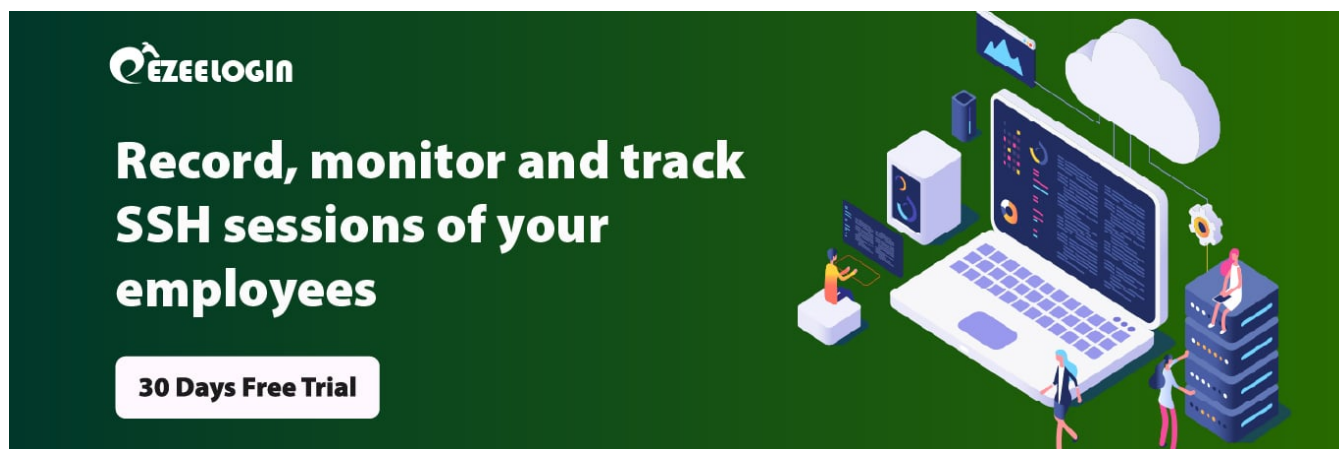


# How to install OpenLDAP and phpldapadmin in CentOS?

426 Nesvin KN August 1, 2024 [General](#), [Technical](#) 19746



## How to Install OpenLDAP and phpldapadmin in CentOS 7?

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

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**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}1PF1wdh9G8O4OVQ7WPtNjWz5bgx53HcO
```

**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}1PF1wdh9G8O4OVQ7WPtNjWz5bgx53HcO
```

**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.



Use the menu to the left to navigate

[Credits](#) | [Documentation](#) | [Donate](#)

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

**Login DN:**

**Password:**

**Anonymous**

**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.**

My LDAP Server

schema search refresh info import export logout

Logged in as: cn=admin

- dc=ezeelogin, dc=com (6)
  - cn=admin
  - cn=developers (3)
    - cn=Ellen Mathew
    - cn=Oprah S
    - cn=Ron M
    - Create new entry here
  - cn=Eznoc\_security (2)
    - cn=Irine Felip
    - cn=Rayan Floy
    - Create new entry here
  - cn=Sysadmins
  - ou=groups
  - ou=people
  - Create new entry here

Server: My LDAP Server Container: cn=Sysadmins,dc=ezeelogin,dc=com

### Create Object

Select a template for the creation process

Templates:

- Courier Mail: Account
- Courier Mail: Alias
- Generic: Address Book Entry
- Generic: DNS Entry
- Generic: LDAP Alias
- Generic: Organisational Role
- Generic: Organisational Unit
- Generic: Posix Group
- Generic: Simple Security Object
- Generic: User Account
- Kolab: User Entry
- Samba: Account
- Samba: Domain
- Samba: Group Mapping
- Samba: Machine
- Sendmail: Alias
- Sendmail: Cluster
- Sendmail: Domain
- Sendmail: Relays
- Sendmail: Virtual Domain
- Sendmail: Virtual Users
- Thunderbird: Address Book Entry
- Default

## 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.

My LDAP Server

schema search refresh info import export logout

Logged in as: cn=admin

dc=ezeelogin,dc=com (6)

cn=admin

cn=developers (3)

cn=Ellen Mathew

cn=Oprah S

cn=Ron M

Create new entry here

cn=Eznoc\_security (2)

cn=Irine Felip

cn=Rayan Floy

Create new entry here

cn=Sysadmins

ou=groups

ou=people

Create new entry here

## Create Object

Server: My LDAP Server Container: cn=Sysadmins,dc=ezeelogin,dc=com  
Template: Generic: User Account (posixAccount)

### New User Account (Step 1 of 1)

**Common Name** alias, required, rdn

Cathy Mathew

**First name** alias

Cathy

**GID Number** alias, required, hint

Sysadmins

**Home directory** alias, required

/home/users/Cathy

**Last name** alias, required

Mathew

**Login shell** alias

/bin/sh

**Password** alias, hint

..... md5

..... (confirm)

[Check password...](#)

**UID Number** alias, required, hint, ro

1005

**User ID** alias, required

Cathy

Create Object

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## **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 ?](#)

Online URL:

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