

Demystify the Cloud: Amazon Web Services Basics

GoSkills online course syllabus

Skill level

Beginner

Lessons

24

Pre-requisites

No prior experience needed

Video duration

1h 32m

Estimated study time

1h 32m

Instructor

Sean Baier

Introduction

1 Demystifying the cloud

Amazon Web Services or AWS Cloud is often a "black box" of magic that you're told is vital to the success of a modern business.

Defining the Cloud

2 What is the cloud?

The cloud is a pretty vague term to explain something so vast, which makes it hard to understand what it really is!

3 Types of cloud computing

AWS supports the needs of widely varying businesses through different cloud computing models and deployment strategies.

4 Understanding AWS cloud

Of the various cloud services available, Amazon Web Service is the focus for this course.

Instances, Containers, & Serverless Computing

5 EC2 instances types

EC2 instances are virtual servers that allow you to run applications using AWS, and there are many different instance types you can use.

6 Serverless computing with lambda

Lambda is a powerful offering in cloud computing which allows you to operate without a server.

7 AWS containers

AWS offers highly advanced container services that allow you to deploy and manage your containerized applications.

Reliable, Scalable, & Secure Storage

8

AWS storage services

A huge benefit of any cloud is the power of storage when it comes to data and information.

Networking & Content Delivery

9

Route 53 & CloudFront

Route53 and CloudFront are two powerful tools to deliver low latency applications, data, and content.

10

AWS API gateway

Having an Amazon-managed API within the AWS API gateway has many advantages to help streamline your processes.

11

Amazon VPC

Using the Amazon Virtual Private Cloud allows you to securely store your data within a provisioned and isolated section of the cloud.

Database Offerings

12

NoSQL vs. relational

NoSQL and relational databases both store and structure your data, though they each operate more effectively under different circumstances.

13

Additional database services

In addition to NoSQL and relational databases, there are several other database services that AWS supports.

Analytics & Machine Learning

14

Warehousing and querying data

Storing and being able to find your data easily make a huge difference in your ability to work quickly.

15

Streaming and processing data

Processing your data is a crucial step that allows for you to gather insights from what you've collected.

- 16** **Algorithms as a service**
Algorithms as a service allow you to develop, run, and use your algorithm without needing underlying architecture.

Application Integration

- 17** **Simple queue service**
When working across multiple applications that you're able to decouple microservices as needed.
- 18** **SNS & SES**
With distributed systems, you might find crafting event-driven messaging tough to manage across platforms.

Security, Identity, & Compliance

- 19** **Identity access management (IAM)**
Protecting user identities and staying compliant with governing policies is crucial.
- 20** **Detection & protection**
It's your duty to protect any sensitive data you have, especially that which is considered personally identifiable information (PII).

Management & Governance

- 21** **Using CloudFormation**
Amazon cloud resources allow for you to build infrastructure as code, which allows for you to be less reliant on physical hardware.
- 22** **Leveraging CloudWatch**
CloudWatch is AWS' tool for monitoring account activity and events, which can ultimately help you work more effectively.
- 23** **Budgets & Cost Explorer**
AWS has many tools available to help you monitor how much you spend to use cloud tools.

Conclusion

- 24** **The tip of the iceberg**
Thanks for watching this course!

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