

DNS Advanced BIND 9 Configuration

Today, the Domain Name System (DNS) is one of the most business-critical applications. The Internet in its current form could not be implemented without DNS. Any company using the Internet, be it to exchange e-mails, to acquire information, or to transact e-commerce, needs a functioning DNS service. With the expansion of the Internet, the demands made on DNS have grown, as well, such as the interaction with DHCP servers and the resulting security aspects. In this course, the implementation of BIND 9 is carried out, a view is taken on the DNS architecture, and the conventional name server concepts are presented. After the course, the participants will have acquired a profound knowledge of the functions and options of application of BIND 9. Moreover, they will have the know-how required to independently configure a DNS server. In addition, the participants will be able to carry out systematic troubleshooting in the case of faults.

Course Contents

- DNS Concepts
- BIND 9
- Configuration of a DNS Server
- Master/Slave
- Zone Files
- Resource Records
- Dynamic DNS
- ENUM Concept
- DNS Security
- Troubleshooting

In this course of the ExperTeach Networking series, each student will receive the comprehensive ExperTeach course documentation.

Target Group

The course is designed for administrators and technicians who configure DNS servers under BIND 9. Moreover, it addresses designers and consultants who wish to acquire a profound know-how on BIND implementation.

Knowledge Prerequisites

To gain optimum profit from the course, participants should have a good know-how of TCP/IP. This knowledge can be acquired by attending the TCP/IP course. Knowledge of UNIX/Linux systems will also be helpful.

Reservation and Registration

We will be glad to make a free and non-binding course reservation for you for the duration of two weeks. On www.experteach-training.com under *Registration*, you can conveniently make course reservations, registrations, and hotel reservations. Alternatively, call us under +49 6074 4868-0.

For closed groups of participants, we can modify the course contents according to your requirements. Do not hesitate to contact us!



3 days €1,545 exclusive of V.A.T.

Course date (mm/dd/yy)/Location

04/11-04/13/12	Frankfurt	09/12-09/14/12	Frankfurt
06/20-06/22/12	Frankfurt	12/12-12/14/12	Frankfurt

Up-to-date information: www.experteach-training.com DNSA



EXPERTeach





- 1 Addresses and Names**
 - 1.1 Who Assigns Official IP Addresses?
 - 1.1.1 IP Address Structure and Assignment
 - 1.1.2 Subnetting of IP Networks
 - 1.1.3 Supernetting and CIDR
 - 1.1.4 Internet Access via Private Addresses
 - 1.2 Name Assignment
 - 1.2.1 The Domain Name
 - 1.2.2 ENUM—Call Number Mapping and Detection
 - 1.2.3 IDN—Internationalized Domain Names
 - 1.2.4 DNS and IPv6
 - 1.3 Connectivity Coordination Request and CHPROV

- 2 Working Mode of the DNS Servers**
 - 2.1 Functioning of the Domain Name System
 - 2.1.1 Resource Records
 - 2.1.2 Exercise: Name Resolution in Detail
 - 2.2 E-Mail and DNS
 - 2.3 Master and Slave Name Server

- 3 DNS Server Concepts**
 - 3.1 The Standard Concept
 - 3.2 DNS Forwarder
 - 3.3 Hidden Primary
 - 3.4 Split Level DNS Server
 - 3.5 Dynamic DNS

- 4 DNS—Configuration and Implementation**
 - 4.1 The DNS Client
 - 4.2 Configuration of Bind 9
 - 4.2.1 The Configuration File named.conf
 - 4.2.2 The Zone Files
 - 4.3 Exercise: Configuration of a Master Name Server
 - 4.3.1 Exercise: Starting and Stopping the Name Server
 - 4.3.2 Exercise: Monitoring the named
 - 4.3.3 Access Control via ACLs
 - 4.3.4 Exercise: The Remote Control—rndc
 - 4.3.5 Logging for Troubleshooting
 - 4.3.6 The Name Cache
 - 4.3.7 Exercise on Split DNS
 - 4.4 Exercise: Configuration of a Slave Name Server
 - 4.5 nslookup—Helpful and Dangerous

- A Troubleshooting**

- B The vi-Editor**

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