



Expert Series Seminar–HPE Multitenant Device Context (MDC) H8D12S

This course is an introduction to the HPE Multitenant Device Context (MDC). The course is designed to provide an overview of the technology and includes a Hands On Lab (HOL) to help reinforce the aspects covered.

HPE course number	H8D12S
Course length	3-4 hours
Delivery mode	ILT
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Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
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Course description

This course introduces MDC technology to experienced networking professionals. Participants will learn how HPE Multitenant Device Context (MDC) is implemented in the HPE Comware 7 platform, and will have opportunities to practice configuring MDC, and performing verification of the functioning configuration. You will setup multiple tenants during this course.

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 Multitenant Device Context (MDC)

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 a set of equipment, in a zero risk environment and dedicated to you

Detailed course outline

Module 1: Feature overview	<ul style="list-style-type: none"> • MDC Overview • IRF versus MDC • MDC features • MDC applications
Module 2: MDC Benefits Overview	<ul style="list-style-type: none"> • MDC benefits
Module 3: Supported platforms	<ul style="list-style-type: none"> • Supported products
Module 4: Use Case 1: Datacenter change management	<ul style="list-style-type: none"> • Overview • Development Network • Quality Assurance (QA) Network
Module 5: Use Case 2: Customer isolation	
Module 6: Use Case 3: Infrastructure & customer isolation	
Module 7: Use Case 4: Hardware limitation workaround	
Module 8: MDC numbering and naming	
Module 9: Architecture	<ul style="list-style-type: none"> • Control Plane • ASICS • ASIC Control • Hardware limits • Console ports
Module 10: Design considerations	<ul style="list-style-type: none"> • ASIC Restrictions • Platforms
Module 11: Configuration Steps	
Module 12: Network Virtualization Types	<ul style="list-style-type: none"> • IRF • MDC • MDC and IRF
Module 13: IRF Based MDC	<ul style="list-style-type: none"> • IRF Based MDC Use Cases • Virtualization Hierarchy • MDC and IRF on 12500/12500E • MDC and IRF on 10500/11900/12900 • 10500/11900/12900 IRF Based MDC Split Scenario • 12500/12500E IRF Based MDC Split Scenario
Module 14: MDC & ISSU	
Module 15: MDC Deployment Best Practices	<ul style="list-style-type: none"> • Avoid Using MDC 1 For Production Networks • MDC Role Based Access Control (RBAC) • Use Multiple Links on Different LPUs to Prevent IRF Split • Connect MDC IRF Links Correctly on 12500/12500E • Minimize Traffic on MDC IRF-Port by Deploying MLAG links to ToRs/Servers or Other Devices • Undo MDC 1 Location Authorization • ISSU MDC Upgrade • MAD with IRF Based MDC
Module 16: Sample MDC Configurations	<ul style="list-style-type: none"> • Admin MDC • Non-default MDC
Module 17: Learning and Lab Activities	

Course data sheet

Learn more at
hpe.com/ww/learnnetworking

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