

Advanced Packet Analysis with Wireshark Analyzer (APAW)

ID APAW **Price** 2,390.— €(excl. tax) **Duration** 3 days

Our Wireshark workshops are now available with new content and in-depth exercises!

More info can be found under "Course Outline".

Who should attend

Network administrators and all other technical staff responsible for the planning, implementation and ensuring high performance operation of their data networks.

Prerequisites

Course participants should be familiar with the basic concepts of network analysis, the operation of Wireshark, and the creation of display and capture filters. This content is taught in the [Packet Analysis with Wireshark Analyzer \(PAW\)](#) course.

Course Objectives

This course provides participants with the knowledge necessary for detailed analysis and troubleshooting of typical network environments using Wireshark Analyzer. The main focus is on the analysis of TCP/IP networks and TCP/IP-based applications.

Course Content

- Switched Ethernet analysis
- TCP/IP analysis of the network layer
- TCP/IP analysis of the transport layer
- Analysis of TCP/IP with Wireshark
- TCP/IP applications

Detailed Course Outline

Switched Ethernet Analysis

- Ethernet Analysis
- VLANs and VLAN tagging

TCP/IP analysis of the network layer

- IP Addressing
- Typical IP network problems
- IP options
- ICMP, ARP and DHCP

TCP/IP Analysis of the Transport Layer

- TCP Functions
- Session Setup, Data Transfer and Session Teardown
- Window mechanism and window optimization
- TCP options (SACK, Window Scaling) and TCP timer
- TCP graphs
- UDP functions

Analysis of TCP/IP with Wireshark

- Wireshark settings for advanced TCP/IP analysis
- Typical problems with TCP/IP
- Wireshark Expert info messages and their meaning

TCP/IP applications

- HTTP
- FTP
- DNS
- TLS

About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

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