

EXTREME- Switching and Routing Boot Camp

Building and managing networks utilizing the Extreme Networks switching, routing and management capabilities

Students will be introduced to Network Management and Visibility using the Extreme Networks Management tool, NetSight, for managing network devices. Using the Open Systems Interconnection (OSI) Network Management Model (NMM), students have these concepts reinforced with a hands-on lab experience working with a preconfigured network. Students will perform real world tasks around the areas of configuration, fault, performance, accounting, and security management functions.

Duration: 4 days.

Course Overview:

Students will learn methods to properly configure, deploy, manage and troubleshoot their Extreme Networks switching and routing environments using the Extreme Networks operating systems (XOS and EOS) CLI. This knowledge will be reinforced through actual hands-on experience with networking equipment in a lab environment, where students will perform real world tasks configuring layer 2 & 3 convergence protocols, as well as understand scripting capabilities.

Who Should Attend:

Network Managers, Architects, and Systems Integrators

Course Prerequisite:

Due to the level of intensity of this accelerated course, Extreme Networks recommends that students should have previous hands-on experience with Extreme Networks switching and routing products prior to enrolling.

Course Objectives:

Upon completion of this course, students will have gained the working knowledge to successfully configure and manage their network implementation as well as take the Switching & Routing Specialist certification exams.

Course Agenda:

- Discussions regarding the Extreme Networks operating systems (XOS & EOS) including Switch Management & Stacking capabilities.
- Technical discussions around port configurations, building VLANs, 802.3ad Link Aggregation Protocol (LAG), MLAG, and Spanning Tree (STP, Rapid STP & Multiple STP) including hands-on labs.
- Introduction to Ethernet Automatic Protection Switching (EAPS) featuring building multi-ring solutions including hands-on labs.
- Introduction to High Availability Upgrade (HAU) and Virtual Switch Bonding (VSB) capabilities (EOS feature capability).
- Overview of Clear Flow, Ethernet Ring Protection Switching (ERPS – G.8032), Multicast support and simple troubleshooting steps.
- Discussions on Connectivity Fault Management (CFM) including operation and configuration elements.
- Technology overview and hands-on configuration regarding the Open Shortest Path First (OSPF) protocol which includes topics on importing static routes, redistribution of routes, Stub Areas, authentication, and troubleshooting techniques.
- Discussions and hands-on lab reinforcement on Access Control Lists (ACLs) including Role Based ACLs (RBACL), and Policy Based Routing (PBR).
- Technology overview, configuration and implementation of Protocol Independent Multicast – Sparse Mode (PIM-SM).
- Discussions regarding redundancy utilizing Virtual Router Redundancy Protocol (VRRP), including configuration and troubleshooting techniques.



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Academy

Recommended Next Course (s): NetSight Boot Camp, Advanced Routing

For Managers:

Switching and Routing Boot Camp is targeted for those users that have a strong background in networking as well as existing experience with Extreme Networks switching and routing products, and now require a more detailed level of knowledge of operation and management of their network environment.