

AWS Certified Cloud Practitioner Prep (CLF-C01)

AWS CLF-C01 Cloud Practitioner. Core services, security, pricing, and billing fundamentals.

IT Certifications Instructor: Brian Taylor • 5 sections • 41 lessons • 11.25h total

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About this course

This course prepares you for the AWS Certified Cloud Practitioner (CLF-C01) exam. We cover cloud concepts, AWS core services, security, pricing, and billing. Video lessons, practice exams, and downloadable study guides included.

Course curriculum

Foundations and Preparation

- **Understanding the CLF-C01 Exam Structure (12m)**
We'll break down the exam format, question types, and scoring so you know exactly what to expect on test day.
- **What is Cloud Computing and Why AWS? (18m)**
Learn the core concepts of the cloud and the benefits of using AWS over traditional IT infrastructure.
- **Setting Up Your Free AWS Account (8m)**
A step-by-step guide to creating your AWS account and navigating the Management Console without surprise charges.
- **Key AWS Global Infrastructure Explained (15m)**
We'll show you how Regions, Availability Zones, and Edge Locations work and why they matter for performance.
- **The AWS Shared Responsibility Model (14m)**
A clear breakdown of what AWS manages versus what you are responsible for in the cloud.
- **Introduction to AWS Support Plans (11m)**
Compare the different support tiers to know which one fits your needs and budget.
- **Reviewing the Official Exam Guide (9m)**
We'll walk through the official AWS exam guide domains to align your study plan with what's tested.

Core AWS Services Deep Dive

- **EC2: Your Virtual Servers Explained (22m)**
Learn how to launch and manage EC2 instances, understand instance types, and when to use them.
- **S3: Storing Data in the Cloud (25m)**
A practical look at S3 storage classes, buckets, and how to secure your data.
- **VPC: Networking Basics for AWS (28m)**
We'll demystify Virtual Private Clouds, subnets, and routing to secure your network.
- **IAM: Managing Users and Permissions (20m)**
A hands-on guide to creating users, groups, and policies to control access to your AWS resources.
- **RDS: Managed Databases Made Easy (16m)**
Understand how to set up and manage relational databases without the administrative overhead.
- **Lambda: Serverless Computing Concepts (14m)**
Learn what serverless means and how Lambda can run your code without provisioning servers.
- **CloudFront and Route 53: Content Delivery (17m)**
We'll cover how to speed up your websites and manage domain names with AWS services.
- **DynamoDB: NoSQL Database Fundamentals (13m)**
A quick guide to understanding NoSQL and when to use DynamoDB for fast, flexible data storage.
- **Elastic Load Balancing & Auto Scaling (19m)**
Learn how to distribute traffic and automatically adjust capacity for high availability.

Security and Compliance

- **AWS Identity and Access Management (IAM) Policies (21m)**
Deep dive into JSON policy documents and how to write secure permissions for your resources.
- **AWS Key Management Service (KMS) Basics (15m)**
Understand encryption at rest and in transit using AWS managed keys and customer managed keys.
- **AWS CloudTrail and CloudWatch Logs (19m)**
Learn how to monitor API activity and set up alerts for security events in your account.
- **Introduction to AWS WAF and Shield (12m)**
We'll show you how to protect your web applications from common exploits and DDoS attacks.
- **AWS Security Hub and GuardDuty (16m)**
An overview of automated security checks and threat detection services for your AWS environment.
- **Compliance Programs: What You Need to Know (10m)**
Learn about AWS compliance reports and how they help with your industry's regulatory needs.
- **Securing Your Root Account (8m)**
A critical lesson on multi-factor authentication (MFA) and protecting your main account credentials.

Pricing, Billing, and Support

- **AWS Pricing Models: On-Demand vs. Reserved (23m)**
A practical comparison of pricing options to help you optimize costs for different workloads.
- **The AWS Pricing Calculator (14m)**
Step-by-step walkthrough of using the calculator to estimate costs before you build.
- **AWS Budgets and Cost Explorer (20m)**
We'll show you how to set up budgets and analyze your spending to avoid bill shock.
- **Understanding the AWS Free Tier (11m)**
A clear explanation of what's free, what's not, and how to stay within the free tier limits.
- **Tagging Resources for Cost Allocation (15m)**
Learn a best-practice tagging strategy to track costs across different projects and teams.
- **AWS Marketplace: Finding and Using Solutions (9m)**
Discover how to find third-party software and services that run on AWS.
- **Choosing the Right Support Plan (13m)**
A problem-solving session on when to use Basic, Developer, Business, or Enterprise support.
- **TCO: Calculating Total Cost of Ownership (18m)**
Learn how to compare the cost of an on-premises solution versus a cloud-based one.

Implementation and Exam Strategy

- **Putting It All Together: A Simple Web App (32m)**
A real case study analysis where we architect a simple web app using the services you've learned.
- **Troubleshooting Common AWS Scenarios (24m)**
We'll work through common problems like connectivity issues and permission errors.
- **Key Service Limits and Quotas (12m)**
Understand the default service limits and how to request increases for your applications.

- **The Well-Architected Framework Pillars (26m)**
Learn the 5 pillars of good architecture (Operational Excellence, Security, Reliability, Performance, Cost) and how they apply to the exam.
- **Practice Exam Strategy: How to Read Questions (15m)**
Techniques for deconstructing exam questions to find the best answer, even when you're unsure.
- **Identifying Your Weak Areas (10m)**
A guide to self-assessment and focusing your final study time where it matters most.
- **Final Exam Day Checklist (8m)**
A downloadable checklist for what to do the day before and the day of your exam.
- **What's Next After Cloud Practitioner? (12m)**
Explore the AWS certification path and discuss next steps for your career in the cloud.
- **Review: Top 20 Must-Know Services (22m)**
A rapid-fire review of the most frequently tested services and their core use cases.
- **Final Practice Exam Walkthrough (30m)**
We'll review a set of practice questions, explaining the logic behind each correct answer.

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