How to install OpenLDAP and phpldapadmin in CentOS?

426 Nesvin KN July 23, 2025 General, Technical 26415



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 openldap packages.

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

Step 2: Start and enable openldap 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 **ldapmodify** 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}lPFlwdh9G8O4OVQ7WPtNjWz5bgx53HcO
```

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 **ldapmodify** 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 **ldapmodify** command with the appropriate name.

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

Step 10: Use **ldapsearch** 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 **ldapadd** command with the **bind DN** and enter **admin password** to add **base.ldif**.

```
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
```

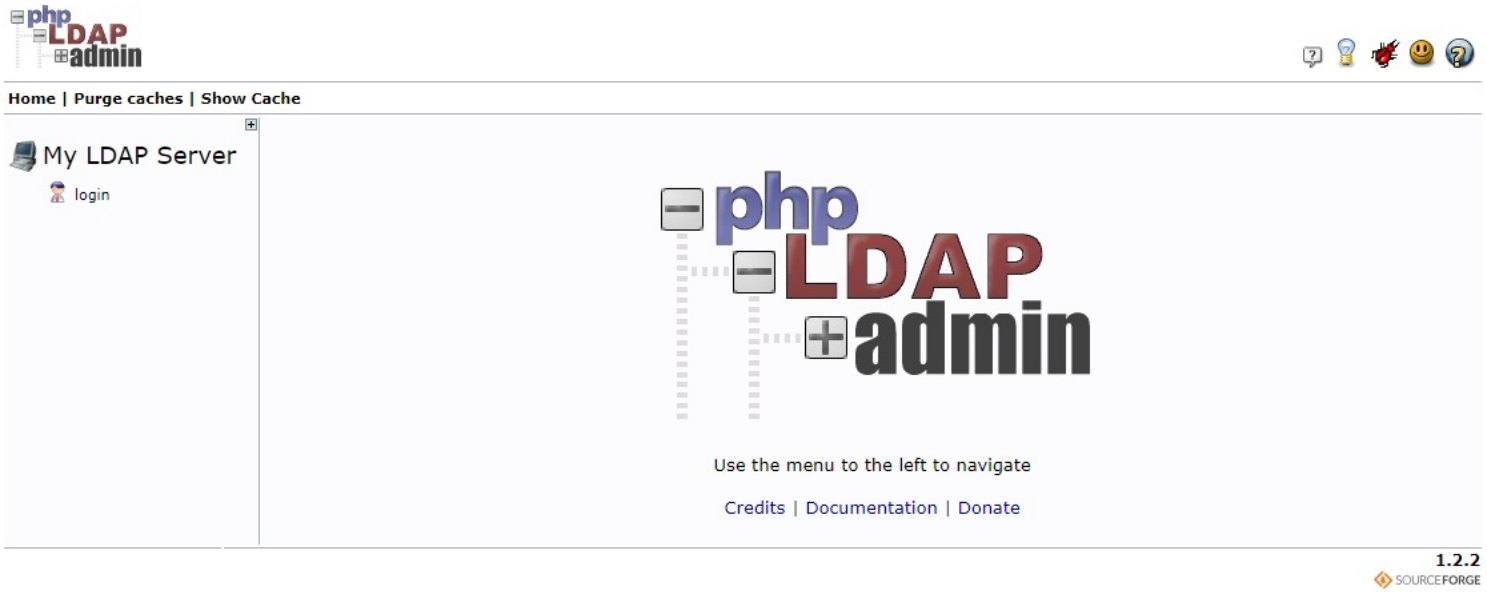
Step 16: Update the configuration file located at **/etc/phpldapadmin/config.php** to match the example shown below.

```
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.

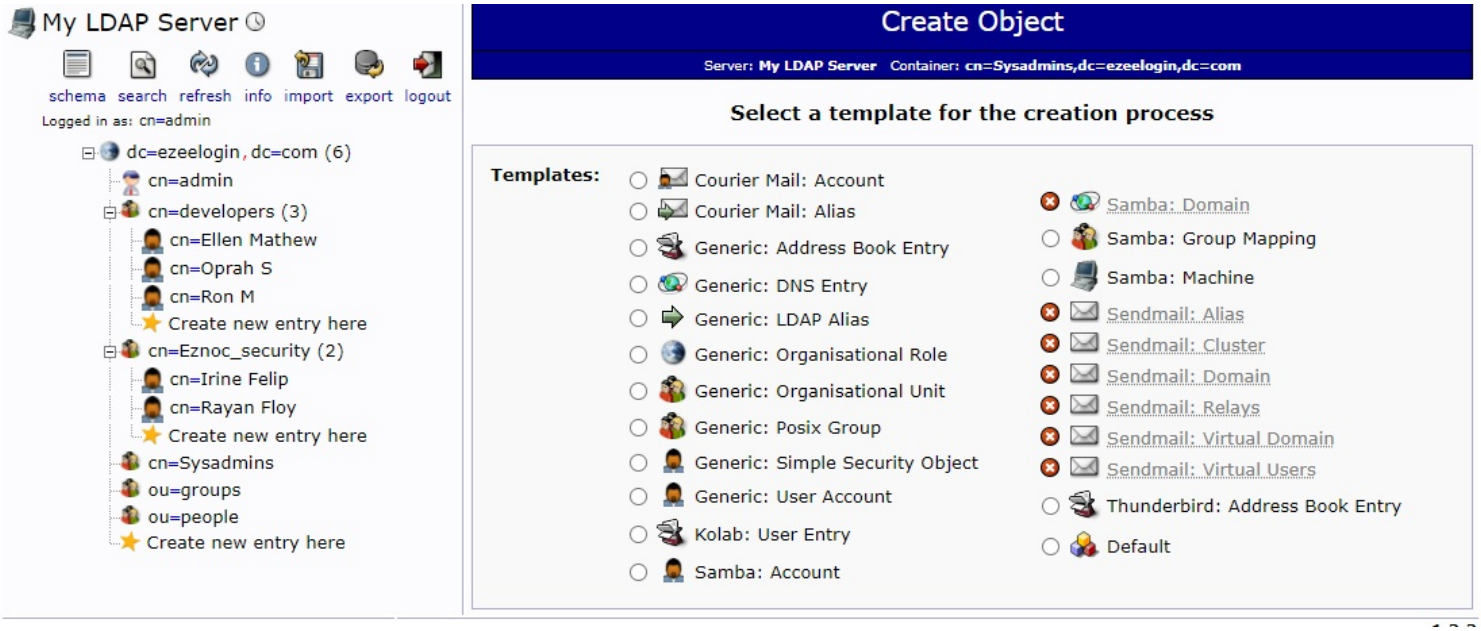


Step 19: Click on the " **login**" button at the top left corner of GUI to log in to the admin dashboard.



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.

Related Articles:

How to configure Ezeelogin to authenticate using Open_Ldap(Pam-Ldap) in Ubuntu?

How do I configure Ezeelogin to authenticate using OpenLdap(Pam-Ldap) in CentOS ?

map existing user group in ldap to Ezeelogin as Ezeelogin user group

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