IPv6 and Security

How to Properly Secure Networks and End Devices

The introduction of IPv6 gives rise to new security questions both for providers of enterprise networks and for private customers. After all, IPv6 offers new options to compromise a network. One the one hand, this includes variants of existing types of attack, on the other hand, IPv6 opens up new security gaps. To protect an IPv6 network, it is not merely required to clarify these basic security issues but also to find out whether the components used so far—i.e.firewalls, proxies or intrusion prevention systems (IPS)—are actually equipped for IPv6. Which is the correct method for migration under security aspects? Which changes occur due to the permanent availability of public addresses after the elimination of NAT? Which gaps appear in Windows operating systems due to tunneling mechanisms, such as Teredo, without even migrating to IPv6 and how can these gaps be mended? This course gives a detailed overview of these highly topical questions. The students will learn to assess the level of danger introduced in their networks by IPv6 and to plan comprehensive security measures.

Course Contents

- New points of attack through IPv6
- Securing IPv6 addressing
- The auxiliary protocols ICMPv6 and DHCPv6 from a security perspective
- IPv6 and First Hop Security
- Securing IPv6 networks
- Securing endpoints
- Securing routers for IPv6
- Adapt firewalls to IPv6
- Securing the migration

E-Book You will receive the comprehensive documentation package of the ExperTeach Networking series – printed documentation, e-book, and personalized PDF! As online participant, you will receive the e-book and the personalized PDF.

Target Group

This course is designed for planners, administrators and security managers intending to design, prepare, or assist in a migration to IPv6. Attendance at this course can be credited for T.I.S.P. recertification.

Prerequisites

The students require sound know-how of the traditional IP world and need to be familiar with the new protocol. Participation in the course IPv6 - Addressing, Routing is often recommendable as a preparation. A further requirement is that the students know and understand common security concepts.

This Course in the Web

You can find the up-to-date information and options for ordering under the following link: www.experteach-training.com/go/**IP6S**

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in an 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!

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Training		Prices, excl. of V.A.T.
Classes in Germany	**2 Days**	**€ 1,595**
Classes in Austria	**2 Days**	**€ 1,595**
Classes in Switzerland	**2 Days**	**€ 2,150**
Online Training	**2 Days**	**€ 1,595**

Date/course venue — Course language German

19/09-20/09/24	Berlin	13/02-14/02/25	Online
19/09-20/09/24	Hamburg	13/02-14/02/25	Zürich
19/09-20/09/24	Online	13/03-14/03/25	Düsseldorf
24/10-25/10/24	Frankfurt	13/03-14/03/25	Online
24/10-25/10/24	Online	10/04-11/04/25	Berlin
24/10-25/10/24	Zürich	10/04-11/04/25	Hamburg
21/11-22/11/24	Düsseldorf	10/04-11/04/25	Online
21/11-22/11/24	Online	08/05-09/05/25	Online
19/12-20/12/24	Online	08/05-09/05/25	Wien
19/12-20/12/24	Wien	05/06-06/06/25	Frankfurt
16/01-17/01/25	München	05/06-06/06/25	Online
16/01-17/01/25	Online	03/07-04/07/25	Hamburg
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