

HPE Intelligent Resilient Framework (IRF) H8D11S

HPE course number	H8D11S
Course length	1 day
Delivery mode	ILT, vILT
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This seminar is an introduction to the HPE networking differentiator technology called HPE Intelligent Resilient Framework (IRF). The HPE IRF technology creates a large IRF virtual device from multiple devices to provide fast failover, scalability, manageability, and high availability. HPE IRF virtualization technology takes advantage of the augmented processing power, interaction, unified management, and uninterrupted maintenance of multiple switches. This seminar assumes that you are new to the IRF technology and provides an introduction to its operation and configuration. You will also have a hands on Lab Activity where you will configure an IRF topology with MAD.

Audience

- IT professionals who will deploy and manage networks based on HPE Comware devices

Prerequisites

- Students should possess experience with networking and common LAN protocols

Course Objectives

After completing this course, the student will be able to:

- Describe, implement, and verify HPE Intelligent Resilient Framework (IRF)

- Describe, implement, and verify Multiple Active Devices (MAD)
 - MAD Link Aggregation Control Protocol (LACP)
 - MAD Bidirectional Forwarding Detection (BFD) Detailed Course Outline

Benefits to you

- This seminar will enhance your knowledge and skills in several areas of networking. You will gain proficiency in using the HPE Comware 7 CLI. As a learner you will have sole control of set of equipment, in a zero risk environment dedicated to you.

Detailed course outline

IRF Virtualization

Traditional Network issues

- Slow network convergence
- Management complexity
- Poor performance
- Too many tradeoffs

IRF Advantages

- Design and operational simplification
- Flatter topology
- Higher efficiency
- Scalable performance
- Faster failover
- Distributed high availability and resiliency
- Geographic resiliency
- In-Service-Software-Upgrade

IRF versus STP

Supported Comware Products

IRF Analogy

- Chassis-Based Switches
- Chassis-Based Switches with IRF

IRF Topologies

- Daisy Chain
- Ring

IRF Components

- Topology Collection
- Logical IRF Ports
- IRF Domain
- Member IDs

IRF Resiliency

- N:1
- Protocol Information
- Link
- IRF Port

Electing a Master

Switch Configuration Files

IRF Topology and Forwarding Traffic

- Switching at Layer 2
- Routing at Layer 3

IRF Split Stack Condition

Multi-Active Detection (MAD)

- Functions of MAD
- MAD implementations

Detecting a Split Stack

- Comware-LACPDUs
- BFD

Preventing Addressing Conflicts and Stack Recovery

IRF Configuration Steps

Lab Activity

- Configure Advanced IRF Settings

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