How to install OpenLDAP and phpldapadmin in CentOS?

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How to Install OpenLDAP and phpldapadmin in CentOS 7?

Overview: This article explains how to install OpenLDAP and phpldapadmin in CentOS 7.

Step 1: Install openIdap packages.

```
root@centos ~]# yum install openldap openldap-servers openldap-
clients -y
```

Step 2: Start and enable openIdap service.

root@centos ~]# systemctl start slapd && systemctl enable slapd

Step 3: Create an admin LDIF file and replace olcSuffix and olcRootDN.

```
root@centos ~]# vim bind.ldif
```

```
dn: olcDatabase={2}hdb,cn=config
changetype: modify
replace: olcSuffix
olcSuffix: dc=centos,dc=com
```

```
dn: olcDatabase={2}hdb,cn=config
changetype: modify
replace: olcRootDN
olcRootDN: cn=admin,dc=centos,dc=com
```

Step 4: To make these changes, run Idapmodify command with the appropriate name.

root@centos ~]# ldapmodify -Y EXTERNAL -H ldapi:/// -f bind.ldif

Step 5: Run the below command to generate a password for admin user.

```
root@centos ~]# slappasswd
New password:
Re-enter new password:
{SSHA}lPFlwdh9G8040VQ7WPtNjWz5bgx53Hc0
```

Step 6: Create a password LDIF file and replace the password with yours.

```
root@centos ~]# vim password.ldif
dn: olcDatabase={2}hdb,cn=config
changeType: modify
add: olcRootPW
olcRootPW: {SSHA}lPFlwdh9G8O4OVQ7WPtNjWz5bgx53HcO
```

Step 7: To make these changes, run Idapmodify command with the appropriate name.

root@centos ~]# ldapmodify -Y EXTERNAL -H ldapi:/// -f

password.ldif

Step 8: To allow access to the LDAP database, replace olcAccess attribute with yours.

```
root@centos ~]# vim config.ldif
dn: olcDatabase={1}monitor,cn=config
changetype: modify
replace: olcAccess
olcAccess: {0}to * by
dn.base="gidNumber=0+uidNumber=0,cn=peercred,cn=external, cn=auth"
read by dn.base="cn=admin,dc=centos,dc=com" read by * none
```

Step 9: To make these changes, run **Idapmodify** command with the appropriate name.

root@centos ~]# ldapmodify -Y EXTERNAL -H ldapi:/// -f config.ldif

Step 10: Use Idapsearch to validate the attribute that has changed.

```
root@centos ~]# ldapsearch -Y EXTERNAL -H ldapi:/// -b cn=config
olcDatabase=*
```

Step 11: Check configuration with the below command.

root@centos ~]# slaptest -u

Step 12: Create a LDIF file that saves the base DN.

```
root@centos ~]# vim base.ldif
```

```
dn: dc=centos,dc=com
o: ldap
objectclass: dcobject
objectclass: organization
```

Step 13: Run Idapadd command with the bind DN and enter admin password to add base.Idif.

```
root@centos ~]# ldapadd -f base.ldif -H ldapi:/// -D
cn=admin,dc=centos,dc=com -W
```

Enter LDAP Password:

Step 14: Install phpldapadmin package.

root@centos ~]# yum -y install phpldapadmin

Step 15: Edit **phpldapadmin** configuration file and comment **#Require local** and add a new line **Require all granted**.

root@centos ~]# vim /etc/httpd/conf.d/phpldapadmin.conf

#Require local Require all granted

Step 16: Update the configuration file located at **/etc/phpldapadmin/config.php** to match the example shown below.

```
root@centos ~]# vim /etc/phpldapadmin/config.php
$servers->setValue('server','name','CentOS LDAP');
$servers->setValue('server','host','127.0.0.1');
$servers->setValue('server','port',389);
$servers->setValue('server','base',array('dc=centos,dc=com'));
$servers->setValue('login','attr','dn');
// $servers->setValue('login','attr','uid');
$servers->setValue('login','bind_id','cn=admin,dc=centos,dc=com');
$config->custom->appearance['hide_template_warning'] = true;
```

Step 17: After making the changes, open the browser and access your LDAP administration dashboard with http://server_ip/phpldapadmin

Step 18: The following image shows the GUI of phpldapadmin.



Step 19: Click on the "login" button at the top left corner of GUI to log in to the admin dashboard.

ogin DN:		
👮 cn=admin,dc=ezeelogin,dc=com 🔤		
Password:		
۹,		•••
Anonymous 🗌	Authenticate	

Step 20: Creating groups in LDAP

Step 20(A): Click on the create a new entry and select the Object which you want to create.



Step 21: Create User in LDAP

Step 21(A): Click on the create a new entry and select Generic: User Account. Specify the username, select the GID Number from the drop-down menu, provide home directory, password, user ID and then click on Create Object to create the user.

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Home Purge caches Show Cache			
My LDAP Server ()	Create Obje	ect	
schema search refresh info import export logout	Server: My LDAP Server Container: cn=Sysadmins,dc=ezeelogin,dc=com Template: Generic: User Account (posixAccount)		
Logged in as: cn=admin	New User Account (Step 1 of 1)		
- cn=admin	Common Name	alias, required, rdn	
cn=Ellen Mathew	Cathy Mathew	*	
cn=Ron M	First name	alias	
cn=Eznoc_security (2)	Cathy		
cn=Rayan Floy	GID Number	alias, required, hint	
Create new entry here ① cn=Sysadmins	Sysadmins 🗸	*	
a ou=groups	Home directory	alias, required	
Create new entry here	/home/users/Cathy		
	Last name	alias, required	
	Mathew	*	
	Login shell	alias	
	[/bin/sh ╰		
	Password	alias, hint	
) (confirm)	
	Check password		
	UID Number	alias, required, hint, ro	
	1 005		
	User ID	alias, required	
	Cathy	*	
	Create Object		
	Greate Object	122	

1.2.2 Sourceforge

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Online URL: https://www.ezeelogin.com/kb/article/how-to-install-openIdap-and-phpIdapadmin-in-centos-426.html