IPv6 in Applications

Getting Applications Ready for the Future

While many organizations have already started the migration to IPv6 networks, applications are often neglected during this transition. Networks and infrastructure are often already IPv6-capable, but many applications have not been adequately prepared for the requirements of IPv6. This leads to incompatibilities and operational disruptions. With the impending complete switchover to IPv6, it is becoming increasingly urgent for companies to make their software solutions and applications fit for operation in IPv6 networks.

This IPv6 course aims to close this gap. It teaches in detail how applications can be developed and adapted for IPv6. Participants will learn about the differences in design and functionality of IPv6 compared to IPv4 and how to successfully integrate these differences into their software projects. Typical challenges such as the support of multiple addresses, the absence of broadcasts and the use of ICMPv6 will be covered. Participants will also gain valuable insights into dual-stack programming to support IPv4 and IPv6 in parallel.

Course Contents

- Introduction to IPv6: Special features and design differences to IPv4
- Address types, address structure and configuration of IPv6
- Dual-stack programming and migration of applications
- Programming with the socket API (C, C++, Java, Python, etc.)
- Testing and optimizing IPv6-capable applications
- IPv6 in various programming languages
- RFCs for IPv6 in applications

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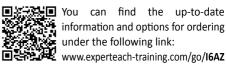
Target Group

Developers, software architects and IT professionals who want to make applications IPv6-ready or use them in IPv6 environments.

Prerequisites

Basic knowledge of (network) programming and network knowledge, knowledge of IPv4 in applications.

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/**I6AZ**

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.

Training		Prices, excl. of V.A.T.
Classes in Germany	**2 Days**	**€ 1,795**
Online Training	**2 Days**	**€ 1,795**
Date/course venue	Course language German	
25/08-26/08/25 Frankfurt	11/12-12/12/25 Frankfurt	
25/08-26/08/25 Online	11/12-12/12/25 Online	

Status 04/08/2025

ExperTeach

Our Training Offer for You:

Classroom Training
The live training experience in our training centers or on your premises on-site.

Online Training
Attend your course in online mode – without travel and accommodation expenses and effort.

Hybrid Training
Classroom & online in one course – choose how you wish to participate in your training event.

In-house Training
We create your customized training concepts for your project.

Guaranteed Course Dates
ExperTeach guaranteed course dates allow for secure and reliable planning.

Awards Won by ExperTeach