#### How to Install OpenLDAP

- Sudo apt-get update
- Sudo apt-get install slapd Idap-utils

Please enter t	the password fo	nfiguring slap or the admin er	ntry in your L	DAP directory.
Administrator	password:			
		<0k>		

# Reconfiguring OpenLDAP

#### • Sudo dpkg-reconfigure slapd



ackage configuration	
Configuring slapd	
The DNS domain name is used to construct the base DN of the LDAP	
directory. For example, 'foo.example.org' will create the directory with	
'dc=foo, dc=example, dc=org' as base DN.	
DNS domain name:	
afnog.org	
<uk></uk>	

ackage configuration	
Configuring slapd	
Please enter the name of the organization to use in the base DN of your	
LDAP directory.	
Organization name:	
afnog.org	
< <u>&lt;0k&gt;</u>	

ranko@devx: ~	- 0	×
age configuration		
Configuring slapd		
Please enter the password for the admin entry in your LDAM	P directory.	
Idministrator password.		
Administrator password.		
COR.2		

ackage configuration	^
Configuring slapd HDB and BDB use similar storage formats, but HDB adds support for subtree renames. Both support the same configuration options.	
The MDB backend is recommended. MDB uses a new storage format and requires less configuration than BDB or HDB.	
In any case, you should review the resulting database configuration for your needs. See /usr/share/doc/slapd/README.Debian.gz for more details.	
Database backend to use:	
BDB HDB MDB	
< <u>0k&gt;</u>	

loxuge		
ſ	Configuring slapd	
	Do you want the database to be removed when slapd is purged? <yes></yes>	



ckage configuration	
Configuring slapd	
The obsolete LDAPv2 protocol is disabled by default in slapd. Programs	
and users should upgrade to LDAPv3. If you have old programs which	
be added to your slapd.conf file.	
Allow LDAPv2 protocol?	
<yes> <no></no></yes>	

# Installing and configuring PhpLdapAdmin

- Apt-get install apache2
- Apt-get –y install php5 libapache2-mod-php5
- Service apache2 restart
- Apt-get install phpldapadmin
- Vi /etc/phpldapadmin/config.php
- Search for the following sections and modify them accordingly.

• Change the red value to the way you will be referencing your server, either through domain name or IP address.

#### servers->setValue('server', 'host', '192.168.85.132');

• Edit the following entry to reflect the name you selected (ours is "afnog.org" as you recall):

servers->setValue('server', 'base', array('dc=afnog, dc=org'));

• The next value to modify will use the same domain components that you just set up in the last entry. Add these after the "cn=admin" in the entry below:

servers->setValue('login','bind\_id','cn=admin,dc=afnog,dc=org');

 Search for the following section about the "hide*template*warning" attribute. We want to uncomment this line and set the value to "true" to avoid some annoying warnings that are unimportant.



 Login to the PhpLdapAdmin page using a browser with your IP Address followed by phpldapadmin



• Click on login in your left pane and enter your ldap admin password

Varning: This	s web connection is unencrypted.
Login DN:	
😤 cn=admin,dc	=afnog.dc=org
Password:	
<u>a</u>	

• If successfully loged in, you should see an interface as below



- Create Organizational Units , Groups, Users
- Click on the "Create new entry here" link on the left-hand side
- Click on the "Generic: Organizational Unit" template as below
- We will be asked to create a name for our organizational unit.
- Type Groups and repeat the same procedure to create users group as well.
- Slides on the next slide demonstrate the process



Create C	bject
Server: <b>My LDAP Server</b> Conta Template: <b>Generic: Organ</b>	ainer: dc=afnog,dc=org isational Unit (ou)
New Organisational U	Jnit (Step 1 of 1)
Organisational Unit	alias, required, rdn, hint
groups	*
Create Object	

• Click on Commit to save changes

Server: My LDAP Server	Container: dc=afnog,dc	=org
Do you want to	create this entry?	
Attribute	New Value	Skip
ou=groups,d	c=afnog,dc=org	
objectClass	organizationalUnit	Ū
		States of

• When you are done, you should see the configuration as shown on your left hand side.



- Create Groups
- We can create two different groups that could be used to organize users into different "access" groups based on their privileges they require.
- Those groups are "admin" and "user" groups.
- In the main pane, click on the "Create a child entry" within the groups category.
- We will choose the "Generic: Posix Group" Category
- The next slide shows the guidelines for creating those groups.

• Click on the "Generic: Posix Group" highlighted in yellow colour

	ou=groups	
Serv	r: <b>My LDAP Server</b> Distinguished Name: <b>ou=groups,dc=afnog,dc=</b> Template: <b>Default</b>	org
Refresh Switch Template Copy or move this entry Rename Create a child entry Hint: To delete an attribute, en Hint: To view the schema for a	<ul> <li>Show internal attributes</li> <li>Export</li> <li>Delete this entry</li> <li>Compare with another ent</li> <li>Add new attribute</li> </ul>	try
objectClas	s	required
0	organizationalUnit	(structural)
0	top	
	(add value)	

Group (posixGroup)	Template: Generic: Posi:
(Step 1 of 1)	New Posix Grou
alias, required, hint, ro	ID Number
	500
alias, required, rdn	Group
*	admin

 Both groups after creation will look as below in the left hand side My LDAP Server 🕓 schema search refresh info import export logout Logged in as: cn=admin ⊡ dc=afnog, dc=org (3) 🝸 cn=admin ou=groups (2+) 中心 👘 cn=admin Cn=user ou=users Create new entry here

• Click on the "view 2 children" as highlighted in yellow

	ou=groups		
Server: My LDA	DAP Server Distinguished Name: ou=groups,dc=afnog,dc=org Template: Default		
Refresh	X Show internal attributes		
Switch Template	Export		
Copy or move this entry	Delete this entry		
🖻 Rename	Compare with another entry		
* Create a child entry	Add new attribute		
Hint: To delete an attribute, empty the	e text field and click save.		
View 2 children	Export subtree		
Hint: To view the schema for an attribute	ute, click the attribute name.		

#### • The output of the view 2 childres is as shown below

Entries	found:	2
(0 secon	ds)	
🐴 cn	=admin	
dn		cn=admin,ou=groups,dc=afnog,dc=org
cn		admin
gid	Number	500
ob	jectClass	posixGroup
		top
鑬 cn	=user	
dn		cn=user,ou=groups,dc=afnog,dc=org
cn		user
gid	Number	501
ob	ectClass	posixGroup
		top

- Create Users
- Next, we will create users to put in these groups. Start by clicking on "ou=users" category. Click on Create a child entry.
- We will choose "Generic: User Account" for these entries
- We will be given a lot of fields to fill out:
- The picture below shows the template to be filled



New User Account (Step 1 of 1)		
Common Name	alias, required, rdn	
Test User1	*	
First name	alias	
Test		
GID Number	alias, required, hint	
user 🔻	*	
Home directory	alias, required	
/home/users/tuser1	*	
Last name	alias, required	
User1	*	
Login shell	alias	
<mark>/bin/sh</mark> ▼		

Passwoi	ď	alias, hint
		md5 🔻
ű	8 <mark> </mark>	(confirm)
	Check password	
UID Nun	ıber	alias, required, hint, ro
1	1000	
User ID	1000	alias, required

#### Do you want to create this entry?

Attribute	New Value	Skip		
cn=Test User1,ou=users,dc=afnog,dc=org				
Common Name	Test User1			
First name	Test			
GID Number	501	1630		
Home directory	/home/users/tuser1	1000		
Last name	User1			
Login shell	/bin/sh			
objectClass	inetOrgPerson posixAccount			
Password	**********			
UID Number	1000			
User ID	tuser1			

Commit Cancel