

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: Introduction to Cloud Native Applications

Chapter 3: Securing Modern Design Architectures

Chapter 4: Containers and Kubernetes for Cloud Native Applications

Chapter 5: Serverless for Cloud Native Applications

Chapter 6: Building Secure CI/CD Pipelines

Chapter 7: The 12-Factor Application Methodology

Chapter 8: Using Infrastructure as Code

Chapter 9: Authorization and Policy as Code

Chapter 10: Implementing Immutable Infrastructure

Chapter 11: Encryption and Secrets Management

Chapter 12: Threat Management in Cloud Native Applications

Chapter 13: Summary and Key Takeaways

Videos and How To

1. 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.

2. 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.

3. 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.

4. 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

5. 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: Introduction to Cloud Native Applications

- Introduction
- Recap of cloud services
- Cloud-native services
- Cloud-native applications
- Conclusion
- References

Chapter 3: Securing Modern Design Architectures

- Introduction
- Application programmable interfaces
- Event-driven architectures
- Microservices architecture
- Conclusion
- References

Chapter 4: Containers and Kubernetes for Cloud Native Applications

- Introduction
- Containers technology
- Container operating systems
- Kubernetes as a Container orchestrator
- Conclusion
- References

Chapter 5: Serverless for Cloud Native Applications

- Introduction
- Serverless fundamentals

- Introducing AWS Lambda
- Introducing Azure Functions
- Introducing Google Cloud Functions
- Conclusion
- References

Chapter 6: Building Secure CI/CD Pipelines

- Introduction
- CI/CD pipeline fundamentals
- Static Application Security Testing tools
- Software Composition Analysis tools
- Static code analyzers for Infrastructure as Code
- Repositories and artifacts
- Software supply chain
- Best practices for securing the CI/CD pipeline
- Conclusion
- References

Chapter 7: The 12-Factor Application Methodology

- Introduction
- The twelve-factor app methodology
- Conclusion
- References

Chapter 8: Using Infrastructure as Code

- Introduction
- Introduction to Infrastructure as Code
- AWS CloudFormation
- HashiCorp Terraform
- Conclusion
- References

Chapter 9: Authorization and Policy as Code

- Introduction
- Introduction for Policy as Code
- Introduction to the HashiCorp Sentinel framework
- Introduction to Open Policy Agent
- Introduction to Cedar policy language

- Conclusion
- References

Chapter 10: Implementing Immutable Infrastructure

- Introduction
- Introduction to immutable infrastructure
- Building a golden image
- Creating deployment pipeline
- Conclusion
- References

Chapter 11: Encryption and Secrets Management

- Introduction
- Introducing encryption and key management services
- Introduction to secrets management in cloud-native applications
- Conclusion
- References

Chapter 12: Threat Management in Cloud Native Applications

- Introduction
- Vulnerability versus threat versus risk
- Introducing vulnerability management in Cloud-native applications
- Implementing threat intelligence at scale
- Conclusion
- References

Chapter 13: Summary and Key Takeaways

- Introduction
- Introducing Pet Store
- Key takeaways from the course
- Recommendations for the readers of the course

You can't stay away! Get

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