



**IT Workshop III**

# **Cloud Computing**

**Lecture #1**

# Who all will be there?

- ▶ **Course Instructor**

- ▶ **Dr. Ferdous Ahmed Barbhuiya**

- Room: 222, 1<sup>st</sup> door from left of stairs

- Email: [ferdous@iiitg.ac.in](mailto:ferdous@iiitg.ac.in), [ferdousa@gmail.com](mailto:ferdousa@gmail.com)

- ▶ **Teaching Assistant**

- ▶ Kaushik Das, Phd student,

- ▶ Mahboob Alam, Phd student,

- ▶ **Attendee**

- ▶ All BTech 5<sup>th</sup> sem students

# Details of the course

**L-2   T-0   P-3   C-7**

## ► **Syllabus**

- Introduction to Cloud Computing, Cloud Concepts & Technologies, Cloud Services & Platforms,
- Hadoop & MapReduce - Concepts, Cloud Application Design,
- Python for Cloud, Cloud Application Development in Python,
- Big Data Analytics, Multimedia Cloud, Cloud Security, Cloud Application Benchmarking & Tuning

# Logistics...



## ► Books

### ► Texts:

1) Cloud Computing: A Hands-On Approach by Arshdeep Bahga, Vijay Madisetti, 2013, Universities Press

### ► References:

1) Cloud Computing Bible by Barrie Sosinsky, 2011, Willey India Pvt Ltd

2) Cloud Computing: Principles and Paradigms, Editors: Rajkumar Buyya, James Broberg, Andrzej M. Goscinski, Wiley, 2011

## ► Tools & Software for Lab, Assignments

► Amazon Web Services (AWS), Google Compute, Azure,  
A debit/credit card with a minimum of **Rs. 2 balance**

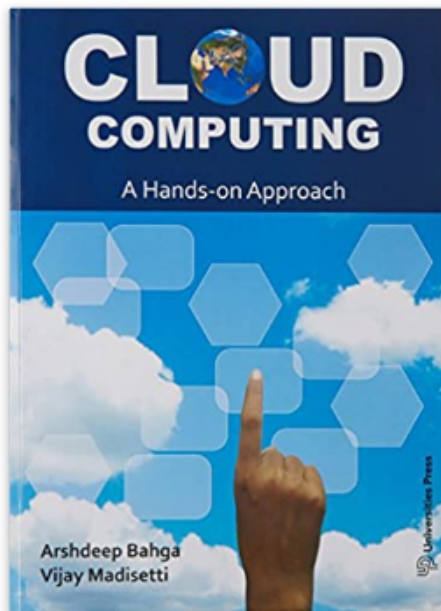
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## Cloud Computing: A Hands-on Approach Paperback – 1 January 2014

by [Arshdeep Bahga](#) (Author), [Vijay Madisetti](#) (Author)

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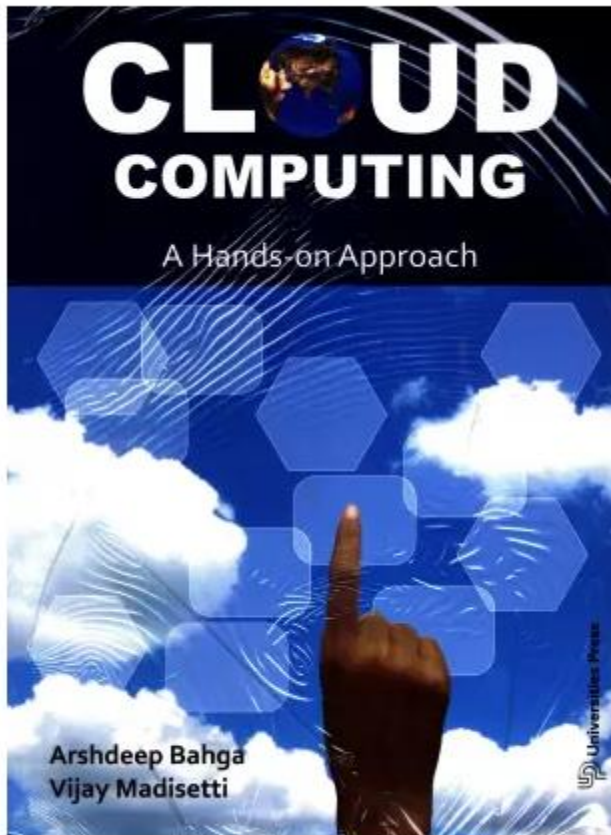


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Cloud Computing PB (English, Bagha A)

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# Things to go over...

- ▶ Lectures
- ▶ Lab, Assignments and deliverables
- ▶ Project & Presentation
- ▶ Guest Lectures and assignments
- ▶ Mid Sem and End Sem Exam
- ▶ Quizzes

# What is in Cloud Computing?

- ✓ 20% Mid Sem Exam (2 hours)
- ✓ 30% End Sem Exam (3 hours)
- ✓ 5% Attendance (Lectures n Lab, 75% must)
- ✓ 20% Lab Assignments
- ✓ 15% on project
- ✓ 5% Quiz 1
- ✓ 5% Quiz 2



# Challenges of the course

- ▶ Don't get frustrated (take a deep breath)...
  - ▶ This is bleeding edge technology
- ▶ Be patient and do not worry...
  - ▶ This is the sixth time I am teaching this course
- ▶ Be flexible...
  - ▶ There will be unanticipated issues along the way
- ▶ Be constructive...
  - ▶ Tell me how I can make everyone's experience better

# This course may not benefit you...

- ▶ If you're not genuinely interested in the topic
- ▶ If you're not ready to do a lot of programming
- ▶ If you're not open to thinking about computing in new ways
- ▶ If you can't cope with uncertainty, unpredictability, lots of documentation, and immature software
- ▶ If you can't put in the time

**Otherwise, this will be a richly rewarding course!**



**What is Cloud Computing?**

# Question!



Delivery of computing services including servers, storage, databases, networking, software, analytics and intelligence over the Internet to offer on demand, flexible resources with economies of scale is known as....

**A. Distributed Computing**  
**B. Grid Computing**

**C. Cloud Computing**  
**D. Green Computing**

**Please answer correctly. This will be recorded.**



**A. Distributed Computing**  
**B. Grid Computing**

**C. Cloud Computing**  
**D. Green Computing**