



Stefan Kania
IT-Consulting durch Training

Stefan Kania
Landweg 13
25693 St. Michaelisdonn



+49 4853 880642
+49 172 5307326
stefan@kania-online.de

Seminar

OpenLDAP Administration

Prior knowledge

Good knowledge of Linux system administration and the most important network services. LDAP knowledge is not required.

Prerequisites

For the seminar, you will need four Linux systems with a basic installation without a GUI. The seminar will be based on Debian 13. The Symas packages will be used, so Redhat-based distributions are also possible. After installing the packages, administration is identical on all systems.

Seminar content

The administration of users, groups, and other resources is becoming increasingly complex in a Linux environment and requires a great deal of knowledge about service configuration. Each Linux network service often requires its own user management or a connection to a central LDAP server. Synchronizing individual user databases is almost impossible. This makes setting up your own LDAP infrastructure all the more important, as it allows you to connect all applications to a central database. This seminar shows you how to centrally manage your users with OpenLDAP. The seminar is based on the current LTS version 2.6. The entire configuration is implemented via the backend `cn=config` and is therefore dynamic. One focus is on setting up ACLs for assigning permissions in the LDAP tree.

The following configurations will be made during the seminar:

- Distribution-independent installation of the Symas packages and adaptation to your own environment
- Comparison of static and dynamic configuration
- Use of ARGON2 for password encryption
- Setting up the first OpenLDAP server via dynamic configuration
- Planning a directory tree
- Encryption of data transmission using TLS
- Configuration of sssd as LDAP client
- Indexing of the LDAP tree
- Setting up LAM as a graphical front end for both object management and configuration
- Management of ACLs for assigning permissions
- Filters for searching in the LDAP tree
- Replication of the database to a second LDAP server
- Setting up delta-syncrepl to make replication more efficient
- Managing public keys in LDAP and switching from ssh server
- Restricting access to clients using sssd

Objectives

You will be able to plan and implement an LDAP directory based on an OpenLDAP installation. You will be able to connect individual network services to this directory for authentication. You will be able to set up and check replication between a provider and multiple consumers. You will be able to increase the security of OpenLDAP through the targeted use of ACLs.

Important information about the course

The seminar is based on OpenLDAP 2.6, the current OpenLDAP version, and takes place online. A minimum of 3 participants is required for the seminar to take place. If this number is not reached, I will inform you promptly about alternative dates or options. Maximum number of participants: 8. You will be notified as soon as the required minimum number of participants is reached.

Times:

Monday to Thursday 9:00 a.m. to 12:30 p.m. and 1:30 p.m. to 5:00 p.m.

Friday 9:00 a.m. to 12:00 p.m. and 1:00 p.m. to 3:00 p.m.

Two coffee breaks are scheduled and will be flexibly adjusted to the learning progress and dynamics of the group to ensure optimal learning.

Dates:

November 17, 2025 to November 21, 2025 (5 days) Registration by November 5, 2025 at the latest

Registration start:

Immediately

Price:

Please inquire about the price.

The full price must be transferred to the N26 bank account before the seminar begins. However, please do not transfer the money before you receive official confirmation of the seminar.

IBAN: DE42 1001 1001 2627 8157 76

BIC: NTSBDEB1XXX

Your place in the seminar is only secured once the payment has been received on time. If the deadline (2 days before the start of the seminar) is not met, your place in the seminar will be given to someone else.