WebSphere Portal 6 and OpenLDAP v1.0

This updates my previous document **WebSphere Portal 6 and OpenLDAP v1.0** which I pulled together in late 2006 to help a partner get the two products working together.

I had cause to revisit this subject recently when another colleague was looking to achieve the same objective, albeit with more recent versions of both software products.

This time around, it took me long to find a copy of OpenLDAP, downloaded as **openldap-2.2.29-db-4.3.29-openssl-0.9.8a-win32_Setup.exe** as Lucas Bergman no longer links to the Win32 binaries from his site: -

http://lucas.bergmans.us/hacks/openldap/

However, a Google search did the trick – if anyone wants the binary, go Google or, if I'm feeling really kind, I'll share my copy with you.

I would still refer anyone to my previous two documents: -

Setting up OpenLDAP for use with WebSphere Portal 6.pdf

and: -

WebSphere Portal 6 and OpenLDAP v1.0.pdf

with regard to setting up OpenLDAP, as the essentials haven't changed.

However, the most recent version of WebSphere Portal (at time of writing, although v6.1 is just about to ship TODAY) which is/was v6.0.2.3 does have one subtle difference. The Configuration Wizard no longer accepts OpenLDAP as being similar to IBM Tivoli Directory Server, and the wizard itself “barfs” when you try and persuade it that the two LDAPs are the same.

Therefore, it was necessary to do some hand-cranking to achieve the same objective.

This, in essence, involves hand-editing the configuration files, manually disabling security (out-of-the-box WebSphere Portal is “secured” against the native database; DB2 UDB or Cloudscape) and then manually enabling security against OpenLDAP.

Disable Security

a)

Backup and then edit **wpconfig.properties** and set the correct passwords for: -

WasPassword
PortalAdminPwd

These passwords should be the same and will be as entered during the installation process.

b)

Ensure that DB2 is started, if you're using this instead of Cloudscape (I was using WebSphere Portal Express which uses DB2 UDB by default)

c)

Start the server1 instance of WebSphere Application Server using the command: -

C:\ibm\WebSphere\profiles\wp_profile\startServer.bat server1

d)

Change to the WebSphere Portal configuration directory: -

cd \WebSphere\PortalServer\config

e)

Disable security

WPSconfig.bat disable-security

f)

Assuming you see a “BUILD SUCCESSFUL”, you can proceed with the next step.

Modify Property Files

It is necessary to amend the following three property files: -

wpconfig.properties
wpconfig_dbdomain.properties
wpconfig_sourceDb.properties

In the case of wpconfig.properties, the following properties need to be set (or validated) to match the OpenLDAP environment: -

WasUserid=cn=wpsadmin,ou=People,dc=ibm,dc=com
WasPassword=<password>
PortalAdminId=cn=wpsadmin,ou=People,dc=ibm,dc=com
PortalAdminPwd=<password>
PortalAdminGroupId=cn=wpsadmins,ou=Groups,dc=ibm,dc=com
WpsContentAdministrators=cn=wpsContentAdministrators,ou=Groups,dc=ibm,dc=com
WpsDocReviewer=cn=wpsDocReviewer,ou=Groups,dc=ibm,dc=com
WcmAdminGroupId=cn=wcmadmins,ou=Groups,dc=ibm,dc=com
LookAside=true
LDAPHostName=stargate.uk.ibm.com
LDAPAdminUId=cn=Manager,dc=ibm,dc=com
LDAPAdminPwd=<password>
LDAPServerType=IBM_DIRECTORY_SERVER
LDAPBindID=cn=wpsadmin,ou=People,dc=ibm,dc=com
LDAPBindPassword=<password>
LDAPSuffix=dc=ibm,dc=com
LdapUserPrefix=cn
LDAPUserSuffix=ou=People
LdapGroupPrefix=cn
LDAPGroupSuffix=ou=Groups
LDAPUserObjectClass=inetOrgPerson
LDAPGroupObjectClass=groupOfUniqueNames
LDAPGroupMember=uniqueMember
LDAPUserFilter=(&(uid=%v)(objectclass=inetOrgPerson))
LDAPGroupFilter=(&(cn=%v)(objectclass=groupOfUniqueNames))

Furthermore, it's also necessary to amend **wpconfig_dbdomain.properties** and **wpconfig_sourceDb.properties** and set the following **ten** passwords: -

release.DbPassword
customization.DbPassword
community.DbPassword
jcr.DbPassword
jcr.DbSaPassword
wmm.DbPassword
feedback.DbPassword
likeminds.DbPassword
designer.DbPassword
sync.DbPassword

Finally, it's also necessary to amend C:\WebSphere\PortalServer\wmm \wmmLDAPAttributes_IDS.xml and change: -

<attributeMap wmmAttributeName="extId" applicableMemberTypes="Person;Group;Organization;OrganizationalUnit" pluginAttributeName="**ibm-entryUUID**" dataType="String" multiValued="false" readOnly="true"/>

to: -

<attributeMap wmmAttributeName="extId" applicableMemberTypes="Person;Group;Organization;OrganizationalUnit" pluginAttributeName="**entryUUID**" dataType="String" multiValued="false" readOnly="true"/>

This file is used during the enable security process, because we set LDAPServerType to IBM_DIRECTORY_SERVER in wpconfig.properties file. OpenLDAP does not support the **ibm-entryUUID** identifier, so we used **entryUUID** instead.

Once you've amended all four property files, security can be enabled as follows: -

a)

Ensure that DB2 is started, if you're using this instead of Cloudscape (I was using WebSphere Portal Express which uses DB2 UDB by default)

b)

Start the server1 instance of WebSphere Application Server using the command: -

```
C:\ibm\WebSphere\profiles\wp_profile\startServer.bat server1
```

c)

Change to the WebSphere Portal configuration directory: -

```
cd \WebSphere\PortalServer\config
```

d)

Validate the property files: -

```
WPSConfig.bat validate-ldap
```

Assuming you see a “BUILD SUCCESSFUL”, you can proceed with the next step.

e)

Disable security

```
WPSconfig.bat enable-security-ldap
```

f)

Assuming you see a “BUILD SUCCESSFUL”, your portal should now be secured against OpenLDAP, and you can test this by: -

(a) starting the portal and logging on as wpsadmin
(b) registering a new user and then logging on with that ID

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