The DSpace Course

Module – Configuring LDAP
Module objectives

- 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
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
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