

Routing Switch Essentials v5.21



At a glance

Routing Switch Essentials v5.21 provides networking professionals with an opportunity to learn about and configure the ProCurve Routing Switch 9300m and 3400cl/5300xl switches. The course uses a real-world scenario to provide networking professionals with the expertise necessary to deploy and use the 9300m and 3400cl/5300xl to support the needs of the contemporary network.

Format offered

Four day instructor-led course, approximately 30% lecture and 70% hands-on labs

Audience

Networking professionals

Prerequisites

- Adaptive EDGE Fundamentals
- IP Routing Foundations (IRF - eLMS code 24266)
- Some regions may require the successful passing of the IRF web-based exam HP3-102 before enrolling in the RSE training course.

eLMS code

23365

Cost

US \$500/day

Certification

This course prepares participants for one of the required exams for ASE – ProCurve Networking certification within the HP Certified Professional program. The exam number for Routing Switch Essentials is HP0-790. For more information on ProCurve Networking training and certification, go to <http://www.hp.com/go/procurvetraining>

Adaptive EDGE Fundamentals (AEF) v6.11

Topics covered

- Device configuration and management
- VLANs and IP interfaces
- Enabling port trunking
- Providing redundant links
- Providing redundant default gateways
- Designing and configuring IP networks
- Configuring OSPF
- Defining and applying ACLs

Student performance objectives

After completing Routing Switch Essentials v5.21, students will be able to:

- List the features and benefits of the ProCurve Routing Switch 9300m series
- Describe the management and port modules available for the 9300m
- Explain the components and advantages of the 9300m's distributed switching architecture
- Explain how the 9300m and other ProCurve switches support ProCurve Adaptive EDGE Architecture
- Install, configure, and monitor redundant management modules on the 9300m
- Compare the configuration options and commands available on the 9300m and the ProCurve Switch 5300xl series and 3400cl series
- Using the Command Line Interface, configure VLANs and virtual interfaces on the 9300m
- Describe the in-band management methods available on the 9300m
- Using the Command Line Interface, configure system-defined user accounts
- Using the Command Line Interface, configure local user accounts and use them to synchronize authentication methods for the in-band management methods
- Using the Command Line Interface, update 9300m system image files
- Using the Command Line Interface, save, backup, and restore 9300m configuration files
- Use the 9300m Boot Monitor to diagnose and recover from system problems or failures
- Identify port and slot numbers on the 9300m
- Describe the VLAN functionality of the 9300m
- Compare and contrast the VLAN functionality of the 9300m and the 3400cl/5300xl
- Given a set of customer requirements, configure VLANs and virtual interfaces on the 9300m
- Given a set of customer requirements, define static routes on the 9300m
- Describe the port trunking functionality of the 9300m series
- Compare and contrast the port trunking functionality of the 9300m and the 3400cl/5300xl
- Given a set of customer requirements, configure port trunking on the 9300m
- Describe the Spanning Tree functionality of the 9300m

- Compare and contrast the Spanning Tree functionality of the 9300m and the 3400cl/5300xl
- Describe the options for configuring the 9300m and the 3400cl/5300xl for interoperable Spanning Tree
- Given a set of customer requirements, configure Spanning Tree on the 9300m and the 3400cl/5300xl
- Describe the 9300m series' support for default gateway redundancy
- Describe the interaction of VRRP and Spanning Tree
- Compare and contrast VRRP and VRRP Extended (VRRPE)
- Given a set of customer requirements, configure VRRP and VRRPE on the 9300m
- Design a virtual router solution that will enable default gateway redundancy for enterprise clients
- Given a set of customer requirements, design an IP network addressing and routing scheme that uses intelligent edge devices
- Configure virtual, physical, and loopback interfaces on the 9300m
- Given a set of customer requirements, configure, monitor, and troubleshoot RIP on the 9300m and 3400cl/5300xl
- Given a set of customer requirements, design a route summarization and redistribution scheme
- Given a set of customer requirements, configure, monitor, and troubleshoot OSPF on the 9300m and the 3400cl/5300xl
- Given a set of customer requirements, define OSPF areas to enable efficient routing topologies
- Given a set of customer requirements, configure redistribution of external routes
- Describe the applications for ACLs on the 9300m and the 3400cl/5300xl
- Compare and contrast the uses and applications for standard and extended ACLs
- Distinguish between named and numbered ACLs
- Given a set of customer requirements, configure ACLs to effectively filter network traffic on the 9300m
- Monitor and troubleshoot ACL operation on 9300m and the 3400cl/5300xl