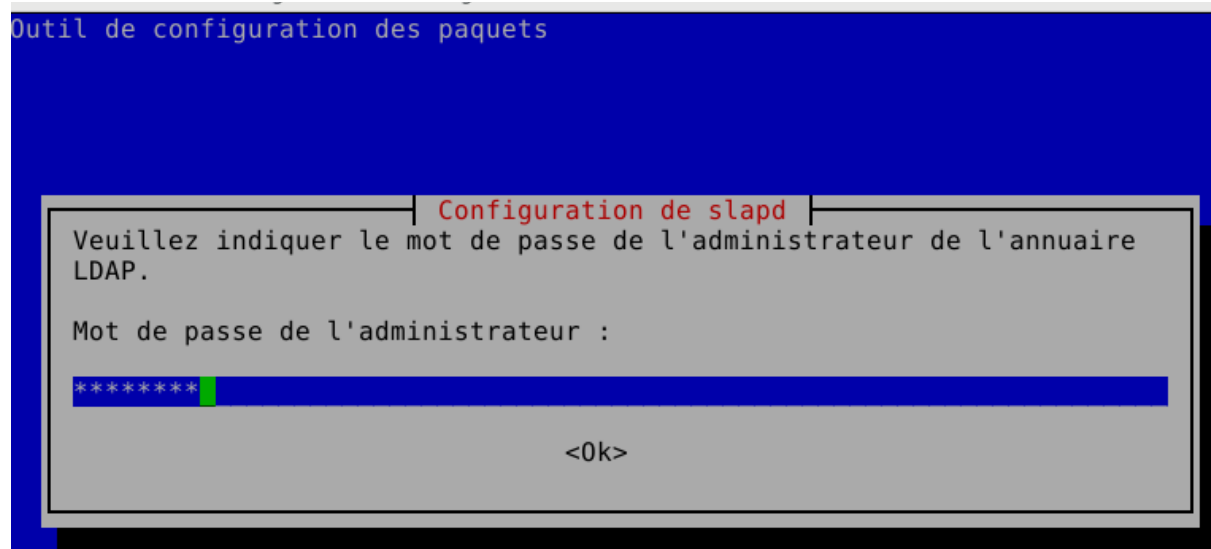
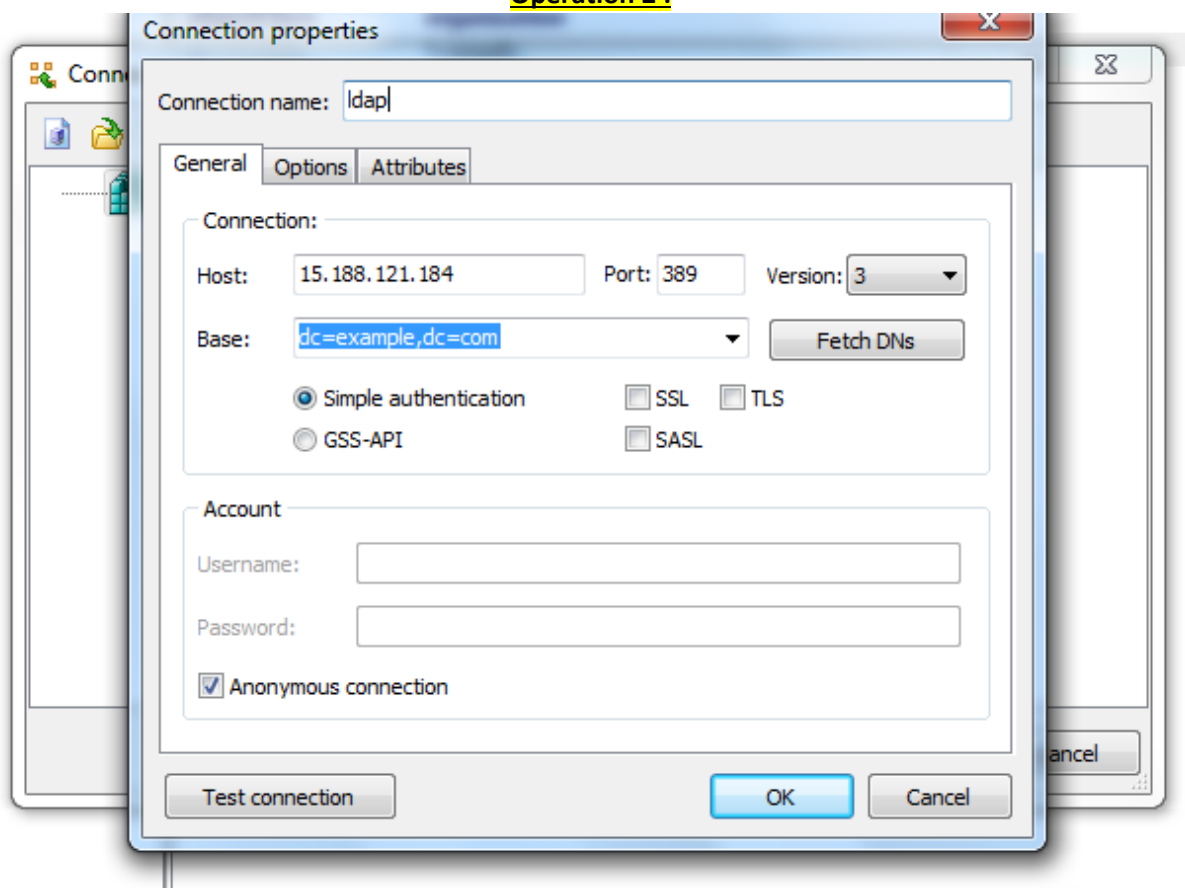


Exercice 1 :



Opération 2 :



Attribute	Value	Type	Size
objectClass	top	Text	3
objectClass	dcObject	Text	8
objectClass	organization	Text	12
o	Example	Text	7
dc	example	Text	7

Question 2.1 :

Les valeurs de la baseDN sont : dc=example,dc=com

Opération 2.1 :

Le nom d'utilisateur est : **cn=admin,dc=example,dc=com** et le mot de passe est : virtrygr

Connection name: ldap2

General Options Attributes

Connection:

Host: 15.188.121.184 Port: 389 Version: 3

Base: dc=example,dc=com Fetch DNS

Simple authentication ☒ SSL ☐ TLS ☐
GSS-API ☐ SASL ☐

Account

Username: cn=admin,dc=example,dc=com

Password: ••••••••

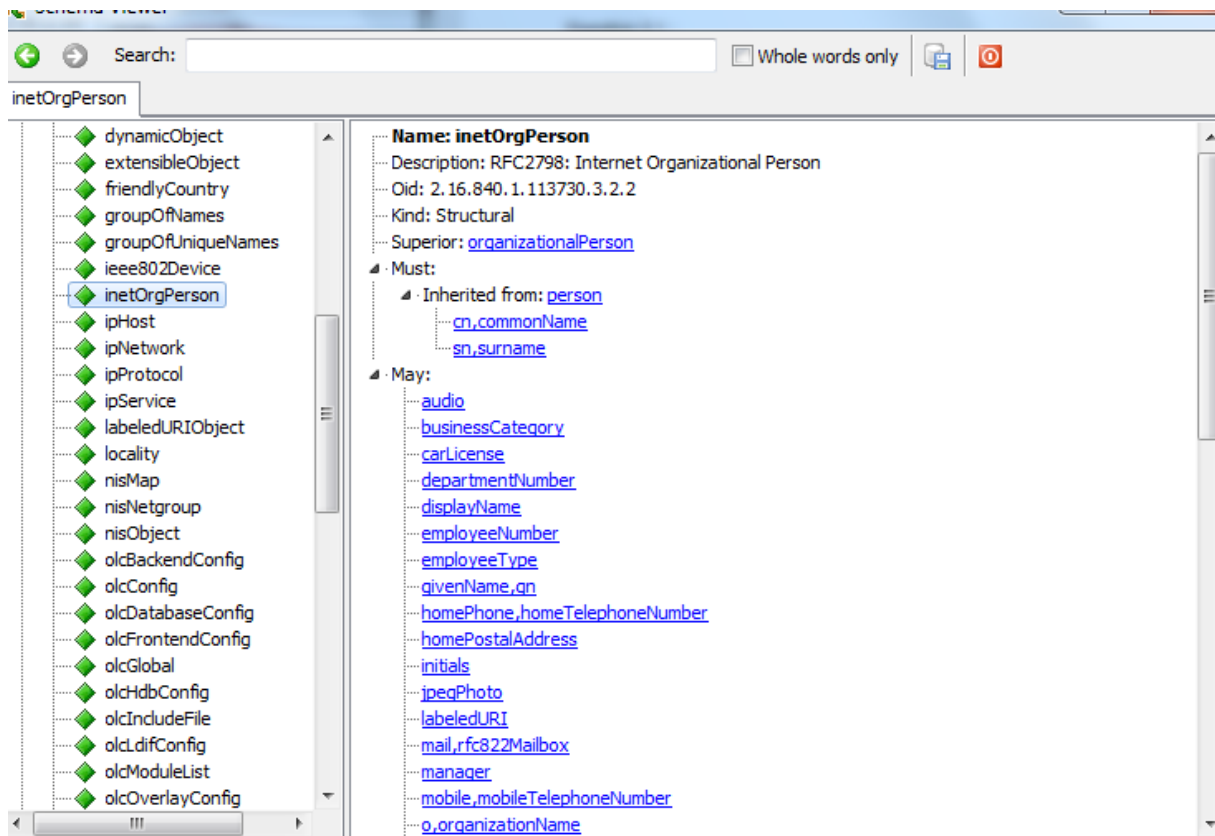
☐ Anonymous connection

Test connection OK Cancel

Question 2.2 :

Les classes de l'objet admin sont : **simpleSecurityObject** et **organizationalrole**

Attribute	Value
objectClass	simpleSecurityObject
objectClass	organizationalRole
cn	admin
description	LDAP administrator
userPassword	{SSHA}T2a+lbH/fsL7Gh3w5Ju+o8mjyANfr8F8



On ne peut convertir en un objet inetOrgPerson car c'est une classe qui ne fait pas partie de l'entité cn=admin. Sur le site Zytrax : de même pour inetOrgPerson.schema

www.zytrax.com/books/ldap/ape/core-schema.html

trax.open

SPONSORED SEARCHES

LDAP Core Schema

Extensibleobject Schema

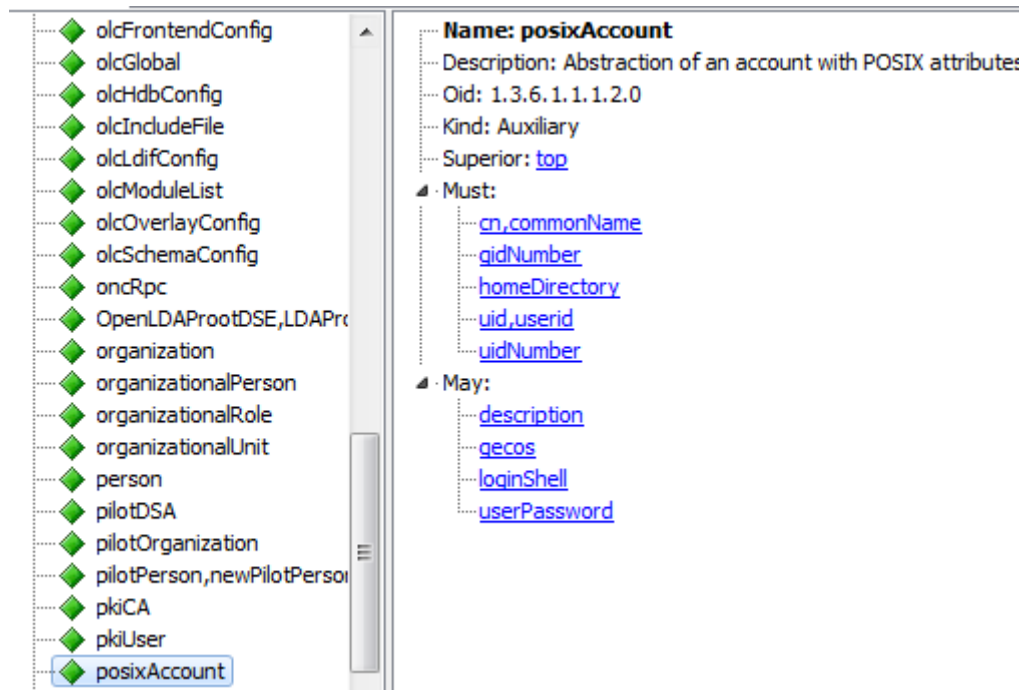
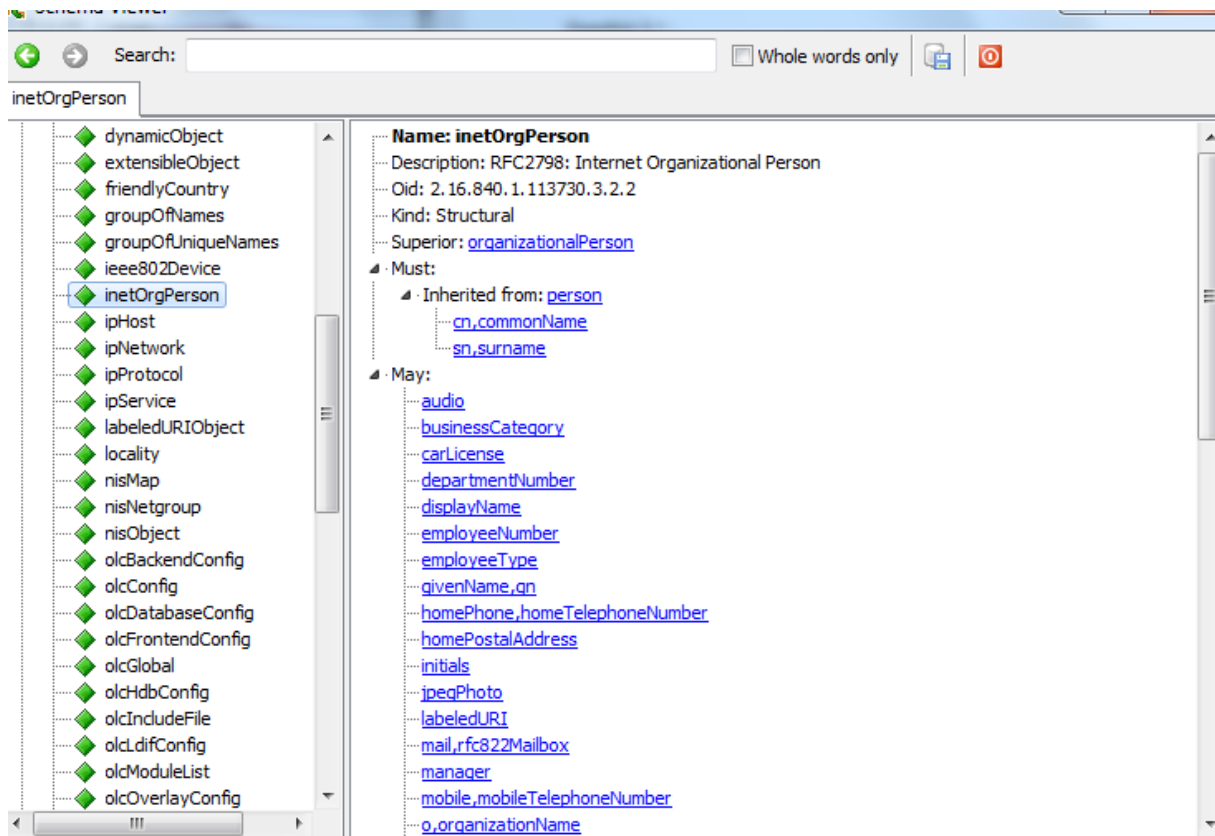
Appendix E: core.schema

This standard schema is released with most LDAP distributions.

```
# $OpenLDAP: pkg/ldap/servers/slapd/schema/core.schema,
# v 1.7.2.19 2002/06/06 00:25:24 Kurt Exp $
#
# OpenLDAP Core schema
#
# Includes LDAPv3 schema items from:
#   RFC2251-RFC2256 (LDAPv3)
#
# select standard track schema items:
#   RFC2079 (URI)
#   RFC2274 (uid/do)
#   RFC2247 (do/doObject)
#   RFC2889 (Dynamic Directory Services)
#
# select informational schema items:
#   RFC2377 (uidObject)
#
# select IETF "work in progress" LDAPext/LDUP items
#   ldapSubentry
#   ldapRootDSE
#   named referrals
#   alias draft
#
# *****
#
# THESE ATTRIBUTES ARE OPERATIONAL FROM OpenLDAP 2.1+ AND NOT INCLUDED
#
# IN CORE.SCHEMA
#
# INCLUDED HERE FOR CLARITY ONLY
#
# *****
#
# Standard X.501(93) Operational Attribute Types from RFC2252
#
# attributetype ( 2.5.4.41 NAME 'name'
#   EQUALITY caseIgnoreMatch
#   SUBSTR caseIgnoreSubstringMatch
#   SYNTAX 1.3.6.1.4.1.1466.115.121.1.15(32768) )
#
# attributetype ( 2.5.4.49 NAME 'distinguishedName'
#   EQUALITY distinguishedNameMatch
```

Opération 3 :

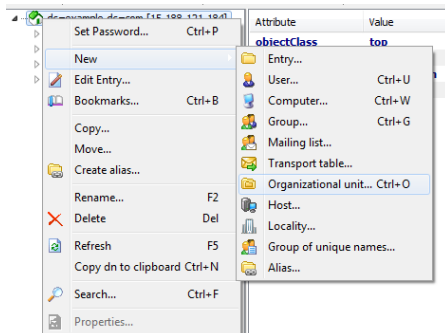
Voici les classes dans le schéma de l'annuaire : inetOrgPerson et posixAccount



Question 3.1 :

Il n'existe pas de différences entre l'openldap et le Ldapadmin

Opération 4 :



Create Organizational Unit

Name: John

Description:

Street:

City:

State/Province: Zip Code:

OK Cancel

Group name: toto_group

Description:

Members Samba

Name	Path
toto	example.com/

Add Remove

OK Cancel

Create User

Account Business Personal Membership

First name: toto Initials: Second name: totoman

Display name: toto

Username: toto Login shell: toto

Home Directory: /home/toto

Gecos:

Account properties

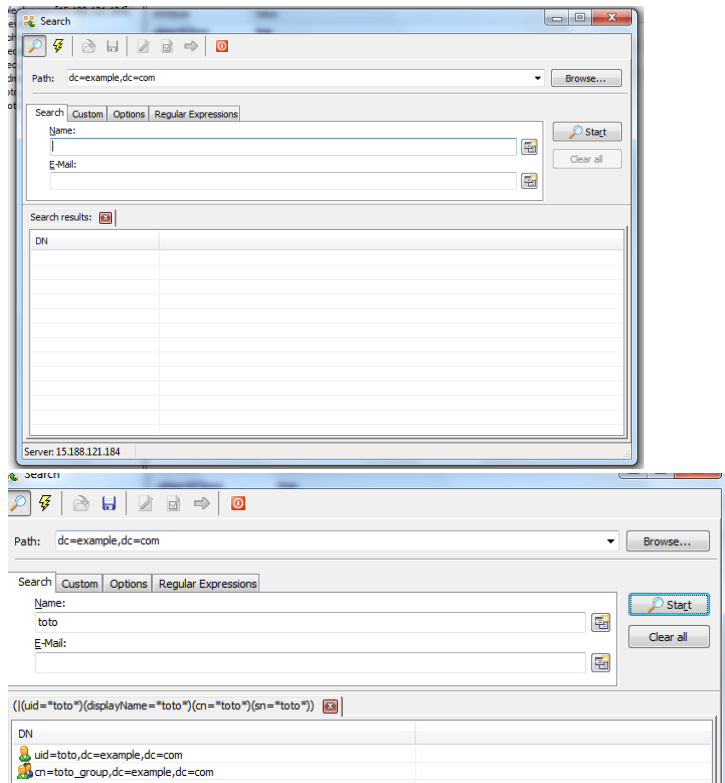
☐ Shadow Account ☐ Samba Account ☐ Mail Account

OK Cancel

Attribute	Value	Type	Size
objectClass	posixAccount	Text	12
objectClass	top	Text	3
objectClass	inetOrgPerson	Text	13
gidNumber	0	Text	1
givenName	toto	Text	4
uid	toto	Text	4
loginShell	toto	Text	4
sn	totoman	Text	7
displayName	toto	Text	4
homeDirectory	/home/toto	Text	10
cn	toto	Text	4
uidNumber	10252	Text	5
userPassword	{SHA}bm+3J18YqaBcgcJ9Pc5hk2G89ik=	Text	33

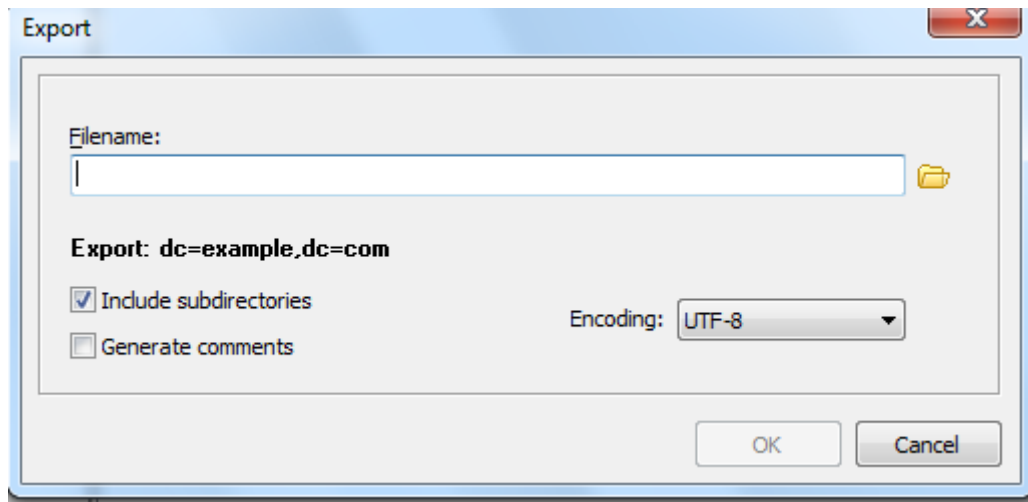
Question 4.1 :

Pour rechercher les : il suffit de cliquer sur le bouton :



Question 4.2 :

Pour exporter il faut cliquer sur tool->export depuis la connexion



Opération 5 :

```

ubuntu@ip-172-31-28-214:~$ sudo slapcat
5df1492d ldif read file: checksum error on "/etc/ldap/slapd.d/cn=config.ldif"
dn: dc=example,dc=com
objectClass: top
objectClass: dcObject
objectClass: organization
o: Example
dc: example
structuralObjectClass: organization
entryUUID: 37a83506-afc4-1039-8182-4f6b9a43ed60
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191210181122Z
entryCSN: 20191210181122.972864Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191210181122Z

dn: cn=admin,dc=example,dc=com
objectClass: simpleSecurityObject
objectClass: organizationalRole
cn: admin
description: LDAP administrator
userPassword:: e1NTSEF9VDJhK2xiSC9mc0w3R2gzdzVKdStvOG1qeUFOZnI4Rjg=
structuralObjectClass: organizationalRole
entryUUID: 37a91976-afc4-1039-8183-4f6b9a43ed60
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191210181122Z
entryCSN: 20191210181122.978715Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191210181122Z

dn: ou=people,dc=example,dc=com
ou: people
description: All people in organisation
objectClass: organizationalUnit
structuralObjectClass: organizationalUnit
entryUUID: 9b765518-afc4-1039-9270-1d87cf80cad5
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191210181410Z
entryCSN: 20191210181410.418164Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191210181410Z

dn: ou=students,ou=people,dc=example,dc=com
ou: students
description: All students in organisation
objectClass: organizationalUnit
structuralObjectClass: organizationalUnit
entryUUID: 9b767b10-afc4-1039-9271-1d87cf80cad5
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191210181410Z
entryCSN: 20191210181410.419140Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191210181410Z

dn: ou=employees,ou=people,dc=example,dc=com
ou: employees
description: All employees in organisation
objectClass: organizationalUnit
structuralObjectClass: organizationalUnit
entryUUID: 9b7698ac-afc4-1039-9272-1d87cf80cad5

```

```

entryUUID: 9b772150-afc4-1039-9274-1d87cf80cad5
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191210181410Z
entryCSN: 20191210181410.423396Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191210181410Z

dn: ou=John,dc=example,dc=com
objectClass: top
objectClass: organizationalUnit
ou: John
structuralObjectClass: organizationalUnit
entryUUID: 2f05b514-b095-1039-88af-354dfd72ef70
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191211190713Z
entryCSN: 20191211190713.302618Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191211190713Z

dn: uid=toto,dc=example,dc=com
objectClass: posixAccount
objectClass: top
objectClass: inetOrgPerson
gidNumber: 0
givenName: toto
uid: toto
loginShell: toto
sn: totoman
displayName: toto
homeDirectory: /home/toto
cn: toto
uidNumber: 10252
structuralObjectClass: inetOrgPerson
entryUUID: b759862e-b096-1039-88b1-354dfd72ef70
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191211191811Z
userPassword:: e1NIQX1ibSszSjE4WXFhQmNnY0o5UGM1aGsyRzg5aWs9
entryCSN: 20191211191954.907628Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191211191954Z

dn: cn=toto_group,dc=example,dc=com
objectClass: posixGroup
objectClass: top
cn: toto_group
memberUid: toto
gidNumber: 10133
structuralObjectClass: posixGroup
entryUUID: d4a6f7e8-b096-1039-88b2-354dfd72ef70
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191211191900Z
entryCSN: 20191211191900.680254Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191211191900Z

```



```

1 dn: dc=example,dc=com
2 objectClass: top
3 objectClass: dcObject
4 objectClass: organization
5 o: Example
6 dc: example
7
8 dn: cn=admin,dc=example,dc=com
9 objectClass: simpleSecurityObject
10 objectClass: organizationalRole
11 cn: admin
12 description: LDAP administrator
13 userPassword: {SSHA}T2a+lbH/fsL7Gh3w5Ju+o8mjyANfr8F8
14
15 dn: ou=people,dc=example,dc=com
16 ou: people
17 description: All people in organisation
18 objectClass: organizationalUnit
19
20 dn: ou=students,ou=people,dc=example,dc=com
21 ou: students
22 description: All students in organisation
23 objectClass: organizationalUnit
24
25 dn: ou=employees,ou=people,dc=example,dc=com
26 ou: employees
27 description: All employees in organisation
28 objectClass: organizationalUnit
29
30 dn: ou=securityGroups,dc=example,dc=com
31 ou: securityGroups
32 description: All ldap groups to manage the security of objects in an organisatio
33 n
34 objectClass: organizationalUnit
35
36 dn: ou=Devices,dc=example,dc=com
37 ou: Devices
38 description: All devices in organisation
39 objectClass: organizationalUnit
40
41 dn: ou=John,dc=example,dc=com
42 objectClass: top
43 objectClass: organizationalUnit
44 ou: John
45
46 dn: uid=toto,dc=example,dc=com

```

```

46 dn: uid=toto,dc=example,dc=com
47 objectClass: posixAccount
48 objectClass: top
49 objectClass: inetOrgPerson
50 gidNumber: 0
51 givenName: toto
52 uid: toto
53 loginShell: toto
54 sn: toteman
55 displayName: toto
56 homeDirectory: /home/toto
57 cn: toto
58 uidNumber: 10252
59 userPassword: {SHA}bm+3J18YqaBcgcJ9Pc5hk2G89ik=
60
61 dn: cn=toto_group,dc=example,dc=com
62 objectClass: posixGroup
63 objectClass: top
64 cn: toto_group
65 memberUid: toto
66 gidNumber: 10133

```

Entryuid disparaît de l'exportation Ldapadmin et structuralobjectclass et creatorsName, createTimeStamp, entryCSN,modifiersName,modifyTimestamp

```

structuralObjectClass: organization
entryUUID: 37a83506-afc4-1039-8182-4f6b9a43ed60
creatorsName: cn=admin,dc=example,dc=com
createTimestamp: 20191210181122Z
entryCSN: 20191210181122.972864Z#000000#000#000000
modifiersName: cn=admin,dc=example,dc=com
modifyTimestamp: 20191210181122Z

```