# How to install OpenLDAP and phpLDAPadmin on ubuntu?

401 Riya Francis July 31, 2024 Technical 10876

# Install OpenLDAP and LDAP Admin on Ubuntu

**Overview:** This article guides you through installing OpenLDAP and LDAP Admin on Ubuntu. It includes setting the hostname, installing OpenLDAP, adding base DNs, installing phpLDAPadmin, accessing the admin dashboard, troubleshooting common errors, and creating groups and users in LDAP.

Make sure to set your system hostname and add it to file **/etc/hosts**. Replace **admod.ezeelogin.com** with your hostname or valid domain name.

root@ubuntu:~# vi /etc/hosts

192.168.1.11 admod.ezeelogin.com

## Step 1. Install OpenLDAP packages

root@ubuntu:~# apt update

root@ubuntu:~# apt -y install slapd ldap-utils

During the installation, you'll be prompted to set the LDAP admin password. Provide your desired password and press enter.

	- Configuring slapd	P. diasetsou
Administrator password:	ra for the admin entry in your LDA	P airectory.
****	<0k>	

Confirm the password and continue the installation by pressing **OK**.

Confirm password:
*****
<pre></pre>

You can confirm that your installation was successful by using the command " **slapcat** ". It is used to fetch the SLAPD data content.

root@ubuntu:~# slapcat dn: dc=com objectClass: top objectClass: dcObject objectClass: organization o: com dc: com structuralObjectClass: organization entryUUID: 5eeea770-459c-103b-9cad-53d18c55e0b0 creatorsName: cn=admin,dc=com createTimestamp: 20210510052901Z entryCSN: 20210510052901.084178Z#000000#000#000000 modifiersName: cn=admin,dc=com modifyTimestamp: 20210510052901Z

dn: cn=admin,dc=com objectClass: simpleSecurityObject objectClass: organizationalRole cn: admin description: LDAP administrator userPassword:: e1NTSEF9Z0V1WnUzU2M5bENGcnJxWWFoZGtLRjNKc09DbFU3V3A= structuralObjectClass: organizationalRole entryUUID: 5eef2bf0-459c-103b-9cae-53d18c55e0b0 creatorsName: cn=admin,dc=com createTimestamp: 20210510052901Z entryCSN: 20210510052901.087602Z#000000#000#000000 modifiersName: cn=admin,dc=com modifyTimestamp: 20210510052901Z

#### Add base dn for Users and groups

Create a file named basedn.ldif and add the following contents. Replace **ezeelogin** and **com** with your domain components.

root@ubuntu:~# vi basedn.ldif

dn: ou=people,dc=ezeelogin,dc=com
objectClass: organizationalUnit
ou: people

dn: ou=groups,dc=ezeelogin,dc=com objectClass: organizationalUnit ou: groups Add the basedn file by running the following command

root@ubuntu:~# ldapadd -x -D cn=admin,dc=ezeelogin,dc=com -W -f basedn.ldif Enter LDAP Password: adding new entry "ou=people,dc=ezeelogin,dc=com"

adding new entry "ou=groups,dc=ezeelogin,dc=com"

### Step 2. Install phpLDAPadmin on Ubuntu

Enter the following command to install LDAP and its dependencies.

root@ubuntu:~# apt -y install apache2 php php-cgi libapache2-mod-php php-mbstring php-common php-pear

Enable php\*-cgi extension

Replace **phpX.X** with your PHP version.

root@ubuntu:~# a2enconf phpX.X-cgi root@ubuntu:~# service apache2 reload

Install LDAP admin by running the following command

root@ubuntu:~# apt -y install phpldapadmin

To access phpLDAPadmin you've to use the following

http://(server 's hostname or IP adress)/phpldapadmin

The following image shows the GUI of phpLDAPadmin



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

cn=admin,dc=e	zeelogin,dc=com	••••
assword:		
<b>\</b>		***
nonymous 🗌		

#### Note:

If you get the below error message on the dashboard, edit the **/etc/phpldapadmin/config.php** file. Somewhere near line 300, you'll find the following lines, **replace Example and com with your basedn to clear the error message.** 

### vi /etc/phpldapadmin/config.php

\$servers->setValue('server','base',array('dc=example,dc=com'));

\$servers->setValue('login','bind\_id','cn=admin,dc=example,dc=com');

Deprecated: Function create\_function() is deprecated in /usr/share/phpldapadmin/lib/functions.php on line 1083



## Step 3. Creating groups in LDAP

Click on the create new child entry and select the Object which you want to create.

/∉ My LDAP Server ⊗	Create Object		
📃 🖻 🕺 🕕 🚽	Server: My LDAP Server Container: cn=Sysadmins,dc=ezeelogin,dc=com		
schema search refresh info import export logout Logged in as: cn=admin		Select a template for the	e creation process
<ul> <li>G dc=ezeelogin, dc=com (6)</li> <li>Cn=admin</li> <li>Cn=developers (3)</li> <li>Cn=Ellen Mathew</li> <li>Cn=Oprah S</li> <li>Cn=Ron M</li> <li>Create new entry here</li> <li>Cn=Frine Felip</li> <li>Cn=Rayan Floy</li> <li>Create new entry here</li> <li>Cn=Sysadmins</li> <li>ou=groups</li> <li>ou=people</li> <li>Create new entry here</li> </ul>	Templates:	<ul> <li>Courier Mail: Account</li> <li>Courier Mail: Alias</li> <li>Courier Mail: Alias</li> <li>Courier Mail: Alias</li> <li>Generic: Address Book Entry</li> <li>Generic: DNS Entry</li> <li>Generic: DNS Entry</li> <li>Generic: Corganisational Role</li> <li>Generic: Organisational Role</li> <li>Generic: Organisational Unit</li> <li>Generic: Posix Group</li> <li>Generic: Simple Security Object</li> <li>Generic: User Account</li> <li>Kolab: User Entry</li> <li>Samba: Account</li> </ul>	<ul> <li>Samba: Domain</li> <li>Samba: Group Mapping</li> <li>Samba: Machine</li> <li>Sendmail: Alias</li> <li>Sendmail: Cluster</li> <li>Sendmail: Cluster</li> <li>Sendmail: Domain</li> <li>Sendmail: Relays</li> <li>Sendmail: Virtual Domain</li> <li>Sendmail: Virtual Users</li> <li>Sendmail: Virtual Users</li> <li>Thunderbird: Address Book Entry</li> <li>Default</li> </ul>

Select Generic: Posix Group and specify the group name in the text box, mark the checkbox

if you want to add the users to the group. Finally, click on the create object tab to create the group in LDAP.

Ezeelogin		Welcome, Administrator Log	out
t≣ Servers ►	•	Edit	~
📔 Web Portals 🔹 🕨	×	Name	٦
1t. Users		Developers	1
▶ User Groups		Description	
► LDAP			
<ul> <li>SSH Log</li> </ul>		Priority 🔞	
RDP Recording		0	1
SCP Log	2.1		-
Web Proxy Log		Force Two Factor Authentication @	
<ul> <li>Web Proxy Activity</li> </ul>			
<ul> <li>Web Activity</li> </ul>		Cancel Save	
▶ Shell Activity			17.12

## Step 4. Create User in LDAP

Click on the create a child 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.

<b>■ php ■ <b>■ LDAP</b> ■ <b>■ admin</b></b>		厚 💡 🌾 😃 😡
Home   Purge caches   Show Cache		
🛢 My LDAP Server 🕓	Create Obj	ject
🗏 🗟 🏟 🛈 🞇 🗣 🗐	Server: <b>My LDAP Server</b> Container: <b>cn=Sys</b> Template: <b>Generic: User Accou</b>	admins,dc=ezeelogin,dc=com nt (posixAccount)
schema search refresh info import export logout Logged in as: cn=admin	New User Account (5	Step 1 of 1)
⊡ 🕑 dc=ezeelogin, dc=com (6)		
⊢∑ cn=admin ⊡	Common Name	alias, required, rdn
cn=Ellen Mathew	Cathy Mathew	*
cn=Opran S	First name	alias
Create new entry here Security (2)	Cathy	
cn=Irine Felip	GID Number	alias, required, hint
← cn=Rayan Floy → Create new entry here ← cn=Sysadmins	Sysadmins 🗸	*
	Home directory	alias, required
ou=people	/home/users/Cathy	*
Create new entry nere	Last name	alias, required
	Mathew	*
		aliar
		·君川傳染
		alias kin
	Password	alias, nin
	Check presword	
	Check password	
	UID Number	alias, required, hint, ro
	1005	
	User ID	alias, required
	Cathy	*
	Create Object	
		1.2.

## **Related Articles**

How to configure Ezeelogin to authenticate using open\_ldap(Pam\_ldap) in ubuntu

<u>How to configure Ezeelogin to authenticate using open\_ldap(Pam\_ldap) in centos</u>

Configure Ezeelogin to authenticate using Windows AD(Pam-Ldap) in ubuntu

Configure Ezeelogin to authenticate using Windows\_AD(Pam-Ldap) in centos

How do I configure Ezeelogin to authenticate using OpenLdap or Window AD server

Can we map existing user group in Idap to ezeelogin as ezeelogin user group ?

Assigning user group for LDAP users?

Online URL:

https://www.ezeelogin.com/kb/article/how-to-install-openIdap-and-phpIdapadmin-on-ubuntu-401.html