

# uCertify

## Course Outline

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**Cloud+: Deploying and Managing a  
Cloud Infrastructure (Course &  
Labs)**



25 Feb 2020



Lesson



Practice test



Lab

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Practice Test

Here's what you get

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Here's what you get

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## 1. Course Objective

Gain hands-on expertise in the CompTIA Cloud+ CV0-001 certification exam with the Cloud+: Deploying and Managing a Cloud Infrastructure course and performance-based labs. Performance-based labs simulate real-world, hardware, software & command line interface environments and can be mapped to any text-book, course & training. This course and lab cover all the objectives covered in the CV0-001 exam and provide competency in the areas such as business continuity, infrastructure, security, virtualization, resource management, and cloud models. The complete cert guide contains performance-based labs that provides hands-on learning with the real-world scenarios.

## 2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

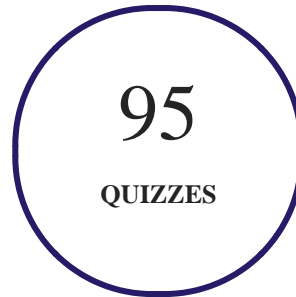
## 3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

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EXERCISES

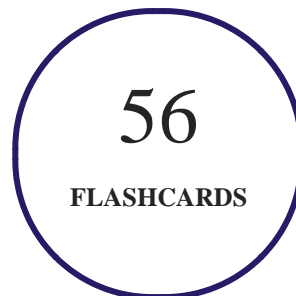
## 4. Quizzes

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.



## 5. 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.



## 6. 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.



## 7. 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.

## 8. 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.

## 9. 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 assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 10. 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 5 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

## 11. 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: Understanding Cloud Characteristics

- Basic Terms and Characteristics
- Object Storage Concepts
- Summary
- Lesson Essentials

### Chapter 2: To Grasp the Cloud-Fundamental Concepts

- The True Nature of the Cloud
- Virtualization and Scalability



- The Cloud Hypervisor
- Key Benefits of Implementing Hypervisors
- Foundations of Cloud Computing
- Summary
- Lesson Essentials

### Chapter 3: Within the Cloud: Technical Concepts of Cloud Computing

- Technical Basics of Cloud and Scalable Computing
- The Cloud Infrastructure
- Summary
- Lesson Essentials

### Chapter 4: Cloud Management

- Understanding Cloud Management Platforms
- Service-Level Agreements
- Policies and Procedures
- Managing Cloud Workloads
- Securing Data in the Cloud
- Managing Devices

- Summary
- Lesson Essentials

## Chapter 5: Diagnosis and Performance Monitoring

- Performance Concepts
- Disk Performance
- Impact of Configuration Changes
- Common Issues
- Summary
- Lesson Essentials

## Chapter 6: Cloud Delivery and Hosting Models

- Private
- Public
- Hybrid
- Community
- On-Premises vs. Off-Premises Hosting
- Accountability and Responsibility Based on Delivery Models

- Security Differences between Models
- Functionality and Performance Validation
- Orchestration Platforms
- Summary
- Lesson Essentials

## Chapter 7: Practical Cloud Knowledge: Install, Configure, and Manage

- Setting Up the Cloud
- Virtual Resource Migration
- Virtual Components of the Cloud
- Summary
- Lesson Essentials

## Chapter 8: Hardware Management

- Cloud Hardware Resources
- Management Differences between Public, Private, and Hybrid Clouds
- Tiering
- Summary
- Lesson Essentials

## Chapter 9: Storage Provisioning and Networking

- Cloud Storage Concepts
- Cloud vs. SAN Storage
- Cloud Provisioning
- Cloud Storage Technology
- Cloud Storage Gateway
- Cloud Security and Privacy
- Summary
- Lesson Essentials

## Chapter 10: Testing and Deployment: Quality Is King

- Overview of Deployment Models
- Cloud Management Strategies
- Cloud Architecture
- Cloud Deployment Options
- Creating and Deploying Cloud Services
- Summary

- Lesson Essentials

## Chapter 11: Cloud Computing Standards and Security

- Cloud Computing Standards
- Security Concepts and Tools
- Encryption Techniques
- Access Control Methods
- Implementing Guest and Host Hardening Techniques
- Summary
- Lesson Essentials

## Chapter 12: The Cloud Makes It Rain Money: The Business in Cloud Computing

- The Nature of Cloud Business
- Cloud Service Business Models
- The Enterprise Cloud
- Disaster Recovery
- Business Continuity and Cloud Computing
- Summary
- Lesson Essentials

## Chapter 13: Planning for Cloud Integration: Pitfalls and Advantages

- Work Optimization
- The Right Cloud Model
- Adapting Organizational Culture for the Cloud
- Potholes on the Cloud Road
- Summary
- Lesson Essentials

## Chapter 14: Video Tutorials

- Introduction
- Cloud Concepts and Models
- Virtualization
- Infrastructure and Network Optimization
- Troubleshooting and Common Network Protocols
- Resource Management and Allocation
- Security and Access Control Methods
- Systems Management and Performance Concepts

- Business Continuity in the Cloud
- Conclusion

## Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

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VIDEOS

09:52

HOURS

## 12. Practice Test

uCertify provides full length practice tests. These tests closely follow the exam objectives and are designed to simulate real exam conditions. Each course has a number of test sets consisting of hundreds of items to ensure that learners are prepared for the certification exam.

### Here's what you get

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PRE-ASSESSMENTS QUESTIONS

60

POST-ASSESSMENTS QUESTIONS

## Features

### Full Remediation

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

### Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

### Learn, Test and Review Mode

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

## 13. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

- Provide hands-on experience in a safe, online environment
- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform



## Lab Tasks

- Understanding cloud bursting
- Understanding physical layer abstraction
- Identifying basic characteristics of cloud
- Understanding virtualization
- Identifying benefits of hypervisor
- Identifying cloud components
- Identifying types of leased lines
- Identifying traditional and cloud data center
- Identifying modules of OpenStack
- Identifying Open Compute Project
- Identifying IT processes and procedures
- Understanding SLA
- Identifying network domains
- Identifying change types
- Identifying ITIL framework phases
- Identifying transporting network
- Identifying diagonal scaling
- Identifying application workload profile value
- Identifying data frame receiving process
- Understanding access time
- Identifying organizations for full private cloud deployment
- Identifying roles of cloud players
- Creating a virtual machine
- Identifying steps for creating clones of a virtual machine
- Understanding virtual CPU
- Identifying vSphere editions
- Identifying RAID levels
- Understanding VMFS
- Identifying SAN and NAS
- Identifying cloud and SAN storage

- Identifying OSI model layers
- Identifying data replication
- Identifying cloud storage technology
- Identifying AWS Storage Gateway
- Understanding heterogeneous cloud computing
- Understanding cloud deployment models
- Identifying cloud architecture benefits
- Identifying cloud service testing types
- Identifying Flume agent components
- Identifying methods to design a network
- Understanding secure sockets layer
- Understanding public key infrastructure
- Identifying commands for disabling ports and services
- Installing security software
- Signing into the Skype account
- Identifying use cases for PaaS
- Identifying advantages of virtual private cloud
- Identifying adaption models

## Here's what you get

**48**  
PERFORMANCE BASED  
LAB

**3**  
VIDEO TUTORIALS

**02**  
MINUTES

## 14. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

**Have Any Query? We Are Happy To Help!**

### GET IN TOUCH:

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■ [www.uCertify.com](http://www.uCertify.com)