**IT 3110: Systems Design and Administration II**

**LDAP Security**

**Assignment**

This assignment will review LDAP and add security measures.

**Tasks**

- Create another new system for an LDAP server with security measures.
- The LDAP server should be fixed ip (DHCP), with DNS A and PTR records.
- The LDAP server should be a well behaved mail client. Create the common user name created in previous assignments for sending/receiving email.
- Install OpenLDAP on the LDAP server.
- Create the basic DIT structure discussed in class (base, admin, Groups, People).
- Create the security admins in the DIT structure discussed in class (Etc, priv, nonpriv).
- Create at least 10 posix users, with their groups and passwords.
- On one new linux client machine, install and configure the LDAP extensions for libnss and libpam.
- On the new linux client machine, create home directories for each of the posix users created above.
- Verify that the users are working correctly on the client machines. Be sure to test user and root level LDAP access.
- Test to be sure the system is working correctly.

**Submission**

- Be sure to do full testing.

**Passoff**

**On the LDAP Server**

The output of these commands is relevant:

```
slapcat | grep ^dn
slapcat -b "cn=config" | grep ^olcAccess
```

**On the LDAP Client**

The output of these commands is relevant:

```
ls -l /home
id SOMEUSER
sudo id SOMEUSER
ls -l /etc/ldap.secret /etc/ldap.conf
egrep "^(base|uri|bind|root)" /etc/ldap.conf
sudo cat /etc/ldap.secret
egrep "^(passwd|group|shadow)" /etc/nsswitch.conf
```