LDAP Authentication

LeweAuto can authenticate users against an LDAP directory such as OpenLDAP or Active Directory. LDAP is **authentication only**: accounts, roles, groups and vehicle assignments stay in LeweAuto and nothing is copied from the directory.

How it works

- Set `LDAP_YES=1` in `.env.<target>` to enable LDAP for all users.
- The built-in `admin` account always authenticates against the LeweAuto database, so an administrator can still sign in when the directory is unavailable.
- Users must already exist in LeweAuto. The username must match the attribute configured in `LDAP_USER_ATTR` (`uid` by default, or `sAMAccountName` with `LDAP_ADS=1`).
- The login page tells users that LDAP authentication is active.
- Password changes and password resets for external accounts are handled by the directory, not by LeweAuto.

Configuration

```
LDAP_YES=1
LDAP_ADS=0
LDAP_HOST=ldap.example.com
LDAP_PORT=389
LDAP_PASS=secret_password
LDAP_DIT=cn=read-only-admin,dc=example,dc=com
LDAP_SBASE=dc=example,dc=com
LDAP_TLS=0
LDAP_CHECK_ANONYMOUS_BIND=0
LDAP_SEARCH_BIND=0
LDAP_USER_ATTR=uid
LDAP_TIMEOUT=5
```

Variable	Meaning
`LDAP_ADS`	`1` for Active Directory; defaults the user attribute to `sAMAccountName`
`LDAP_DIT` / `LDAP_PASS`	Bind account used to search the directory
`LDAP_SBASE`	Search base
`LDAP_TLS`	`0` none, `1` STARTTLS on `LDAP_PORT` (usually 389), `2` implicit TLS/LDAPS (usually 636)
`LDAP_CHECK_ANONYMOUS_BIND`	Test an anonymous bind before the real bind
`LDAP_SEARCH_BIND`	Bind as the user after the search instead of only searching
`LDAP_USER_ATTR`	Attribute that holds the username
`LDAP_TIMEOUT`	Network timeout in seconds

Do not put comments on the same line as a value. Keep these settings in `.env` so they survive upgrades.

Test the connection

The test tool accepts a flag:

```
npm run test:auth -- --ldap
```

This checks the directory login in addition to the local tests.

> ⚠ LDAP is disabled for the `admin` account on purpose. Keep a working local administrator password even when the whole team uses the directory.

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