWS has added many new services to their offerings, as well as many new features to existing services. The AWS web-based management console has also seen significant updates and improvements. In this second edition, many of those new services and features are covered, and all new diagrams have been provided to more accurately represent those you will see in a real-world scenario. The new edition also includes all new demos to

account for changes in the AWS management console user interface.

Amazon Web Services (AWS) LiveLessons contains 14 independent video lessons totaling almost 13 hours of instruction. The videos contain in-depth instruction using live demos, slide instruction, and video captures. Demonstrations of Amazon Web Services and third-party cloud solutions are included to provide necessary context and experience for further study and use of AWS.

Skill Level

- Beginner/All levels

Learn How To

- Get started with AWS, including networking, computing, storage, managing databases, and security
- Understand cloud-computing platforms, and how AWS fits into them
- Use EC2, CloudWatch, S3 Buckets, and more
- Use IAM, VPC, NACLs, AMI, ECS, EKS, EBS, and other various tools

Who Should Take This Course

- Working software developers, system administrators, or solution architects who want to migrate applications to or build applications natively in the cloud
- Those pursuing AWS certification.

Course Requirements

- None: Beginner level course

Lesson Descriptions

Lesson 1: AWS Overview

In Lesson 1, "AWS Overview," AWS global infrastructure is discussed, and there is a review of some very foundational terms and concepts that apply to everything covered in the remainder of the course. In this lesson, AWS data centers and their locations around the world, as well as a high-level overview of the kinds of services offered, are also covered.

Lesson 2: Identity and Access Management

Lesson 2, "Identity and Access Management," dives into how to secure your accounts and credentials, and ensure proper access to resources. This lesson discusses the Identity and Access Management service, as well as the features and options that can be leveraged to secure access to AWS environments.

Lesson 3: Networking in AWS

In Lesson 3, "Networking in AWS," one of the most important aspects to learn and become proficient at, is discussed in detail. To a seasoned IT professional many things in AWS will be familiar, yet many things will also be new concepts or work in significantly different ways. In this lesson, creating isolated networks with Amazon Virtual Private Cloud, subnets, routing, firewalls, and more are discussed.

Lesson 4: Computing in AWS

Lesson 4, "Computing in AWS," covers the compute options offered by Amazon Elastic Compute Cloud, serverless computing, and container-based applications. It also includes several great demos on these areas.

Lesson 5: Storage in AWS

In Lesson 5, "Storage in AWS," the wide variety of storage options is covered, as well as review demos of creating and using services like Amazon Simple Storage Service and Amazon Elastic Block Store. There are also reviews of backups, snapshots, archiving, and more.

Lesson 6: Databases in AWS

Lesson 6, "Databases in AWS," explores highly available traditional databases on Amazon Relational Database Service, the nosql database Amazon DynamoDB, data warehousing with Amazon Redshift, as well as services for in-memory cache and graph databases.

Lesson 7: High Availability in AWS

In Lesson 7, "High Availability in AWS," Amazon Elastic Load Balancing and Auto Scaling are explored. There is also a discussion of concepts pertinent to achieving a superior degree of high-availability and fault-tolerance.

Lesson 8: Analytics in AWS

Lesson 8, "Analytics in AWS," covers the exciting technologies AWS offers, such as real-time stream processing with Amazon Kinesis, big data processing with Amazon EMR, and Athena. Tools that make it easy to move and transform data between various and destinations are reviewed, as well as a use case highlighting business intelligence by making use of several various services.

Lesson 9: Management Tools

Lesson 9, "Management Tools," reviews monitoring and log collection, user activity tracking, inventory and change tracking, and tools to help build a more secure approach to configurations

management.

Lesson 10: Developer Tools

Lesson 10, "Developer Tools," reviews several services related to coding, version control, deployments, and debugging.

Lesson 11: Mobile and Application Services

Lesson 11, "Mobile and Application Services," explores the various tools offered by AWS along with other exciting technologies that ease the development of mobile applications.

Lesson 12: Security in AWS

In Lesson 12, "Security in AWS," controlling access to data, encryption, and other services that can secure our environment through automation are reviewed.

Lesson 13: Cost Management and Billing Options

Lesson 13, "Cost Management and Billing Options," reviews the cost models and highlights often-overlooked cost contributors for various services, as well as tools that can be used to understand and manage those costs.

Lesson 14: Course Wrap Up

Lesson 14, "Course Wrap Up," provides some overarching thoughts about Amazon Web Services, and a few notes about the Solutions Architect exam.

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