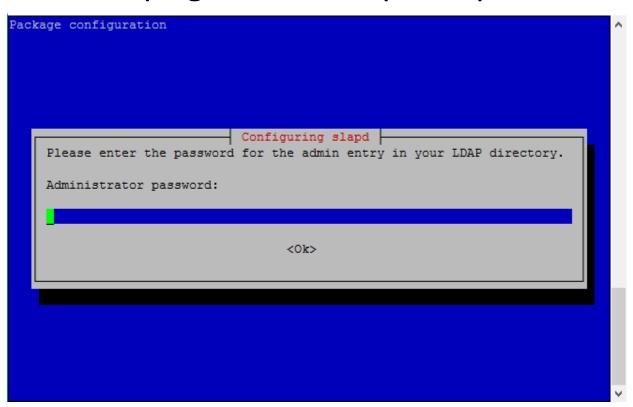
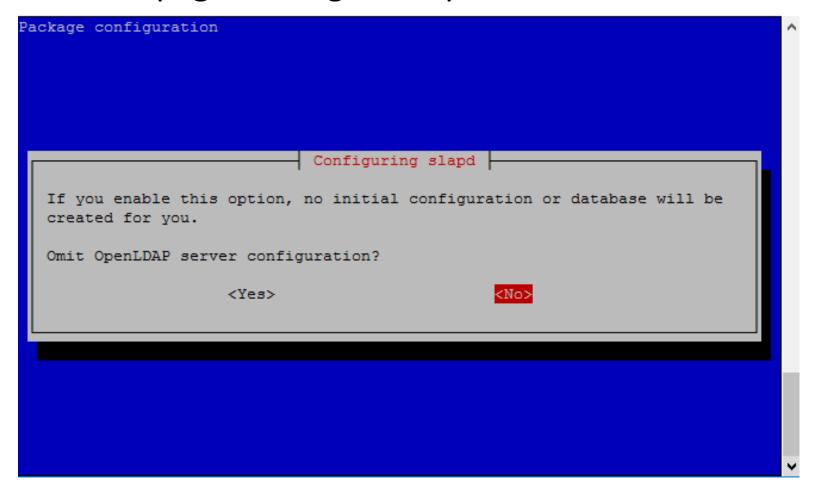
How to Install OpenLDAP

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



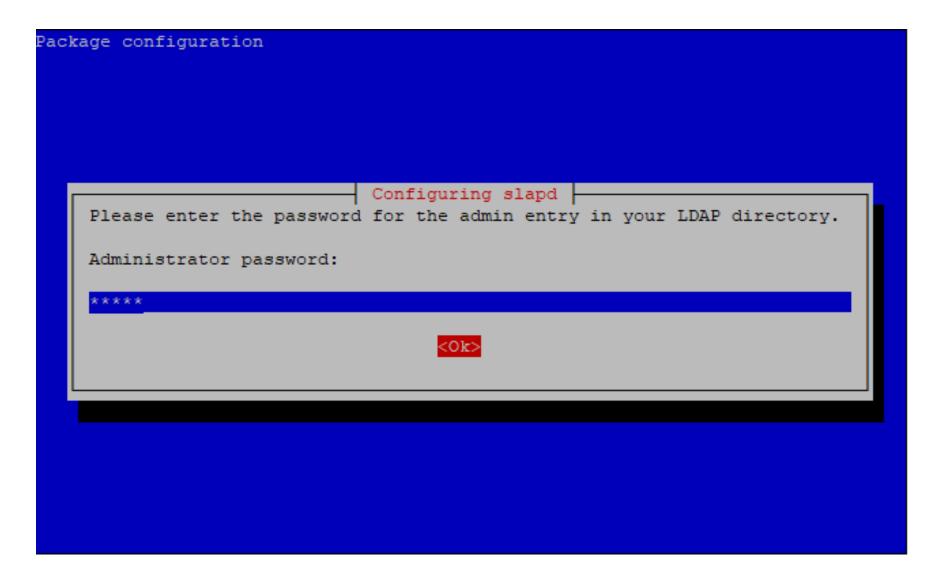
Reconfiguring OpenLDAP

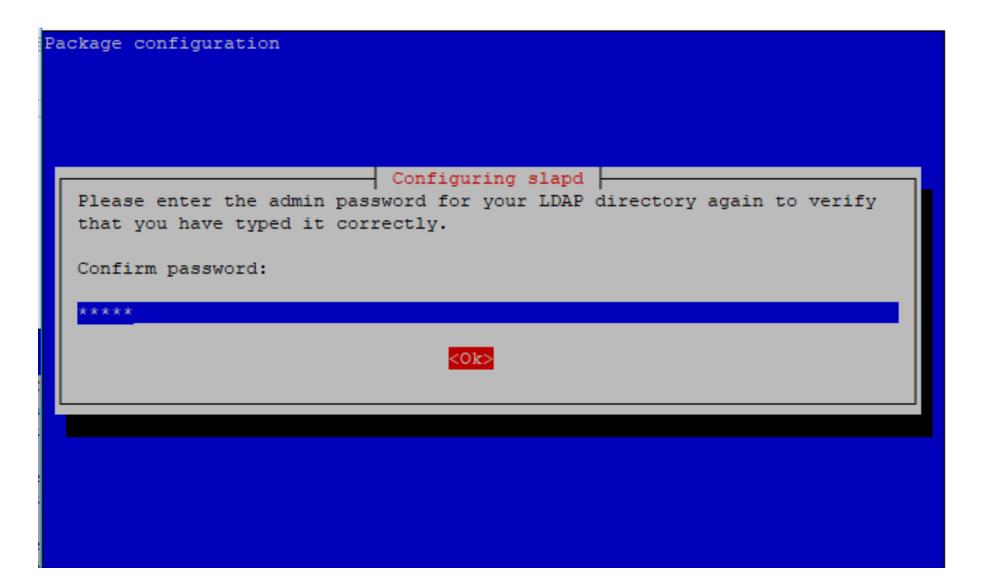
Sudo dpkg-reconfigure slapd

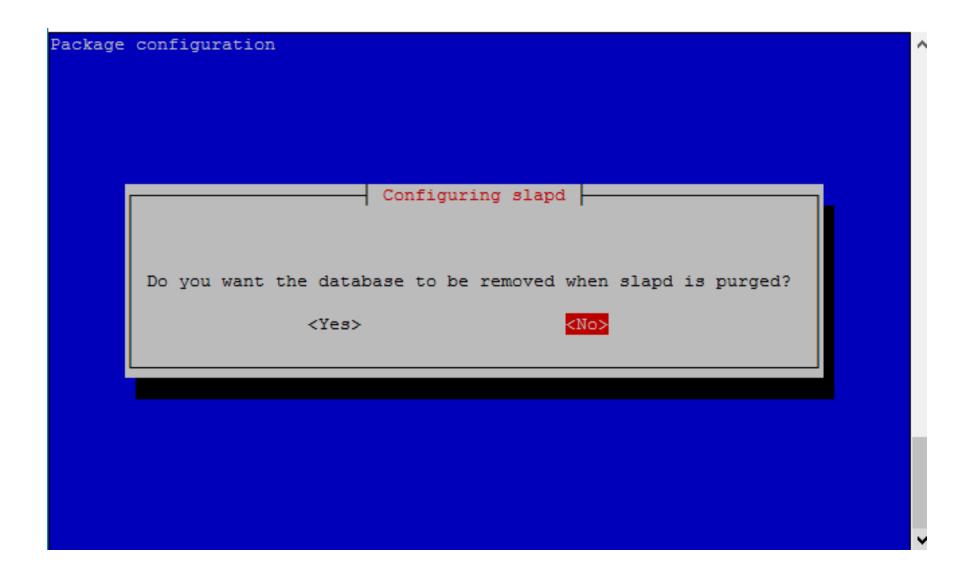


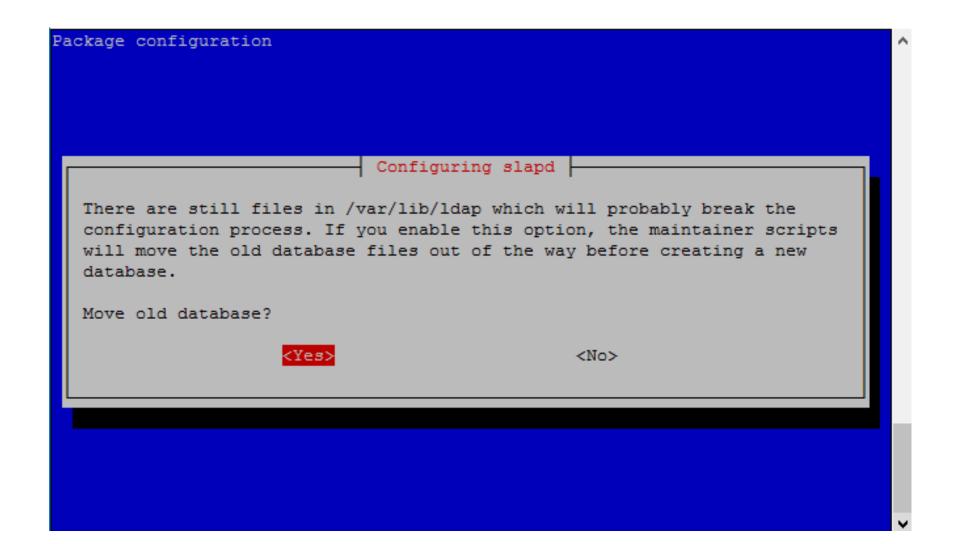


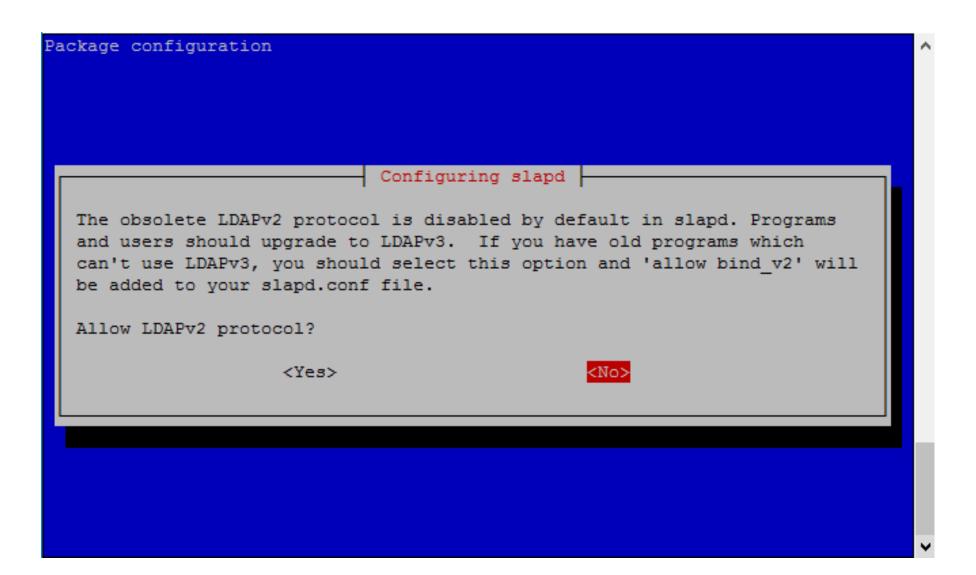












- Start your OpenIdap Database and ensure It is working with commands as below.
- sudo systemctl start slapd
- sudo ps -ef | grep slapd

Creating a base Ldif file

Create a file with content below for your base directory structure.

Vi base.ldif

dn: ou=Groups,dc=sse,dc=ws,dc=afnog,dc=org

ou: Groups

objectClass: top

objectClass: organizationalUnit

dn: ou=Users,dc=sse,dc=ws,dc=afnog,dc=org

ou: Users

objectClass: top

objectClass: organizationalUnit

Upload your base LDIF file to LDAP

Run the command below to upload your base Idif file into the LDAP server

ldapadd -x -W -D "cn=admin,dc=sse,dc=ws,dc=afnog,dc=org" -f
base.ldif

Supplied your LDAP password and you should see feedback as below

```
afnog@pc29:~$ ldapadd -x -W -D "cn=admin,dc=sse,dc=ws,dc=afnog,dc=org" -f base.ldif
Enter LDAP Password:
adding new entry "ou=Groups,dc=sse,dc=ws,dc=afnog,dc=org"
adding new entry "ou=Users,dc=sse,dc=ws,dc=afnog,dc=org"
afnog@pc29:~$
```

Creating a person Ldif file

Create a file with content below for your base directory structure.

Vi person.ldif

dn: cn=frank,ou=Groups,dc=sse,dc=ws,dc=afnog,dc=org

cn: frank

gidNumber: 5001

objectClass: posixGroup

dn: uid=frank,ou=Users,dc=sse,dc=ws,dc=afnog,dc=org

uid: frank

uidNumber: 5001 gidNumber: 5001

cn: Frank Kuse

sn: Kuse

objectClass: posixAccount

objectClass: organizationalPerson

loginShell: /bin/bash

homeDirectory: /home/frank

Upload your person LDIF file to LDAP

Run the command below to upload your base Idif file into the LDAP server

ldapadd -x -W -D "cn=admin,dc=sse,dc=ws,dc=afnog,dc=org" -f
person.ldif

Supplied your LDAP password and you should see feedback as below

```
afnog@pc29:~$ ldapadd -x -W -D "cn=admin,dc=sse,dc=ws,dc=afnog,dc=org" -f person.ldif
Enter LDAP Password:
adding new entry "cn=frank,ou=Groups,dc=sse,dc=ws,dc=afnog,dc=org"
adding new entry "uid=frank,ou=Users,dc=sse,dc=ws,dc=afnog,dc=org"
afnog@pc29:~$
```

Setting up user credentials

Run the command below create a password for the user account created.

```
sudo ldappasswd -s afnog123 -W -D
"cn=admin,dc=sse,dc=ws,dc=afnog,dc=org" -x
"uid=frank,ou=Users,dc=sse,dc=ws,dc=afnog,dc=org"
```

Supplied your LDAP password and you should see feedback as below

Check your LDAP directory structure

Run the command below to check your uploaded Idif files forming your LDAP directory structurein your database.

Sudo slapcat

You should see entire OpenLdap database with example as below.

```
dn: uid=frank,ou=Users,dc=sse,dc=ws,dc=afnog,dc=org
uid: frank
uidNumber: 5001
gidNumber: 5001
cn: Frank Kuse
sn: Kuse
objectClass: posixAccount
objectClass: organizationalPerson
loginShell: /bin/bash
homeDirectory: /home/frank
structuralObjectClass: organizationalPerson
entryUUID: 1d4a57aa-e240-1037-886e-b5e6fc05cf21
creatorsName: cn=admin,dc=sse,dc=ws,dc=afnog,dc=org
createTimestamp: 20180502103419Z
userPassword:: e1NTSEF9SmwldEx1bzY4REZWeVk3eUR0bmliT3JEd2FjbDd2Umk=
entryCSN: 20180502104517.247335Z#000000#000#000000
modifiersName: cn=admin,dc=sse,dc=ws,dc=afnog,dc=org
modifyTimestamp: 20180502104517Z
```