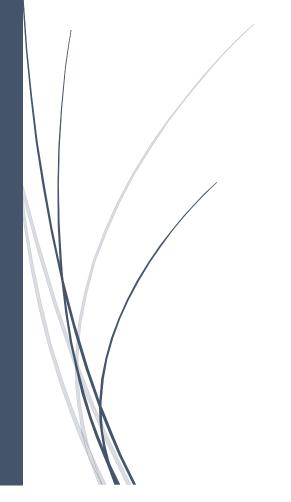
DAT151 – Oblig6

LDAP, Kerberos and Samba



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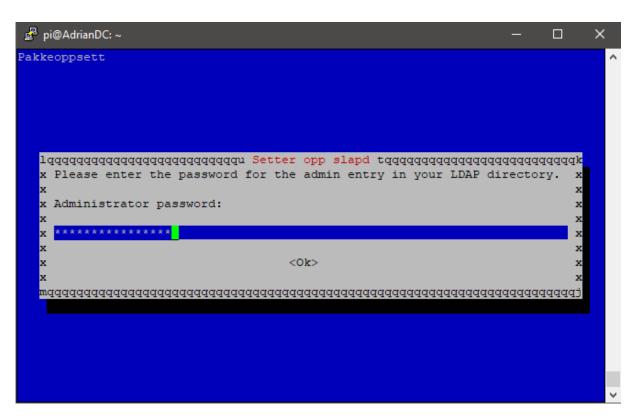
Task 1: LDAP

This assignment will be done with my raspberry pi devices. '

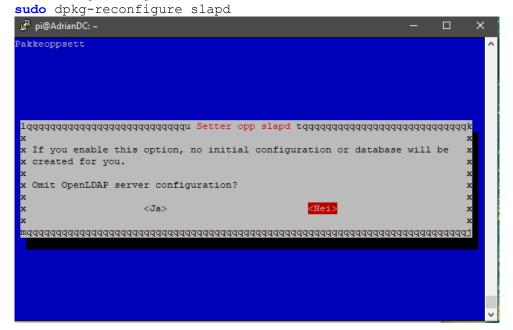
Installation

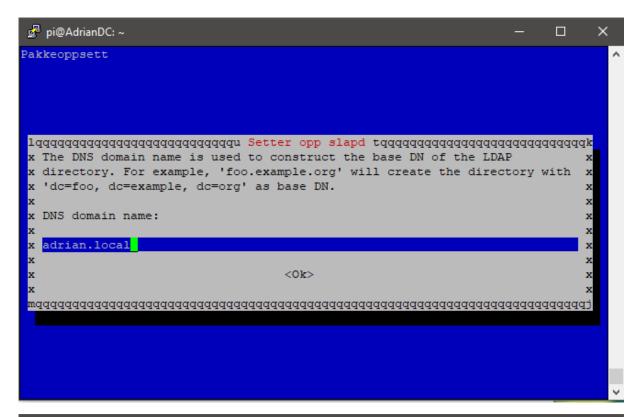
```
# Running the usual for installing
sudo apt-get update
sudo apt-get install slapd ldap-utils
```

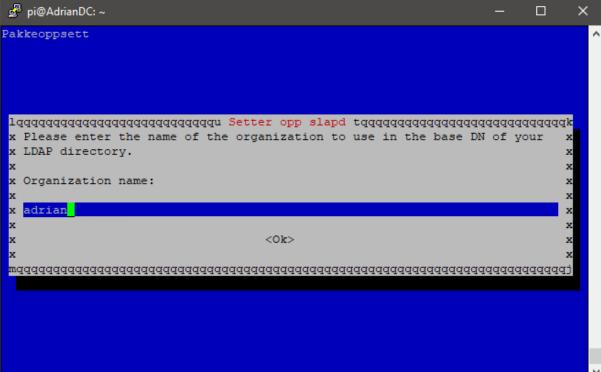
Asked for password. Giving it a long password.

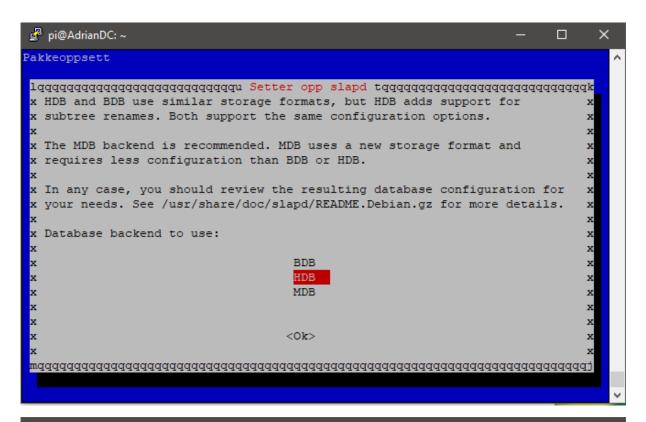


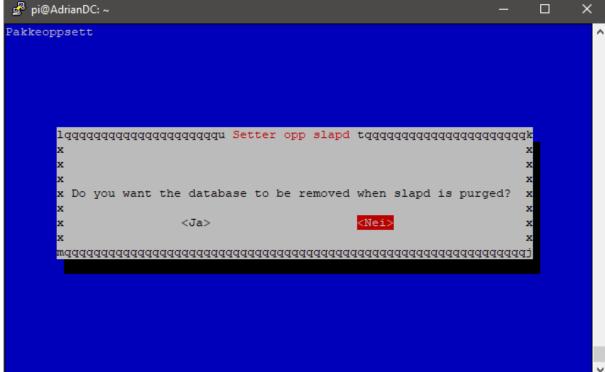
Starting configuration

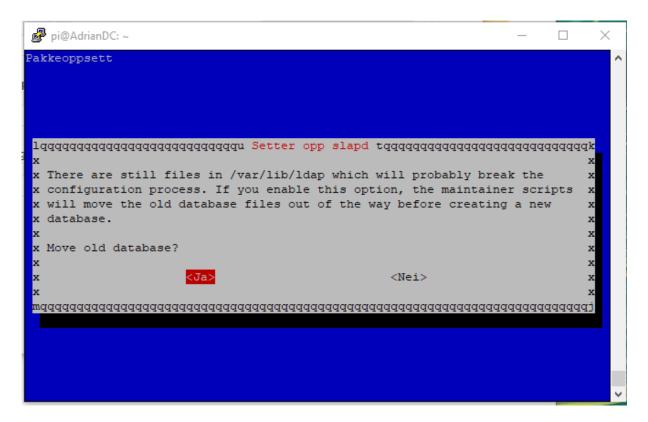












Commands

```
# Assignment 1
# This assignemt will be configured on my Raspberry pi network. AdrianDC
will be the domain controller (server) and AdrianPi will be the client.
# Installing a web user interface for ldap administration
sudo apt-get install phpldapadmin
# Checking the installation
ldapsearch -x -LLL -H ldap:/// -b dc=adrian,dc=local
dn: dc=adrian,dc=local
objectClass: top
objectClass: dcObject
objectClass: organization
o: adrian
dc: adrian
dn: cn=admin,dc=adrian,dc=local
objectClass: simpleSecurityObject
objectClass: organizationalRole
cn: admin
description: LDAP administrator
```

\$ nano makingou.ldif dn: ou=people,dc=adrian,dc=local objectClass: organizationalUnit

Adding users and Organizational Units

```
ou: people
$ nano addAdrian.ldif
#addAdrian.ldif
dn: uid=adrian,ou=people,dc=adrian,dc=local
objectClass: top
objectClass: account
objectClass: posixAccount
objectClass: shadowAccount
cn: adrian
uid: adrian
uidNumber: 16859
gidNumber: 100
homeDirectory: /home/adrian
loginShell: /bin/bash
gecos: adrian
userPassword: {crypt}x
shadowLastChange: 0
shadowMax: 0
shadowWarning: 0
#same was done for OU first.
Enter LDAP Password:
```

```
$ ldapadd -x -W -D "cn=admin,dc=adrian,dc=local" -f addAdrian.ldif
adding new entry "uid=adrian, ou=people, dc=adrian, dc=local"
#Setting a default password
$ ldappasswd -s passord123 -W -D "cn=admin,dc=adrian,dc=local" -x
"uid=adrian, ou=people, dc=adrian, dc=local"
Enter LDAP Password:
```

Checking that the web interface shows what is expected after adding a OU and a user:



Testing #Client #(all of this is ran on a client device) \$ sudo nano /etc/hostname #Changed into the domain \$ sudo nano /etc/nsswitch.conf #Checked that ldap was enabled \$ sudo pam-auth-update \$ sudo pam-auth-update \$ sudo service nslcd stop \$ sudo service nslcd start \$ sudo service nscd stop \$ sudo service nscd start \$ su - adrian Passord: Du må straks endre passordet ditt (ordre fra rot) Nytt passord: Bekreft nytt -passord: Ingen hjemmemappe, logger inn med HOME=/ adrian@adrian:/\$

#Now we have successfully logged in from a client computer with a ldap user

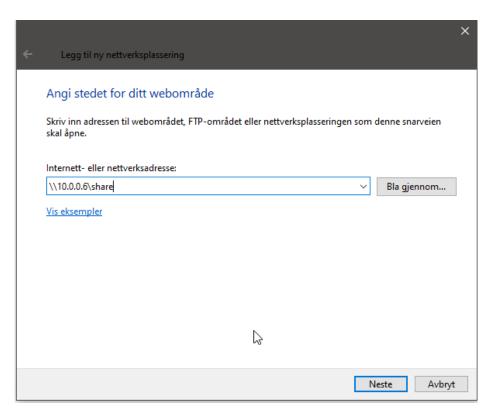
Task 2: Kerberos

```
# kerberos server
yum install krb5-server krb5-workstation
sudo nano /etc/krb5.conf
sudo nano /var/kerberos/krb5kdc/kdc.conf
sudo kdb5 util create -s
Loading random data
Initializing database '/var/kerberos/krb5kdc/principal' for realm
'EXAMPLE.COM',
master key name 'K/M@EXAMPLE.COM'
You will be prompted for the database Master Password.
It is important that you NOT FORGET this password.
Enter KDC database master key:
Re-enter KDC database master key to verify:
sudo systemctl enable kadmin krb5kdc
sudo systemctl start kadmin krb5kdc
sudo firewall-cmd --permanent --add-service=kerberos
sudo firewall-cmd --reload
# Made a user
su user
kinit
# Got the ticket.
```

Task 3: SAMBA

Installation sudo apt-get install samba samba-common-bin sudo mkdir -m 1777 /winShare sudo nano /etc/samba/smb.conf [share] Comment = Pi shared folder Path = /winShare Browseable = yes Writeable = Yes only guest = no create mask = 0777 directory mask = 0777 Public = yes Guest ok = yes

Testing



∨ Nettverksplasseringer (1)

adrianDCFil

Adding a file «Tester.txt» in windows

```
/ $ cd /winShare/
/winShare $ 1s -al
totalt 8
drwxrwxrwt 2 root root 4096 feb. 21 18:15 .
drwxr-xr-x 22 root root 4096 feb. 21 18:02 ..
-rwxrw-rw- 1 pi pi 0 feb. 21 18:15 Tester.txt
```

Adding a file «Fungerer.txt» on server

