

Technical Trainings

IPv6 Training: Functionality, setup and troubleshooting

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Intensive Training: Understanding, Implementing and Troubleshooting IPv6

Immerse yourself in the world of IPv6 and gain a comprehensive understanding of the latest generation of Internet Protocol in this two-day training course. From the basics to advanced concepts, participants will be able to implement, optimize, and manage IPv6 in their networks.

Target Audience: This training is designed for network administrators, IT professionals, security professionals, and anyone who wants to expand their IPv6 knowledge and put it into practice.

Benefits: Upon completion of this training, participants will be able to successfully implement and manage IPv6 in their networks, and address security-related considerations. The hands-on approach allows participants to apply what they have learned directly in their professional environment.

Duration: 2 days

Course type: Face-to-face workshop

Course content:

Basics and Introduction

- Introduction to IPv6: Why the Switch to IPv4 and Key Differences
- The structure of the IPv6 header
- Addressing and Subnetting: The IPv6 Address Structures and Efficient Subnetting
- Unicast, multicast, and anycast addresses
- Default Address Selection
- Router Configuration: Basic configuration of IPv6 routers and devices
- IPv6 Packet Structure: The Structure of IPv6 Packets and Their Differences from IPv4
- DHCPv6 and DNSv6

Advanced Topics and Practice

- IPv6 Importance for TCP and UDP
- IPv6 Security: Implementing Security Mechanisms in IPv6 Networks
- IPv4 to IPv6 Migration: Strategies and Best Practices
- How 6to4, ISATAP, Teredo and 6rd work
- NAT64 and DNS64
- IPv6 in practice: Hands-on exercises to apply what you have learned
- Monitoring and Troubleshooting: Tools and techniques for monitoring and resolving problems in IPv6 networks

Preconditions:

Your own PC with Microsoft Windows, Wi-Fi and Ethernet port. Admin rights to install software and change network and firewall settings. Good prior knowledge of networking basics and IPv4.

Contact

Do you have any questions about the content, interest in my service or any other concerns?

I look forward to your message.

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