

Szkozenie: Extreme Networks
Campus EXOS

Cel szkolenia:

Students will learn methods to properly configure, deploy, manage and troubleshoot their Extreme Networks switching and routing environments using the Extreme Networks operating systems ExtremeXOS 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.

Upon completion of this course, students will have gained the working knowledge to:

- Understand ExtremeXOS Switch Management
- Create and configure Untagged and Tagged VLANs
- Create and configure LAGs and Multi-Switch Link Aggregation (MLAG)
- Understand the ExtremeXOS implementation Spanning Tree
- Understand the Extreme Loop Recovery Protocol (ELRP)
- Understand Ethernet Automatic Protection Switching (EAPS) and configure advanced EAPS features in a multi-ring environment
- Create and configure LAGs and Multi-Switch Link Aggregation (MLAG)
- Understand and configure Virtual Router Redundancy Protocol (VRRP) Hidden content
- Configure routing using Static Routes
- Describe Access Control List (ACL) operation and configuration
- Understand and configure OSPF in a multi-area environment
- Describe IP multicast operation and configure IGMP and IGMP Snooping
- Understand and configure Protocol Independent Multicast (PIM) in both Dense and Sparse modes
- Use Extreme Management Center (XMC) for ExtremeXOS switch management
- Provide the information to be able to take the ECS Campus EXOS certification exam.

Plan szkolenia:

- Switch Management
 - Switch Management Access
 - Management User Types
 - Basic Management Commands

- Firmware Upgrades
- Configuration File Management
- Port Mirroring
- VLAN Configuration & Operation
 - ExtremeXOS Default VLAN Configuration
 - VLAN Type Support
 - VLAN Forwarding
 - VLAN Creation & Configuration
 - VLAN Security
- Spanning Tree
 - ExtremeXOS Spanning Tree Protocol Support
 - ExtremeXOS Spanning Tree Features
 - Multiple Spanning Tree (MSTP) Configuration
 - Verifying Multiple Spanning Tree
- Extreme Loop Recovery Protocol (ELRP)
 - ELRP Overview
 - ELRP Configuration
 - Ethernet Automatic Protection (EAPS)
 - Understand EAPS Operation
 - Configuring EAPS
 - Verifying EAPS Operation
- Advanced EAPS
 - EAPS Multiple Ring Topologies
 - Common Inter-Switch Link (Shared Port)
 - EAPS Shared Port Overview
 - EAPS Shared Port Configuration
 - EAPS Domains Priority
- Link Aggregation Groups (LAGs)
 - LAG Overview
 - Dynamic & Static LAGs
 - Load Sharing Algorithms
 - LAG Configuration & Verification
 - LAG Configuration Options
- Multi-Switch Link Aggregation Group (MLAG)
 - MLAG Operation
 - MLAG Configuration

- Verifying MLAG
- Routing Overview
 - Routing Basics Short Re-Cap
 - Configuring ExtremeXOS IPv4 Router Interfaces
 - Configuring Static Routes and Route Priority
 - Verifying the Routing Configuration
 - Equal Cost Multi-Path (ECMP)
 - ExtremeXOS Routing Support and Licensing
- Access Control Lists (ACLs)
 - ExtremeXOS ACL Implementation
 - ACL Conditions, Actions and Action Modifiers
 - Static ACL Operation and Configuration
 - Dynamic ACL Operation and Configuration
- Virtual Routing Redundancy
 - VRRP Overview
 - ExtremeXOS VRRP Support
 - Configuring and Verifying VRRP
 - VRRP Tracking Options
- OSPF Configuration
 - Overview of OSPF
 - OSPF Areas and Area Types
 - OSPF Operation
 - OSPF Hello protocol
 - OSPF Adjacency Process
 - Types of Link State Advertisements
 - Configure a Multi-Area OSPF network
 - Configure OSPF Options
- Policy Based Routing (PBR)
 - Configuring Policy-Based Routing
- Multicast Routing
 - IP Multicast
 - IP Multicast Addressing Scheme
 - Internet Group Multicast Protocol (IGMP) Operation
 - Configure IGMP
 - Protocol Independent Multicast-Sparse Mode (PIM-SM) Operation
 - PIM-SM Configuration

- Stacking
 - Stacking Overview
 - Stack Initialization & Operations
 - Stack Configuration
 - Configuring Stacking Options
- Extreme Management Center Introduction
 - Monitoring the network health
 - Use of automated tools
 - Visibility of end user devices
 - Remote management of devices
- Extreme Management Center Configuration
 - Device Credentials for Switch Management
 - Device Discovery
 - Switch Monitoring
- Appendix ExtremeXOS New Features From v22.1
 - Switching Features
 - Routing Features
 - Data Center Features
 - AAA ,Security & QoS Features
 - Management Features
 - Hardware & Licensing Features

Wymagania:

Students should possess a solid grasp of LAN concepts, including advanced Ethernet and TCP/IP skills

Poziom trudności



Certyfikaty:

The participants will obtain certificates signed by Extreme Networks.

This course prepares also for the Extreme Certified Specialist (ECS) – Campus EXOS certification exam.

More information about Extreme Networks certification program and available certification levels you can find on the https://academy.extremenetworks.com/e_certifications/

Prowadzący:

Authorized Extreme Networks Trainer.