

# Implementing the Cisco Application Control Engine Appliance (ACEAP) v2.0

**Vendor Course Code:** ACEAP2.x

**Course Length:** 4 days

**Overview:**

In this hands-on 4-day instructor-led course of training, you will learn how to deploy and configure the Cisco Application Control Engine (ACE) Appliance.

This course covers all of the key features of the Cisco ACE appliance, including resource virtualisation and management, server load balancing (Layer 2-4 and Layer 7), SSL termination and offload, security features like application-layer inspection fix-ups, and application optimisation capabilities.

**Skills Gained:**

This course includes the following topics:

- The methods used to manage the ACE appliance
- ACE features that provide IP application based security
- The capabilities and configuration of the ACE features used to provide load balancing of IP based applications
- The health monitoring capabilities of the ACE appliance
- Layer 7 processing options used to provide advanced application networking
- ACE support for SSL protocol processing
- Key application acceleration and optimisation features and their benefits in the overall design
- The High Availability features of the ACE appliance which are used to provide reliable application networking services
- A methodology used to design and configure multiple ACE feature

**Key Topics:**

- Lesson 1: Introducing ACE
- Lesson 2: Deploying ACE
- Lesson 3: Managing the ACE Appliance
- Lesson 4: Layer 4 Load Balancing
- Lesson 5: Modular Policy CLI
- Lesson 6: Health Monitoring
- Lesson 7: Layer 7 Protocol Processing
- Lesson 8: Security Features
- Lesson 9: Processing Secure Connections
- Lesson 10: Deploying Application

Acceleration and Optimisation

- Lesson 11: High Availability
- Lesson 12: Integrating Multiple Features
  
- Lab 1: Implementing Virtualisation
- Lab 2: Using NAT
- Lab 3: Configuring Server Load Balancing
- Lab 4: Implementing Health Monitoring
- Lab 5: Configuring Layer 7 Load Balancing
- Lab 6: Enabling Sticky Connections
- Lab 7: Enabling Protocol Inspection
- Lab 8: Configuring SSL Termination
- Lab 9: Enabling HTTP Optimisations
- Lab 10: Integrating Multiple Features
- Lab 11: Troubleshooting Case Study 1
- Lab 12: Troubleshooting Case Study 2

**Target Audience:**

This course is designed for systems engineers and network architects who need to design or deploy server load-balancing solutions using the Cisco ACE appliance.

**Prerequisites:**

You will gain the most from this course if you have a basic understanding of the following topics:

- TCP/IP protocol
- HTTP and SSL protocols
- N-tier application architecture
- Server load-balancing