

Szkozenie: HPE
HPE Comware Data Center



Cel szkolenia:

This course gives experienced network engineers an opportunity to understand and practice configuration of data center protocols on HPE Comware devices. Participants configure Out of Band Management (OOBM), VPN-Instance, VXLAN, Ethernet Virtual Private Network (EVPN), Data Center Bridging Extension (DCBX), Fibre Channel over Ethernet (FCoE), and Zero Touch Provisioning (ZTP). The Non-Volatile Memory Express over Fabric (NVMe-oF) and Remote Direct Memory Access Over Converged Ethernet (RoCE) modules are discussion only. This course covers advanced topics; learners experience both theory and hands-on practice using real hardware through remote lab activities.

Course objectives

By the end of the course, you should be able to:

- Understand HPE Comware Data Center networking products
- Understand data center protocols and Configuration

Audience

This course is intended for network or systems administrators, network engineers, and consultants who plan to deploy HPE Comware 7 switches into a new or existing data center network.

Plan szkolenia:

- Introduction
 - Introduction
 - HPE vLabs access
- Products, Topology and OOBM
 - HPE FlexFabric and HPE FlexNetwork Switch and Router Series
 - HPE Intelligent Management Center (IMC)
 - HPE Intelligent Management Center Fabric Orchestrator
 - Topology - Spine Leaf
 - Out of Band Management (OOBM)
- Virtual Extensible Local Area Network (VXLAN)
 - L3 underlay (BGP/OSPF) with VXLAN L2/L3 overlay support

- Data center interconnect solutions
- VXLAN packet structure
- Configure VXLAN
- Ethernet Virtual Private Network (EVPN)
 - Static VXLAN
 - EVPN - dynamic VXLAN
 - Network layer reachability information (NLRI)
 - Route distinguisher and VPN target
 - Gateway
 - Configure EVPN
- Data Center Bridging (DCB)
 - Storage Area Network (SAN) Components
 - Convergence
 - Converged Network Adapters (CNA)
 - Lossless
 - Enhanced traffic selection (ETS)
 - Traffic selection
- Fiber Channel Over Ethernet (FCoE)
 - Storage device target responder
 - Hardware
 - Redundancy
 - System working mode
 - FCoE mode
 - FCF and NPV
 - Combined FCF-NPV and transit
 - Target ports to switch interfaces
 - BAGG, VLAN, VSAN and VFC
 - QoS on the physical interface
 - Zoning
- Non-Volatile Memory Express Over Fabric (NVMe-oF)
 - Flash instead of disk
 - NVMe
 - Storage networking in enterprise data centers
 - NVMe-oF
- Remote Direct Memory Access Over Converged Ethernet (RoCE)
 - Remote Direct Memory Access (RDMA)

- RDMA transport technologies
- RoCE v2 configuration
- Zero Touch Provisioning (ZTP)
 - Required servers
 - TFTP redirection 1
 - TFTP redirection 2
 - Alternative configurations

Wymagania:

Learners should have extensive networking experience including BGP and OSPF, to get the most from this training course. It does not require completion of any previous HPE networking courses.

Poziom trudności



Certyfikaty:

The participants will obtain certificates signed by HPE (course completion).

Prowadzący:

Authorized HPE Trainer