How to install OpenLDAP and phpLDAPadmin on ubuntu?

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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:~# hostnamectl set-hostname admod.ezeelogin.com

root@ubuntu:~#  vi /etc/hosts

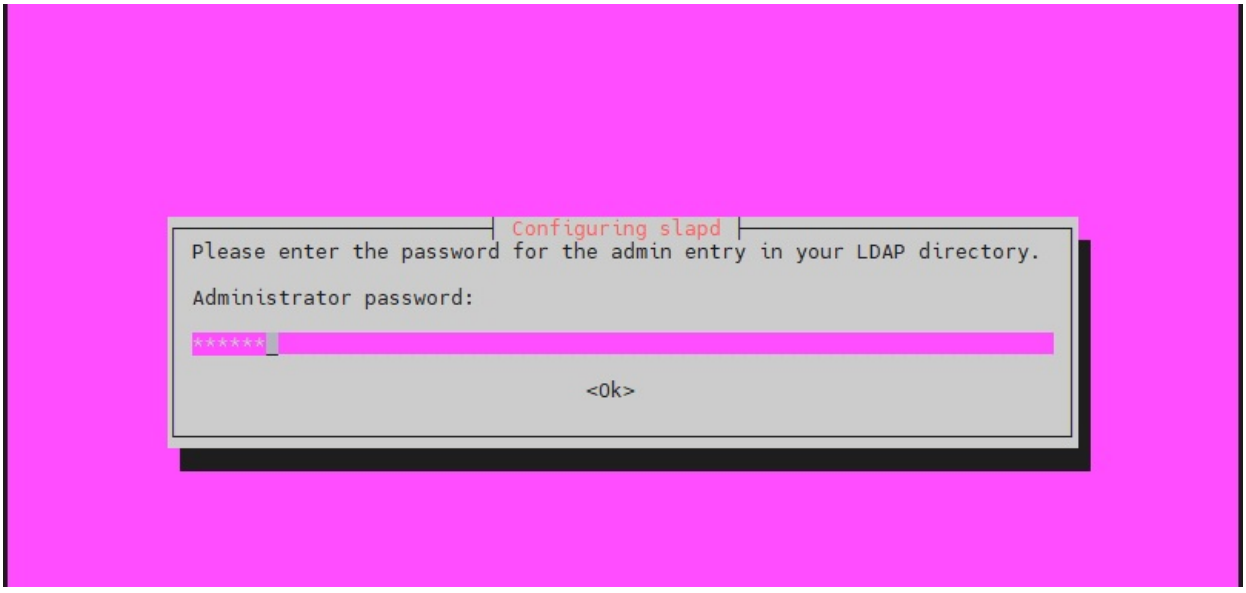
192.168.1.11 admod.ezeelogin.com
```

Step 1. Install OpenLDAP packages

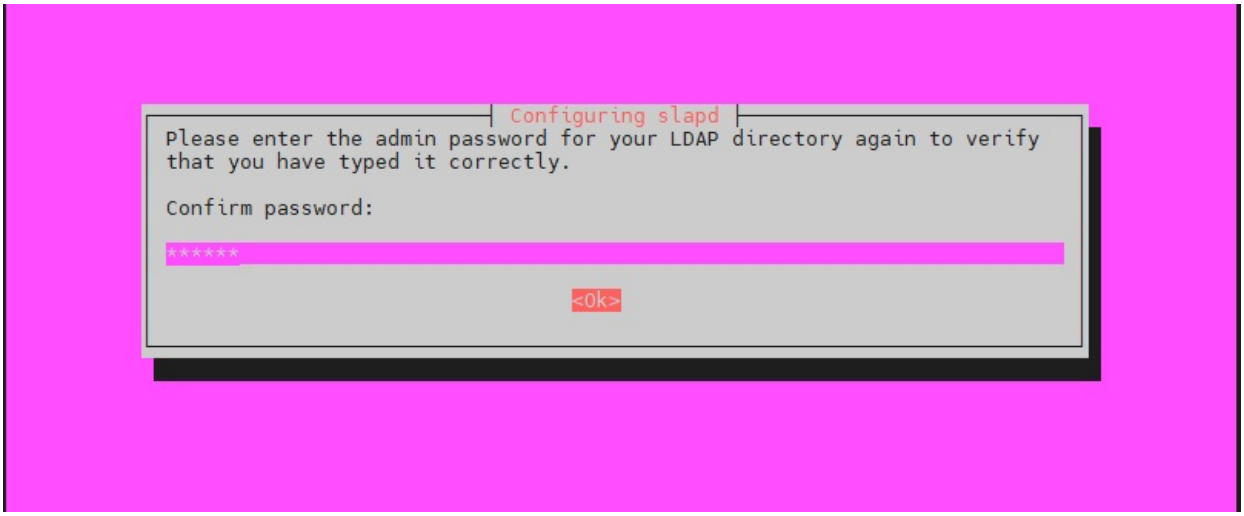
```
root@ubuntu:~#  apt update

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.



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



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
```

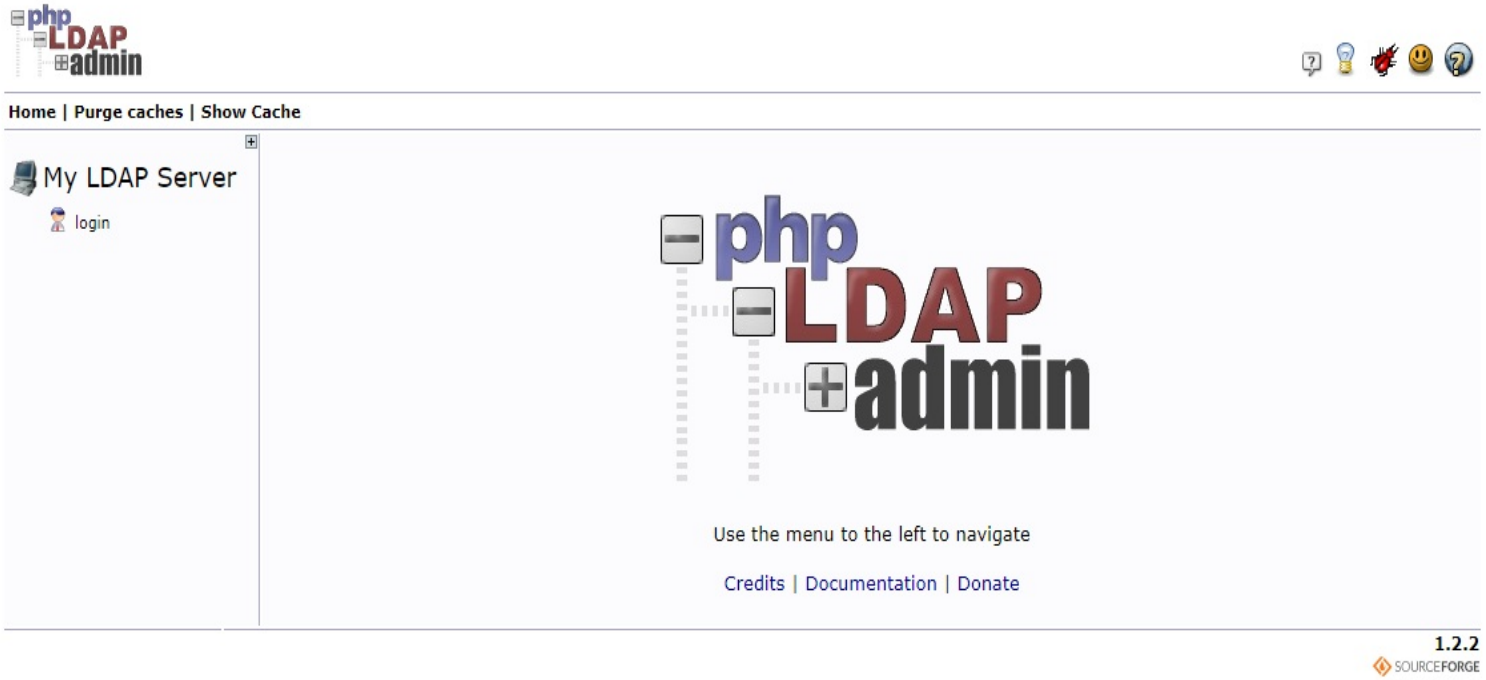
Install LDAP admin by running the following command

```
root@ubuntu:~# apt -y install phpldapadmin
```

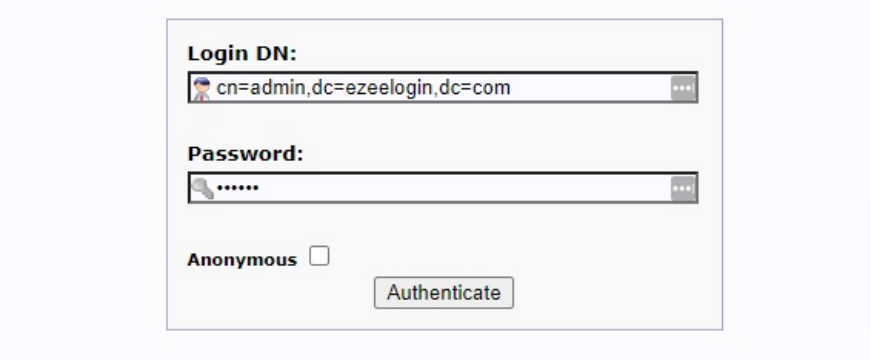
To access phpLDAPadmin you've to use the following

```
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.



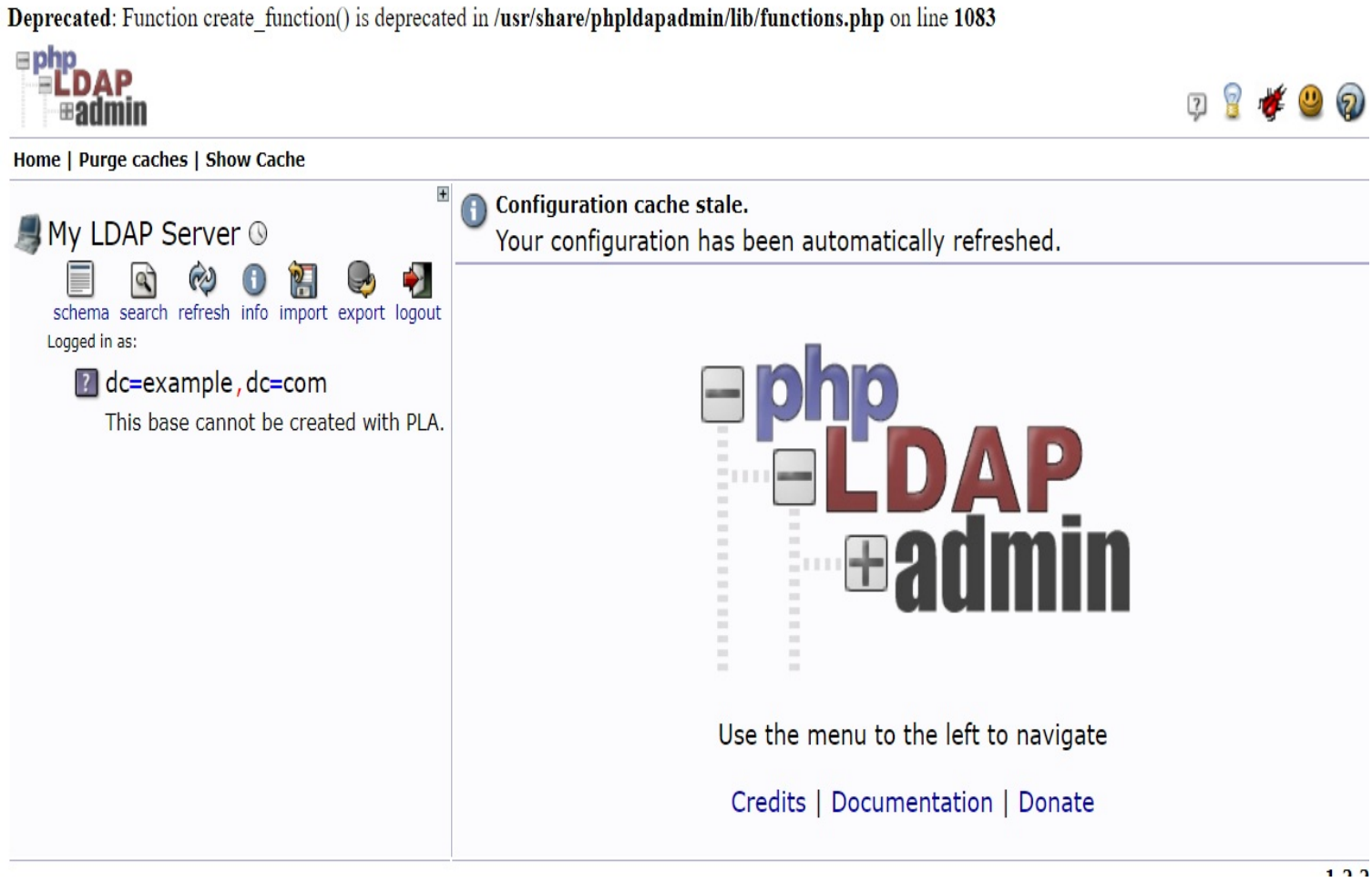
Note:

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

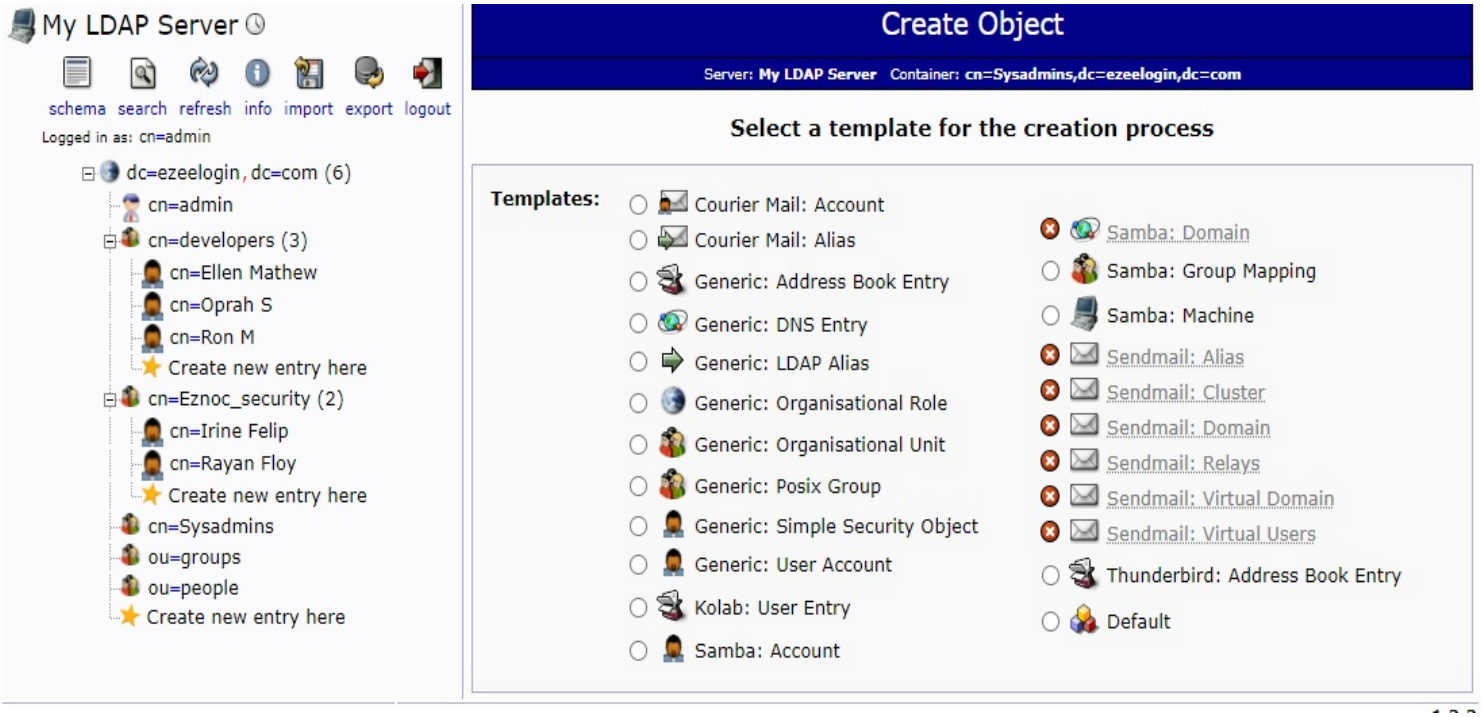
$servers->setValue('server','base',array('dc=example,dc=com'));

$servers->setValue('login','bind_id','cn=admin,dc=example,dc=com');
```

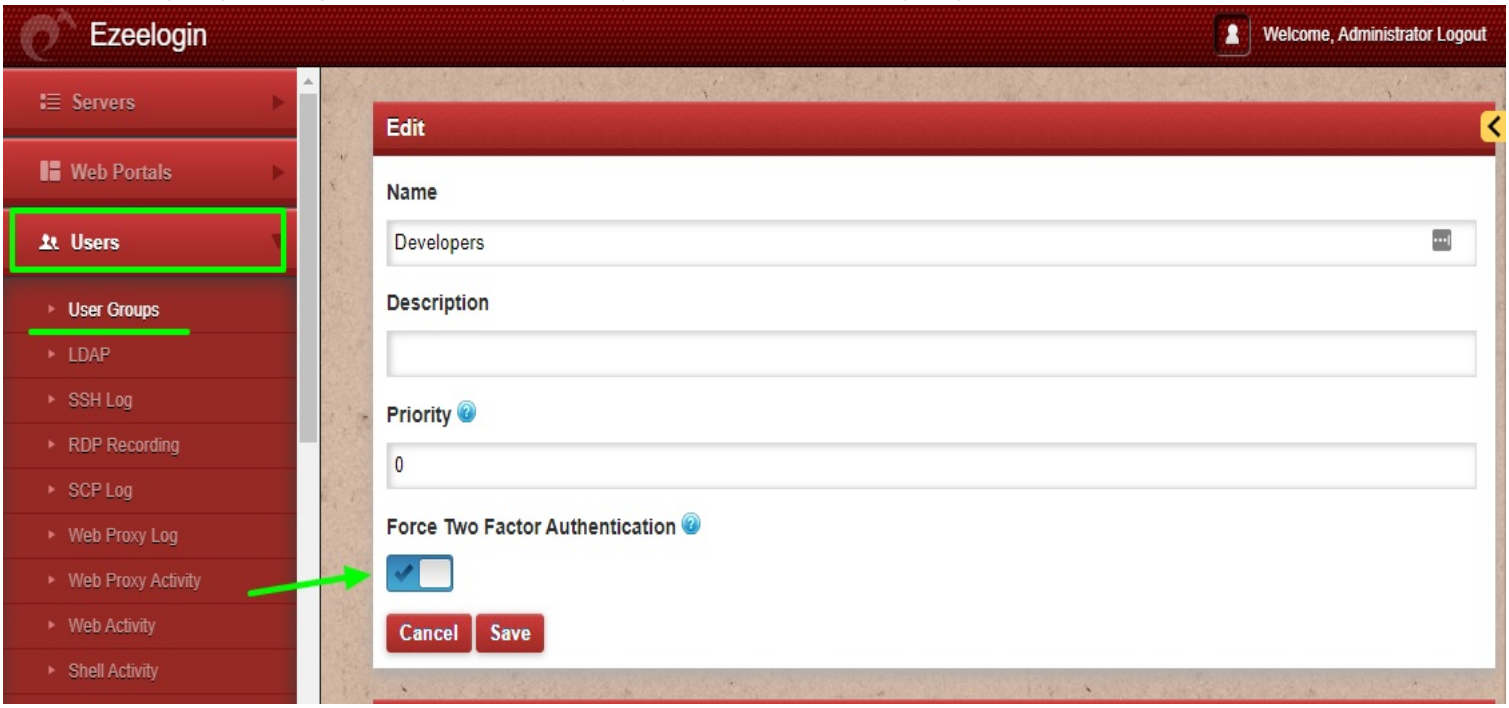


Step 3. Creating groups in LDAP

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



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.



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.

Related Articles:

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How to configure Ezeelogin to authenticate using open_ldap(Pam_ldap) in centos
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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 ldap to ezeelogin as ezeelogin user group ?

Assigning user group for LDAP users?