CASP, Part 3 of 9: Enterprise Storage and Host Security

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Prerequisites: This course assumes that you have familiarity with information technology, basic networking, and basic security concepts. No scripting or “hacking” experience is required. Having windows command line experience as well as having administrative rights on your machine will be helpful.

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Course description: Are you ready to learn about enterprise storage security? How about host security? This course will dive into the protocols for enterprise storage as well as the types of storage available, even in your small business or home office. We will examine the various methods of storage management and how to replicate data to allow for fault tolerance and disaster recovery. After discussing storage, we will focus on host security with an emphasis on anti-malware, host-based firewalls, and more. This course is part of a series covering the CompTIA Advanced Security Practitioner (CASP).

Course outline:

Intro to Enterprise Storage
- Introduction
- Intro to Enterprise Storage
- Types of Enterprise Storage
- NAS Protocols
- What Can Go Wrong with a NAS?
- SAN
- What Can Go Wrong with a SAN?
- vSAN
- What Can Go Wrong with a vSAN?
- Summary

Enterprise Storage Protocol
- Introduction
- Protocol for ES
- iSCSI
- Fibre Channel
- FCoE
- Any Issues with FCoE?
- Summary

Enterprise Storage Management
- Introduction
- Management of ES
- Deduplication
- Snapshots
- Dynamic Disk Pools
- HBA
- LUN Mapping
- LUN Masking
- Replication
- Encryption in Enterprise Storage
- Summary

Host Firewalls
- Introduction
- Host Security
- Host Based Firewalls
- Demo: Windows Firewall Rule
- Demo: Rule Creation
- Summary

Anti-Malware
- Introduction
- Anti-Malware
- Beyond Anti-Virus/Malware
- Demo: Command Line Tools
- Summary

Hardening
- Introduction
- Hardening
- Hardening Your System
- Trusted OS
- End Point Security
- Patch Management and HIDS
- Data Loss Prevention
- Log Monitoring
- UEFI
- Secure Boot
- Encryption for Our Hosts
- TPM
- HSM
- Services
- Demo: Services
- Demo: Disable Service
- Summary