

Introduction to Cloud Computing

Provider: IBM (Coursera / Skills Network)

Completion Date: May 13, 2025

Overview

This course introduced cloud computing concepts, service models, and deployment models, with a focus on IBM Cloud. It covered virtualization, containers, serverless computing, and core cloud services such as compute, storage, and networking. Through quizzes, readings, and a final project, I gained a practical understanding of how cloud platforms operate and how applications can be containerized and deployed.

Key Topics Covered

- Cloud service models: IaaS, PaaS, SaaS
- Deployment models: public, private, hybrid, and multicloud
- Virtualization, containers, and serverless computing
- Cloud storage and networking basics
- Cloud security and compliance considerations
- Cloud computing use cases and industry applications

Practical Applications

- Wrote and tested basic HTML in the Skills Network IDE
- Built and ran applications using Docker containers
- Verified and used IBM Cloud CLI tools
- Cloned a sample application and tested it locally
- Deployed a containerized web application using IBM Cloud Code Engine

Personal Reflection

This course gave me a strong foundation in cloud computing concepts and workflows. The **final project, Guess the Capital**, reinforced how to containerize an application, push it to a cloud registry, and deploy it using Code Engine. While I faced challenges with GUI setup and resource group targeting, adapting with CLI commands helped me complete the project successfully. These experiences built confidence in cloud deployments and support my cybersecurity path by preparing me to understand and secure applications in cloud environments.