Enabling LDAPv3 for OS X 10.3 at the University of Michigan

1. Log in to the computer using an account with administrative privileges.

2. Open the Directory Access utility from the Utilities folder inside the Applications folder. You'll need to authenticate by clicking on the lock icon.
3. **LDAPv3** should already be enabled; if not, check the checkbox. It's pretty likely that you won't need any of the other services selected, so deselect them now. Select the **LDAPv3** line and click the **Configure...** button.

4. Select the location you want to configure, deselect **Use DHCP-supplied LDAP Server**, and click on the **Show Options** button.
5. Click on the New... button. Double-click on Untitled 0, and change it to umichldap.v3. Double-click on unknown.domain.com and change it to ldap.itd.umich.edu. Change the LDAP Mappings drop-down menu from From Server to Custom -- this will automatically open the custom configuration window. Currently, SSL is not supported (it will be soon); so for now, don't select the SSL checkbox.

6. Under the Connection tab, you shouldn't need to make any changes, so click on the Search & Mappings tab. Unlike 10.2, you DO need to add an Attribute for the Default Attribute Types. Under the Record Types and Attributes box, click on the Add button.
7. Make sure the **Attribute Types** radio button is selected, select **RecordName** and then click the **OK** button. Double-click the top line in the **Map to any items in list** box, and type in **uid**.
8. Under the **Record Types and Attributes** box, click the **Add...** button again. Make sure the **Record Types** radio button is selected. Select **Users** and then click the **OK** button. Click inside the **Search base** text box. Type in `ou=people, dc=umich, dc=edu`.
9. Back in the **Record Types & Attributes** box, make sure **Users** is selected and click the **Add** button again. Make sure the **Attribute Types** radio button is selected. Select **RecordName**.
and click the **OK** button. Again, back to the **Map to** box and click the **Add** button. Type in **uid**.
10. Repeat the same steps using the following information:

<table>
<thead>
<tr>
<th>Attribute Type</th>
<th>Maps to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>RecordName</td>
<td>uid</td>
</tr>
<tr>
<td>RealName</td>
<td>cn</td>
</tr>
<tr>
<td>UniqueID</td>
<td>uidnumber</td>
</tr>
<tr>
<td>PrimaryGroupID</td>
<td>gidnumber</td>
</tr>
<tr>
<td>NFSHomeDirectory</td>
<td>homedirectory</td>
</tr>
<tr>
<td>UserShell</td>
<td>loginshell</td>
</tr>
<tr>
<td>EmailAddress</td>
<td>mail</td>
</tr>
</tbody>
</table>

11. When you are finished, click the **OK** button. At the next screen, click the **OK** button there as well.
12. Click on the Authentication tab. Change the Search drop-down menu from Automatic to Custom path. You can remove any previous custom paths by selecting them and clicking the Remove button. Then click the Add button, and select /LDAPv3/ldap.itd.umich.edu. Then click the Add button. Nothing under the Contacts tab needs to be configured, so you can click on the Apply button. Click on the red close-window button, Save the changes, and you are done!
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Directory Access

Choose where to search for user authentication information.

Search: Custom path

Directory Node
/NetInfo/root

Drag directory nodes into your preferred order for searching.

Remove  Add...

Click the lock to prevent further changes.

Revert  Apply

Please select additions to the custom search policy from the list of available directories below.

Available Directories
/BSD/local
/LDAPv3/ldap.itd.umich.edu

Cancel  Add
13. Start the **Terminal** application from the **Utilities** folder in the **Applications** folder.

14. Type `id uniquename <Enter>`, where uniquename is a "Michigan Person" who does not have a local user account on the computer. The reply will come back `id: uniquename: No such user` until the changes come through; then you should get the uid, gid, and groups values for that uniquename. That indicates that everything is working correctly.
Additional sites for your UM OS X Configurating pleasure:

http://www.umich.edu/~arosenbl has pages on configuring both MIT Kerberos and OpenAFS
http://www.itd.umich.edu/macos/macosx_more.html The "more" page has all the good stuff.

Well, more is MORE, isn't it?

Reloading a lab? You need Radmind...
http://rsug.itd.umich.edu/software/radmind/macosx.html

Running logout scripts, or other scripts that want a gui?
http://rsug.itd.umich.edu/software/ihook

Setting up a lab in the first place?
http://www.macosxlabs.org is where you need to go. No, trust me; you need to go there.

How about a free secure ftp client?
http://rsug.itd.umich.edu/software/fugu