Enterprise Networks

Protocols and Technologies on Campus and in the WAN

Established LAN concepts such as Ethernet or wireless LANs as well as the protocols of the TCP/IP family are constantly being developed further in order to be able to implement applications such as Voice over IP. Servers, databases and applications are centralized in data centers instead of being installed on local computers. Communication takes place via the network. Intelligent network components such as multilayer switches or routers also offer a wide range of structuring options for the network and performance features such as quality of service. If you want to find your way in this environment, you need sound knowhow. Based on a modern network design for companies, all components, protocols and services required for the function and operation of the network are examined. Participants will learn about the technologies and their function in the network. At the end of the course, participants will have a complete overview of a modern company network and will be able to independently process and solve standard tasks relating to building cabling, the commissioning of switches and routers or the implementation of VLANs and IP networks.

Course Contents

- Protocols and technologies in LAN and WAN
- Universal building cabling
- Ethernet LANs high-speed variants up to 100 Gigabit
- Power over Ethernet
- Switching, VLANs, spanning tree, link aggregation, stacking, virtual chassis
- Wireless LANs SSIDs, access points and controllers
- Port security and IEEE 802.1X
- IP and IPv6 addressing, subnets, auxiliary protocols (ARP, ICMP, DHCP, DNS)
- Routing Static or dynamic with OSPF and BGP
- VPN and Internet access
- network management
- Outlook on modern developments (SDN, NFV, fabric concepts)
- Practical exercises on a test network

E-Book The detailed digital documentation package, consisting of an e-book and PDF, is included in the price of the course.

Target Group

The course is aimed at technically oriented employees such as network administrators who require in-depth theoretical and practical knowledge of setting up and operating Ethernet and IP networks.

Prerequisites

This is a basic course. Initial experience with networks or knowledge, such as that gained by attending the course Network Technologies - Everything you need to know at a glance! is helpful, but not required.

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/LRSW

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!

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

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