

uCertify

Course Outline

Cloud Computing Simplified



04 Aug 2025

1. Exercises, Quizzes, Flashcards & Glossary

Number of Questions

2. Expert Instructor-Led Training

3. ADA Compliant & JAWS Compatible Platform

4. State of the Art Educator Tools

5. Award Winning Learning Platform (LMS)

6. Chapter & Lessons

Syllabus

Chapter 1: Preface

Chapter 2: Overview of Cloud Computing

Chapter 3: Cloud Architecture and Applications

Chapter 4: Scalability and Redundancy

Chapter 5: Cloud Services

Chapter 6: Cloud Deployment Models

Chapter 7: Virtualization

Chapter 8: Cloud Management

Chapter 9: Data Storage and Security

Chapter 10: Cloud Operations and Challenges

Chapter 11: Technologies and Service Models

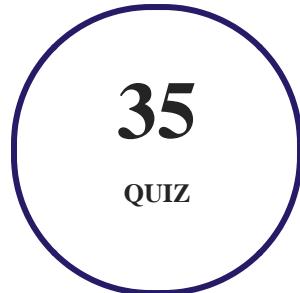
Chapter 12: Cloud Cube Model

Chapter 13: Mobile Cloud Computing

Videos and How To

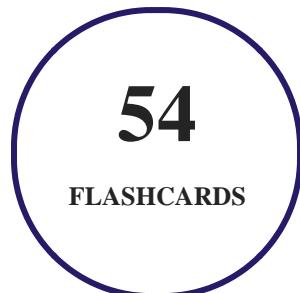
1.  Quiz

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



2. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



3. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



4. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

5. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

6. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

7. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been

recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**

1. Best Postsecondary Learning Solution

- **2015**

1. Best Education Solution
2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform

2. Best Instructional Solution in Other Curriculum Areas
 3. Best Learning Relationship Management Solution
- **2019**
 1. Best Virtual Learning Solution
 2. Best Content Authoring Development or Curation Solution
 3. Best Higher Education Learning Management Solution (LMS)
 - **2020**
 1. Best College and Career Readiness Solution
 2. Best Cross-Curricular Solution
 3. Best Virtual Learning Solution

8. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Preface

Chapter 2: Overview of Cloud Computing

- Introduction to cloud computing
- What is cloud computing?

- History of cloud computing
- Characteristics of cloud computing
- Advantages of cloud computing
- Disadvantages of cloud computing
- Cloud service models
- Cloud computing deployment models
- Cloud computing companies
- Conclusion
- Points to remember
- Questions

Chapter 3: Cloud Architecture and Applications

- Cloud architecture
- Front end
- Backend
- Components of cloud computing architecture
- Working of cloud computing
- Applications of cloud computing
- Conclusion

- Points to remember
- Questions

Chapter 4: Scalability and Redundancy

- Meaning of scalability
- Key features of cloud scalability
- Types of scalability
- Ways to scale cloud
- Benefits of cloud scalability
- Concept of redundancy
- Benefits of redundancy
- Conclusion
- Points to remember
- Questions

Chapter 5: Cloud Services

- Cloud services
- Benefits of cloud services
- Types of cloud service models

- Software as a Service (SaaS)
- Platform as a Service (PaaS)
- Infrastructure as a Service (IaaS)
- Network as a Service (NaaS)
- Identity as a Service (IdaaS)
- Conclusion
- Points to remember
- Questions

Chapter 6: Cloud Deployment Models

- Cloud deployment models
- Public cloud
- Private cloud deployment model
- Comparison between private and public cloud
- Community cloud deployment model
- Hybrid cloud deployment model
- Comparative study for all clouds
- Multi cloud

- Conclusion
- Points to remember
- Questions

Chapter 7: Virtualization

- Meaning of virtualization
- Features of virtualization
- How does virtualization work?
- Benefits of virtualization
- Difference between cloud computing and virtualization
- Types of virtualization
 - Hardware virtualization
 - Software virtualization
 - Server virtualization
 - Storage virtualization
- Conclusion
- Points to remember
- Questions

Chapter 8: Cloud Management

- Cloud management
- Cloud provisioning
- Cloud management benefits
- Cloud management tools
- Components of cloud computing management
- Cloud management security
- Challenges faced during cloud management
- Conclusion
- Points to remember
- Questions

Chapter 9: Data Storage and Security

- Types of cloud storage
- Advantages and risks of cloud storage
- Infrastructure
- Data protection process
- Cloud security
- Measures and controls in cloud security

- Encryption
- Conclusion
- Points to remember
- Questions

Chapter 10: Cloud Operations and Challenges

- Defining cloud operations
- Cloud operations objective
- Cloud operations management
- Benefits of cloud operations
- Challenges related to cloud computing
- Conclusion
- Points to remember
- Questions

Chapter 11: Technologies and Service Models

- Cloud computing technologies
- Types of cloud computing technologies
- Service providers

- MeghRaj
- Conclusion
- Points to remember
- Questions

Chapter 12: Cloud Cube Model

- Cloud Cube Model
- Securing data
- Dimensions of the Cloud Cube Model
- Location of data: internal/external dimension
- Proprietary/open
- Perimeterised/de-perimeterised
- Insourced/outsourced
- Conclusion
- Questions

Chapter 13: Mobile Cloud Computing

- Meaning of mobile cloud and mobile computing
- Mobile cloud computing

- Architecture of mobile cloud computing
- Benefits of mobile cloud computing
- Difference between mobile computing and cloud computing
- Applications of mobile cloud computing
- Conclusion
- Points to remember
- Questions

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