

Cloud Computing

ABOUT THE COURSE

Course Team

Lecturer

Dr. Amr Abed (amrabad@mu.edu.eg)

About the instructor

B.S. Computer Engineering, Ain-Shams University, Egypt, 2000 – 2005

M.S. Computer Engineering, Virginia Tech, USA, 2011 – 2013

Ph.D. Computer Engineering, Virginia Tech, USA, 2014 – 2017

Teaching & Research Interests

Machine Learning

Mobile Computing

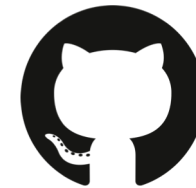
Cloud Computing & Security

Internet of Things (IoT)

Why Cloud Computing



Google Cloud



Course Objectives

Learn the fundamentals of Cloud Computing

Get familiar with different cloud platforms

- Amazon Web Services
- Google Cloud Platform
- Microsoft Azure

Utilize Virtualization and Containerization Tools

- VMware
- Vagrant
- Docker

Design and Implement cloud-based applications



Course Outlines

Introduction

Infrastructure-as-a-Service (IaaS)

Platform as a Service (PaaS)

Software as a Service (SaaS)

Virtualization

Docker Containers

Course Project

Course Website

<http://courses.amrabet.me>

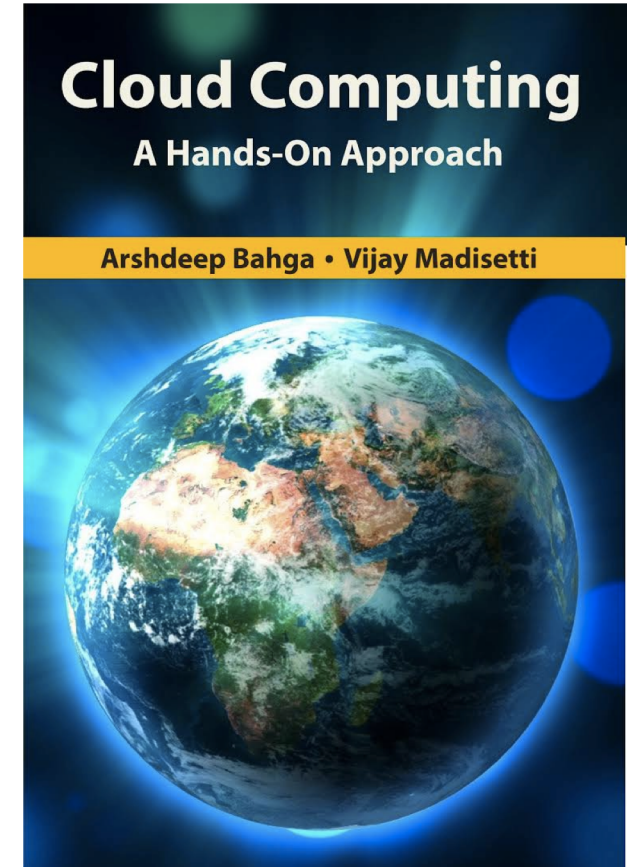
1. Register
2. Enroll
3. Browse

Recommended Textbook

Cloud Computing: A Hands-On Approach

Arshdeep Bahga, Vijay Madisetti

VPT, 2014



Grading

Course Project & Assignments – 30 points

Final Exam – 70 points

Bonus – 10 points

Assignment Policy

Assignments are to be submitted online by 11:59PM on the due date

Late submission deducts 10% of the assignment grade per day

A maximum of 2 days of *free* late submissions are allowed