CASP, Part 4 of 9: Cloud Security

Meet the expert: David Bigger is the lead trainer at Bigger IT Solutions. He has been information technology for a little over 20 years and has been training all over the US. He has worked with companies like US Military, Lockheed Martin, General Dynamics, Dominos Pizza, University of Utah and Expedia

Prerequisites: This course assumes that the student has familiarity with information technology and basic networking. The student should also be familiar with basic security concepts, whether through the CompTIA Advanced Security Practitioner Part 1 course or outside study. No scripting or “hacking” experience is required.

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Course description: Find out how to better support your business by utilizing the cloud. Explore available cloud solutions for businesses of all sizes including the use of Software as a Service (SaaS) and Infrastructure as a Service (IaaS). Discover which option best suits your situation in terms of public or private cloud configuration, or take it one step further and combine the two. This course is part of a series covering the CompTIA Advanced Security Practitioner (CASP).

Course outline:

Introduction to Cloud Computing
- Introduction
- Cloud Security
- What Is Cloud Computing?
- Types of Cloud Computing
- SaaS
- PaaS
- IaaS
- Summary

Cloud Options
- Introduction
- Cloud Options
- Private Cloud
- Public Cloud
- Hybrid Cloud
- Community Cloud
- Summary

Virtualization
- Introduction
- Virtualization
- Virtualization - The Hypervisor
- Type 1 Hypervisor
- Type 2 Hypervisor
- Why Virtualize?
- Summary

Cloud Threats
- Introduction
- Cloud Threats
- Cloud Pros
- Cloud Protection
- Summary

Tunneling
- Introduction
- Communications Security
- Tunneling
- IPSec
- What Makes up IPSec
- IPSec Modes
- Summary

Tunneling Protocols
- Introduction
- PPTP
- L2TP
- L2TP and IPSec
- SSTP
- SSH
- Summary

VPN
- Introduction
- VPNs
- Remote Access
- Site-to-Site
- Summary