

CCIE Security Workshop - The Practical Exam

This workshop serves as preparation for the CCIE Security Lab exam. It provides the participants with an understanding of the topics listed below at the level of a CCIE. The course consists of numerous practical exercises and can extend into the evening.

Course Contents

Firewalls - ASA

- Basic Configuration
- Transparent firewall
- Redundancy

Firewalls - Zone-Based

- Basic Configuration

Firewalls – Firepower Threat Defense (FTD)

- Basic Configuration
- Transparent firewall
- Redundancy
- Advanced Features

Virtual Private Networks (VPN)

- Basic VPNs
- Advanced VPNs
- IKEv2 VPNs
- FLEX VPN
- ASA VPNs

Content Filtering using WSA & ESA

- WSA
- ESA

Router / Switch Security

- Router Security
- Switch security

Basic Wireless LAN Configuration

- Configuring the base network
- WLC configuration

Identity Management using ISE

- Wired ISE
- Wireless ISE
- Device administration
- Router/Switch Authentication
- Router/Switch Exec & Command authorization
- Router/Switch Accounting

Basic Python scripts

- Basic Python Scripting
- Data Encoding Formats

Target Group

This course is designed for those who want to prepare intensively for the practical CCIE® Security exam at Cisco.

Prerequisites

Participants should have the knowledge of a CCNP Security and have successfully completed the exam for the course SCOR - Implementing and Operating Cisco Security Core Technologies (in planning). CCIE candidates should have five to seven years of experience in implementing security solutions before the exam.

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

www.expertech-training.com/go/CCIS

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training	Prices, excl. of V.A.T.	
Classes in Germany	10 Days	€ 13,995
Online Training	10 Days	€ 13,995
Date/course venue	Course language English	
06/10-17/10/25	06/10-17/10/25	Online

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Table of Contents

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Firewalls - ASA

- Basic Configuration
- Interface configuration
- Security Levels
- Management [Telnet / SSH]
- Routing [RIPv2, EIGRP, OSPF, BGP]
- NAT [Dynamic/Static NAT, Dynamic/Static PAT, Manual NAT]
- Access Policies
- Transparent firewall
- Initialization
- Access policies
- Ethernets ACLs
- Redundancy
- Redundant Interfaces
- Port-channels
- Security Contexts
- Failover [Active/Standby & Active/Active]
- Clustering [Spanned mode / Individual Interface mode]

Firewalls - Zone-Based

- Basic Configuration
- Configuring Zones
- Assigning Zones to Interfaces
- Configuring Zone-pair Policies
- Configuring Port-maps

Firewalls – Firepower Threat Defense [FTD]

- Basic Configuration
- FMC & FTD Integration
- Interface configuration
- Zones
- Routing [RIPv2, EIGRP, OSPF, BGP]
- NAT [Dynamic/Static NAT, Dynamic/Static PAT, Manual NAT]
- Access Policies
- Transparent firewall
- Initialization
- Access policies
- Ethernets ACLs
- Redundancy
- Multi-Instance
- High Availability
- Advanced Features
- Geolocation Filtering

- URL Filtering
- AVC
- Intrusion Policies
- Logging and Alerting
- Network AMP

Virtual Private Networks [VPN]

- Basic VPNs
- LAN-to-LAN IPsec VPNS [with NAT-T & without NAT-T]
- GRE, GRE/IPSEC
- Static-Virtual Tunnel interface [S-VTI]
- Advanced VPNs
- DMVPN
- GET VPN
- RRF-Aware VPNs
- VPNs using Certificates with Router as a CA Server
- IKEv2 VPNS
- Using legacy method
- Using S-VTI
- FLEX VPN
- D-VTI /S-VTI based Site-To-Site VPN
- D-VTI /S-VTI based Spoke-to-Spoke using NHRP
- ASA VPNS
- Site-to-Site IPsec – NAT-T
- Remote access
- Web VPN
- AnyConnect

Content Filtering using WSA & ESA

- WSA
- Initialization
- Integration with Routers/Switches/Firewall using WCCP
- Configuring traffic policies
- Configuring custom categories
- ESA
- Initialization
- Integration with E-mail servers and DNS
- Configuring Mail flow policies
- Configuring incoming mail filters

Router / Switch Security

- Router Security
- NTP
- uRPF

- DHCP server / DHCP Relay Agent
- Syslog
- Switch security
- Port-security
- DHCP snooping
- ARP Inspection
- Source guard
- VLAN ACL

Basic Wireless LAN Configuration

- Configuring the base network
- Configure the switches for the base network
- Configure DHCP server
- WLC configuration
- Initialization of the WLC
- Configuring VLAN interfaces
- Configuring WLANs

Identity Management using ISE

- Wired ISE
- Configuring the relationship between Switch & ISE
- Configuring Identity groups and users
- Configuring Dot1x authentication with VLAN assignment and DACL
- Configuring MAB for IP Phone with PC behind doing Dot1x authentication
- Wireless ISE
- Configuring the relationship between WLC & ISE
- Configuring Dot1x authentication with VLAN assignment
- Device administration
- Router/Switch Authentication
- Router/Switch Exec & Command authorization
- Router/Switch Accounting

Basic Python scripts

- Basic Python Scripting
- Data Encoding Formats
- JSON
- XML

