

DCOM 130
AWS Certified Cloud Practitioner
3 Credits

Community College of Baltimore County
Common Course Outline

Description

DCOM 130 – AWS Certified Cloud Practitioner: provides the student with a comprehensive overview of Amazon Web Services (AWS) and cloud computing. Students will design, build, and manage a cloud network infrastructure. Topics include AWS technologies & services, cloud architecture & design, and implementation & support. This course helps students prepare for the AWS Certified Cloud Practitioner certification exam.

Pre-requisites: DCOM 101

Overall Course Objectives

Upon completion of this course, students will be able to:

1. identify the components of an AWS cloud architecture;
2. design a cloud infrastructure;
3. implement a cloud infrastructure;
4. create virtual machines;
5. manage cloud servers;
6. configure replication;
7. secure cloud users;
8. secure cloud resources;
9. Configure firewalls;
10. evaluate risk;
11. manage storage;
12. monitor performance;
13. migrate virtual machines; and
14. describe connectivity between on-premises and cloud datacenters.

Major Topics

- I. AWS cloud architecture
- II. Cloud design principles
- III. Components of a datacenter
- IV. Global infrastructure
- V. Networking in the cloud
- VI. Cloud storage
- VII. Managing virtual machines in the cloud
- VIII. Managing users
- IX. Managing permissions
- X. Security in the cloud

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

- XI. Monitoring and analytics
- XII. Migration
- XIII. Pricing and support

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Chapter quizzes
- Midterm exam
- Project
- Final exam

Written assignments and research projects: Students are required to use appropriate resources in their research and cite sources according to the style selected by their professor.

Other Course Information

This course helps students prepare for the AWS Certified Cloud Practitioner certification exam. This course will use Official AWS curricula.

Date Revised: 2/18/2025