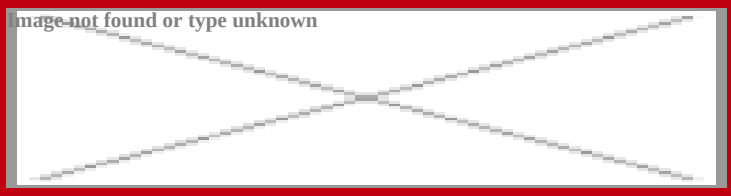
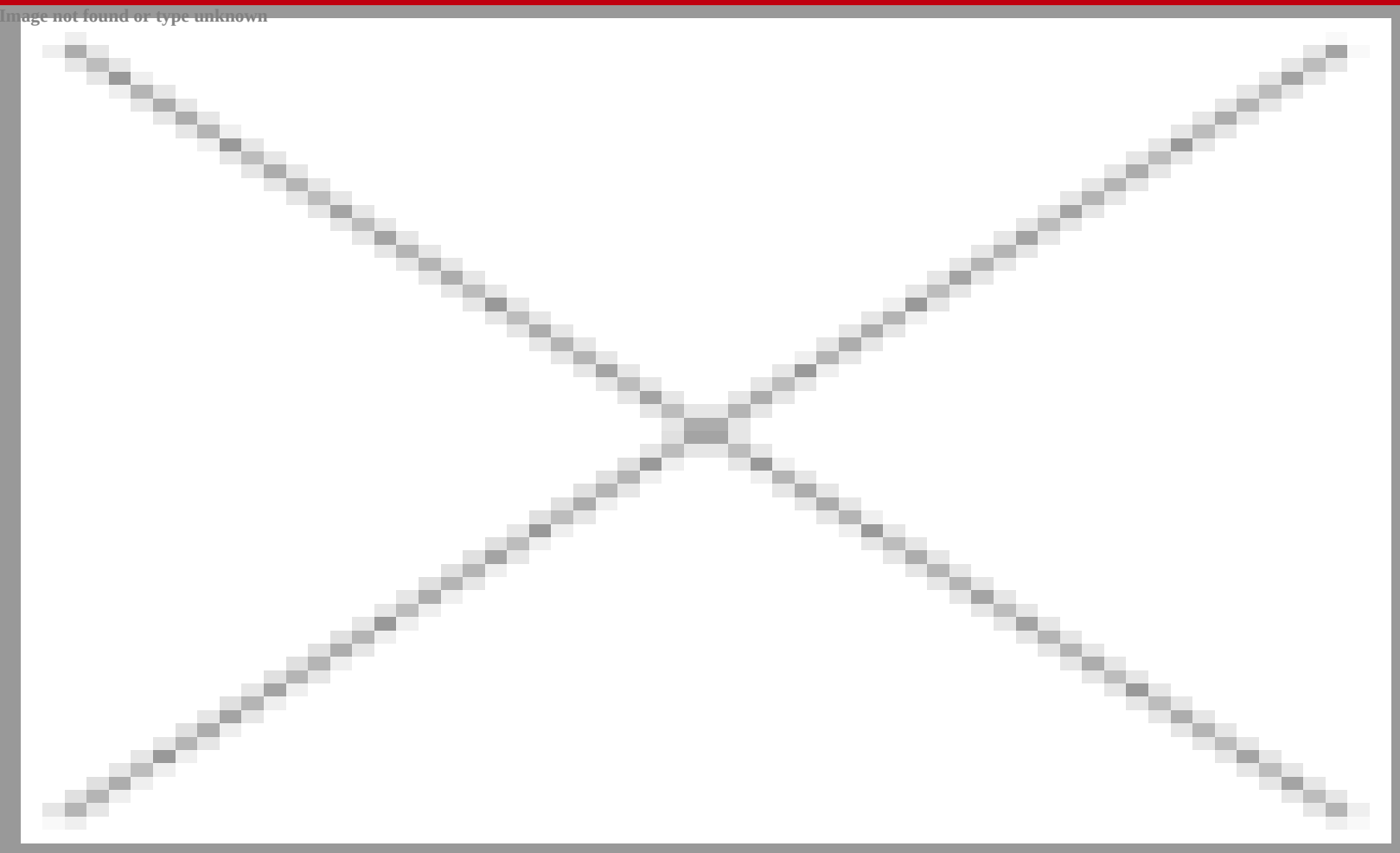
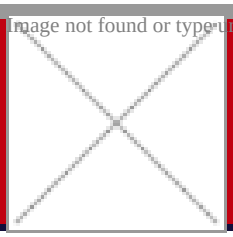
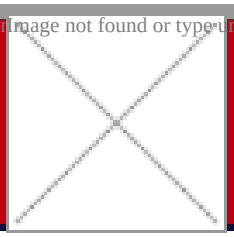


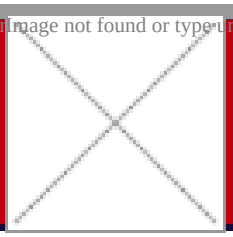
Course Outline

AWS Certified Advanced Networking Official Study Guide: Specialty Exam









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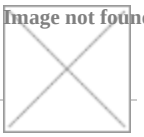

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4. Expert Instructor-Led Training
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   Chapter 3: Amazon Virtual Private Cloud (Amazon VPC) and Networking Fundamentals

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9. Practice Test

   Here's what you get

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10. Performance Based Labs

    Lab Tasks

    Here's what you get

11. Post-Assessment

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1. Image not found or type unknown Course Objective

Pass the AWS Certified Advanced Networking ANS-C00 exam by preparing with the AWS Certified Advanced Networking Official Study Guide and lab. Lab simulates real-world, hardware, software and command line interface environments and can be mapped to any text-book, course or training. The course and lab completely cover ANS-C00 exam objectives and cover topics such as Amazon CloudFront, network security, automation, billing, service requirements, hybrid architectures, and more.

2. Image not found or type unknown 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. Image not found or type unknown 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.

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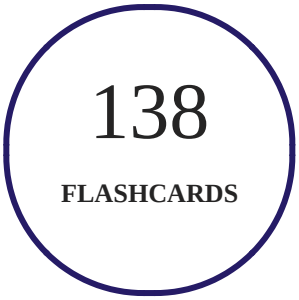
QUIZZES

4. Image not found or type unknown 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.



5. 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.

6. 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.

7. 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.

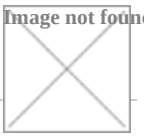
8. State of the Art Educator Tools

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.

9. 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

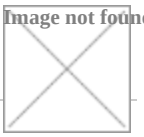
- **2017**
  1. Best Overall Education Solution
  2. Best Student Assessment Solution
  3. Best Corporate/Workforce Learning Solution
  4. Best Higher Education LMS or Learning Platform

- **2018**
  1. Best Higher Education LMS or Learning Platform
  2. Best Instructional Solution in Other Curriculum Areas
  3. Best Learning Relationship Management Solution

10. 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

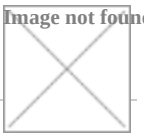
Chapter 1: Introduction

- What Does this Course Cover?
- Exam Objectives
- Objective Map

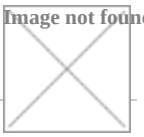
Chapter 2: Introduction to Advanced Networking

- AWS Global Infrastructure
- Amazon Virtual Private Cloud
- AWS Networking Services
- Summary
- Resources to Review
- Exam Essentials
- Exercise

Chapter 3: Amazon Virtual Private Cloud (Amazon VPC) and Networking Fundamentals



- Introduction to Amazon Virtual Private Cloud (Amazon VPC)
- Subnets
- Route Tables
- IP Addressing
- Security Groups
- Network Access Control Lists (ACLs)
- Internet Gateways
- Network Address Translation (NAT) Instances and NAT Gateways
- Egress-Only Internet Gateways (EIGWs)
- Virtual Private Gateways (VGWs), Customer Gateways, and Virtual Private Networks (VPNs)
- VPC Endpoints
- VPC Peering
- Placement Groups
- Elastic Network Interfaces
- Dynamic Host Configuration Protocol (DHCP) Option Sets
- Amazon Domain Name Service (DNS) Server
- VPC Flow Logs



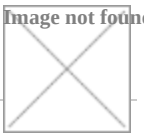
- Summary
- Resources to Review
- Exam Essentials
- Exercises

Chapter 4: Advanced Amazon Virtual Private Cloud (Amazon VPC)

- VPC Endpoints
- VPC Endpoint Overview
- Gateway VPC Endpoints
- Interface VPC Endpoints
- Transitive Routing
- IP Addressing Features
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 5: Virtual Private Networks

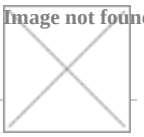
- Introduction to Virtual Private Networks



- Site-to-Site VPN
- Client-to-Site VPN
- Design Patterns
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 6: AWS Direct Connect

- What Is AWS Direct Connect?
- Physical Connectivity
- Logical Connectivity
- Resilient Connectivity
- Billing
- Summary
- Exam Essentials
- Resources to Review
- Exercises



Chapter 7: Domain Name System and Load Balancing

- Introduction to Domain Name System and Load Balancing
- Domain Name System
- Amazon EC2 DNS Service
- Amazon Route 53
- Elastic Load Balancing
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 8: Amazon CloudFront

- Introduction to Amazon CloudFront
- Content Delivery Network Overview
- The AWS CDN: Amazon CloudFront
- Summary
- Exam Essentials

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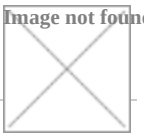
- Resources to Review
- Exercises

Chapter 9: Network Security

- Governance
- Data Flow Security
- AWS Security Services
- Detection and Response
- Summary
- Resources to Review
- Exam Essentials
- Exercises

Chapter 10: Network Performance

- Network Performance Basics
- Amazon Elastic Compute Cloud (Amazon EC2) Instance Networking Features
- Optimizing Performance
- Example Applications
- Performance Testing



- Summary
- Resources to Review
- Exam Essentials
- Exercises

Chapter 11: Automation

- Introduction to Network Automation
- Infrastructure as Code
- Network Monitoring Tools
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 12: Service Requirements

- Introduction to Service Requirements
- The Elastic Network Interface
- AWS Cloud Services and Their Network Requirements

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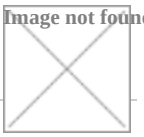
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 13: Hybrid Architectures

- Introduction to Hybrid Architectures
- Application Architectures
- Access VPC Endpoints and Customer-Hosted Endpoints over AWS Direct Connect
- Use of Transitive Routing in Hybrid IT
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 14: Network Troubleshooting

- Introduction to Network Troubleshooting
- Methodology for Troubleshooting
- Network Troubleshooting Tools



- Troubleshooting Common Scenarios
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 15: Billing

- Billing Overview
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 16: Risk and Compliance

- It All Begins with Threat Modeling
- Ownership Model and the Role of Network Management
- Controlling Access to AWS
- Encryption Options

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- Network Activity Monitoring
- Malicious Activity Detection
- Penetration Testing and Vulnerability Assessment
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 17: Scenarios and Reference Architectures

- Introduction to Scenarios and Reference Architectures
- Hybrid Networking Scenario
- Multi-Location Resiliency
- Summary
- Resources to Review
- Exam Essentials
- Exercises

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11. 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

50

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.

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12. Image not found or type unknown Performance Based Labs

uCertify's performance-based labs are Live Labs. Learn the real world skills using Live 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

- Creating a Custom VPC
- Creating Two Subnets for Your Custom VPC
- Connecting Your Custom VPC to the Internet and Establishing Routing
- Creating a Gateway VPC Endpoint for Amazon S3
- Creating a VPC Endpoint Service
- Creating a VPC Endpoint
- Adding IPv4 CIDR Ranges to a VPC
- Creating a VPN Connection Using the AWS-Managed VPN Option
- Creating a Direct Connect Gateway
- Creating a LAG
- Deleting a VPC
- Creating a Private VIF
- Adding IPv6 to a Private VIF
- Creating an Amazon CloudFront Web Distribution

- Creating an Amazon CloudFront RTMP Distribution
- Creating a Stack
- Creating a Budget

Here's what you get

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PERFORMANCE BASED LAB

34
VIDEO TUTORIALS

13. 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:

Contact No

Email: sales@ucertify.com

www.uCertify.com