**Network Directory Services Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**OpenLDAP CLI Lab**

**Instructions**: This activity is designed to get you comfortable using some of the many built in commands using OpenLDAP rather than do everything via a GUI, such as PHP LDAP Admin for example. Please complete each section to the best of your ability.

**Section 1: Searching for information using built-in LDAP filters.**

Please briefly describe each command below. Include details about what command options are being used, any filters that are being used, and what information you get back in the results. Note: See *ldapsearch --help* for help on usage and some of the many different options that are available. Also, replace the dc sections to fit your setup.

ldapsearch -x -LLL -H ldap:/// -b dc=maximus,dc=net

ldapsearch –x –b dc=maximus,dc=net

**Section 2: Prelude to using LDIF files**. What does LDIF stand for? What information does it contain?

**Section 3: Creating organizational units or a grouping of some kind (ex. user groups**). Save the following information into a file (ex. gladiators.ldif):

dn: ou=gladiators,dc=maximus,dc=net

ou: gladiators

description: the greatest gladiators of all of Rome

objectclass: organizationalUnit

Next, run the following command (you will have to change yours accordingly):

*ldapadd -x -D “cn=admin,dc=maximus,dc=net” -f gladiators.ldif –W*

How do you know if it worked or not? What might you check to see if it did or did not?

What happens if you run the command a second time?

**Section 4: Adding information in LDAP. For example, adding people to our group.** Save the following information into a file (ex. marcus.ldif):

dn: cn=Marcus Aurelius , ou=managers, dc=maximus,dc=net

objectClass: inetOrgPerson

cn: Marcus

sn: Aurelius

uid: marcusaurelius

userpassword: MarcusAurelius

carlicense: IMARCUS

homephone: 444-444-4444

mail: marcus.aurelius@maximus.net

description: gladiator trainer

ou: managers

Next, run the following command to try adding it:

*ldapadd –x –D cn=admin,dc=maximus,dc=net –w password –c –f marcus.ldif*

How do you know if it worked or not? What might you check to see if it did or did not?

Repeat the steps, so that you have 3 different users in the group you created in Section 3. Be sure to save these user files, so that if you need to recreate them again you can. Lastly, please write down the names of your users and their phone numbers here:

**Section 5. Updating information using LDAP.** For the user file you created in Section 3, update one of your users to have the phone number 123-456-7890 using the *ldapmodify* command. (Note: Your command will look similar to *ldapmodify -x -D cn=admin,dc=maximus,dc=net -f marcus.ldif -W* ) What steps did you have to take to make this happen? What was the command you used?

**Section 6. Deleting information using LDAP.** Using the *ldapdelete* command, try removing a user. What steps did you take? What was the command you used?

**Section 7. Am I done? Maybe. The answer is always maybe.** Please verify your completed work with the instructor, get the magic sign-off, and we can call it a job well done.

**Instructor sign-off: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**