ABOUT ME
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- Software Engineer at IKTEK, a french Open Source and Identity Management company
- Committer/Member at the Apache Software Foundation
- Current Apache Directory project Chairman
AGENDA
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• The State of Apache Directory Studio
• Presentation of Apache Directory Studio 2.0
• Questions
THE STATE OF APACHE DIRECTORY STUDIO
WHAT IS APACHE DIRECTORY STUDIO?
WHAT IS APACHE DIRECTORY STUDIO?

• An LDAP client platform based on Eclipse, extending it with several plugins and also extensible by third parties developers.

• Can be installed into a standard Eclipse distribution.

• Can also run as a standalone multi-platform application (Mac OS X, Linux and Windows).

• Free, Open Source (developed at the Apache Software Foundation) and distributed under the Apache License 2.0.
5 MAJOR FEATURES
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• An LDAP Browser
• An LDIF Editor
• A Schema Editor
• A Configuration Editor for ApacheDS
• An integrated ApacheDS LDAP Server utility
ARCHITECTURE
HISTORY & FUTURE
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• Version 1.0 released at first LDAPCon, Sept. 2007 in Köln.

• 5 major improvements releases since then.

• Latest stable version is 1.5.3, released in April 2010.

  • More than 250,000 downloads (standalone application only).

  • On a 150,000 downloads/year curve (standalone application only).

• Work on the 2.0 version started more than a year ago.
PRESENTATION OF APACHE DIRECTORY STUDIO 2.0
A COMMON CODE-BASE ACROSS PROJECTS
A COMMON CODE-BASE ACROSS PROJECTS

• Work on ApacheDS 2.0 started at the same time.

• Leveraging a same code base for commonly used LDAP concepts like attributes, entries, etc.

• Few changes in the UI but major modifications in the inside.
A COMMON CODE-BASE ACROSS PROJECTS
THE APACHE DIRECTORY
LDAP API
THE APACHE DIRECTORY
LDAP API

• Initially co-presented at LDAPCon 2009 by OpenDS from Sun Microsystems and the Apache Directory teams.

• An API based on the LDAP Protocol.

• Easy to use and versatile.

• Support for simple and complex connections, entries, attributes and values manipulation, utilities for LDIF files.
THE APACHE DIRECTORY
LDAP API

// Creating the LDAP connection
LdapConnection connection = new LdapNetworkConnection( "localhost", 10389 );

// Binding
collection.bind( "uid=admin,ou=system", "secret" );

// Searching for entries
EntryCursor results = connection.search( new Dn( "ou=system" ), "(objectClass=*)", SearchScope.SUBTREE, "*" );

// Iterating on the results
while ( results.next() ) {
    // Getting the next entry
    Entry entry = results.get();

    // Iterating on the entry’s attributes
    for ( Attribute attribute : entry ) {
        // Iterating on the attribute's values
        for ( Value<?> value : attribute ) {
            // TODO: Do something with the value
        }
    }
}

// Adding an entry
Entry entry = new DefaultEntry( "ou=group, ou=system" );
entry.add( "objectClass", "top", "organizationalUnit" );
entry.add( "ou", "group" );
connection.add( entry );

// Deleting an entry
connection.delete( "ou=group, ou=system" );

// Closing the LDAP connection
connection.close();

/* ---------------------------------------------------------------------- */

// Reading a LDIF file
LdifReader ldifReader = new LdifReader( "Users/pajbam/Desktop/file.ldif" );

// Iterating on the entries in the LDIF file
while ( ldifReader.hasNext() ) {
    // Getting the next entry
    LdifEntry ldifEntry = ldifReader.next();
}

// Closing the LDIF reader
ldifReader.close();
THE APACHE DIRECTORY
LDAP API
CONFIGURATION PLUGIN FOR APACHEDS 2.0
APACHEDS 2.0

• New in DIT and LDIF-based configuration (no more XML & Spring).

• Rewritten Schema Manager.

• Improved replication following RFC 4533 (same as OpenLDAP):
  • Master-Slave
  • Multi-Master

• OSGi compliant.
CONFIGURATION PLUGIN FOR APACHE DS 2.0

• Reads the configuration of an ApacheDS 2.0 server live, over a connection in the LDAP Browser and/or via its LDIF file on the disk.

• The graphical editor allows you to edit basic settings, as well as partitions and indexes configurations.
CONFIGURATION PLUGIN FOR APACHEDS 2.0
NEW EXTENSIBLE LDAP SERVERS PLUGIN
NEW EXTENSIBLE LDAP SERVERS PLUGIN

- Inspired from the ApacheDS LDAP Server plugin.
- Makes it easy to create, start and stop a new LDAP Server.
- Perfect for running an LDAP Server in the “development” phase of a project.
- Its extension point allows the addition of new LDAP Servers Adapters.
NEW EXTENSIBLE LDAP SERVERS PLUGIN
DEMONSTRATION
THANK YOU!
QUESTIONS?

(AND ANSWERS...)