Introduction to HP Enterprise Networking Essentials

Duration: 1.00 Days      Course Code: HL006S

Overview:
This seminar covers the features of HP enterprise networking products that are part of the HP A-Series family based on HP's Comware operating environment. This seminar provides an overview of some of the key aspects of the product architecture and configurability. Although each user's goals and environments are different, there are several concepts that will help the student to understand how to take advantage of HP network products and deploy them effectively in any environment.
This seminar is aimed at Network Engineers and Managers who are planning or considering HP enterprise network products for their next generation network architecture. Learn about why HP networking products are at the heart of the next generation data center network and the key differentiators.

Target Audience:
Network Engineers and Administrators
Network Architects and Consultants

Objectives:
At the conclusion of this seminar you will be able to:

- Understand the significance of IRF
- Understand how the IMC product works
- Discuss features and benefits to HP A-Series network products based on Comware
- Understand some of the key differentiators for HP networking products

Prerequisites:

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Content:

Introduction to HP Enterprise Networking Essentials

Agenda
HP Enterprise Networking Overview
IT of the Future Will be Built on a Converged Infrastructure
HP Networking
HP is Changing the Rules of Networking
HP Networking Portfolio
The HP Networking End-to-End Portfolio
HP Networking at a Glance
Networking is at an Inflection Point
Driving Innovation in the Enterprise Data Center
Innovation At The Network Edge
Securing The Network Fabric Core To Edge
Business-Centric Network Management

Introduction to Basic Switching

Agenda
Introduction to Basic Switching
VLANs
VLAN – Layer 2
VLAN - 80.1Q Tagging
VLAN - 80.1Q Tagging (Packet Format)
VLAN Configuration – example
HP A-series vs Cisco Configuration
VLAN – Verification
Display vlan / show vlan of Cisco
VLAN Interface
Link Aggregation
Link Aggregation – Architecture
LACP
Link Aggregation – Comware V5
Display link-aggregation
What is STP?
Without 802.1D Spanning Tree
With 802.1D Spanning Tree
802.1D STP Port States
Fast Convergence at the Edge
What is IEEE 802.1w (RSTP)?
STP (802.1D) vs. RSTP (802.1w) Port Roles
Example: 80.1w Port Roles and States
Example RSTP Failover
STP Feature Comparison Slide for HP and Cisco
RSTP configuration HP vs. Cisco
MSTP Features
Basic MSTP Terminologies
Port Roles in MSTP
Port States in MSTP
MSTP Configuration
MSTP configuration HP vs. Cisco
MSTP Questions

Introduction to Basic Routing

Agenda
Routing Basics
Router Basics Local Routing
Static Routing
Dynamic Routing
Static Routes
HP vs. Cisco
Route Priorities
OSPF Overview Dynamic Routing Link State Principle OSPF
Module 6: OSPF Overview Dynamic Routing Link State Principle OSPF and IS-IS
OSPF Overview Dynamic Routing Link State Principle OSPF and IS-IS
OSPF Overview Dynamic Routing Broadcast Networks
OSPF Overview Dynamic Routing IP OSPF V2 Topology Overview
OSPF Configuration
OSPF HP Config vs. Cisco Config
Explicitly Specifying the Router ID
Specifying the Authentication at Area Level
Specifying the Authentication at Interface Level
Redistributing Static in to OSPF
Verify OSPF
Display ospf interface command
Display ospf database command

IMC - HP Intelligent Management Center

Agenda
Intelligent Management Center (IMC)
HP IMC
IMC Editions
IMC fills the Gap between 3ND ; EMS
IMC – Resource, Service and User integration
IMC Platform and Components
IMC is an Enterprise Class Solution
Powerful Administration Control
Rich Resource Management
Powerful Performance Management
Efficient Fault Management
Flexible Reporting
Simple VLAN Management
Comprehensive Configuration Management
ACL Management
Network Traffic Analysis
Intelligent Management Center is the future
Summary
Installation and Deployment Requirements
IMC Installation and Deployment Concepts
IMC Deployment Characteristics
IMC Setup
Starting IMC
Activating a License
IMC Homepage
My Favorites Shortcut
Add a URL to your Favorites
A Network Managers Checklist
Initial Setup and Configuration
Password Control
Configuring SNMP Parameters
Configuring Telnet Parameters
Create Device Groups
Create Operators
Creating / Assigning an Operator
Device Discovery
Add Device
Auto Discovery
Populating a Device Group
Device Group Confirmation
Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

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