The DSpace Course - Configuring LDAP

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The DSpace Course

Module – Configuring LDAP
By the end of this module you will:

- Understand how DSpace uses LDAP for authentication
- Be able to configure a DSpace instance to authenticate against an LDAP server
- Know which tools to use and how to use them in order to test LDAP connection issues
An introduction to LDAP


- Tree structure:
  - DC = domain component
  - OU = organisational unit
  - CN = common name
  - DN = distinguished name
    - My DN is:
      - CN=stuart,OU=users,DC=testathon,DC=net
How DSpace uses LDAP

- How does DSpace use LDAP?

  - User enters their username (netid) and password
  - DSpace tries to connect (bind) to the LDAP server using the user’s credentials
  - If successful, DSpace then retrieves the users’ details (name, email, telephone number)
Stackable authentication

- Stacks different authentication mechanisms on top of each other
- Each is tried until one succeeds, or none succeed

IP → LDAP → Password → Failure
LDAP settings:

- `ldap.provider_url = ldap://ldap.testathon.net:389/`
- `ldap.id_field = cn`
- `ldap.object_context = OU=users,DC=testathon,DC=net`
- `ldap.search_context = OU=users,DC=testathon,DC=net`
- `ldap.email_field = mail`
- `ldap.surname_field = sn`
- `ldap.givenname_field = givenName`
- `ldap.phone_field = telephoneNumber`
Enabling LDAP

- **Stackable authentication setting:**
  - `plugin.sequence.org.dspace.authenticate.AuthenticationMethod = \` 
    `org.dspace.authenticate.LDAPAuthentication`
  - Or
  - `plugin.sequence.org.dspace.authenticate.AuthenticationMethod = \` 
    `org.dspace.authenticate.LDAPAuthentication, \` 
    `org.dspace.authenticate.PasswordAuthentication`
  - `ldap.enable = true (JSPUI only)`
Testing your LDAP settings

- Use an LDAP client
  - LDAP Browser:
    - Allows you to use the settings in dspace.cfg to log in to an LDAP server and view the output visually
LDAP Browser

- Log in:
LDAP Browser

- See the tree:
Practical – enable LDAP

- LDAP settings:
  - ldap.provider_url = ldap://ldap.testathon.net:389/
  - ldap.id_field = cn
  - ldap.object_context = OU=users,DC=testathon,DC=net
  - ldap.search_context = OU=users,DC=testathon,DC=net
  - ldap.email_field = mail
  - ldap.surname_field = sn
  - ldap.givenname_field = givenName
  - ldap.phone_field Bye bye= telephoneNumber

- Users are: stuart, john and carol.
- Passwords are the same as the usernames
These slides have been produced by:

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