

A three day course in English

Advanced Network Security

Your trainer is Christopher Werny

Requirements: Basic knowledge of networks and TCP/IP

A workshop participation is possible from any PC/lap top/tablet with a stable internet connection. You don't need additional software. An up-to-date browser is sufficient (current Microsoft Edge, Google Chrome or Firefox). Access to the training lab will also take place via your browser. Exercises can be implemented without additional software. The workshop will of course be transmitted live from the ERNW studio. The workshop material as well as possible demos and of course the trainer are always visible and will be shown depending on the requirements or will be emphasized. We will provide the training material electronically before the start of the course. The trainer will answer questions live. The microphone and/or camera are optional. You can also ask questions via chat.

Description

This course is about the realisation of IT Security on the level of network infrastructure. Usually security is implemented at single points of a network (eg. at firewalls or on important servers). The perspective from an network infrastructure often is not taken care of. The growing complexity of network structures brings along many risks for secure traffic and high availability. You will learn what kind of dangers there are on a network level and how efficient security measures can be implemented.

16 - 18 June 2020

Our trainer, Christopher Werny, has many years of experience in different provider environments and in managing big enterprise networks – run them secure.

Course Agenda

Security problems on a topology level

- Zone model
- Security classification
- Segmentation

Typical security problems of Ethernet

- Sniffing
- ARP Interception
- Man-in-the-Middle Attacks

Wireless LANs

- Attacks and Counter measures
- Up-to-date technology

Security in Enterprise Networking

- Typical security problems in large networks
- House of Security
- Typical measures and their prioritization

VLANs und Security Aspects

- VLAN-Hopping
- VLANs with Authentication

Control Plane Protocols

- Impact on Security
- Spanning Tree
- CDP
- HSRP
- VTP
- DTP

Security of Routing Protocols

- RIP
- OSPF
- EIGRP
- BGP

WAN/Remote Access

- GRE
- IPsec
- Attacks against VPNs

Security of Network Devices

- Services
- Functions
- Modules
- Access Control (RADIUS, TACACS+, Kerberos)
- 802.1x based Access Control

Secure Management

- Security problems of SNMP
- Functionality of SNMPv3
- Logging & Log Analysis
- NTP

Transport Technologies

- Security Consideration
- MPLS Security Functions
- VPNs with MPLS
- EoMPLS
- L2-MPLS
- L3-MPLS

Voice over IP

- Security aspects and attacks
- Isolating VoIP using MPLS
- VOIP Hopping
- SIP Attacks
- H.323-Attacks

Multicast

- Securing Multicast-Traffic
- Multicast vs. IPsec
- SRTP

HM TRAINING SOLUTIONS ON-SITE SERVICE

All HM Training Solutions Seminars are available as On-Site presentations, tailored to meet the specific requirements of your organisation. For details please telephone +49 (0) 6022 508 200 (international).

Why you should attend

- Current trends and methods in network security
- Which areas of network security you need to examine
- Why you should not neglect them
- Which threats you have to pay attention to
- Which measures you can apply
- What the impact is on your system environment
- Deep knowledge on security protocols
- Funktionalität of current technologies

Target Groups

- IT security officer
- Project manager with security focus
- Auditor
- Administrator with security function
- Telecommunications operator
- Network provider
- Manufacturer of network products

What delegates say about Christopher's workshop:

»Know how of the speaker at the highest level«

Roland Miksch, Deutsche Telekom Technik GmbH, Bonn

»Comprehensive overview presented by an excellent expert«

Sebastian Fehrenbacher, KERN-LIEBERS, Schwamberg

»HM guarantees excellent know how and organisation. First choice for trainings.«

Martin Ritter, Commerzbank AG, Frankfurt

»Excellent outlook in network security«

Youcef Boussaid, Siemens AG, München

Biography Christopher Werny

Since 2006 Christopher Werny has been working for ERNW and is the head of ERNW's network security team. He has been involved in network security implementation and assessment projects in several very large environments and is widely regarded as one of the main specialists for IPv6 and IPv6 security. His research topics include 802.1x, IPv6 and virtualization security.

He started his Training Career in 2006 with the focus of primarily networking and security topics. Since 2007, he has dedicated a lot of time in IPv6 Research and the security implications of the new protocol. He has given IPv6 Workshops since that time on multiple occasions all over the globe.

His most recent Workshop (Advanced IPv6 Security) was done at the Troopers 2012 Conference in Heidelberg. He holds a number of Cisco certifications and loves to dive into the depth of protocol analysis."

REGISTRATION DETAILS

Three Ways to Register

- By Post:** Please complete and return this form to HM Training Solutions.
- By Fax:** Please fax this registration form to: +49 6022 508 9999.
- By e-Mail:** Info@hm-ts.de

Registration Fees

€ 1,750 + VAT 19%

Joining Instructions

Your booking will be confirmed by e-mail containing full event details.

Change of Terms


It may be necessary for reasons beyond our control to alter the venue, timetable or content of this seminar or to appoint another speaker alternatively or to cancel the event. We accept no liability for any other cost.

Cancellations

Should you need to cancel your booking please confirm in writing either by email (info@hm-ts.de), fax (+49 6022 508 9999) or post. No refunds will be considered for cancellations occurring within six weeks of the start of the event. However, we are happy to accept substitutions at any time; prior notice is appreciated

On-Site Presentations

All HM Training Solutions seminars are available as on-site presentations tailored to meet the specific requirements of your organisation. For more information please call +49 (60 22) 508200.

 **The number of delegates is limited. Therefore please immediately return this booking form**

REGISTRATION FORM

Advanced Network Security

- Please reserve _____ places at a cost of **1,750 €** + VAT 19% per participant
- 16 - 18 June 2020**

Mr/Mrs/Miss/Other _____ First Name _____ Last Name _____

Job Title _____

Company _____

Address _____

Postcode _____

Country _____

Telephone _____

Mobile number _____

E-Mail _____

Signature _____

BOOKING REFERENCE:

M37

You will receive the course documentation as pdf before the beginning of the course.

Payment

Cheque enclosed for € _____

Please invoice my company _____

Invoice address (if different) _____

Purchase order no. _____

Additional Registrations

1. Mr/Mrs/Miss/Other _____ First Name _____ Last Name _____

Job Title _____

2. Mr/Mrs/Miss/Other _____ First Name _____ Last Name _____

Job Title _____

3. Mr/Mrs/Miss/Other _____ First Name _____ Last Name _____

Job Title _____