Goskills

Demystify the Cloud: Amazon Web Services Basics

GoSkills online course syllabus

Skill level
Beginner

Lessons
24

Accredited by
Verified by GoSkills

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!