



Expert Series Seminar—HPE Ethernet Virtual Interconnect (EVI) H8D13L

HPE course number	H8D13L
Course length	3-4 hours
Delivery mode	ILT
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This course consists of an introduction to the HPE Ethernet Virtual Interconnect (EVI). The course is designed to provide an overview of the technology and includes a hands-on lab to help reinforce the aspects covered.

Course description

This course introduces EVI technology to experienced networking professionals. Participants will learn how HPE Ethernet Virtual Interconnect (EVI) is implemented in the HPE Comware 7 platform, and will have opportunities to practice configuring EVI and performing verification of the functioning configuration.

This course is approximately 25 percent lecture and 75 percent hands-on lab activities.

Audience

IT professionals who will deploy and manage networks based on HPE Comware products.

Prerequisites

Students should possess experience with networking and common LAN protocols.

Course objectives

Describe, implement and verify HPE Ethernet Virtual Interconnect (EVI).

Benefits to you

This course will enhance your knowledge and skills in several areas of networking. You will gain proficiency in using the HPE Comware CLI. As a learner you will have sole control of set of equipment, in a zero risk environment and dedicated for you.

Detailed course outline

Module 1: EVI Overview

- Introduction to EVI
- EVI Operation
- EVI Configuration

Module 2: Supported Products

- Chassis Models
- Router Models

Module 3: EVI Operation

- EVI Terminology
- EVI Concepts
- EVI Network
- EVI Neighbor Discovery
- EVI Traffic Forwarding process
 - Unicast
 - Multicast
 - Flooding

Module 4: EVI Traffic Optimization

- ARP Suppression
- Selective Flooding

Module 5: EVI IS-IS Maximum MAC Address Announcement

Module 6: Design considerations

- Automatic Loop Avoidance

Module 7: Distributed L3 Gateway

- Active/Active DC design
- Active/Stand-by DC design

Module 8: WAN Link Load balancing

Module 9: Location Awareness

Module 10: Encryption Support

- Layer 2 based encryption - MacSec
- Layer 3 based encryption - IPsec

Module 11: Hybrid Cloud Solution with EVI /VSR

Module 12: HSR/MSR for End to End DC Cloud Solution

Module 13: Configuration Steps for EVI

- Basic configuration steps
 - Step 1: Configure the EVI Site-ID (Optional)
 - Step 2: Configure the Transport Interface
 - Step 3: Configure the EVI Tunnel Interface
 - Step 4: Configure the EVI Network ID
 - Step 5: Configure the Extended VLANs
 - Step 6: Configure ENDS
 - Step 7: Configure ENDC
 - Step 8: Verify
- Advanced configuration options
 - Advanced Step 9: ARP Suppression
 - Advanced Step 10: Selective Flooding
 - Advanced Step 11: Virtual-system IDs

Module 14: Lab Activity

- Setting up an EVI Tunnel

Module 15: Learning Check

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