

## **Workshop 1 – install openldap on Centos5 & OpenLDAP Server startup**

### **Part1: install openldap**

Step 1: installation

```
# yum install openldap openldap-clients openldap-servers
```

The suite of OpenLDAP libraries and tools are included within the following packages:

- **openldap**: Contains the libraries necessary to run the OpenLDAP server and client applications.
- **openldap-clients**: Contains command line tools for viewing and modifying directories on an LDAP server.
- **openldap-servers**: Contains the servers and other utilities necessary to configure and run an LDAP server.

Step 2: Review Openldap package

```
# rpm -ql openldap
/etc/openldap/cacerts
/etc/openldap/ldap.conf
/usr/lib/libldap-2.3.so.0 ... & more
/usr/share/doc/openldap-2.3.43 ... & more
/usr/share/man/man5/ldap.conf.5.gz
/usr/share/man/man5/ldif.5.gz
/usr/share/openldap
```

Step 3: Review Openldap-clients package

```
# rpm -ql openldap-clients
/usr/bin/ldapadd
/usr/bin/ldapcompare
/usr/bin/ldapdelete
/usr/bin/ldapmodify
/usr/bin/ldapmodrdn
/usr/bin/ldappasswd
/usr/bin/ldapsearch
/usr/bin/ldapwhoami
/usr/share/man/man1/ldapadd.1.gz ... & more
```

Step 4: Review configuration of Openldap-servers package

```
# rpm -qc openldap-servers
/etc/openldap/schema/ ... & more
/etc/openldap/slapd.conf ← Main Configuration
/etc/pki/tls/certs/slapd.pem
/etc/rc.d/init.d/ldap ← Service Script
/etc/sysconfig/ldap
```

Step 5: Review applications of Openldap-servers package

```
# rpm -ql openldap-servers | grep bin
/usr/sbin/slapacl
/usr/sbin/slapadd
/usr/sbin/slapauth
/usr/sbin/slapcat
/usr/sbin/slapd ← Main Server
```

```
/usr/sbin/slapd_db_* ... & more  
/usr/sbin/slapdn  
/usr/sbin/slapindex  
/usr/sbin/slappasswd  
/usr/sbin/slaptest  
/usr/sbin/slurpd ← Old Replication Server (Version 2.3)
```

## Part 2: OpenLDAP Server Setup:

Step 1: Edit the /etc/openldap/slapd.conf file to specify the LDAP domain and server.

```
# vim /etc/openldap/slapd.conf
```

Line 86: suffix	“dc=lp1,dc=org”
Line 87: rootdn	“cn=Manager,dc=lp1,dc=org”
Line 93: rootpw	qazwsx

Note: Manager from “cn=Manager,dc=lp1,dc=org” is case-insensitive.

Step 2: Start slapd service.

```
# /sbin/service ldap start
```

Step 3: check ldap process

```
# netstat -antp | grep 389
```

Step 4: Use chkconfig or /usr/sbin/ntsysv to start at boot time.

```
# chkconfig ldap on
```