IT 3110 Systems Design and Administration II
LDAP Practical Exam
7 March, 2013

Instructions:

- Any values specified in fixed-width font below are to be taken literally. For example, “password as adminpw” means that the password is exactly those characters specified (adminpw).
- You have been assigned two new virtual systems. These systems are basic installations, with no extra services installed. Complete each task as described on these virtual systems.
- Reference material may be used. This includes online references and completed homeworks, but does not include other people.
- The value of each task is listed in () after the task number.
- Your virtual systems will be graded at 11:45 am. Complete as much of the work as possible before that time.

Tasks:

1. LDAP server tasks to be completed on the LDAP server system. Make sure that this is the machine that was assigned as the LDAP server. You must do your own testing to verify the correctness of your work.

   - (10) Install slapd and ldap-utils.
   - (10) Configure the LDAP database. Configure the administrator (cn=admin) password as 9springbreak9. Use dixiestateu.com as the DNS domain name for LDAP.
   - (10) Create the two new LDAP organizational units ou=People and ou=Groups.
   - (15) Create a new posix group in the LDAP database. The group’s name is acooper. The gidNumber for the group is 1881.
   - (15) Create a new posix user in the LDAP database. The user’s real name is “Alice Cooper”, and the username is acooper. The uidNumber and the gidNumber for the user are both 1881. Set the password for this user to be 9grim8facts9.
   - (0) Do you own testing to verify that this configuration is working correctly. This should include verification of all passwords and existance of all database contents.

2. LDAP client tasks to be completed on the LDAP client system. Make sure that this is the machine that was assigned as the LDAP client. Note that this system will be using MY LDAP SERVER. The server has the following configuration:

   - IP Address 144.38.216.125
   - Base DN dc=utahsg,dc=edu
   - Privileged Administrator DN cn=admin,dc=utahsg,dc=edu
   - Privileged Administrator PW from-the-inside
   - LDAP User Name billy
   - LDAP User Password 1look2out5

   - (10) Install the software packages necessary to make the system behave as an LDAP client. Also install ldap-utils.
   - (15) Configure the software packages necessary to make the system behave as an LDAP client, using MY LDAP SERVER as specified above. No LDAP authentication is necessary when a normal user accesses the LDAP database. Use the Privileged Administrator for LDAP access when the root user accesses the LDAP database.
   - (15) Create a home directory for LDAP User listed above on this system, and give correct permissions and ownership to the directory and its contents.
   - (0) Test that your configurations are working correctly.