Integrating NiFi with LDAP Hands On

What Is LDAP?

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Step 1: Create LDAP server via docker compose

Step 2: Create users.ldif

Step 3: Add users to LDAP

Step 4: Generate TLS for nifi

Step 5: Use generated properties file and modify parameters

Step 6: modify Idap-provider in login-identity-providers.xml

Step 6: Modify authorizers.xml file-provider

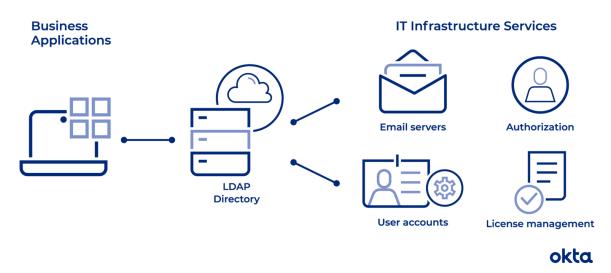
Sources

What Is LDAP?

Companies store usernames, passwords, email addresses, printer connections, and other static data within directories. LDAP is an open, vendor-neutral application protocol for accessing and maintaining that data. LDAP can also tackle authentication, so users can sign on just once and access many different files on the server.

<u>LDAP</u> is a protocol, so it doesn't specify how directory programs work. Instead, it's a form of language that allows users to find the information they need very quickly.

How LDAP Works



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Step 1: Create LDAP server via docker compose

Step 2: Create users.ldif

dn: cn=admin,dc=nifi-example,dc=com
objectClass: simpleSecurityObject
objectClass: organizationalRole

cn: admin

description: LDAP administrator

userPassword: SuperSecret

dn: cn=john, dc=nifi-example, dc=com
objectClass: simpleSecurityObject
objectClass: organizationalRole

cn: john

description: Regular user userPassword: password123

Step 3: Add users to LDAP

```
ldapadd -x -H ldap://localhost:389 -D cn=admin,dc=nifi-example,d
```

Step 4: Generate TLS for nifi

```
./tls-toolkit.sh standalone -n 'nifi-example.com' -o target-nif:
```

Step 5: Use generated properties file and modify parameters

```
nifi.security.user.authorizer=managed-authorizer
nifi.security.allow.anonymous.authentication=false
nifi.security.user.login.identity.provider=ldap-provider
```

Step 6: modify Idap-provider in login-identityproviders.xml

```
ovider>
  <identifier>ldap-provider</identifier>
  <class>org.apache.nifi.ldap.LdapProvider</class>
  property name="TLS - Keystore">
  property name="TLS - Keystore Password">
  property name="TLS - Keystore Type">
  property name="TLS - Truststore">
  property name="TLS - Truststore Password">
  property name="TLS - Truststore Type">
  cproperty name="TLS - Client Auth">
  property name="TLS - Protocol">
  property name="TLS - Shutdown Gracefully">
  property name="Referral Strategy">FOLLOW/property>
  operty name="Connect Timeout">10 secs
  property name="Read Timeout">10 secs
  roperty name="Url">ldap://nifi-example.com:389
  con={0}
```

Step 6: Modify authorizers.xml file-provider

Sources

