

FusionDirectory installation

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Installing FusionDirectory

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Automating the installation

- Automating the installation

LDAP Documentation

- FusionDirectory LDAP Index

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation_admin

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Conceiving your directory

This part suggest you an empiric methode of directory conception, and trap to avoid

Trap to avoid

Conceiving Directory could be an impossible Mission ! Why? Because we have to possibility to store every things .. But everything could be stored ?

When creating your directory, you need to keep in mind the following :

- Network services which will be based on
 - What are the LDAP specifications for your applications ?
 - What is the research method? (for example some applications need rfc2309bis specifications and didn't know posix specifications)
- User and group management and their organizations.
 - Each structure has its own operational way
 - The challenge is to translate in computer terminology a human organization without enough details
- Respect RFC
 - We can't do everything !
 - A directory obeys specific rules as organization naming and structure.
- Need to be pragmatic
 - A Infrastructure directory isn't an organization chart and an addressbook. (but they could be determined from it)

Conception method of directory

The following method isn't the Truth ! but it could be help you !

Analyze the current situation

In case of a small company (eg: acme.com) with 3 geographical locations, we could see that each locations have their own IT services but only one accounting service and one selling service

You need to :

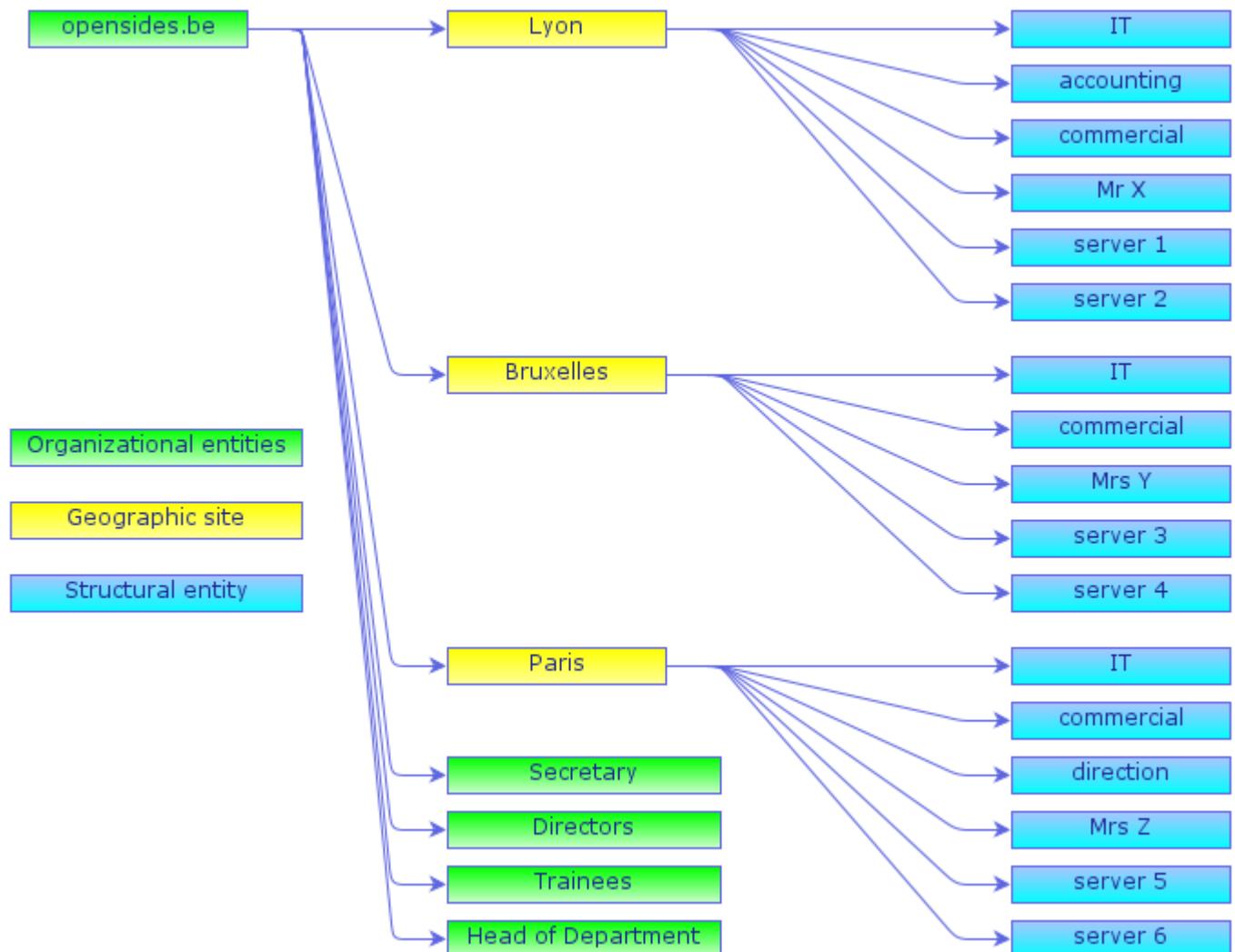
- Detect structural entities
 - IT service
 - Management service
 - accounting service
 - selling service
 - factory service
 - employe
 - server and work station

- Detect organisational entities
 - secretary
 - Director
 - Head of service
 - Trainee
- Detect potentially geographical locations
 - Lyon
 - Paris
 - Bruxelles
- Detect the division of each entities (where is everybody?) ex :
 - Lyon : IT, accounting service, selling service
 - Bruxelles : IT, factory service, selling service
 - Paris : IT, selling service, management service
- Detect what will be the nee about searching inside this directory

All thoses informations will help to create a directory usable for searching efficiently and managing everthing by everyone

Suggested schema

For this virtual company, this is the suggested schema

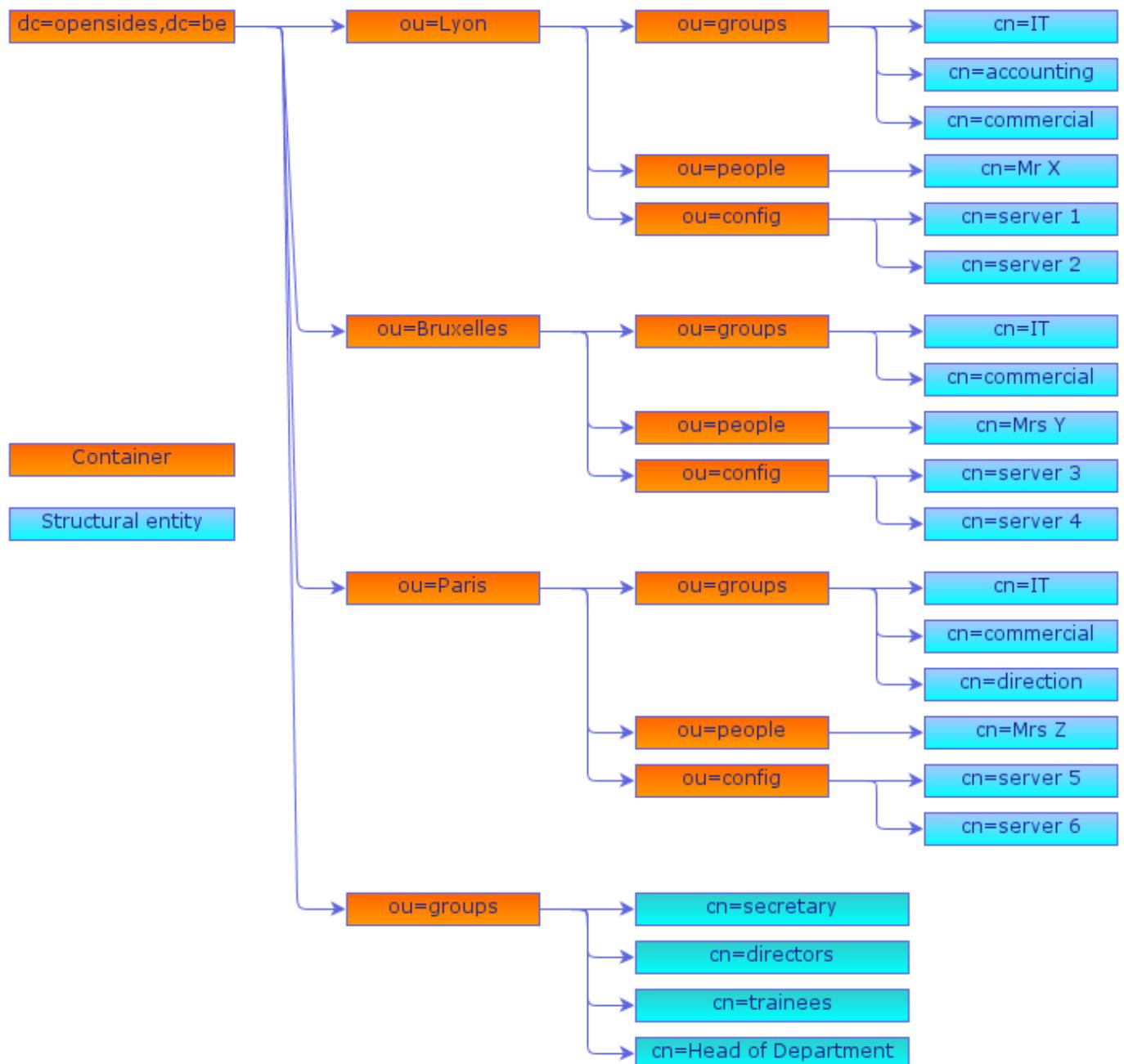


some precisions : Redondancy of « IT », « commercial » and « direction » groupe is made voluntary, it allow optimization about research in case of listing everyone in one locations or all locations.

example :

- Listing of each selling employe = list of all person belong to “selling” group
- Listing of each selling employe in Lyon = list of all person belong to “selling” group inside Lyon entities

Translation in LDAP terms of above schema



Some precisions : The structural entities « employees », « servers » or « salesmen » are translated like this in a directory :

- « salarié » is an entity representing a person : it's a user
- « commercial » is an entity grouping person : it's a group

- « serveur » is an entity representing a system : it's a configuration
- Each structural entities must be contained in container called in LDAP language “Organizationnal Unit OU”.
- Each structural entities must be unique and identified thanks to an attribut and the name of container : The common name (CN) and the branch.
- For some object, the CN attribute coulbe be replace by the UID (Unique Identifier)
example : miss Z is identify by *cn=mrs Z,ou=people,ou=paris,dc=opensides,dc=be*

Please note :

- Name with accent (like in french language) should be avoid
 - By unofficial convention, users are stocked in an OU called people and groups in groups.
 - root of the LDAP tree is generally the identifiant of the company.
This identifiant is often the Full Qualified Domain Name (FQDN) of the company (eg : opensides.be).
- By this way, we use the data type Domain Company (DC) : so « dc=opensides,dc=be »

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

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https://documentation.fusiondirectory.org/en/documentation_admin/conceiving_your_directory

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FusionDirectory possibilities

FusionDirectory considers the role of an LDAP server is no than organized storage. This is not the LDAP server duty to ensure content consistency (consistency can be assured by the overlay openLDAP dynamicGroup) or even to define the security policy of the password (LDAP ppolicy overlay). This vision allows FusionDirectory to be used with any type of LDAP server provided that it knows how to communicate in LDAP V2 or V3 as:

- ApacheDirectory from the apache Fondation ¹⁾
- eDirectory from Novell ²⁾
- 389-Directory From Fedora project ³⁾
- Sun Directory from Sun Microsystem ⁴⁾

Content protection of LDAP tree

FusionDirectory adds entries in the directory, an attribute (FusionDirectoryACL) for limiting access to an LDAP record, or even attribute to users.

This avoids the tedious drafting of rules Control (ACL) in the directory server. ACLs are only used by FusionDirectory and are not intrusive to other applications using the directory server. These ACLs allow integration FusionDirectory enough thrust into an information system as complex as it is. These ACLs can be assigned to roles. We may have a role:

- user : it can connect to FusionDirectory with his login / password to change is data only
- Local administrator: this role will be able to manage users and groups and also a branch
- global administrator: this role has the right to do everything
- human resources: this role can only create users from template to optimize the flow of arrival of new people

Access to multiple LDAP trees

FusionDirectory is a web interface running by profile.

It is therefore possible to have a single FusionDirectory instance and access multiple LDAP servers with different profiles.

In the case of an information system in multiple locations with separate directories, a single interface will manage them all.

FusionDirectory Triggers

FusionDirectory incorporates a series of triggers that can launch a specific action based on a task FusionDirectory must run.

These triggers are associated with a content type (LDAP user, group, server, password, service (etc.

..) and the triggering action (create, edit, delete, change password ...)

This system is very useful when certain actions should be followed on arrival or departure of a person in the company For example, when creating a user, a script generation form can be executed automatically with information from the LDAP server. This can be useful for generating badges with photo, a form of access to the canteen or sending an email to warn of the actual arrival of the person.

This system is also convenient when we want to deploy the account of that person on an application does not support LDAP (FusionDirectory can also transmit the password) Another example is when a user leaves, you must:

- archive and delete his mailbox
- archive and remove its network space
- delete him from third party applications not connected to LDAP. All of this can be easily done by shell scripts (at least in UNIX environment) and run automatically after the suppression of the person by the administrator in FusionDirectory

The interaction with non-LDAP applications

FusionDirectory stores information of a service or a server on an LDAP server.

How about when this service does not have the opportunity to interact with LDAP? This question can be solved by creating:

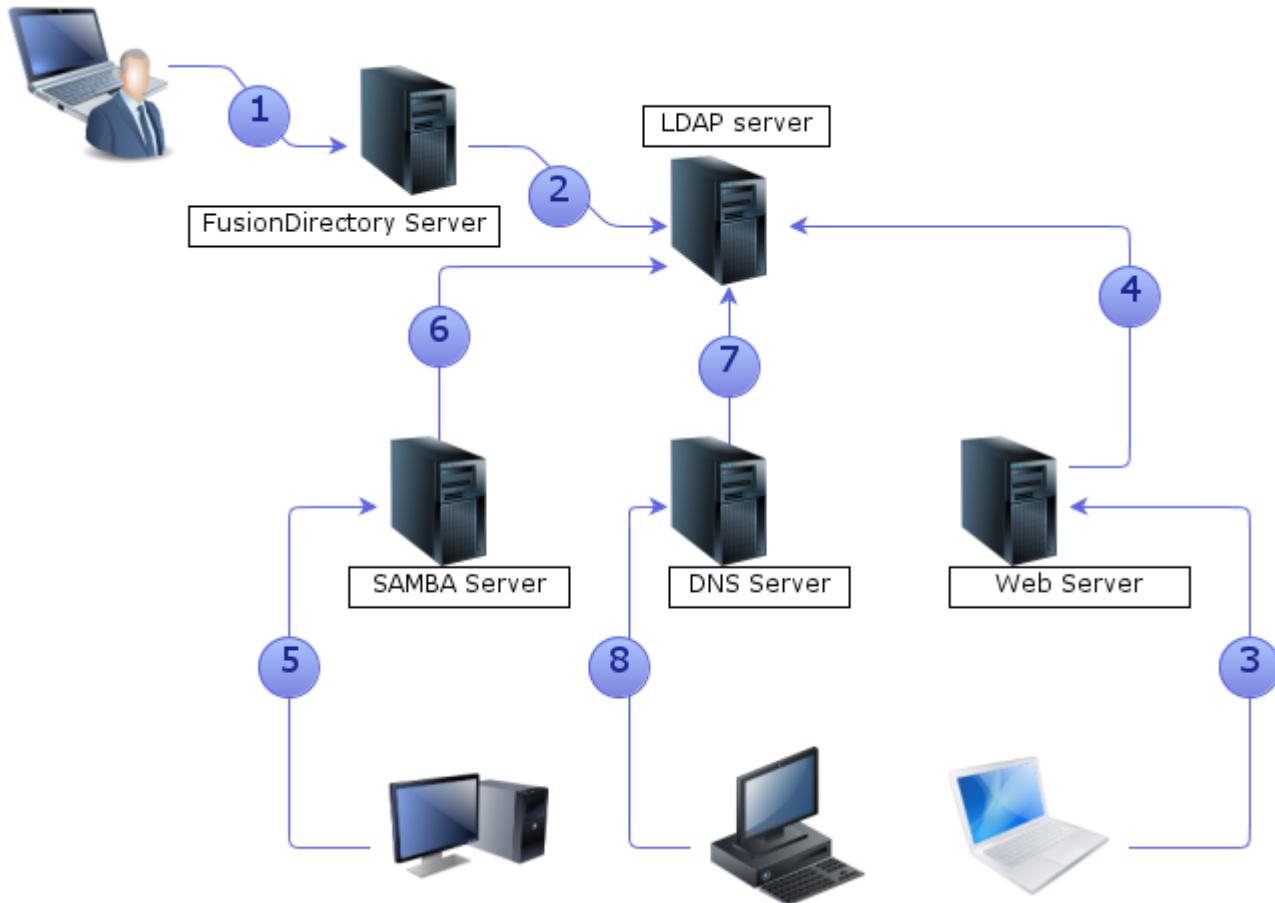
- LDAP schema suitable for application to the LDAP server
- a plugin for its management in FusionDirectory
- a plugin for the client installed on the server (client as a module FusionInventory⁵⁾

Basic operation of FusionDirectory

Architecture diagram

Here is a diagram detailing the operation for servers

- samba
- DNS server
- Webserver



The common steps

- **Step 1 :** the user connects to the server via a web interface FusionDirectory. the user account already exists in the LDAP server.
- **Step 2 :** For each write or read in the directory, the web application FusionDirectory connects to the LDAP server as a user with sufficient rights to delete, modify or create any object. The connection is done through LDAP v3. All connections settings and display parameters of FusionDirectory are stored in /etc/FusionDirectory/FusionDirectory.conf

Web application case

The application has been configured to authenticate each user through the LDAP. The web application has the name of the LDAP server, the search filter and possibly a service account.

- **Step 1 and 2 :** The administrator created a user account with the POSIX extension (which allows the filling of the password for a given account)
- **Step 3 :** The user connects to the web application provides a login / password
- **Step 4 :** The web application confirm or reject the connection of the user on the application by querying LDAP directory.

Samba server case

The server contains the Samba network drives belonging to the user and possibly the domain controller.

- **Step 1 and 2** : L'administrateur a modifié le compte de la personne précédente en rajoutant l'option Samba (conversion du mot de passe posix en mot de passe windows, définition des règles d'accès, chemin UNC du lecteur réseau de l'utilisateur ..)
- **Step 5** : The user requests access to the Samba server.
- **Step 6** : The Samba server retrieves information about the requesting user on the LDAP server and uses it to allow access and direct the user to the appropriate shared directory

case of DNS system with bind software

The DNS server provided among other things, the equivalence between IP addresses and names of qualified servers. For that he needs to consult a table of equivalence IP ⇒ name and name ⇒ IP. FusionDirectory allows the manipulation and storage in the LDAP configuration of the DNS server bind⁶⁾.

- **Step 1** : Via the web interface, the administrator says DNS records.
- **Step 2** : Data is written to the LDAP server .
- **Step 7** : synchronization of regular equivalence tables from the local content of the LDAP server is done via a script (ldap2zone) running on the DNS server. Running this script every time you change DNS settings on the LDAP server can be implemented through triggers. *
- **Step 8** : the client accesses the DNS server by the application in its classical version 9, can bind directly query the LDAP server

General remarks on the use of FusionDirectory

In this framework, the roles between FusionDirectory, the LDAP server and server tiers are well defined:

- FusionDirectory reads / writes to the LDAP, the server application or third read the LDAP
- FusionDirectory is not essential to the operation of servers and / or applications.
- FusionDirectory is essential for a use of data in a friendly way.

The 3 examples above are not the only applications, because other services use the same principle as the mail server Postfix to route messages or the server dhcpcd for assigning dynamic IP addresses.

¹⁾ <http://directory.apache.org/>

²⁾ <http://www.novell.com/fr-fr/products/edirectory/overview.html>

³⁾ <http://directory.fedoraproject.org/>

⁴⁾ http://www.sun.com/software/products/directory_srvr_ee/dir_srvr/index.xml

⁵⁾ <http://forge.fusioninventory.org/projects/fusioninventory-ldap>

⁶⁾ <https://www.isc.org/software/bind>

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**



Permanent link:
https://documentation.fusiondirectory.org/en/documentation_admin/introduction_capabilities

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Getting the official GPG keys to active package signature

Our packages for Debian and Centos/RHEL are signed with the official gpg key of the project.

Getting the gpg key

```
gpg --keyserver keys.gnupg.net --recv-key 62B4981F  
gpg --export -a "Fusiondirectory Archive Manager  
<contact@fusiondirectory.org>" > FD-archive-key
```

Adding the key to apt for Debian/Ubuntu

```
apt-key add FD-archive-key
```

Adding the key to RPM for Centos / RHEL / Scientific Linux

```
cp FD-archive-key /etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY  
rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

Adding the key to SLES

```
rpm --import FD-archive-key
```

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_get_gpg_keys

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Before Installation

Some information

FusionDirectory and OpenLdap Server will be in the same server but it could be on 2 different servers. This directory will contains some informations about acme.com company In this part only user and group are considered. The documentation describe directory building for acme.com company.

The Installation will be in several main steps

- Installation of OpenLdap server
- Installation and Integration of FusionDirectory OpenLdap Schema
- Installation of FusionDirectory-core
- Configuration of FusionDirectory-core

Please find here the whole documentation in one page:[Complete documentation](https://documentation.fusiondirectory.org/)

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<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation

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Installation of OpenLdap server

Install openldap and related utilities:

Debian 'wheezy' or 'squeeze'

```
root@fusioninstall:~# apt-get install slapd  
root@fusioninstall:~# apt-get install ldap-utils
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusioninstall:~$ sudo apt-get install slapd  
root@fusioninstall:~$ sudo apt-get install ldap-utils
```

Enter the OpenLDAP administrator password. You could enter anything, the configuration script will be reran.

```
Configuring slapd  
Please enter the password for the admin entry in your LDAP directory.  
Administrator password:  
adminfusion  
<0k>
```

re enter the password in order to confirm it and select **ok**

```
Configuring slapd  
Please enter the admin password for your LDAP directory again to verify  
that you have typed it correctly.
```

Re configuration of LDAP server

In order to have a more specific installation, we will relaunch the configuration through the debian tool.

Debian 'wheezy' or 'squeeze'

```
root@fusioninstall:~# dpkg-reconfigure slapd
```

Debian Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusioninstall:~$ sudo dpkg-reconfigure slapd
```

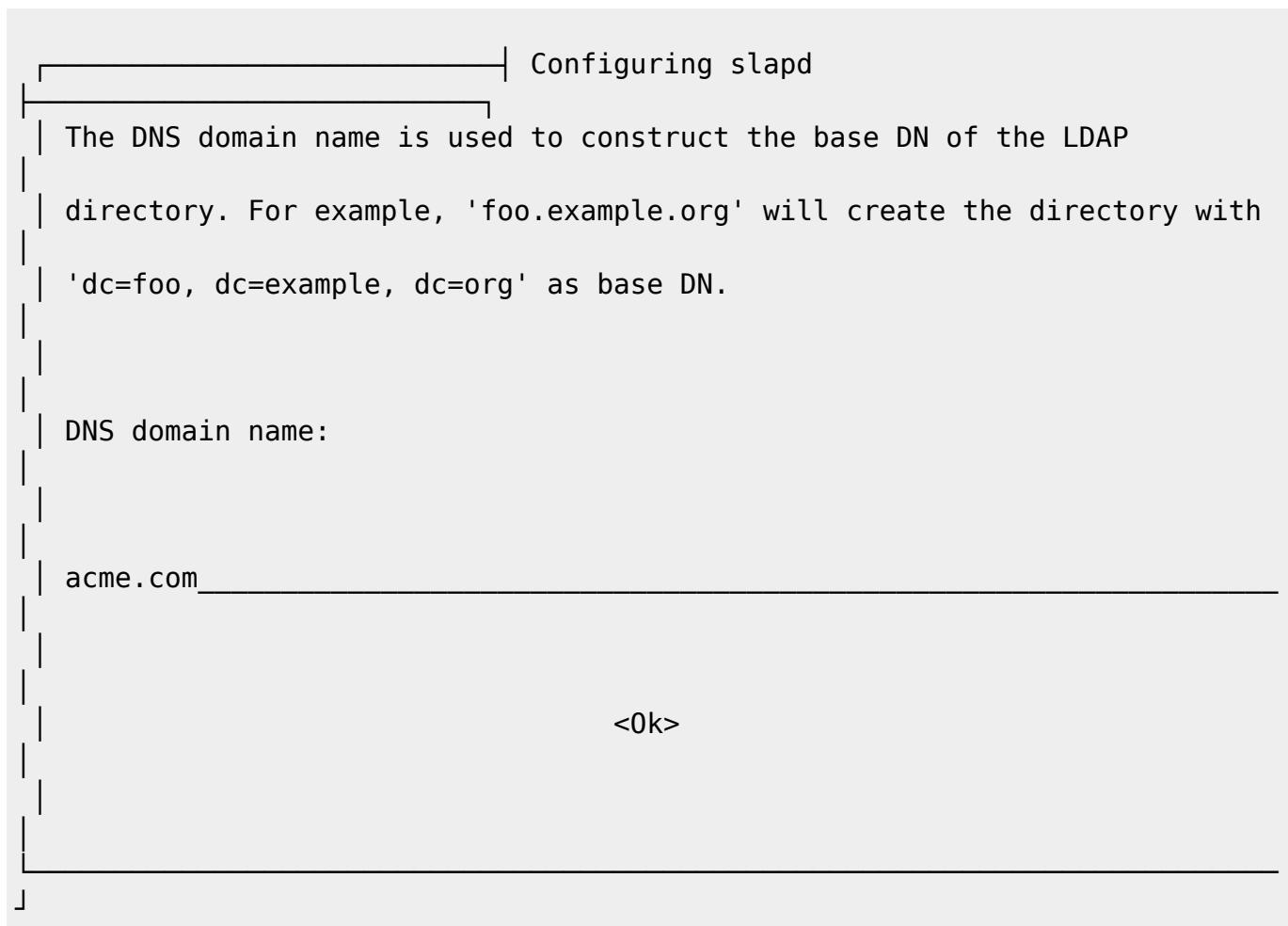
On this screen, select **No** in order to write a new configuration:

```
| Configuring slapd
| |
| If you enable this option, no initial configuration or database will be
| created for you.
|
| Omit OpenLDAP server configuration?
|
| <Yes> <No>
```

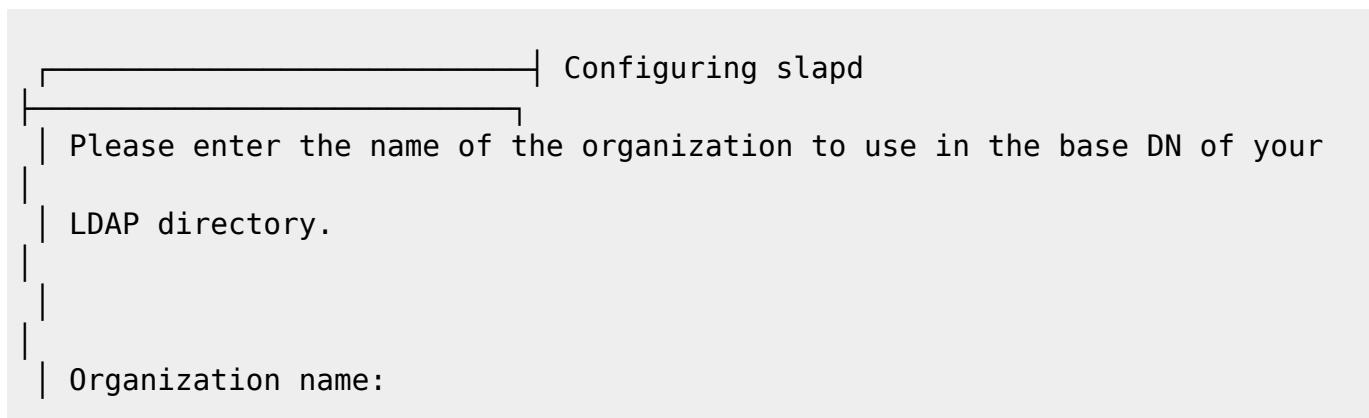


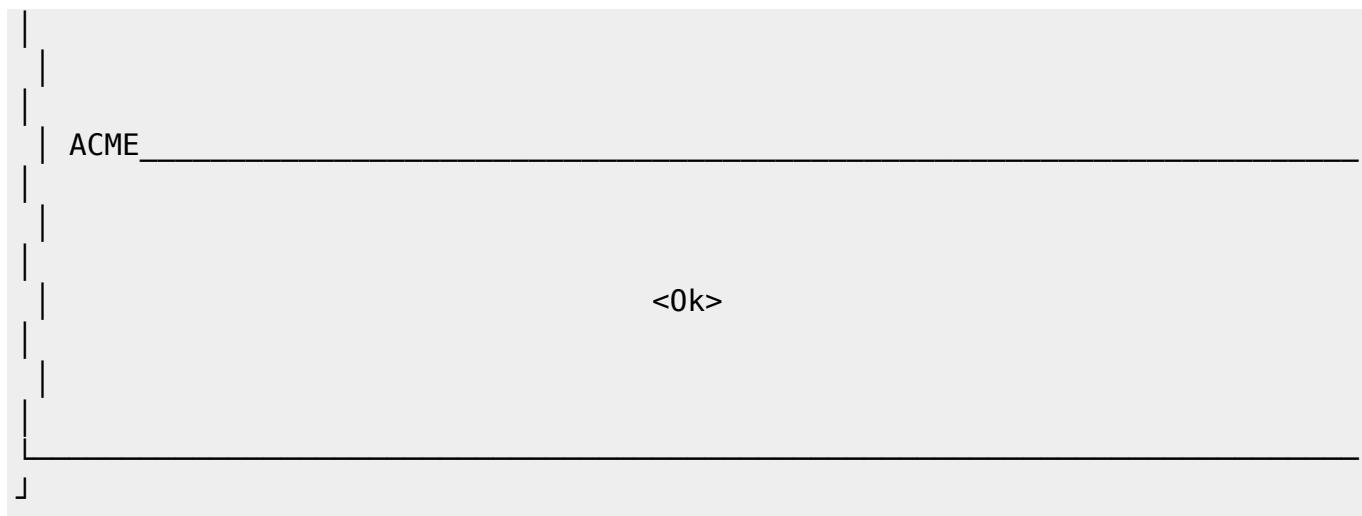
Write the directory name.

The following screen is the most important. It defines the tree of your directory. The tree name is base on the Domain name. acme.com will provide a tree called : **dc=acme,dc=com** Pay attention to this field, it could be difficult to change (All information stored inside the tree will be based on this name!)



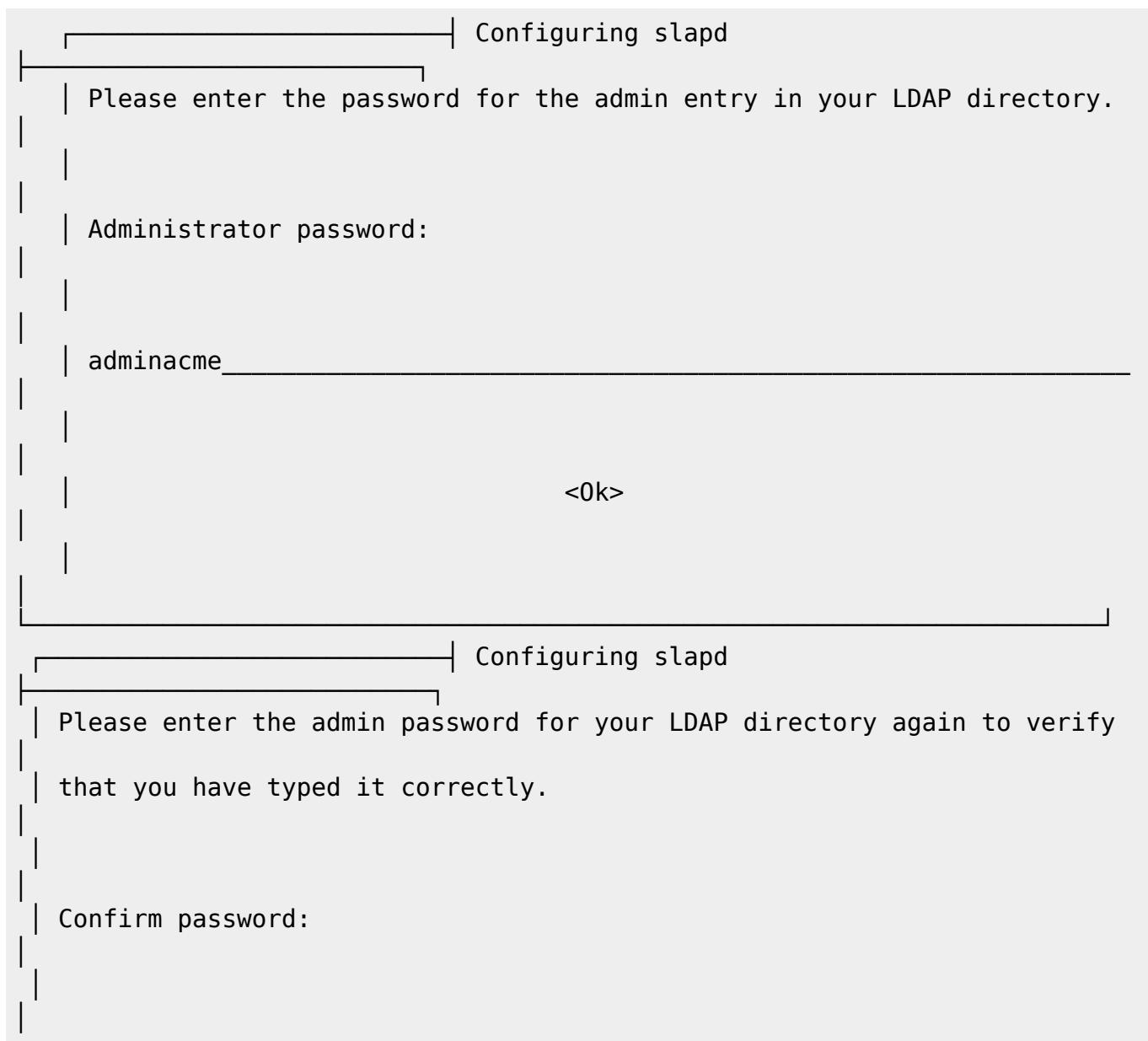
The following screen will provide the organization name:





Password of the Directory Administrator.

The two next screens will ask you the password of the LDAP directory . By default (In Debian), the directory admin name is "**admin**". The LDAP Name (also called distinguished name(dn) will be : *cn=admin,dc=acme,dc=com*.



```
*****
```

```
<0k>
```

The next screen will ask you the kind of backend storage. As advised, you could choose **HDB**:

Configuring slapd

The HDB backend is recommended. HDB and BDB use similar storage formats, but HDB adds support for subtree renames. Both support the same configuration options.

In either case, you should review the resulting database configuration for your needs. See `/usr/share/doc/slapd/README.DB_CONFIG.gz` for more details.

Database backend to use:

BDB

****HDB****

```
<0k>
```

The following question will ask you if you want to drop your directory if you remove Openldap software .. (if Yes I hope you have good backup ...)

Configuring slapd

Do you want the database to be removed when slapd is purged?

<Yes>

<No>

Purge old (dirty) directory.

The debian installer detect the old installation, it suggests you to move the old directory

Configuring slapd

There are still files in /var/lib/ldap which will probably break the configuration process. If you enable this option, the maintainer scripts will move the old database files out of the way before creating a new database.

Move old database?

<Yes>

<No>

Ldap v2 protocol

Openldap can use the LDAP v2 protocol (its no longer used, but some applications may use it) You could say **No**.

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  
| can't use LDAPv3, you should select this option and 'allow bind_v2' will  
| be added to your slapd.conf file.  
|
```

```
| Allow LDAPv2 protocol?
```

```
|<Yes>
```

```
|<No>
```

Check if Openldap is running

Debian 'wheezy' or 'squeeze'

```
root@fusion-install:~# /etc/init.d/slapd status  
slapd is running.  
root@fusion-install:~#
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusion-install:~$ sudo /etc/init.d/slapd status  
slapd is running.  
root@fusion-install:~$
```

if not:

Debian 'wheezy' or 'squeeze'

```
root@fusion-install:~# /etc/init.d/slapd start  
root@fusion-install:~# /etc/init.d/slapd status  
slapd is running.  
root@fusion-install:~#
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusion-install:~$ sudo /etc/init.d/slapd start
root@fusion-install:~$ sudo /etc/init.d/slapd status
slapd is running.
root@fusion-install:~$
```

Go to

[Installation and Integration of FusionDirectory Openldap Schema](#)

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation/openldap_install

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Installation of FusionDirectory Schema

FusionDirectory packages can be found on the official repository : <http://repos.fusiondirectory.org>

Add the official repositories

Edit your `/etc/apt/sources.list` and add fusiondirectory repositories:

Debian 'wheezy'

```
root@fusioninstall:~# vim /etc/apt/sources.list

# fusiondirectory repository
deb http://repos.fusiondirectory.org/debian-wheezy wheezy main

# fusiondirectory debian-extra repository
deb http://repos.fusiondirectory.org/debian-extra wheezy main
```

Debian 'jessie'

```
root@fusioninstall:~# vim /etc/apt/sources.list

# fusiondirectory repository
deb http://repos.fusiondirectory.org/debian-jessie jessie main
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusioninstall:~$ sudo vim /etc/apt/sources.list

# fusiondirectory repository
deb http://repos.fusiondirectory.org/debian-wheezy wheezy main

# fusiondirectory debian-extra repository
deb http://repos.fusiondirectory.org/debian-extra wheezy main
```

Update your cache repository:

Debian 'wheezy' and 'jessie'

```
root@fusioninstall:~# apt-get update
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusioninstall:~$ sudo apt-get update
```

Check if all fusiondirectory packages could be found:

```
root@fusioninstall:~# apt-cache search fusiondirectory | more
fusiondirectory - Web Based LDAP Administration Program
fusiondirectory-developpers - Provide Scripts and doc for FusionDirectory
development
fusiondirectory-plugin-addressbook - addressbook plugin for FusionDirectory
fusiondirectory-plugin-alias - alias plugin for FusionDirectory
fusiondirectory-plugin-alias-schema - alias schema for alias plugin for
FusionDirectory
fusiondirectory-plugin-apache2 - Apache virtualhost plugin for
FusionDirectory
fusiondirectory-plugin-apache2-schema - Apache schema for apache2 plugin for
FusionDirectory
fusiondirectory-plugin-argonaut - Argonaut plugin for FusionDirectory
fusiondirectory-plugin-argonaut-schema - LDAP schema for FusionDirectory
Argonaut plugin
....
```

As you can see some packages came with a schema package (eg. fusiondirectory-plugin-alias-schema). If your Ldap Server isn't on the same host as the FusionDirectory one, the *-schema packages must be installed on the Openldap server and the other on fusiondirectory one.

Add the FusionDirectory gpg key to secure the packages:

[Getting the official GPG keys to active package signature](#)

Installation of FusionDirectory Schema

Debian

```
root@fusioninstall:~# apt-get install fusiondirectory-schema
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusioninstall:~$ sudo apt-get install fusiondirectory-schema
```

This packages provide the following LDAP schema:

- /etc/ldap/schema/fusiondirectory/rfc2307bis.schema
- /etc/ldap/schema/fusiondirectory/core-fd-conf.schema

- /etc/ldap/schema/fusiondirectory/core-fd.schema
- /etc/ldap/schema/fusiondirectory/ldapns.schema
- /etc/ldap/schema/fusiondirectory/template-fd.schema

On Debian and ubuntu Quantal Quetzal, the default backend storage for schema is no longer flat file but the Directory himself. All configuration is stored in a special branch called ***cn=config***

Integrating FusionDirectory Schema

Schema provided

In order to integrate all schema in LDAP server you need to have admin right on it.

FusionDirectory need the following schema in this order :

- core schema of OpenLdap (installed by default with OpenLdap):
 - /etc/ldap/schema/core.schema
 - /etc/ldap/schema/cosine.schema
 - /etc/ldap/schema/nis.schema
 - /etc/ldap/schema/inetorgperson.schema
- Core schema of FusionDirectory:
 - /etc/ldap/schema/fusiondirectory/core-fd.schema
 - /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
 - /etc/ldap/schema/fusiondirectory/ldapns.schema
 - /etc/ldap/schema/fusiondirectory/template-fd.schema

Integration of Schemas

install basic necessary FusionDirectory schema:

Debian

```
root@fusion-install:~# fusiondirectory-insert-schema
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusion-install:~$ sudo fusiondirectory-insert-schema
```

check if schemas are installed:

Debian

```
root@fusion-install:~# fusiondirectory-insert-schema -l
```

```
core
cosine
nis
inetorgperson
core-fd
core-fd-conf
ldapns
template-fd
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusion-install:~# fusiondirectory-insert-schema -l
core
cosine
nis
inetorgperson
core-fd
core-fd-conf
ldapns
template-fd
```

Integration of optional Schemas

To install optional Schemas, see their respective [plugin documentation](#). Their schemas and ldifs are available within the repository (debian).

```
aptitude search fusiondirectory-plugin
```

After you installed them, e.g.:

```
aptitude install fusiondirectory-plugin-systems fusiondirectory-plugin-
systems-schema
```

Use the `fusiondirectory-insert-schema` command provided by FusionDirectory to insert them, e.g.:

```
fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/systems-
fd.schema /etc/ldap/schema/fusiondirectory/systems-fd-conf.schema
```

This insertion is required in order for FusionDirectory to function normally (especialy, it avoid errors in the Configuration page).

Go to

[Installation of FusionDirectory](#)

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation/schema_installation

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The following instructions provide a basic installation of FusionDirectory for managing User and Group.

Installation through the Debian Way

Just install by the debian way !

Debian

```
root@fusion-install:~# apt-get install fusiondirectory
```

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusion-install:~$ sudo apt-get install fusiondirectory
```

FusionDirectory is a web based application. So It install Apache Web server and configure it, install php dependancies... so it could take some times.

Configuration through web interface

After installing, Apache2 is configured for starting the initial configuration of FusionDirectory. Just go to <http://<your web server>/fusiondirectory>

Step 1 : Secure the configuration screen

You'll see the following screen :

In order to begin FusionDirectory you have to create a temporary file with a unique number. So you

need a network access on it (eg. by ssh)

```
root@fusion-install:~# echo -n 3l5idlumdq5ce66sklhsm3m2t6 >
/tmp/fusiondirectory.auth
```

- click on **next** button

Step 2 : Choose your installation language

Please select the preferred language

At this point, you can select the site wide default language. Choosing 'automatic' will use the language requested by the browser. This setting can be overridden per user.

Automatic
Catalan (Català)
Chinese (中文, 漢語)
Czech (Český)
Dutch (Nederlands)
English (English) Selected
French (Français)
German (Deutsch)
Italian (Italiano)
Polish (Polski)
Russian (русский язык)
Spanish (Español)
Venezuelan (Castellano)
Vietnamese (Tiếng Việt)

Back | Next

“Automatic” means that the language is determined directly from web browser.

Step 3 : Check if PHP application server is correctly set

PHP module and extension checks		
Checking PHP version	OK	
Checking for LDAP support	OK	
Checking for gettext support	OK	
Checking for curl support	OK	
Checking for iconv support	OK	
Checking for hash method support	OK	
Checking for IMAP support	OK	
Checking for mbstring support	OK	
Checking for MDB2 support	OK	
Checking for MDB2 mysqli support	OK	
Checking for imagick support	OK	
Checking for compression module support	OK	

PHP setup configuration (show information)		
register_globals = off	OK	
session.gc_maxlifetime >= 86400	OK	
session.auto_start = Off	OK	
memory_limit >= 128	OK	
implicit_flush = Off	OK	
max_execution_time >= 30	OK	
expose_php = Off	OK	
zend.zet_compatibility_mode = Off	OK	

Back | Next

Normally all those parameters are correctly set. If not the case you can modify it thanks to the fusioninventory apache file : /etc/fusiondirectory/fusiondirectory-apache.conf

Step 4 : Specify the connection parameter

The user specified in this screen MUST have read/write right everywhere in Directory.

- **Ldap connection**

- **Location** is the name of FusionDirectory profile. Indeed, one FusionDirectoryServer could manage several Directory
- **connection URI** is the URI of LDAP server. Here you can specify if it's an Secure LDAP connection (LDAPS)
- **TLS Connection** : check if TLS system is used
- **Base** : base dn is automatically detected, but An Idap Sevrer could have several bases in one host

- **authentication**

- **Admin DN** : the admin DN must be specified in order to read and write full base DN specified above.
- **Admin password** : the password must correspondf to the admin DN of course

- **Schema base settings**

- **Use rfc2307bis compliant groups** : LDAP user stored the DN of each group where the user belong to. It need the rfc2307.schema in Ldap server

- **Current status**

- **Information** : give you information about binding user status.

You can click on **Next** button after filling every field.

Step 5 : Schema checking of LDAP directory

This screen tell you if there is some missing schema in LDAP Directory. You can ask to FusionDirectory to check if all schema stored in LDAP are correct.

The screenshot shows the 'LDAP schema check' step of the FusionDirectory setup wizard. The left sidebar lists steps: Welcome, Language setup, Installation check, LDAP setup, LDAP schema check (selected), FusionDirectory settings 1/3, FusionDirectory settings 2/3, FusionDirectory settings 3/3, LDAP inspection, and Finish. The main panel title is 'LDAP schema check'. It contains 'Schema specific settings' with a dropdown menu set to 'Yes'. Below it is 'Check status' with the message 'Schema check succeeded'. At the bottom right are 'Back' and 'Next' buttons.

Step 6 : Generic settings

- **Look and feel**

- **theme** : for the moment there is only one theme. It allow you to create a more corporate one.

- **People and Group storage**

- **people DN attribute** : a DN is composed from one or several attribute and the base DN. In this case the DN will be build with the CN attribute(common name) and base DN : ou=people,dc=acme,dc=com
- **people storage subtree** : this is the branch where all users will be stored. by default it is ou=people (ou=Organizational Unit)
- **groups storage subtree** : this is the branch where all groups will be stored. by default it is ou=groups (ou=Organizational Unit)
- **include personal title** : in some company the title (Director, manager ..) could be used for identify one user(eg : the cn will be :cn=Director John Doe)
- **relaxing naming policies** : this option allow you to create a template for deducing the CN attribute. For using it please see manpage of Fusiondirectory.conf
- **Automatic uid** : it allow you the use a template for deducing the uid fields which MUST be unique!
- **GID/UID min** : it's the minimum assignable user or group id
- **Number base for people/groups** : you can specify a start number for gid number and uid number (useful for using Fusiondirectory in existent structure)

- **Password settings**

- **Password encryption algorithm** : You can choose what encryption algorithm you used for storing password.
- **Password restrictions** : You can choose length of passwords and how many characters need to be different from old password (in case of changing password)
- **Password change hook** : You can choose a script used after change a password (useful for password synchronisation)
- **Account expiration** : is a method to get account expired based on password validity

FusionDirectory settings 1/3

Look and feel

Theme: default

People and group storage

People DN attribute: cn

Customized CN: %sn%givenName

People storage subtree: ou=people

Group storage subtree: ou=groups

Include personal title in user DN: No

Relaxed naming policies: Yes

Automatic UIDs: (%sn)-(%givenName[2-4])

GID / UID min id: 100

Number base for people/groups: 1100

Password settings

Password encryption algorithm: crypt/md5

Password restrictions: Password minimum length: 6, Different characters from old password: 5

Use account expiration: Yes

Buttons: Back | Next

Click on **Next** button to continue.

Step 7 : Customization of special parameters

This screen allows you to configure FusionDirectory timezone and snapshots.

- **timezone** : Timezone ... like writed !
- **Snapshot / Undo**
- **Enable snapshots** : FusionDirectory allow you to make snapshot of branch or ldap object before making a dangerous manipulation or just to make a backup.
- **Snapshot base** : You could specify the name of the branch where they will be stored snapshots.
- **Server** : You could specify the same LDAP server or another one.
- **User** : The name of the user that can write in this ldap directory.
- **Password** : Password of the above user.

FusionDirectory settings 2/3

Timezone: Europe/Paris

Snapshots / Undo

Enable snapshots: checked

Snapshot base: ou=snapshots,dc=opensides,

Server: ldap://localhost:389

User: cn=admin,dc=opensides,dc=

Password: *****

Buttons: Back | Next

click on **Next** to continue.

Step 8 : Tweaking of some core behaviour

- **FusionDirectory core settings**

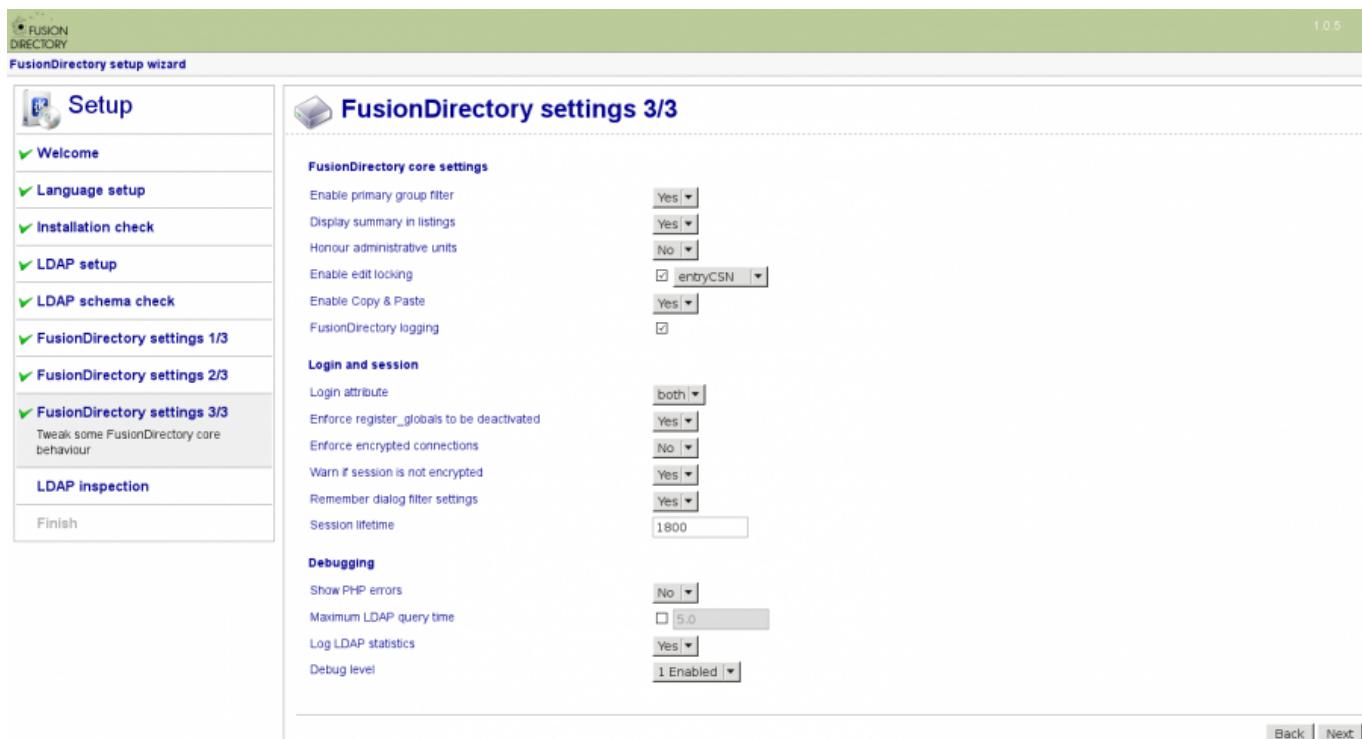
- **Enable primary group filter** : all user have a primary group, it allow you to filter on it
- **Display summary in listings** : It adds at the end of each table, the number of item for each kind of object
- **Honour administrative unit** : this parameter allow you to manage your IT infrastructure by administrative unit. An administrative unit is a pool with user, group, server, printers,... . You can, through ACL, declare an administrator on this unit, which could be different as the IT administrator. It's another method of IT management
- **Enable edit locking** : When someone is using an LDAP object, a flag is set. FusionDirectory could show to other people who want to edit this object a warning messages. This parameter specify the attribute to test in this case.
- **Enable Copy & Paste** : you can copy and paste some LDAP object (for moving a user for example)...
- **FusionDirectory logging** : FusionDirectory could log some actions through the syslog system on host.

- **Login and session**

- **Login attribute** : it could be the mail attribute or the uid attribute or both. It's used for connecting on Fusiondirectory interface
- The following parameters are easy to understand

- **Debugging**

- Those options are interesting in case of development and troubleshooting



click on **next** button to continue.

Step 9 : LDAP data Migration

FusionDirectory have its own schema so some migration is needed as object type.

Show what migration is needed

In this case there is only 2 things to migrate:

- Object Class of root object
- create an FusionDirectory Admin

As part of the migration of an existing infrastructure, a test phase is mandatory.

For each item, just click on **Migrate** button

Migrate root object

LDAP inspection

Add required object classes to the LDAP base

Current

```
dn: dc=opensides,dc=be
objectClass: top
objectClass: dcObject
objectClass: organization
```

After migration

```
dn: dc=opensides,dc=be
objectClass: top
objectClass: dcObject
objectClass: organization
objectClass: gosadepartment
ou: opensides
description: opensides
```

Migrate

Close

This screen show you the change before it's applied.

Create a Fusion Directory Admin

LDAP inspection

Create a new FusionDirectory administrator account

This dialog will automatically add a new super administrator to your LDAP tree.

Name:	System administrator
User ID:	fd-admin
Password:	*****
Password (again):	*****

Apply **Cancel**

Check if Directory is ready

LDAP inspection

During the LDAP inspection, we're going to check for several common pitfalls that may occur when migration to FusionDirectory base LDAP administration. You may want to fix the problems below, in order to provide smooth services.

Checking for root object	Ok
Inspecting object classes in root object	Ok
Checking permission for LDAP database	Ok
Checking for invisible departments	Ok
Checking for invisible users	Ok
Checking for super administrator Users: fd-admin	Ok
Checking for users outside the people tree	Ok
Checking for groups outside the groups tree	Ok
Checking for duplicated UID numbers	Ok
Checking for duplicate GID numbers	Ok
Checking for old style USB devices	Ok
Checking for old services that have to be migrated	Ok
Checking for old style application menus	Ok

You need to have a green check everywhere in order to continue.

Step 10 : get and install the configuration file

Finish - write the configuration file

Create your configuration file

After downloading and placing the file under /etc/fusiondirectory/, please make sure that the user the webserver is running with is able to read fusiondirectory.conf, while other users shouldn't.
Run `fusiondirectory-setup --check-config` to put the correct right on fusiondirectory.conf

Status: The configuration is currently not readable or it does not exists.

The configuration file must be installed in **/etc/fusiondirectory/** directory.

Some specific permissions must be applied :

Debian 'Squeeze'

```
root@fusion-install:~# fusiondirectory-setup --check-config
Checking FusionDirectory's config file
/etc/fusiondirectory/fusiondirectory.conf exists...
/etc/fusiondirectory/fusiondirectory.conf is not set properly, do you want
to fix it ?: [Yes/No]?
```

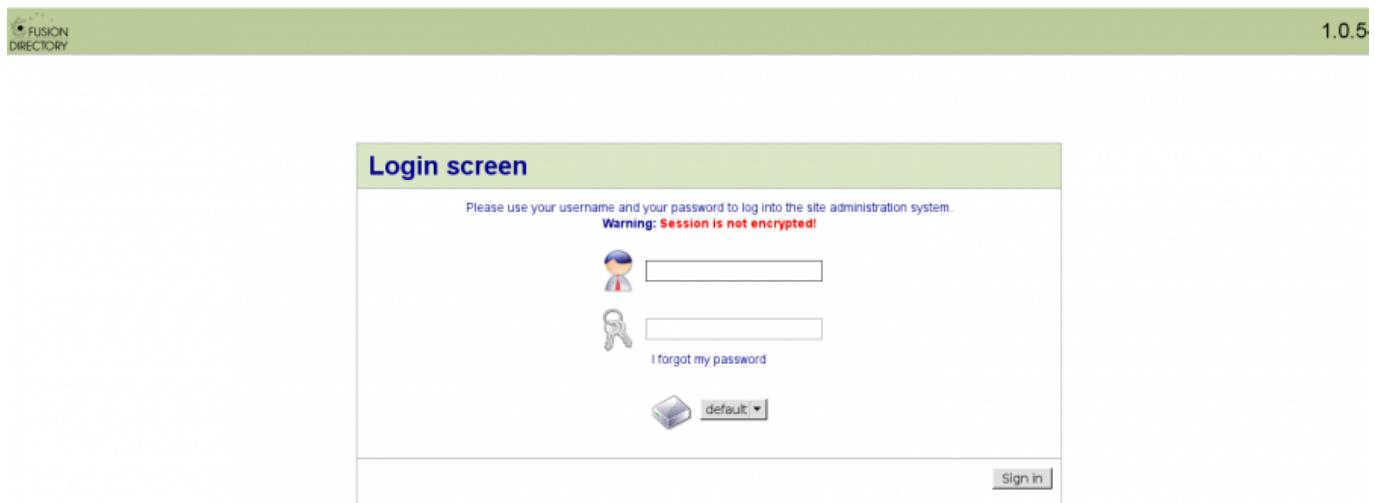
Yes

Ubuntu 'Precise Pangolin (12.04 LTS)', 'Quantal Quetzal (12.10)'

```
root@fusion-install:~$ sudo fusiondirectory-setup --check-config
Checking FusionDirectory's config file
/etc/fusiondirectory/fusiondirectory.conf exists...
/etc/fusiondirectory/fusiondirectory.conf is not set properly, do you want
to fix it ?: [Yes/No]?
Yes
```

Step 11 : Enjoy

Once all settings are applied, you get the following screen :



After making the connection with the login and password set at **Step 9** you'll have the following screen :

More about Configuration

[Configuration of FusionDirectory](#)

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation/core_installation

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Generic FusionDirectory Configurations

All the FD configuration is stored inside the Idap, in *configs* branch.

If you need to modify something, you can access to FD configuration by the '*Configuration*' icon or entry in the '*Addons*' section of the main page of FD GUI:



The screenshot shows the main interface of the FusionDirectory administration tool. At the top, there's a navigation bar with links for 'Main' and 'Sign out'. A message 'Welcome System Administrator!' is displayed. On the right, it says 'Signed in: fd-admin'. The left sidebar has sections for 'Administration' (Departments, Users, Groups, Object groups, Acl), 'Addons' (Configuration, Password recovery config), and 'My account' (Generic, Unix, Password). The 'Configuration' link under 'Addons' is highlighted with a red box. The main content area shows icons for 'Administration' (Departments, Users, Groups, Object groups, Acl), 'Addons' (Configuration, Password recovery config), and 'My account' (Generic, Unix, Password). A copyright notice at the bottom right reads '© 2002-2013 The FusionDirectory team, 1.0.5-dev'.

Access to configuration is read-only. If you need to make changes, then you must press the '*Edit*' button at the bottom right of the window.

The screenshot shows the 'FusionDirectory configuration' interface. The left sidebar contains navigation links for 'Users and groups', 'Systems', 'Configuration', 'Reporting', and 'My account'. The main area has several tabs: 'Configuration' (selected), 'Samba', 'Mail', 'Plugins', 'FAI configuration', 'Password recovery', and 'Systems'. The 'Configuration' tab is divided into several sections:

- Look and feel:** Includes fields for Language (Automatic), Theme (default), and Timezone (America/New_York).
- Password settings:** Includes fields for Password default hash (ssha), Force default hash, Password minimum length, Password minimum differs, Use account expiration, SASL Realm, and SASL Exop.
- Login and session:** Includes fields for Login attribute (uid), Enforce encrypted connections, Warn if session is not encrypted (checked), Session lifetime (1800), and HTTP authentication.
- SSL:** Includes fields for Key path (/etc/ssl/private/fd.key), Certificate path (/etc/ssl/certs/fd.cert), and CA certificate path (/etc/ssl/certs/ca.cert).
- People and group storage:** (editing this can break your LDAP) Includes fields for People DN attribute (uid), CN pattern (%givenName% %sn%), Strict naming policy (checked), Group user min id (100), Next id hook, Base number for user id (1100), Base number for group id (1100), Users RDN (ou=people), Groups RDN (ou=groups), ACL role RDN (ou=acroles), Id allocation method (Traditional), Pool user id min (10000), Pool user id max (40000), Pool group id min (10000), Pool group id max (40000), and Restrict role members.
- Schema setup:** Includes Schema validation and a note: 'http://config.ourfusiondirectory dc=fusiondirectory dc=org Click the 'Edit' button below to change informations in this dialog'.
- Core settings:** Includes Display summary in listings (checked), Edit locking (entryCSN), Enable logging (checked), and LDAP size limit (200).
- Snapshots:** Includes Enable snapshots (checked) and Snapshot base (ou=snapshots,dc=fusiondire).
- CAS:** Includes Enable CAS (unchecked), CA certificate path (/etc/ssl/certs/ca.cert), Host (localhost), Port (443), and CAS context (/cas).
- Debugging:** Includes Display errors (checked), Maximum LDAP query time, Log LDAP statistics (checked), and Debug level (Trace, Add, Delete).
- Miscellaneous:** Includes Hooks (empty), Display hook output (sub: DnsRecordPlugin, mode: postcreate, cmd: Add), Available shells (bin/bash, bin/bash, bin/csh, /bin/sh), Show ACL tab on all objects (unchecked), and Available department categories (empty).

Below you will find an explanation of the different sections.

Look n feel

- Language:** Defines the default language used by FusionDirectory. Normally FusionDirectory autodetects the language from the browser settings. If this is not working or you want to force the language, just modify the language here.
- Theme:** (required) Defines what theme is used to display FusionDirectory pages. You can install some corporate identity like theme and/or modify certain templates to fit your needs within themes.
- Timezone:** (required) Defines the timezone used within FusionDirectory to handle date related tasks, such as password expiration, vacation messages, etc. The timezone value should be a unix conform timezone value like in /etc/timezone.

Schema setup

- **Schema validation:** enables or disables schema checking during login. It is recommended to switch this on in order to let FusionDirectory handle object creation more efficiently.

Password settings

- **Password default hash:** (required) Defines the default password hash to choose for new accounts.
Valid values are crypt/standard-des, crypt/enhanced-des, crypt/md5, crypt/blowfish, crypt/sha-256, crypt/sha-512, smd5, md5, sasl, ssh, sha.
These values will be overridden when using templates.
- **Force default hash:** Enable/Disable force the use of the default password hash.
- **Password minimum length:** Determines the minimum length of a new password entered to be considered valid. Note that this only affect passwords that are set by the user, not by the admins.
- **Password minimum differs:** Determines how many characters that must be different from the previous password. Note that this only affect passwords that are set by the user, not by the admins.
- **Use account expiration:** Enables shadow attribute tests during the login to FusionDirectory and forces password renewal or account locking.
- **SASL Realm:** Defines the way the kerberos realm is stored in the userPassword attribute. Set it to REALM.NET in order to get {sasl}user@REALM.NET.
- **SASL Exop:** Defines the attribute to be stored in the userPasword attribute. Set it to uid in order to get the {sasl}uid of the user.

Core settings

- **Display summary in listings:** Determines whether a status bar will be shown on the bottom of FusionDirectory generated lists, displaying a short summary of type and number of elements in the list.
- **Edit locking:** Enables FusionDirectory to check if a entry currently being edited has been modified from someone else outside FusionDirectory in the meantime. It will display an informative dialog then. It can be set to *entryCSN* for OpenLDAP based systems or *contextCSN* for Sun DS based systems.
- **Enable logging:** Enables event logging on FusionDirectory side. Setting it to true, FusionDirectory will log every action a user performs via syslog. If you use rsyslog and configure it to mysql logging, you can browse all events within FusionDirectory.
- **LDAP size limit:** Tells FusionDirectory to retrieve the specified maximum number of results. The user will get a warning, that not all entries were shown.

Login and session

- **Login attribute:** (required) Defines which LDAP attribute is used in Fusiondirectory as the login name during login. It can be set to uid, mail or both.
- **Enforce encrypted connections:** Enables PHP security checks to force encrypted access ([https](https://)) to the web interface.
- **Warn if session is not encrypted:** Enables PHP security checks to detect non encrypted

access to the web interface. FusionDirectory will display a warning in this case.

- **Session lifetime:** (required) Defines when a session will expire in seconds. For Debian systems, this will not work because the sessions will be removed by a cron job instead. Please modify the value inside of your php.ini instead.
- **HTTP authentication:** Activate HTTP authentication (basic auth).

Snapshots / Undo

- **Enable snapshots:** This enables you to save certain states of entries and restore them later on.
- **Snapshot base:** Defines the base where snapshots should be stored inside of the LDAP.

SSL

- **Key path:** Path of the private key for FusionDirectory on the server.
- **Certificate path:** Path of the certificate for FusionDirectory on the server.
- **CA certificate path:** Path of the CA on the server.

CAS

- **Enable CAS:** Enable CAS activation.
- **CA certificate path:** Path of the CA for the CAS server.
- **Host:** Host of the CAS Server.
- **Port:** Port of the CAS Server.
- **CAS context:** CAS context to be used.

People and group storage

 Pay attention to the changes in this section of the configuration 

- **People DN attribute:** (required) Defines the attribute to use at the beginning of users dn. Possible values are *uid* and *cn*.
In the first case FusionDirectory creates uid style DN entries:

```
uid=superuser,ou=staff,dc=example,dc=net
```

In the second case, FusionDirectory creates cn style DN entries:

```
cn=Foo Bar,ou=staff,dc=example,dc=net
```

If you choose "cn" to be your '*People DN attribute*' you can decide whether to include the personal title in your dn by selecting '*Include personal title in user DN*'.

- **CN pattern:** The pattern to use to build the common name field.
- **Strict naming policy:** Enables strict checking of uids and group names. If you need characters

like . or - inside of your accounts, don't enable this option.

- **GID/UID min id:** Defines the minimum assignable user or group id to avoid security leaks with uid 0 accounts. This is used for the traditional method.
- **Next id hook:** Defines a script to be called for finding the next free id for users or groups externally.
The script will receive concerned dn as first argument, and 'uid' or 'gid' as second argument, it should output a single number to use as uidNumber or gidNumber.
- **Number base for people:** Defines where to start looking for a new free user id.
This should be synced with your adduser.conf to avoid overlapping uidNumber values between local and LDAP based lookups.
The '*Number base for people*' can even be dynamic.
- **Number base for groups:** defines where to start looking for a new free group id.
This should be synced with your adduser.conf to avoid overlapping gidNumber values between local and LDAP based lookups.
The '*Number base for groups*' can even be dynamic.
- **Users RDN:** (required) Defines the location where new accounts will be created inside of defined departments. The default is ou=people.
- **Groups RDN:** (required) Defines the location where new groups will be created inside of defined departments. The default is ou=groups.
- **ACL role RDN:** The branch where ACL roles are stored.
- **Id allocation method:** Method to allocate user/group ids.
- **Pool user id min:** Minimum value for user id when using pool method.
- **Pool user id max:** Maximum value for user id when using pool method.
- **Pool group id min:** Minimum value for group id when using pool method.
- **Pool group id max:** Maximum value for group id when using pool method.
- **Restrict role members:** When enabled only users from the same branch or members of groups from the same branch can be added to a role.

Debugging

- **Display errors:** Defines whether to enable the display of PHP errors in the upper part of the screen. This should be disabled in productive deployments, because there might be some passwords in it.
- **Maximum LDAP query time:** Tells FusionDirectory to stop LDAP actions if there is no answer within the specified number of seconds.
- **Log LDAP statistics:** Tells FusionDirectory to track LDAP timing statistics to the syslog. This may help to find indexing problems or bad search filters.
- **Debug level:** Display certain debug informations on each page load.
Valid values are LDAP, Database, Shell, POST, SESSION, ACL, SI, Mail.
The different values can also be combined with each other.

Miscellaneous

- **Hooks:** Defines hooks that are called when specific actions happens. Look here for more informations about [hooks configuration](#).
- **Display hook output:** Activate to display the hook output.
- **Available shells:** Defines the available POSIX shells for FD users.
- **Show ACL tab on all objects:** For very specific ACL rights setting where you might need to give right on a single object.

- **Available department categories:** Available categories in the departments dropdown.

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation/core_configuration

Last update: **2016/03/14 14:16**



Installation FusionDirectory on Scientific Linux 6

The Fusiondirectory installation needs applications non packaged in the base Scientific Linux distributions. For that it is necessary to use the following package :

```
yum install epel-release
```

Import GPG key

[Getting the official GPG keys to active package signature](#)

Install FusionDirectory repository

[Configure Repository for Scientific Linux 6](#)

Install FusionDirectory and FusionDirectory Schemas

```
yum install -y fusiondirectory  
yum install -y fusiondirectory-schema schema2ldif
```

!\\ If you use SELinux (same in permissive), you must install fusiondirectory-selinux /\\

Insert FusionDirectory Schemas with this command :

```
fusiondirectory-insert-schema
```

Restart apache with this commande :

```
service httpd restart
```

Fusiondirectory is now available here : <http://IP/fusiondirectory/>

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_scientificlinux_6

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Downloading

Getting the official GPG keys to active package signature

Debian Repository

Debian repositories are available here

Wheezy Repository

<http://repos.fusiondirectory.org/debian-wheezy/>

jessie Repository

<http://repos.fusiondirectory.org/debian-jessie/>

This repository contains the oldstable and stable version of FusionDirectory. It also contains the extra packages needed to use FusionDirectory and the Argonaut Framework.

To use the lastest published version for **wheezy** put this in your /etc/apt/sources.list

```
root@fusioninstall:~# vim /etc/apt/sources.list

# fusiondirectory repository
deb http://repos.fusiondirectory.org/debian-wheezy wheezy main

# fusiondirectory debian-extra repository
deb http://repos.fusiondirectory.org/debian-extra wheezy main
```

To use the lastest published version for **jessie** put this in your /etc/apt/sources.list

```
root@fusioninstall:~# vim /etc/apt/sources.list

# fusiondirectory repository
deb http://repos.fusiondirectory.org/debian-jessie jessie main
```

RPM Repository

A repository is available for RHEL / CentOS 6 / Centos7 / Scientific Linux 6 / Scientific Linux7 / SLES 11 SP3

FusionDirectory RPM repository

This repository contains the oldstable and stable version of FusionDirectory. It also contains the extra packages needed to use FusionDirectory and the Argonaut Framework.

To use the lastest published version put this in your yum config :

CentOS 6 / RHEL 6

To use the lastest published version put this

```
[fusiondirectory]
name=Fusiondirectory Packages for RHEL / CentOS 6
baseurl=http://repos.fusiondirectory.org/rhel6/RPMS
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

```
[fusiondirectory-extra]
name=Fusiondirectory Packages for RHEL / CentOS 6
baseurl=http://repos.fusiondirectory.org/rhel6-rpm-extra/RPMS/
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

SRPMS are also available in the following repo :

```
[fusiondirectory-src]
name=Fusiondirectory Packages for RHEL / CentOS 6
baseurl=http://repos.fusiondirectory.org/rhel6/SRPMS
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

Scientific Linux 6

To use the lastest published version put this

```
[fusiondirectory]
name=Fusiondirectory Packages for Scientific Linux 6
baseurl=http://repos.fusiondirectory.org/sl6/RPMS
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

```
[fusiondirectory-extra]
name=Fusiondirectory Packages for Scientific Linux 6
baseurl=http://repos.fusiondirectory.org/rhel6-rpm-extra/RPMS/
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

SRPMS are also available in the following repo :

```
[fusiondirectory-src]
```

```
name=Fusiondirectory Packages for Scientific Linux 6
baseurl=http://repos.fusiondirectory.org/sl6/SRPMS
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

CentOS 7 / RHEL 7

To use the lastest published version put this

```
[fusiondirectory]
name=Fusiondirectory Packages for RHEL / CentOS 7
baseurl=http://repos.fusiondirectory.org/rhel7/RPMS
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

```
[fusiondirectory-extra]
name=Fusiondirectory Packages for RHEL / CentOS 7
baseurl=http://repos.fusiondirectory.org/rhel7-rpm-extra/RPMS/
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

SRPMS are also available in the following repo :

```
[fusiondirectory-src]
name=Fusiondirectory Packages for RHEL / CentOS 7
baseurl=http://repos.fusiondirectory.org/rhel7/SRPMS
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

Scientific Linux 7

To use the lastest published version put this

```
[fusiondirectory]
name=Fusiondirectory Packages for Scientific Linux 7
baseurl=http://repos.fusiondirectory.org/sl7/RPMS
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

```
[fusiondirectory-extra]
name=Fusiondirectory Packages for Scientific Linux 7
baseurl=http://repos.fusiondirectory.org/rhel7-rpm-extra/RPMS/
enabled=1
```

```
gpgcheck=1  
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

SRPMS are also available in the following repo :

```
[fusiondirectory-src]  
name=Fusiondirectory Packages for Scientific Linux 7  
baseurl=http://repos.fusiondirectory.org/sl7/SRPMS  
enabled=1  
gpgcheck=1  
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-FUSIONDIRECTORY
```

Downloading the source

The source download area is here

<http://repos.fusiondirectory.org/sources/>

Source Code

The source code is available on github

The project is fusiondirectory

[Project FusionDirectory on github](#)

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/dl_install



Last update: **2015/12/08 16:42**

Installation FusionDirectory on Scientific Linux 7

The Fusiondirectory installation needs applications non packaged in the base Scientific Linux distributions. For that it is necessary to use the following package :

```
yum install epel-release
```

Import GPG key

Getting the official GPG keys to active package signature

Install FusionDirectory repository

Configure Repository for Scientific Linux 7

Install FusionDirectory and FusionDirectory Schemas

```
yum install -y fusiondirectory  
yum install -y fusiondirectory-schema schema2ldif
```

!\\ If you use SELinux (same in permissive), you must install fusiondirectory-selinux /\\

Insert FusionDirectory Schemas with this command :

```
fusiondirectory-insert-schema
```

Restart apache with this commande :

```
service httpd restart
```

Fusiondirectory is now available here : <http://IP/fusiondirectory/>

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_scientificlinux_7

Last update: **2015/10/26 14:22**



Installation FusionDirectory on RHEL / Centos 6

The Fusiondirectory installation needs applications non packaged in the base RHEL distributions. For that it is necessary to use the following package :

```
yum install epel-release
```

Install openLDAP server software

Prior to installing FusionDirectory you will need to install/Configure openLDAP server

Import GPG key

Getting the official GPG keys to active package signature

Install FusionDirectory repository

Configure Repository for Redhat/Centos 6

Install prerequisite software

Php-pear-MDB2 does not automatically get installed via dependencies through yum. While Fusiondirectory will install without it, it will warn you later that it is an error.

```
yum install php-pear-MDB2
```

Install FusionDirectory and FusionDirectory Schemas

```
yum install -y fusiondirectory
yum install -y fusiondirectory-schema schema2ldif
```

! If you use SELinux (same in permissive), you must install fusiondirectory-selinux !

Insert FusionDirectory Schemas with this command :

```
fusiondirectory-insert-schema
```

Resolve miscellaneous settings/permission errors

These are housekeeping items that will resolve various errors that aren't taken care of in the initial install but are required to continue on.

First step is to run the following, It checks all your directories and fix's some permissions, creates some odds and ends.

```
fusiondirectory-setup --check-directories --update-cache --update-locales
```

By default your Apache permissions will be wrong on the fusiondirectory folders, and will cause you errors.

```
chgrp -R apache /var/cache/fusiondirectory/*
chmod g+rwx /var/cache/fusiondirectory/class.cache
```

Expose_php = on is the default value in /etc/php.ini, but is a security risk. This next step is optional, but you will receive a warning about it later in the web configuration process. There is really no reason **not** to turn it off though

```
sed -i 's/^expose_php = On$/expose_php = Off/g' /etc/php.ini
```

Create a blank fusiondirectory.conf file. RHEL / CentOS installations need a blank file with the correct permissions before it is able to write the correct file later.

```
touch /var/cache/fusiondirectory/template/fusiondirectory.conf
chgrp apache /var/cache/fusiondirectory/template/fusiondirectory.conf
chmod g+rwx /var/cache/fusiondirectory/template/fusiondirectory.conf
```

Restart apache with this command :

```
service httpd restart
```

Fusiondirectory is now available here : <http://IP/fusiondirectory/> , Follow the web configuration process and your server will be ready to go!

Please note your bind account with be:

```
cn=Manager
```

and your password will be whatever you configured as your password in the LDAP installation/configuration steps.

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_redhat_6

Last update: **2016/06/22 15:05**



Installation FusionDirectory on Centos 6

The Fusiondirectory installation needs applications non packaged in the base RHEL distributions. For that it is necessary to use the following package :

```
yum install epel-release  
yum install centos-release-scl
```

Install openLDAP server software

Prior to installing FusionDirectory you will need to install/Configure openLDAP server

Import GPG key

Getting the official GPG keys to active package signature

Install FusionDirectory repository

Configure Repository for Redhat/Centos 6

Install FusionDirectory and FusionDirectory Schemas

```
yum install -y fusiondirectory  
yum install -y fusiondirectory-schema
```

If you use SELinux don't forgot to install fusiondirectory-selinux

```
yum install -y fusiondirectory-selinux
```

Insert FusionDirectory Schemas with this command :

```
fusiondirectory-insert-schema
```

Restart apache with this commande :

```
service httpd restart
```

Fusiondirectory is now available here : <http://IP/fusiondirectory/> , Follow the web configuration process and your server will be ready to go!

Please note your bind account with be:

```
cn=Manager
```

and your password will be whatever you configured as your password in the LDAP installation/configuration steps.

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_centos_6

Last update: **2016/06/22 16:04**



Installation FusionDirectory on Centos 7

The Fusiondirectory installation needs applications non packaged in the base RHEL distributions. For that it is necessary to use the following package :

```
yum install epel-release
```

Import GPG key

[Getting the official GPG keys to active package signature](#)

Install FusionDirectory repository

[Configure Repository for Redhat/Centos 7](#)

Install FusionDirectory and FusionDirectory Schemas

```
yum install -y fusiondirectory  
yum install -y fusiondirectory-schema schema2ldif
```

!\\ If you use SELinux (same in permissive), you must install fusiondirectory-selinux /\\

Insert FusionDirectory Schemas with this command :

```
fusiondirectory-insert-schema -i /etc/openldap/schema/cosine.schema  
fusiondirectory-insert-schema -i /etc/openldap/schema/inetorgperson.schema  
fusiondirectory-insert-schema -i /etc/openldap/schema/nis.schema  
fusiondirectory-insert-schema
```

Restart apache with this commande :

```
service httpd restart
```

Fusiondirectory is now available here : <http://IP/fusiondirectory/>

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_centos_7

Last update: **2016/05/26 11:32**



1. Preparation of Openldap server
2. Install packages that we need for FusionDirectory
3. Apache configuration
4. FusionDirectory installation

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_archlinux

Last update: **2014/10/02 21:39**



- First, we must install openldap on the system.

```
pacman -S openldap
```

- Add other schemas in slapd.conf

```
include /etc/openldap/schema/core.schema
include /etc/openldap/schema/cosine.schema
include /etc/openldap/schema/inetorgperson.schema
include /etc/openldap/schema/nis.schema
```

- Edit suffix, rootdn and rootpw in slapd.conf if you need it.

```
# Example:
suffix      "dc=my-domain,dc=com"
rootdn      "cn=Manager,dc=my-domain,dc=com"
rootpw      secret
```

- Copy the file DB_CONFIG.example

```
cp /etc/openldap/DB_CONFIG.example /var/lib/openldap/openldap-data/DB_CONFIG
```

- Create '/run/openldap/' with the good rights if it not exist

```
mkdir /run/openldap/
chown ldap:ldap /run/openldap/
```

- Install the backend cn=config

```
systemctl enable slapd
systemctl start slapd
systemctl stop slapd
slaptest -f /etc/openldap/slapd.conf -F /etc/openldap/slapd.d/
```

- Set the good rights and rename slapd.conf

```
chmod -R 0750 /etc/openldap/slapd.d && chown -R ldap:ldap
/etc/openldap/slapd.d/
mv /etc/openldap/slapd.conf /etc/openldap/slapd.conf.bak
```

- Enable the systemd service and add the ldapi

```
# Edit to the 'ExecStart' in '/etc/systemd/system/multi-
user.target.wants/slapd.service'
ExecStart=/usr/bin/slapd -u ldap -g ldap -h "ldap:/// ldapi://" -F
/etc/openldap/slapd.d/
systemctl daemon-reload
```

- Add password and modify the restrict ACL

```
# Edit /etc/openldap/slapd.d/cn=config/olcDatabase=\{0\}config.ldif
# Add under olcRootDN (you may use slappasswd for the password)
olcRootPW: %password%
```

```
# Replace olcAccess
olcAccess: {0}to * by
dn.exact=gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth manage by *
break
```

- Create an ldif to remove the checksum error and apply it

```
# file.ldif
dn: olcDatabase={0}config,cn=config
changetype: modify
replace: olcAccess
olcAccess: {0}to * by
dn.exact=gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth manage by *
break
systemctl start slapd
ldapmodify -QY EXTERNAL -D cn=Manager,cn=config -H ldapi:// -W -f file.ldif
```

- Your LDAP is ready for FusionDirectory

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation/openldap_install_archlinux

Last update: **2016/04/07 16:21**



- You must can install AUR package (in this example, I use 'yaourt')

```
# Add this lines in pacman.conf
[archlinuxfr]
SigLevel = Never
Server = http://repo.archlinux.fr/$arch
# After install 'yaourt'
pacman -Syu yaourt
```

- I use here apache 2.2, but you may use apache 2.4 if you will
- Packages with pacman

```
pacman -S perl-path-class perl-ldap perl-mime-base64 perl-crypt-passwdmd5
perl-crypt-cbc perl-file-copy-recursive perl-xml-twig perl-archive-extract
perl-extutils-makemaker
pacman -S php-gd php-pear php-ldap
```

- Packages in AUR

```
yaourt -S php-imagick smarty3 apache22 php-apache22 javascript-common
```

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation/packages_install_archlinux

Last update: **2015/04/18 10:46**



- On this page you will configure apache and php
- Activate the php extensions

```
# Edit /etc/php/php.ini and uncomment these lines
extension=iconv.so
extension=imap.so
extension=ldap.so
extension=gd.so
# Edit /etc/php/conf.d/imagick.ini and uncomment the next line
extension=imagick.so
```

- open_basedir extension for php (in /etc/php/php.ini)

```
# Add FusionDirectory directories
/var/spool/fusiondirectory/
/var/cache/fusiondirectory/
/etc/fusiondirectory/
# And php librairies
/usr/share/php/
```

- Apache

```
# Edit /etc/httpd/conf/httpd.conf
# Add the php7 module
LoadModule php7_module modules/libphp7.so
Include conf/extra/php7_module.conf
# Add javascript-common
Include conf/extra/httpd-javascript-common.conf
# Add fusiondirectory
Include conf/extra/httpd-fusiondirectory.conf
```

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation/apache_install_archlinux

Last update: **2016/04/07 17:49**



- Install FusionDirectory packages of AUR

```
yaourt -S fusiondirectory fusiondirectory-schema
```

- Add the includes line in httpd.conf when it is ask

```
# After the install must you have these lines in httpd.conf
```

```
Include conf/extra/httpd-javascript-common.conf
```

```
Include conf/extra/httpd-fusiondirectory.conf
```

- Start and enable apache server

```
systemctl enable httpd
```

```
systemctl start httpd
```

- Check FusionDirectory directories and insert schemas

```
# Apache default group is normally http
```

```
fusiondirectory-setup --yes --check-directories
```

```
fusiondirectory-insert-schema
```

- Go to the next URL for continue the install

```
http://%IP%/fusiondirectory
```

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation/fusiondirectory_install_archlinux

Last update: **2015/04/18 13:40**



Installation FusionDirectory on SLES

Install FusionDirectory repository

```
zypper ar -f -c -n FusionDirectory-Extra  
http://repos.fusiondirectory.org/sles-extra/RPMS/ FusionDirectory-Extra  
zypper ar -f -c -n FusionDirectory  
http://repos.fusiondirectory.org/sles/RPMS/ FusionDirectory
```

Import GPG key

Getting the official GPG keys to active package signature

Install some application not in official repository

- [php5-imagick \(server php\)](#)
- [Prototype](#)
- [php5-smarty3 \(server php\)](#)
- [Scriptaculous](#)

Install openldap

```
zypper install openldap2 yast2-ldap-server
```

yast2 and configure your ldap server

Install FusionDirectory and FusionDirectory Schemas

```
zypper install fusiondirectory  
zypper install fusiondirectory-schema
```

Insert FusionDirectory schemas

```
fusiondirectory-insert-schema
```

Restart apache with this command

```
service apache2 restart
```

Fusiondirectory is now available here : <http://IP/fusiondirectory/>

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_sles

Last update: **2015/07/31 12:03**



 This doc need a review

FusionDirectory 1.0 Install From Sources

Prerequisite:

You have a system up and running. It has apache and PHP 5.4.0 minimum installed with smarty 3 and there is a blank (or prefilled) LDAP server available.

You have installed the following perl libraries :

- Path::Class
- Net::LDAP
- MIME::Base64
- Crypt::PasswdMD5
- Crypt::CBC
- File::Copy::Recursive
- Archive::Extract
- XML::Twig

You have installed the following runtime deps (without it can provoke graphical bugs) :

- scriptaculous available at <http://script.aculo.us/downloads>
- Prototype available at <http://prototypejs.org/download/>

You have installed the following library:

- Smarty3-i18n available at <http://repos.fusiondirectory.org/sources/1.0/smarty3-i18n/>

The following tool :

- Schema2ldif <http://repos.fusiondirectory.org/sources/1.0/schema2ldif/>

Downloading FusionDirectory

- Get the fusiondirectory tarballs from
<http://download.fusiondirectory.org/sources/1.0/fusiondirectory>

```
      wget
http://repos.fusiondirectory.org/sources/1.0/fusiondirectory/fusiondirectory-1.0.x.tar.gz
      wget
http://repos.fusiondirectory.org/sources/1.0/fusiondirectory/fusiondirectory-plugins-1.0.x.tar.gz
```

X here being the latest version available

- Get the checksums file to be sure that the file where not corrupted

```
wget
http://repos.fusiondirectory.org/sources/1.0/fusiondirectory/CHECKSUM.MD5
```

- Compare the md5sum from fusiondirectory-1.0.x.tar.gz and fusiondirectory-plugins-1.0.x.tar.gz to the md5sum in CHECKSUM.MD5

```
cat CHECKSUM.MD5

md5sum fusiondirectory-1.0.x.tar.gz

md5sum fusiondirectory-plugins-1.0.x.tar.gz
```

Installing FusionDirectory Core

- Unpack the FusionDirectory tarball and move the main fusiondirectory directory to a place your webserver is configured to find it. On most of the case this will be /var/www/fusiondirectory. Our fusiondirectory-setup script use /var/www/fusiondirectory like default path.
For example, if you need to change the global path of FusionDirectory installation you can modify the variable 'fd_home':

```
fusiondirectory-setup --set-fd_home="/usr/share/fusiondirectory" --write-vars
```

will change the path of your FusionDirectory installation.

Please note that -write-vars combined with -set-<variable_name>=<your data> will write your changes to the variables.inc file, so it's mandatory to use them together.

- Move the content of contrib/bin directory in /usr/local/bin

```
chmod 750 /var/www/fusiondirectory/contrib/bin/*
mv /var/www/fusiondirectory/contrib/bin/* /usr/local/bin/
```

- Create if needed the man5 and man1 directories in /usr/local/man

```
mkdir /usr/local/man/man1
mkdir /usr/local/man/man5
```

- Compress the manpages

```
gzip /var/www/fusiondirectory/contrib/man/fusiondirectory.conf.5
gzip /var/www/fusiondirectory/contrib/man/fusiondirectory-setup.1
gzip /var/www/fusiondirectory/contrib/man/fusiondirectory-insert-schema.1
```

- Move the man pages to the right place

```
mv /var/www/fusiondirectory/contrib/man/fusiondirectory-setup.1.gz
```

```
/usr/local/man/man1
  mv /var/www/fusiondirectory/contrib/man/fusiondirectory-insert-
schema.1.gz /usr/local/man/man1/
  mv /var/www/fusiondirectory/contrib/man/fusiondirectory.conf.5.gz
/usr/local/man/man5
```

- Create the symbolic links for the fusiondirectory smarty functions
Check that your smarty dir is in /usr/share/php/smarty or adapt the path accordingly

```
mv
/var/www/fusiondirectory/contrib/smarty/plugins/function.msgPool.php
/usr/share/php/smarty/plugins/function.msgPool.php
mv
/var/www/fusiondirectory/contrib/smarty/plugins/function.filePath.php
/usr/share/php/smarty/plugins/function.filePath.php
```

Note : */usr/share/php/smarty/plugins* might be */usr/share/php/smarty3/plugins* on your system

- Remove the library for accessing databases if you don't need access to the plugins needing it

```
rm -f /var/www/fusiondirectory/include/class_databaseManagement.inc
```

- Create the directory to store your fusiondirectory schemas

```
mkdir <your-ldap-schema-directory>/fusiondirectory
```

- Move the needed schema from contrib to your ldap server schema directory

```
mv /var/www/fusiondirectory/contrib/openldap/*.schema <your-ldap-
schema-directory>/fusiondirectory
```

- Add the required schema

```
fusiondirectory-insert-schema
```

- check what schema are installed

```
fusiondirectory-insert-schema -l
core
cosine
nis
inetorgperson
samba
core-fd
core-fd-conf
ldapns
recovery-fd
```

Those are the core basic schema needed

- Run the fusiondirectory-setup

```
fusiondirectory-setup --check-directories --update-cache --update-locales
```

Please note that if you changed the path of your FusionDirectory installation you will need to type the following commands:

```
fusiondirectory-setup --set-fd_home=<your path> --check-directories --update-cache --update-locales
```

- Copy the file fusiondirectory.conf to /var/cache/fusiondirectory/template

```
mv /var/www/fusiondirectory/contrib/fusiondirectory.conf  
/var/cache/fusiondirectory/template/
```

Installing FusionDirectory Plugins

- Run the fusiondirectory-setup

```
fusiondirectory-setup --install-plugins --check-directories --update-locales --update-cache
```

Please note that if you changed the path of your FusionDirectory installation you will need to type the following commands:

```
fusiondirectory-setup --set-fd_home=<your path> --write-vars --install-plugins --check-directories --update-locales --update-cache
```

- Copy the two file from argonaut/include into the global FusionDirectory include directory

```
cp argonaut/include/class_supportDaemon.inc  
/var/www/fusiondirectory/include  
cp argonaut/include/jsonRPCClient.php  
/var/www/fusiondirectory/include
```

- Remove the asterisk, fax, rsyslog plugins if you removed the database management library when installing the core

```
rm -Rf /var/www/fusiondirectory/plugins/personal/faxaccount/  
rm -Rf /var/www/fusiondirectory/plugins/admin/blocklists/  
rm -Rf /var/www/fusiondirectory/plugins/addons/faxreports/  
rm -Rf /var/www/fusiondirectory/plugins/personal/phoneaccount/  
rm -Rf /var/www/fusiondirectory/plugins/addons/fonreports/
```

```
rm -Rf /var/www/fusiondirectory/plugins/admin/conference/
rm -Rf /var/www/fusiondirectory/plugins/admin/macro/
rm -Rf /var/www/fusiondirectory/plugins/addons/rsyslog/
fusiondirectory-setup --update-locales --update-cache
```

Please note that if you changed the path of your FusionDirectory installation you will need to type the following commands:

```
fusiondirectory-setup --set-fd_home=<your path> --update-locales --
update-cache
```

- Install the schema for the ldap configuration backend of all the plugins

```
fusiondirectory-insert-schema -i
/var/www/fusiondirectory/contrib/openldap/*fd-conf.schema
```

- Install the schema(s) for the each plugin you have installed

```
fusiondirectory-insert-schema -i
/var/www/fusiondirectory/contrib/openldap/<plugin>.schema
```

- Copy the file from contrib/apache to the apache site configuration dir:

```
mv /var/www/fusiondirectory/contrib/apache/fusiondirectory-
apache.conf <your-apache-configuration-directory>
```

- Reload your apache web server
- http[s]://your-server/fusiondirectory

FusionDirectory setup will perform some basic system checks about general prerequisites. The setup asks some questions and provides a basic fusiondirectory.conf to save in /etc/fusiondirectory.

Follow the instructions until you're able to log in.

You're done. Let's play with the GUI.

For the installation via the web interface see [here](#)

Further information

To improve this piece of software, please report all kind of errors using the bug tracker on <https://forge.fusiondirectory.org>

Website: <http://www.fusiondirectory.org/>

Documentation: <http://documentation.fusiondirectory.org/>

Mailinglist: <http://lists.fusiondirectory.org/>

Irc channel: #fusiondirectory on freenode

Have fun!

The FusionDirectory project contact@fusiondirectory.org

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_from_source

Last update: **2016/05/02 14:15**



SELinux

By default, on RHEL Distributions, Fusiondirectory have a risk of not functioning correctly due to the activation of SELinux.

To allow Fusiondirectory to run, there are two possibilities :

- turn off SELinux
- Install the RPM package fusiondirectory-selinux : yum install fusiondirectory-selinux

Once this package installed, it's recommended to refresh the cache and the locales who cannot be updated due to the default SELinux policy.

For Fusiondirectory >= 1.0.2

```
# fusiondirectory-setup --update-cache --update-locales
```

In any case it is necessary to restart the apache server after the update :

```
# /etc/init.d/apache restart
```

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_selinux

Last update: **2014/09/07 19:12**



Migrate FusionDirectory from 1.0.1 to 1.0.2

Remove fusiondirectory-plugin-opsi

Before migration from FusionDirectory 1.0.1 to 1.0.2 is important to remove the fusiondirectory-plugin-opsi and fusiondirectory-plugin-log to avoid errors:

Debian

```
root@fusion-install:~# apt-get remove fusiondirectory-plugin-opsi
root@fusion-install:~# apt-get remove fusiondirectory-plugin-log
```

RHEL / Fedora

Not Applicable

Upgrade fusiondirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

Debian

```
root@fusion-install:~# apt-get update
root@fusion-install:~# apt-get install fusiondirectory
root@fusion-install:~# apt-get upgrade
```

RHEL / Fedora

```
# yum makecache
# yum upgrade fusiondirectory*
```

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.2

Last update: 2014/06/27 21:16



Migrate FusionDirectory from 1.0.2 to 1.0.3

Remove fusiondirectory-plugin-goto

Before migration from FusionDirectory 1.0.2 to 1.0.3 is important to remove the fusiondirectory-plugin-goto, fusiondirectory-plugin-mit-krb5 and fusiondirectory-plugin-phpgw to avoid errors:

Debian

```
root@fusion-install:~# apt-get remove fusiondirectory-plugin-goto
root@fusion-install:~# apt-get remove fusiondirectory-plugin-mit-krb5
root@fusion-install:~# apt-get remove fusiondirectory-plugin-phpgw
```

RHEL / Fedora

Not Applicable

Upgrade fusiondirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

Debian

```
root@fusion-install:~# apt-get update
root@fusion-install:~# apt-get install fusiondirectory
root@fusion-install:~# apt-get upgrade
```

RHEL / Fedora

```
# yum makecache
# yum upgrade fusiondirectory*
```

Run setup

Starting with version 1.0.3, the addition of a plugin is handled automatically by fusiondirectory. To activate this you have to re-run the setup from the web interface.

```
root@fusion-install:~# mv /etc/fusiondirectory/fusiondirectory.conf
/etc/fusiondirectory/fusiondirectory.conf.back
```

Then from web interface type :

http://your_server/fusiondirectory/setup.php

and fill the required information.

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.3

Last update: **2014/06/27 21:16**



Migrate FusionDirectory from 1.0.3 to 1.0.4

Upgrade fusiondirectory first

Upgrade FusionDirectory core package and fusiondirectory-plugin-systems (if it's installed) before other ones to avoid dependencies errors:

Debian

```
root@fusion-install:~# apt-get update
root@fusion-install:~# apt-get install fusiondirectory
root@fusion-install:~# apt-get install fusiondirectory-plugin-systems
root@fusion-install:~# apt-get upgrade
```

Main page is changed

Starting with version 1.0.4, the main page of FusionDirectory interface is changed. From now, the main menu will be displayed in the following order:

- Administration
- Addons
- My Account

To adapt to change, you have 2 ways :

- Re-run setup
- Change data manually in fusiondirectory.conf

Re-run setup

Before you re-run the setup from the web interface, you must do this :

```
root@fusion-install:~# mv /etc/fusiondirectory/fusiondirectory.conf
/etc/fusiondirectory/fusiondirectory.conf.back
```

Then from web interface type :

http://your_server/fusiondirectory/setup.php

and fill the required information.

Change data manually in fusiondirectory.conf

In fusiondirectory.conf file, in the menu part, you must place sections in this order :

- section name="Administration"
- section name="Addons"
- section name="My account"

Upgrade of LDAP directory

You have to update your LDAP schema, FusionDirectory provide you dedicated LDIF file for updating your LDAP tree. If you are still using .schema files a restart of your ldap server should be sufficient.

The files to apply to your OpenLDAP server, there are stored in
 "/etc/ldap/schema/fusiondirectory/update-from-1.0.3"

```
root@fusion-install:~# ls -l /etc/ldap/schema/fusiondirectory/update-
from-1.0.3/*
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/remove-trust.ldif
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-argonaut.ldif
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-fdQuota.ldif
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-goserver.ldif
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-goto.ldif
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-recovery.ldif
```

Remove trust schema

If in a previous version of FusionDirectory you have installed **trust** schema, you need to remove it. For this you can use remove-trust.ldif.

Because we can not predict the order of schema insertion in your ldap directory, you need to modify the provided remove-trust.ldif.

1. Identify the number of insertion of the trust schema in your ldap directory :

```
root@fusion-install:~# ldapsearch -Y EXTERNAL -H ldapi:/// -LLL -b
cn=schema,cn=config | grep "dn: cn={"
...
dn: cn={29}trust,cn=schema,cn=config
...
```

2. edit the remove-trust.ldif file :

```
root@fusion-install:~# nano /etc/ldap/schema/fusiondirectory/update-
from-1.0.3/remove-trust.ldif

dn: cn=trust,cn=schema,cn=config
...
```

and add the find number {29} at the first line, like this :

```
dn: cn={29}trust,cn=schema,cn=config
```

...

3. Run the fusiondirectory-insert-schema command :

```
root@fusion-install:~# fusiondirectory-insert-schema -i
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/remove-trust.ldif

SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
executing 'ldapadd -Y EXTERNAL -H ldapi:/// -f
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/remove-
trust.ldif'SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
modifying entry "cn={29}trust,cn=schema,cn=config"
```

Update needed fusiondirectory schema

The following needed schema :

- goserver
- goto
- recovery

must be upgraded.

Because we can not predict the order of schema insertion in your ldap directory, you need to modify the provided update-goserver.ldif, update-goto.ldif, update-recovery.ldif.

For exemple, for goserver schema :

1. Identify the number of insertion of the goserver schema in your ldap directory :

```
root@fusion-install:~# ldapsearch -Y EXTERNAL -H ldapi:/// -LLL -b
cn=schema,cn=config | grep "dn: cn={"

...
dn: cn={9}goserver,cn=schema,cn=config
...
```

2. edit the update-goserver.ldif file :

```
root@fusion-install:~# nano /etc/ldap/schema/fusiondirectory/update-
from-1.0.3/update-goserver.ldif

dn: cn=goserver,cn=schema,cn=config
...
```

and add the find number {9} at the first line, like this :

```
dn: cn={9}goserver,cn=schema,cn=config
```

```
...
```

3. Run the fusiondirectory-insert-schema command :

```
root@fusion-install:~# fusiondirectory-insert-schema -i
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-goserver.ldif

SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
executing 'ldapadd -Y EXTERNAL -H ldapi:/// -f
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-
goserver.ldif' SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
modifying entry "cn={9}goserver,cn=schema,cn=config"
```

You must do the same for goto et recovery also.

Upgrade argonaut schema

If you've installed **argonaut** plugin, you must upgrade his schema.

Because we can not predict the order of schema insertion in your ldap directory, you need to modify the provided update-argonaut.ldif.

1. Identify the number of insertion of the argonaut schema in your ldap directory :

```
root@fusion-install:~# ldapsearch -Y EXTERNAL -H ldapi:/// -LLL -b
cn=schema,cn=config | grep "dn: cn={"
```

```
...
```

```
dn: cn={14}argonaut,cn=schema,cn=config
```

```
...
```

2. edit the update-argonaut.ldif file :

```
root@fusion-install:~# nano /etc/ldap/schema/fusiondirectory/update-
from-1.0.3/update-argonaut.ldif

dn: cn=argonaut,cn=schema,cn=config
...
```

and add the find number {14} at the first line, like this :

```
dn: cn={14}argonaut,cn=schema,cn=config
...
```

3. Run the fusiondirectory-insert-schema command :

```
root@fusion-install:~# fusiondirectory-insert-schema -i
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-argonaut.ldif

SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
executing 'ldapadd -Y EXTERNAL -H ldapi:/// -f
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-
argonaut.ldif'SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
modifying entry "cn={14}argonaut,cn=schema,cn=config"
```

Upgrade fdQuota schema

If you've installed **quota** plugin, you must upgrade fdQuota schema.

Because we can not predict the order of schema insertion in your ldap directory, you need to modify the provided update-fdQuota.ldif.

1. Identify the number of insertion of the fdQuota schema in your ldap directory :

```
root@fusion-install:~# ldapsearch -Y EXTERNAL -H ldapi:/// -LLL -b
cn=schema,cn=config | grep "dn: cn={"

...
dn: cn={25}fdQuota,cn=schema,cn=config
...
```

2. edit the update-fdQuota.ldif file :

```
root@fusion-install:~# nano /etc/ldap/schema/fusiondirectory/update-
from-1.0.3/update-fdQuota.ldif

dn: cn=fdQuota,cn=schema,cn=config
...
```

and add the find number {25} at the first line, like this :

```
dn: cn={25}fdQuota,cn=schema,cn=config
...
```

3. Run the fusiondirectory-insert-schema command :

```
root@fusion-install:~# fusiondirectory-insert-schema -i
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-fdQuota.ldif
```

```
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
executing 'ldapadd -Y EXTERNAL -H ldapi:/// -f
/etc/ldap/schema/fusiondirectory/update-from-1.0.3/update-
fdQuota.ldif' SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
modifying entry "cn={25}fdQuota,cn=schema,cn=config"
```

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.4

Last update: **2014/06/27 21:16**



Migrate FusionDirectory from 1.0.4 to 1.0.5

Clean FusionDirectory schema directory

Debian

```
# rm /etc/ldap/schema/fusiondirectory/*.ldif
```

Upgrade of LDAP directory

Install schema packages

Upgrade new schema core first:

Debian

```
# apt-get update  
# apt-get install fusiondirectory-schema
```

Then, depending of your installation, install new schema packages for your installed plugins.

For example, if you have Systems, Dhcp and Dns plugin installed, you need to:

Debian

```
# apt-get install fusiondirectory-plugin-systems-schema  
# apt-get install fusiondirectory-plugin-dhcp-schema  
# apt-get install fusiondirectory-plugin-dns-schema
```

See the [list](#) to know which schemas are needed for the plugins.

Remove old schema from your Ldap Directory

Your installed schema are in /etc/ldap/slapd.d/cn\=config/cn\=schema directory. For the above example, installed schema will be the following:

Debian

```
# ldapsearch -Y EXTERNAL -H ldapi:/// -LLL -b cn=schema,cn=config | grep
```

```
"dn: cn={"
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
dn: cn={0}core,cn=schema,cn=config
dn: cn={1}cosine,cn=schema,cn=config
dn: cn={2}nis,cn=schema,cn=config
dn: cn={3}inetorgperson,cn=schema,cn=config
dn: cn={4}samba,cn=schema,cn=config
dn: cn={5}gosystem,cn=schema,cn=config
dn: cn={6}gofon,cn=schema,cn=config
dn: cn={7}gifax,cn=schema,cn=config
dn: cn={8}goto,cn=schema,cn=config
dn: cn={9}goserver,cn=schema,cn=config
dn: cn={10}goto-mime,cn=schema,cn=config
dn: cn={11}gosa-samba3,cn=schema,cn=config
dn: cn={12}ldapns,cn=schema,cn=config
dn: cn={13}recovery,cn=schema,cn=config
dn: cn={14}dhcp,cn=schema,cn=config
dn: cn={15}dnszone,cn=schema,cn=config
```

Schema's from 'cn={0}...' to 'cn={3}' doesn't change, so you can leave it.

Now you need to remove all others before install the new one's. You can start to remove before plugin schemas. Doing this is simple, just delete its relative file in the folder '**/etc/ldap/slapd.d/cn=config/cn=schema**' and restart slapd. A word of advice, remove schemas starting from the last. For the above example:

Debian

```
# cd /etc/ldap/slapd.d/cn=config/cn=schema
# rm cn=\{15\}dnszone.ldif
# rm cn=\{14\}dhcp.ldif
# /etc/init.d/slapd stop
# /etc/init.d/slapd start
```

If everything goes right, you can remove core schemas:

Debian

```
# rm cn=\{13\}recovery.ldif
# rm cn=\{12\}ldapns.ldif
# rm cn=\{11\}gosa-samba3.ldif
# rm cn=\{10\}goto-mime.ldif
# rm cn=\{9\}goserver.ldif
# rm cn=\{8\}goto.ldif
# rm cn=\{7\}gifax.ldif
```

```
# rm cn\=\{6\}gofon.ldif
# rm cn\=\{5\}gosystem.ldif
# rm cn\=\{4\}samba.ldif
# /etc/init.d/slapd stop
# /etc/init.d/slapd start
```

Insert new schemas inside your Ldap Directory

First of all insert the new core schemas:

Debian

```
# fusiondirectory-insert-schema
```

Then you can proceed for all the plugins schemas (here you can find a [list of available plugins with old and new relative schemas](#)), for the above example:

Debian

```
# fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/service-
fd.schema
# fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/systems-
fd-conf.schema
# fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/mime-
fd.schema
# fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/systems-
fd.schema
# fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/dhcp-
fd.schema
# fusiondirectory-insert-schema -i
/etc/ldap/schema/fusiondirectory/dnszone.schema
```

Upgrade fusiondirectory first

Upgrade FusionDirectory core package and fusiondirectory-plugin-systems (if it's installed) before other ones to avoid dependencies errors:

Debian

```
# apt-get install fusiondirectory
# apt-get install fusiondirectory-plugin-systems
# apt-get upgrade
```

Configuration file is changed

Starting with version 1.0.5, the configuration of FusionDirectory is stored inside the ldap, in 'configs' branch.

To adapt to this change, you need to Re-run setup.

Re-run setup

Before you re-run the setup from the web interface, you must move your old configuration file, doing this :

```
root@fusion-install:~# mv /etc/fusiondirectory/fusiondirectory.conf  
/etc/fusiondirectory/fusiondirectory.conf.back
```

Then, in your web browser, you can type :

http://your_server/fusiondirectory/setup.php

and fill the required informations (look here to see more about [parameters of configuration](#)).

Possible problems and related solutions

Below you will find some migration issues, grouped by plugin, with their solutions.

FAI plugin

Before save modifications in a Server, look (inside your ldap directory) if there is an objectClass FAI like this one, associated at this Server:

```
objectClass: FAIobject
```

if you don't find any other FAI attribute for this Server, you need to remove the above mentioned objectClass, in order to avoid automatic generation of FAI attributes in related entry. This happens because 'objectClass: FAIobject' means that FAI tab for the related server is activated.

Mail plugin

unrecognized objectClass 'goMailServer'

If you get an error like this :

```
LDAP operation failed!
```

```
Object: cn=mailserver.opensides.be,ou=servers,ou=systems,dc=opensides,dc=be

Error: Object class violation (unrecognized objectClass 'goMailServer',
while operating on
'cn=mailserver.opensides.be,ou=servers,ou=systems,dc=opensides,dc=be' using
LDAP server 'ldap://localhost:389')
```

this means that in your related ldap entry you have an objectClass like this :

```
objectClass: goMailServer
```

you need to modify this one to :

```
objectClass: fdPostfixServer
```

Undefined attribute type - attribute: flag_enable_debug

If you get an error like this :

```
LDAP operation failed!
```

```
Object: cn=mailserver.opensides.be,ou=servers,ou=systems,dc=opensides,dc=be

Error: Undefined attribute type - attribute: flag_enable_debug
(flag_enable_debug: AttributeDescription contains inappropriate characters,
while operating on
'cn=mailserver.opensides.be,ou=servers,ou=systems,dc=opensides,dc=be' using
LDAP server 'ldap://localhost:389')
```

this means that in your related ldap entry you have an attribute like this :

```
avFlags: DS
```

you need to remove this attribute.

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.5

Last update: **2014/06/27 21:16**



Migrate FusionDirectory from 1.0.6 to 1.0.7

Upgrade fusiondirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

Debian

Add new debian-extra repo to you source list

```
deb http://repos.fusiondirectory.org/debian-extra wheezy main
```

```
root@fusion-install:~# apt-get update
root@fusion-install:~# apt-get install fusiondirectory
root@fusion-install:~# apt-get upgrade
```

Upgrade of LDAP directory

You have to update your LDAP schemas, first update the FusionDirectory core schemas. We have put a new option in fusiondirectory-insert-schema that allow you to update easily your schema without the use of ldif files.

The following schemas needs an update :

- core-fd-conf.schema
- mail-fd.schema
- service-fd.schema
- systems-fd-conf.schema
- systems-fd.schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

You must do the same procedure for all other schema needing an update

From:
<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.7

Last update: 2014/06/27 21:16



Migrate FusionDirectory from 1.0.7 or 1.0.7.1 to 1.0.7.2

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

Upgrade of LDAP directory

You have to update your LDAP schemas, first update the FusionDirectory core schemas. We have put a new option in fusiondirectory-insert-schema that allow you to update easily your schema without the use of ldif files.

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.7.2

Last update: **2014/06/27 21:16**



Migrate FusionDirectory from 1.0.7.2 to 1.0.7.3

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

Upgrade of LDAP directory

You have to update your LDAP schemas, first update the FusionDirectory core schemas. We have put a new option in `fusiondirectory-insert-schema` that allow you to update easily your schema without the use of ldif files.

In this version only the schema from the argonaut plugin needs to be update if you have the systems or argonaut plugins installed

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/argonaut-fd.schema
```

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.7.3

Last update: **2014/06/27 21:16**



Migrate FusionDirectory from 1.0.7.3 to 1.0.7.4

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.7.4

Last update: **2014/06/27 21:16**



Migrate FusionDirectory from 1.0.7.4 to 1.0.7.5

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors.

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.7.5

Last update: **2014/08/18 10:21**



Migrate FusionDirectory from 1.0.7.4 to 1.0.8

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Remove the deprecated plugins

The rolemanagement plugin has been integrated to the core so it must be removed.

```
apt-get --purge remove fusiondirectory-plugin-rolemanagement
```

The board plugin has been renamed so it must be replaced

```
apt-get --purge remove fusiondirectory-plugin-board
```

```
apt-get install fusiondirectory-plugin-dashboard
```

Upgrade of LDAP directory

You have to update your LDAP schemas, first update the FusionDirectory core schemas.

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

After that you have to update the schema for the plugins you are using. In this version the following schema have to be updated

- argonaut-fd-schema
- ipmi-fd.schema
- repository-fd.schema

Migration of the FusionDirectory acls

FusionDirectory acl management has been changed from 1.0.7 to 1.0.8, so they need to be migrated.

We added a command to fusiondirectory-setup for that.

```
fusiondirectory-setup --migrate-acls
```

⚠ This is tricky, don't forget to write down your acl first in case it doesn't work ⚠

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8

Last update: **2014/12/25 14:07**



Migrate FusionDirectory from 1.0.8.1 to 1.0.8.2

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Check for deprecated attributes and objectClasses in your LDAP

since FusionDirectory 1.0.8.1 two new options are in fusiondirectory-setup

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gosaUnitTag          (Takes a list of relevant mime-type|priority
settings)           - 1.3.6.1.4.1.10098.1.1.12.33
  gosaSnapshotType    (Takes either undo or snapshot)
- 1.3.6.1.4.1.10098.1.1.12.36
  fdHonourUnitTags   (FusionDirectory - Honour unit tags)
- 1.3.6.1.4.1.38414.8.14.3
Deprecated objectClasses:
  gosaAdministrativeUnitTag  (Marker for objects below administrational
units (v2.6.1))       - 1.3.6.1.4.1.10098.1.2.1.19.16
  gosaAdministrativeUnit  (Marker for administrational units (v2.6.1))
- 1.3.6.1.4.1.10098.1.2.1.19.15
```

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

fusiondirectory-setup -check-deprecated will output an ldif file on the console that you can use with ldapmodify to clean you ldap server from old attributes and objectClasses

Please read it carefully before applying ! !

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8.2

Last update: **2014/12/25 11:49**



Migrate FusionDirectory from 1.0.8.2 to 1.0.8.3

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

You have to update your LDAP schemas, first update the FusionDirectory core schemas.

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

Check for deprecated attributes and objectClasses in your LDAP

since FusionDirectory 1.0.8.1 two new options are in fusiondirectory-setup

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gosaUnitTag          (Takes a list of relevant mime-type|priority
  settings)           - 1.3.6.1.4.1.10098.1.1.12.33
  gosaSnapshotType     (Takes either undo or snapshot)
  - 1.3.6.1.4.1.10098.1.1.12.36
  fdHonourUnitTags    (FusionDirectory - Honour unit tags)
  - 1.3.6.1.4.1.38414.8.14.3
Deprecated objectClasses:
  gosaAdministrativeUnitTag   (Marker for objects below administrational
  units (v2.6.1))           - 1.3.6.1.4.1.10098.1.2.1.19.16
  gosaAdministrativeUnit     (Marker for administrational units (v2.6.1))
  - 1.3.6.1.4.1.10098.1.2.1.19.15
```

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

fusiondirectory-setup -check-deprecated will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes and objectClasses

Please read it carefully before applying  

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8.3

Last update: **2014/12/25 11:48**



Migrate FusionDirectory from 1.0.8.3 to 1.0.8.4

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Check for deprecated attributes and objectClasses in your LDAP

since FusionDirectory 1.0.8.1 two new options are in fusiondirectory-setup

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gosaUnitTag          (Takes a list of relevant mime-type|priority
settings)           - 1.3.6.1.4.1.10098.1.1.12.33
  gosaSnapshotType    (Takes either undo or snapshot)
- 1.3.6.1.4.1.10098.1.1.12.36
  fdHonourUnitTags   (FusionDirectory - Honour unit tags)
- 1.3.6.1.4.1.38414.8.14.3
Deprecated objectClasses:
  gosaAdministrativeUnitTag  (Marker for objects below administrational
units (v2.6.1))      - 1.3.6.1.4.1.10098.1.2.1.19.16
  gosaAdministrativeUnit  (Marker for administrational units (v2.6.1))
- 1.3.6.1.4.1.10098.1.2.1.19.15
```

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

fusiondirectory-setup -check-deprecated will output an ldif file on the console that you can use with ldapmodify to clean you ldap server from old attributes and objectClasses

Please read it carefully before applying ! !

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8.4

Last update: **2014/12/25 16:08**



Migrate FusionDirectory from 1.0.8.4 to 1.0.8.5

Remove the deprecated plugins

The dashboard plugin has been integrated to the core so it must be removed.

```
apt-get --purge remove fusiondirectory-plugin-dashboard
```

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

You have to update your LDAP schemas, first remove the dashboard configuration schema.

```
fusiondirectory-insert-schema -e dashboard-fd-conf  
Are you sure you want to empty schema(s) dashboard-fd-conf? [Yes/No]? Yes
```

Then update the core-fd-conf schema.

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

If you are using the debconf plugin update his schema

```
fusiondirectory-insert-schema -m  
/etc/ldap/schema/fusiondirectory/debconf.schema
```

If you are using the fai plugin update his schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/fai.schema
```

If you are using the mail plugin update his schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/mail-fd.schema
```

Check for deprecated attributes and objectClasses in your LDAP

since FusionDirectory 1.0.8.1 two new options are in fusiondirectory-setup

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gosaUnitTag          (Takes a list of relevant mime-type|priority
settings)           - 1.3.6.1.4.1.10098.1.1.12.33
  gosaSnapshotType     (Takes either undo or snapshot)
- 1.3.6.1.4.1.10098.1.1.12.36
  fdHonourUnitTags    (FusionDirectory - Honour unit tags)
- 1.3.6.1.4.1.38414.8.14.3
Deprecated objectClasses:
  gosaAdministrativeUnitTag   (Marker for objects below administrational
units (v2.6.1))       - 1.3.6.1.4.1.10098.1.2.1.19.16
  gosaAdministrativeUnit     (Marker for administrational units (v2.6.1))
- 1.3.6.1.4.1.10098.1.2.1.19.15
```

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

fusiondirectory-setup -check-deprecated will output a list of dns using old attributes and objectClasses

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with ldapmodify to clean you ldap server from old attributes and objectClasses

Please read it carefully before applying ! !

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8.5

Last update: 2015/10/07 09:48



Migrate FusionDirectory from 1.0.8.5 to 1.0.8.6

Removal of the mixed posixAccount / groupOfNames aka rfc2307bis

⚠ This was done to be more respectful of standard and not change the core openldap schema, but it seems to be causing trouble on some install, so if you use it **don't upgrade to 1.0.8.6 and wait for 1.0.8.7** ⚠

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

From:

<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8.6

Last update: **2015/05/31 17:14**



Migrate FusionDirectory from 1.0.8.6 to 1.0.8.7

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

You have to update your LDAP schemas, first remove the dashboard configuration schema.

```
fusiondirectory-insert-schema -e dashboard-fd-conf
Are you sure you want to empty schema(s) dashboard-fd-conf? [Yes/No]? Yes
```

Then update the core-fd-conf schema.

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

Check for deprecated attributes and objectClasses in your LDAP

since FusionDirectory 1.0.8.1 two new options are in fusiondirectory-setup

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gosaUnitTag          (Takes a list of relevant mime-type|priority
  settings)           - 1.3.6.1.4.1.10098.1.1.12.33
  gosaSnapshotType     (Takes either undo or snapshot)
  - 1.3.6.1.4.1.10098.1.1.12.36
  fdHonourUnitTags    (FusionDirectory - Honour unit tags)
  - 1.3.6.1.4.1.38414.8.14.3
Deprecated objectClasses:
  gosaAdministrativeUnitTag   (Marker for objects below administrational
  units (v2.6.1))           - 1.3.6.1.4.1.10098.1.2.1.19.16
  gosaAdministrativeUnit     (Marker for administrational units (v2.6.1))
  - 1.3.6.1.4.1.10098.1.2.1.19.15
```

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

fusiondirectory-setup -check-deprecated will output a list of dns using old attributes and objectClasses

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes and objectClasses

Please read it carefully before applying ! !

From:
<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8.7

Last update: 2015/10/07 09:46



Migrate FusionDirectory from 1.0.8.7 to 1.0.8.8

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

Nothing to do

Check for deprecated attributes and objectClasses in your LDAP

since FusionDirectory 1.0.8.1 two new options are in fusiondirectory-setup

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gosaUnitTag          (Takes a list of relevant mime-type|priority
settings)           - 1.3.6.1.4.1.10098.1.1.12.33
  gosaSnapshotType    (Takes either undo or snapshot)
- 1.3.6.1.4.1.10098.1.1.12.36
  fdHonourUnitTags   (FusionDirectory - Honour unit tags)
- 1.3.6.1.4.1.38414.8.14.3
Deprecated objectClasses:
  gosaAdministrativeUnitTag (Marker for objects below administrational
units (v2.6.1))      - 1.3.6.1.4.1.10098.1.2.1.19.16
  gosaAdministrativeUnit (Marker for administrational units (v2.6.1))
- 1.3.6.1.4.1.10098.1.2.1.19.15
```

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

fusiondirectory-setup -check-deprecated will output a list of dns using old attributes and objectClasses

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes and objectClasses

Please read it carefully before applying ! !

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8.8

Last update: 2015/06/30 17:56



Migrate FusionDirectory from 1.0.8.8 to 1.0.8.9

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

Upgrade the argonaut.schema if you use the argonaut plugin

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/argonaut-fd.schema
```

Check for deprecated attributes and objectClasses in your LDAP

since FusionDirectory 1.0.8.1 two new options are in fusiondirectory-setup

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gosaUnitTag          (Takes a list of relevant mime-type|priority
  settings)           - 1.3.6.1.4.1.10098.1.1.12.33
  gosaSnapshotType     (Takes either undo or snapshot)
  - 1.3.6.1.4.1.10098.1.1.12.36
  fdHonourUnitTags    (FusionDirectory - Honour unit tags)
  - 1.3.6.1.4.1.38414.8.14.3
Deprecated objectClasses:
  gosaAdministrativeUnitTag   (Marker for objects below administrational
  units (v2.6.1))           - 1.3.6.1.4.1.10098.1.2.1.19.16
  gosaAdministrativeUnit     (Marker for administrational units (v2.6.1))
  - 1.3.6.1.4.1.10098.1.2.1.19.15
```

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
```

There are no entries in the LDAP using obsolete attributes

There are no entries in the LDAP using obsolete classes

fusiondirectory-setup -check-deprecated will output a list of dns using old attributes and objectClasses

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes and objectClasses

Please read it carefully before applying ! !

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.8.9

Last update: 2015/07/31 13:53



Migrate FusionDirectory from 1.0.8.9 to 1.0.9

Backup you template First

The template system has been completely rewritten, and the old template will not be converted, so you need to backup them, remove them from FusionDirectory and then redo them.

The new system is much cleaner because template are stored in they own branch now and are the basis for having template for the whole application in the future.

Backup your phones

You must backup all your phones in a LDIF and remove them. Modify your LDIF like below:

Before

```
cn=namePhone,ou=phones,ou=systems,dc=labo,dc=opensides,dc=be
cn: namePhone
goFonType: friend
goFonDmtfMode: inband
goFonDefaultIP: dynamic
ipHostNumber: 127.0.0.1
macAddress: 00:0C:7F:31:33:F1
objectClass: top
```

After

```
cn=namePhone,ou=phones,ou=systems
cn: namePhone
ipHostNumber: 127.0.0.1
macAddress: 00:0C:7F:31:33:F1
objectClass: fdPhone
objectClass: device
objectClass: ieee802Device
objectClass: ipHost
```

After the migration you may insert your phone again in your LDAP.

You can use the next command to backup your phones

```
ldapsearch -xLLL -b ou=phones,ou=systems,dc=labo,dc=opensides,dc=be >
backupPhones.ldif
```

Moved Attributes

We cleaned the core of FusionDirectory to only used classical attributes and objectClass, so the FusionDirectory special attributes on the first page of FusionDirectory are now managed by the personal plugin.

The personal plugin has been made to manage all kind of personal data and is best suited to contain those data not normalized. So if you use **personalTitle**, **dateOfBirth**, **gender** you will need to install the personal plugin.

Upgrade FusionDirectory

Upgrade FusionDirectory core package before other ones to avoid dependencies errors

Debian

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

There is a new schema for the templates, so you need to run

```
fusiondirectory-insert-schema
```

RPM

```
yum remove fusiondirectory
yum install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
yum remove fusiondirectory-schema
yum install fusiondirectory-schema
```

There is a new schema for the templates, so you need to run

```
fusiondirectory-insert-schema
```

Removed obsolete plugins

In this version we removed obsolete plugin, because they were based on software no longer existing or needed an sql backend and we decided they need to be rewritten using the now ldap backend of those softwares :

asterisk : old plugin not maintainable anymore based on the sql backend, but now asterisk has an ldap backend as well.

fax: old code based on the gofax software from gonicus, not maintained anymore upstream.

openstack-compute: openstack management interface changed and this plugin is no longer relevant

uw-imap : long gone imap server, nobody that whe know still use it

They are no longer supported and should be removed from your installation

```
apt-get remove fusiondirectory-plugin-asterisk
```

```
apt-get remove fusiondirectory-plugin-fax
```

```
apt-get remove fusiondirectory-plugin-openstack-compute
```

```
apt-get remove fusiondirectory-plugin-uwimap
```

New Plugin for peoples using a mix of groupOfNames and posixGroup on the same object

We cleaned the code of FusionDirectory and by default it make posixGroup or clean standard compliant groupOfNames. If you need a mix of groupOfNames and posixGroup on the same object you will need to install a new plugin called mixedgroups.

 Please take note that this plugin is for special cases and need modified core schema. 

If you need to have a link between user and groups you are better using the standard compliant groupOfNames or roles for examples for web applications.

```
apt-get install fusiondirectory-plugin-mixedgroups
```

Upgrade of LDAP directory

Upgrade Core FusionDirectory Schema

The password recovery schema has been migrated into the core schema so you must remove it first

```
fusiondirectory-insert-schema -e recovery-fd  
Are you sure you want to empty schema(s) recovery-fd? [Yes/No]?
```

Upgrade the core-fd.schema and core-fd-conf.schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

If you use the argonaut plugin, upgrade the argonaut.schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/argonaut-fd.schema
```

If you use the fai plugin, upgrade the fai-fd-conf.schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/fai-fd-conf.schema
```

If you use the mail plugin, upgrade the mail-fd.schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/mail-fd.schema
```

If you use the personal plugin, upgrade the personal-fd.schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/personal-fd.schema
```

If you use the squid plugin, upgrade the proxy-fd.schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/proxy-fd.schema
```

If you use the system plugin, upgrade the service-fd.schema, systems-fd.schema, systems-fd-conf.schema

The Phone object has been migrated to the system plugin due to the removal of the asterisk plugin.

```
fusiondirectory-insert-schema -e asterisk-fd-conf  
Are you sure you want to empty schema(s) asterisk-fd-conf? [Yes/No]?
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/service-fd.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/systems-fd-conf.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/systems-fd.schema
```

Check for deprecated attributes and objectClasses in your LDAP

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated  
List deprecated attributes and objectclasses  
Deprecated attributes:  
  gotoModules          (Goto - Gonius Terminal Concept, value
```

kernel modules.) - 1.3.6.1.4.1.10098.1.1.1.32
fdPasswordHook (FusionDirectory - Password hook (external command)) - 1.3.6.1.4.1.38414.8.13.4
fdSnapshotURI (FusionDirectory - Snapshot URI)
- 1.3.6.1.4.1.38414.8.17.3
gotoXVsync (Goto - Gonius Terminal Concept, value xVsync.) - 1.3.6.1.4.1.10098.1.1.1.19
ghSoundAdapter (Hardware definitions, value soundAdapter)
- 1.3.6.1.4.1.10098.1.1.2.7
gotoXMouseport (Goto - Gonius Terminal Concept, value xMouseport.) - 1.3.6.1.4.1.10098.1.1.1.22
gotoXMonitor (Goto - Gonius Terminal Concept, value xMonitor.) - 1.3.6.1.4.1.10098.1.1.1.17
gotoAdaptPath (Goto - Gonius Terminal Concept, value adaptPath.) - 1.3.6.1.4.1.10098.1.1.1.33
gotoScannerClients (Goto - Gonius Terminal Concept, value scannerClients.) - 1.3.6.1.4.1.10098.1.1.1.11
gotoHardwareChecksum (Goto - quick way to see if something has changed) - 1.3.6.1.4.1.10098.1.1.2.12
gotoRootPasswd (Goto - Gonius Terminal Concept, value rootPasswd.) - 1.3.6.1.4.1.10098.1.1.1.14
gotoXKbLayout (Goto - Gonius Terminal Concept, value xKbLayout.) - 1.3.6.1.4.1.10098.1.1.1.26
gotoProfileServer (Goto - specifies the profile server)
- 1.3.6.1.4.1.10098.1.1.11.8
fdAccountRDN (FusionDirectory - use a placeholder pattern for generating account RDNs) - 1.3.6.1.4.1.38414.8.12.2
gotoScannerEnable (Goto - Gonius Terminal Concept, value scannerEnable.) - 1.3.6.1.4.1.10098.1.1.1.10
ghGfxAdapter (Hardware definitions, value Grafikkarte)
- 1.3.6.1.4.1.10098.1.1.2.9
gotoFontPath (Goto - Gonius Terminal Concept, value fontPath.) - 1.3.6.1.4.1.10098.1.1.1.5
ghIdeDev (Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4
gotoLpdEnable (Goto - Gonius Terminal Concept, value lpdEnable.) - 1.3.6.1.4.1.10098.1.1.1.9
gotoXKbVariant (Goto - Gonius Terminal Concept, value xKbVariant.) - 1.3.6.1.4.1.10098.1.1.1.27
fdRfc2307bis (FusionDirectory - rfc2307bis)
- 1.3.6.1.4.1.38414.8.10.1
gotoAutoFs (Goto - Gonius Terminal Concept, value autoFs.) - 1.3.6.1.4.1.10098.1.1.1.31
gotoSndModule (Goto - Gonius Terminal Concept, value sound Modules.) - 1.3.6.1.4.1.10098.1.1.1.29
gotoCdromEnable (Goto - Gonius Terminal Concept, value cdromEnable.) - 1.3.6.1.4.1.10098.1.1.1.8
gotoScannerModel (Goto - Gonius Terminal Concept, value scannerModel.) - 1.3.6.1.4.1.10098.1.1.1.40
gosaLoginRestriction (Gosa - Multivalue attribute to carry a number of allowed ips/subnets) - 1.3.6.1.4.1.10098.1.1.12.46

```

gotoXColordepth          (Goto - Gonicus Terminal Concept, value
xColordepth.)           - 1.3.6.1.4.1.10098.1.1.1.21
academicTitle            (Field to represent the academic title)
- 1.3.6.1.4.1.10098.1.1.6.2
fdSnapshotAdminDn        (FusionDirectory - Saphost admin dn)
- 1.3.6.1.4.1.38414.8.17.4
gotoFilesystem            (Goto - Gonicus Terminal Concept, value
filesystem.)           - 1.3.6.1.4.1.10098.1.1.1.6
ghInventoryNumber         (Unique number for inclusion in an
inventory)              - 1.3.6.1.4.1.10098.1.1.2.10
gosaSubtreeACL            (Gosa - ACL entry)
- 1.3.6.1.4.1.10098.1.1.12.1
fdIdGenerator             (FusionDirectory - An automatic way to
generate new user ids)   - 1.3.6.1.4.1.38414.8.12.4
ghUsbSupport               (Hardware definitions, value usbSupport)
- 1.3.6.1.4.1.10098.1.1.2.3
gotoSysStatus              (Keeps current system status - info shown in
Gosa)                   - 1.3.6.1.4.1.10098.1.1.2.11
fdCopyPaste                (FusionDirectory - (de)Activate copy/paste)
- 1.3.6.1.4.1.38414.8.14.5
gotoXDriver                (Goto - Gonicus Terminal Concept, value
xDriver.)                 - 1.3.6.1.4.1.10098.1.1.1.28
gotoXKbModel                (Goto - Gonicus Terminal Concept, value
xKbmodel.)                - 1.3.6.1.4.1.10098.1.1.1.25
fdPersonalTitleInDN        (FusionDirectory - Personal title in dn)
- 1.3.6.1.4.1.38414.8.12.5
gotoLpdServer              (Goto - Gonicus Terminal Concept, value
lpdServer.)               - 1.3.6.1.4.1.10098.1.1.1.4
gotoXHsync                  (Goto - Gonicus Terminal Concept, value
xHsync.)                  - 1.3.6.1.4.1.10098.1.1.1.18
gotoProfileFlags            (Goto - Flags for Profile handling - C is
for caching)              - 1.3.6.1.4.1.10098.1.1.11.7
ghCpuType                  (Hardware definitions, value cpuType)
- 1.3.6.1.4.1.10098.1.1.2.1
gotoXResolution             (Goto - Gonicus Terminal Concept, value
xResolution.)              - 1.3.6.1.4.1.10098.1.1.1.20
gotoShare                   (Goto - specifies a share)
- 1.3.6.1.4.1.10098.1.1.11.9
gotoScannerBackend          (Goto - Gonicus Terminal Concept, value
scannerBackend.)           - 1.3.6.1.4.1.10098.1.1.1.39
fdSnapshotAdminPassword     (FusionDirectory - Saphost admin password)
- 1.3.6.1.4.1.38414.8.17.5
fdVoicemailContexts        (FusionDirectory - available voicemail
contexts)                 - 1.3.6.1.4.1.38414.19.11.2
gosaDefaultLanguage         (Gosa - Defines the default language for a
user)                      - 1.3.6.1.4.1.10098.1.1.12.14
ghMemSize                  (Hardware definitions, value memSize)
- 1.3.6.1.4.1.10098.1.1.2.2
gotoProfileQuota            (Goto - save quota for home)
- 1.3.6.1.4.1.10098.1.1.11.15
fdSipContexts               (FusionDirectory - available sip contexts)

```

```

- 1.3.6.1.4.1.38414.19.11.1
  fdPhoneConferenceRDN          (FusionDirectory - Phone conference RDN)
- 1.3.6.1.4.1.38414.19.10.3
  ghScsiDev                      (Hardware definitions, value scsiDev)
- 1.3.6.1.4.1.10098.1.1.2.5
  fdPhoneMacroRDN               (FusionDirectory - Phone macro RDN)
- 1.3.6.1.4.1.38414.19.10.2
  ghNetNic                        (Hardware definitions, value Network Device)
- 1.3.6.1.4.1.10098.1.1.2.8
  gotoFloppyEnable                (Goto - Gonius Terminal Concept, value
floppyEnable.)                  - 1.3.6.1.4.1.10098.1.1.1.7
  gotoXMouseButtons              (Goto - Gonius Terminal Concept, value
xMouseButtons.)                 - 1.3.6.1.4.1.10098.1.1.1.23
  gotoXMouseType                  (Hardware definitions, value Type of mouse)
- 1.3.6.1.4.1.10098.1.1.1.34
Deprecated objectClasses:
  goCupsServer                   (CUPS server description)
- 1.3.6.1.4.1.10098.1.2.1.23
  gosaCacheEntry                  (Gosa - Class for Gosa caching)
- 1.3.6.1.4.1.10098.1.2.1.19.3
  gosaUserTemplate                (Gosa - Class for Gosa User Templates)
- 1.3.6.1.4.1.10098.1.2.1.19.11
  gosaAccount                     (Gosa - Class for Gosa Accounts)
- 1.3.6.1.4.1.10098.1.2.1.19.6
  gosaObject                      (Gosa - Class for Gosa settings)
- 1.3.6.1.4.1.10098.1.2.1.19.1

```

fusiondirectory-setup -check-deprecated will output a list of dn using old attributes and objectClasses

```

fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
cn=fusiondirectory,ou=configs,dc=labo,dc=opensides,dc=be contains an
obsolete attribute
cn=fusiondirectory,ou=configs,dc=labo,dc=opensides,dc=be uses the obsolete
object class fdAsteriskPluginConf
uid=fd-admin,ou=people,dc=labo,dc=opensides,dc=be uses the obsolete object
class gosaAccount

```

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes. If they are old objectClasses it will warn you and you will have to remove it by hand, they have been specified at the **fusiondirectory-setup -check-deprecated** step.

```

fusiondirectory-setup --ldif-deprecated
# Print an LDIF removing deprecated attributes
dn:cn=fusiondirectory,ou=configs,dc=labo,dc=opensides,dc=be
changetype:modify
delete:fdRfc2307bis
-
delete:fdCopyPaste

```

```
-  
# WARNING: There are entries in the LDAP using obsolete classes, you need to  
edit them manually
```

Please read it carefully before applying ! !

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema** and **asterisk-fd.conf**

Problems when we removing objectClasses

When you remove gosaAccount you can have some troubles.

If you have samba plugin installed you must remove the next attributes on the users where the samba tab is not activate.

```
sambaBadPasswordTime  
sambaBadPasswordCount  
sambaNTPassword  
sambaPwdLastSet
```

If you use argonaut client tab on some objets

To add the new attribute argonautClientProtocol, you must only open the objets that have an argonaut client tab and save it again.

From:
<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.9

Last update: 2016/03/14 14:57



Migrate FusionDirectory from 1.0.9 to 1.0.9.1

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

Insert the core template schema

```
fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/template-fd.schema
```

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema**, **asterisk-fd.schema** and **asterisk-fd-conf.schema** because asterisk plugin does not exist anymore.

Check for deprecated attributes and objectClasses in your LDAP

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gotoModules          (Goto - Gonicus Terminal Concept, value
kernel modules.)      - 1.3.6.1.4.1.10098.1.1.1.32
  fdPasswordHook       (FusionDirectory - Password hook (external
command))            - 1.3.6.1.4.1.38414.8.13.4
  fdSnapshotURI        (FusionDirectory - Snapshot URI)
- 1.3.6.1.4.1.38414.8.17.3
  gotoXVsync           (Goto - Gonicus Terminal Concept, value
xVsync.)              - 1.3.6.1.4.1.10098.1.1.1.19
  ghSoundAdapter       (Hardware definitions, value soundAdapter)
- 1.3.6.1.4.1.10098.1.1.2.7
  gotoXMouseport       (Goto - Gonicus Terminal Concept, value
```

```

xMouseport.)           - 1.3.6.1.4.1.10098.1.1.1.22
  gotoXMonitor          (Goto - Gonicus Terminal Concept, value
xMonitor.)           - 1.3.6.1.4.1.10098.1.1.1.17
  gotoAdaptPath         (Goto - Gonicus Terminal Concept, value
adaptpath.)          - 1.3.6.1.4.1.10098.1.1.1.33
  gotoScannerClients   (Goto - Gonicus Terminal Concept, value
scannerClients.)     - 1.3.6.1.4.1.10098.1.1.1.11
  gotoHardwareChecksum (Goto - quick way to see if something has
changed)            - 1.3.6.1.4.1.10098.1.1.2.12
  gotoRootPasswd       (Goto - Gonicus Terminal Concept, value
rootPasswd.)          - 1.3.6.1.4.1.10098.1.1.1.14
  gotoXKbLayout        (Goto - Gonicus Terminal Concept, value
xKbLayout.)          - 1.3.6.1.4.1.10098.1.1.1.26
  gotoProfileServer    (Goto - specifies the profile server)
- 1.3.6.1.4.1.10098.1.1.11.8
  fdAccountRDN         (FusionDirectory - use a placeholder pattern
for generating account RDNs)      - 1.3.6.1.4.1.38414.8.12.2
  gotoScannerEnable    (Goto - Gonicus Terminal Concept, value
scannerEnable.)       - 1.3.6.1.4.1.10098.1.1.1.10
  ghGfxAdapter        (Hardware definitions, value Grafikkarte)
- 1.3.6.1.4.1.10098.1.1.2.9
  gotoFontPath         (Goto - Gonicus Terminal Concept, value
fontPath.)            - 1.3.6.1.4.1.10098.1.1.1.5
  ghIdeDev             (Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4
  gotoLpdEnable        (Goto - Gonicus Terminal Concept, value
lpdEnable.)          - 1.3.6.1.4.1.10098.1.1.1.9
  gotoXKbVariant       (Goto - Gonicus Terminal Concept, value
xKbvariant.)         - 1.3.6.1.4.1.10098.1.1.1.27
  fdRfc2307bis        (FusionDirectory - rfc2307bis)
- 1.3.6.1.4.1.38414.8.10.1
  gotoAutoFs           (Goto - Gonicus Terminal Concept, value
autofs.)              - 1.3.6.1.4.1.10098.1.1.1.31
  gotoSndModule        (Goto - Gonicus Terminal Concept, value
sound Modules.)      - 1.3.6.1.4.1.10098.1.1.1.29
  gotoCdromEnable      (Goto - Gonicus Terminal Concept, value
cdromEnable.)         - 1.3.6.1.4.1.10098.1.1.1.8
  gotoScannerModel     (Goto - Gonicus Terminal Concept, value
scannerModel.)        - 1.3.6.1.4.1.10098.1.1.1.40
  gosaLoginRestriction (Gosa - Multivalue attribute to carry a
number of allowed ips/subnets) - 1.3.6.1.4.1.10098.1.1.12.46
  gotoXColordepth      (Goto - Gonicus Terminal Concept, value
xColordepth.)         - 1.3.6.1.4.1.10098.1.1.1.21
  academicTitle        (Field to represent the academic title)
- 1.3.6.1.4.1.10098.1.1.6.2
  fdSnapshotAdminDn    (FusionDirectory - Snapshot admin dn)
- 1.3.6.1.4.1.38414.8.17.4
  gotoFilesystem        (Goto - Gonicus Terminal Concept, value
filesystem.)          - 1.3.6.1.4.1.10098.1.1.1.6
  ghInventoryNumber    (Unique number for inclusion in an
inventory)            - 1.3.6.1.4.1.10098.1.1.2.10

```

gosaSubtreeACL	(G0sa - ACL entry)
- 1.3.6.1.4.1.10098.1.1.12.1	
fdIdGenerator	(FusionDirectory - An automatic way to generate new user ids)
- 1.3.6.1.4.1.38414.8.12.4	
ghUsbSupport	(Hardware definitions, value usbSupport)
- 1.3.6.1.4.1.10098.1.1.2.3	
gotoSysStatus	(Keeps current system status - info shown in G0sa)
- 1.3.6.1.4.1.10098.1.1.2.11	
fdCopyPaste	(FusionDirectory - (de)Activate copy/paste)
- 1.3.6.1.4.1.38414.8.14.5	
gotoXDriver	(G0to - Gonics Terminal Concept, value xDriver.)
- 1.3.6.1.4.1.10098.1.1.1.28	
gotoXKbModel	(G0to - Gonics Terminal Concept, value xKbmodel.)
- 1.3.6.1.4.1.10098.1.1.1.25	
fdPersonalTitleInDN	(FusionDirectory - Personal title in dn)
- 1.3.6.1.4.1.38414.8.12.5	
gotoLpdServer	(G0to - Gonics Terminal Concept, value lpdServer.)
- 1.3.6.1.4.1.10098.1.1.1.4	
gotoXHsync	(G0to - Gonics Terminal Concept, value xHsync.)
- 1.3.6.1.4.1.10098.1.1.1.18	
gotoProfileFlags	(G0to - Flags for Profile handling - C is for caching)
- 1.3.6.1.4.1.10098.1.1.11.7	
ghCpuType	(Hardware definitions, value cpuType)
- 1.3.6.1.4.1.10098.1.1.2.1	
gotoXResolution	(G0to - Gonics Terminal Concept, value xResolution.)
- 1.3.6.1.4.1.10098.1.1.1.20	
gotoShare	(G0to - specifies a share)
- 1.3.6.1.4.1.10098.1.1.11.9	
gotoScannerBackend	(G0to - Gonics Terminal Concept, value scannerBackend.)
- 1.3.6.1.4.1.10098.1.1.1.39	
fdSnapshotAdminPassword	(FusionDirectory - Snaphost admin password)
- 1.3.6.1.4.1.38414.8.17.5	
fdVoicemailContexts	(FusionDirectory - available voicemail contexts)
- 1.3.6.1.4.1.38414.19.11.2	
gosaDefaultLanguage	(G0sa - Defines the default language for a user)
- 1.3.6.1.4.1.10098.1.1.12.14	
ghMemSize	(Hardware definitions, value memSize)
- 1.3.6.1.4.1.10098.1.1.2.2	
gotoProfileQuota	(G0to - save quota for home)
- 1.3.6.1.4.1.10098.1.1.11.15	
fdSipContexts	(FusionDirectory - available sip contexts)
- 1.3.6.1.4.1.38414.19.11.1	
fdPhoneConferenceRDN	(FusionDirectory - Phone conference RDN)
- 1.3.6.1.4.1.38414.19.10.3	
ghScsiDev	(Hardware definitions, value scsiDev)
- 1.3.6.1.4.1.10098.1.1.2.5	
fdPhoneMacroRDN	(FusionDirectory - Phone macro RDN)
- 1.3.6.1.4.1.38414.19.10.2	
ghNetNic	(Hardware definitions, value Network Device)
- 1.3.6.1.4.1.10098.1.1.2.8	
gotoFloppyEnable	(G0to - Gonics Terminal Concept, value

```

floppyEnable.)          - 1.3.6.1.4.1.10098.1.1.1.7
gotoXMouseButtons      (Goto - Gonius Terminal Concept, value
xMouseButtons.)        - 1.3.6.1.4.1.10098.1.1.1.23
gotoXMouseType         (Hardware definitions, value Type of mouse)
- 1.3.6.1.4.1.10098.1.1.1.34
Deprecated objectClasses:
goCupsServer           (CUPS server description)
- 1.3.6.1.4.1.10098.1.2.1.23
gosaCacheEntry          (G0sa - Class for G0sa caching)
- 1.3.6.1.4.1.10098.1.2.1.19.3
gosaUserTemplate        (G0sa - Class for G0sa User Templates)
- 1.3.6.1.4.1.10098.1.2.1.19.11
gosaAccount             (G0sa - Class for G0sa Accounts)
- 1.3.6.1.4.1.10098.1.2.1.19.6
gosaObject              (G0sa - Class for G0sa settings)
- 1.3.6.1.4.1.10098.1.2.1.19.1

```

`fusiondirectory-setup -check-deprecated` will output a list of dn using old attributes and objectClasses

```

fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
cn=fusiondirectory,ou=configs,dc=fusiondirectory,dc=org contains an obsolete
attribute
uid=fd-admin,ou=people,dc=fusiondirectory,dc=org uses the obsolete object
class gosaAccount

```

fusiondirectory-setup -migrate-users can help you migrate your user to the new core classes that are used by FusionDirectory. If they are attributes moved over to the personal plugin, it will automatically migrate them and you just need to install the **personal** plugin

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with `ldapmodify` to clean your ldap server from old attributes.

If they are old objectClasses it will warn you and you will have to remove it by hand, they have been specified at the **fusiondirectory-setup -check-deprecated** step at the exception of the gosaAccount class that is migrated with **fusiondirectory-setup -migrate-users** like mentioned above.

Please read it carefully before applying 

From:
<https://documentation.fusiondirectory.org/> - **FusionDirectory Documentation**

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.9.1

Last update: **2016/03/22 08:50**



Migrate FusionDirectory from 1.0.9.1 to 1.0.9.2

Ubuntu 12.0.4 TLS users

⚠ Since 1.0.9.2 FusionDirectory need the php-cas library for CAS server support. This library can normally found in universe in the Ubuntu repositories.

In case you did not find it, grab the deb from here and install it

<http://packages.ubuntu.com/trusty/all/php-cas/download>

and select your preferred mirror

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Removed obsolete plugins

In this version we removed obsolete plugin, because they where based on software no longer existing or needed an sql backend and we decided they need to be rewritten using the now ldap backend of those softwares :

rsyslog : old plugin not maintainable anymore based on the sql backend, and we don't want to manage sql backend in FusionDirectory anymore

database-connector: sql abstraction code no longer needed now that rsyslog plugin is removed

They are no longer supported and should be removed from your installation

```
apt-get remove fusiondirectory-plugin-rsyslog
```

```
apt-get remove fusiondirectory-plugin-database-connector
```

Upgrade of LDAP directory

Upgrade the core template schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

if your are using the fusioninventory plugin you have to update his schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/inventory-fd.schema
```

if your are using the supann plugin you have to update his schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/supann-fd.conf
```

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema** and **asterisk-fd.conf** if they still exist

Check for deprecated attributes and objectClasses in your LDAP

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gotoModules          (Goto - Gonicus Terminal Concept, value
kernel modules.)      - 1.3.6.1.4.1.10098.1.1.1.32
  fdPasswordHook        (FusionDirectory - Password hook (external
command))            - 1.3.6.1.4.1.38414.8.13.4
  fdSnapshotURI         (FusionDirectory - Snapshot URI)
- 1.3.6.1.4.1.38414.8.17.3
  gotoXVsync            (Goto - Gonicus Terminal Concept, value
xVsync.)              - 1.3.6.1.4.1.10098.1.1.1.19
  ghSoundAdapter         (Hardware definitions, value soundAdapter)
- 1.3.6.1.4.1.10098.1.1.2.7
  gotoXMouseport        (Goto - Gonicus Terminal Concept, value
xMouseport.)          - 1.3.6.1.4.1.10098.1.1.1.22
  gotoXMonitor           (Goto - Gonicus Terminal Concept, value
xMonitor.)            - 1.3.6.1.4.1.10098.1.1.1.17
  gotoAdaptPath          (Goto - Gonicus Terminal Concept, value
adaptpath.)           - 1.3.6.1.4.1.10098.1.1.1.33
  gotoScannerClients     (Goto - Gonicus Terminal Concept, value
scannerClients.)       - 1.3.6.1.4.1.10098.1.1.1.11
  gotoHardwareChecksum    (Goto - quick way to see if something has
```

changed) - 1.3.6.1.4.1.10098.1.1.2.12
gotoRootPasswd (Goto - Gonicus Terminal Concept, value
rootPasswd.) - 1.3.6.1.4.1.10098.1.1.1.14
gotoXKbLayout (Goto - Gonicus Terminal Concept, value
xKbLayout.) - 1.3.6.1.4.1.10098.1.1.1.26
gotoProfileServer (Goto - specifies the profile server)
- 1.3.6.1.4.1.10098.1.1.11.8
fdAccountRDN (FusionDirectory - use a placeholder pattern
for generating account RDNs) - 1.3.6.1.4.1.38414.8.12.2
gotoScannerEnable (Goto - Gonicus Terminal Concept, value
scannerEnable.) - 1.3.6.1.4.1.10098.1.1.1.10
ghGfxAdapter (Hardware definitions, value Grafikkarte)
- 1.3.6.1.4.1.10098.1.1.2.9
gotoFontPath (Goto - Gonicus Terminal Concept, value
fontPath.) - 1.3.6.1.4.1.10098.1.1.1.5
ghIdeDev (Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4
gotoLpdEnable (Goto - Gonicus Terminal Concept, value
lpdEnable.) - 1.3.6.1.4.1.10098.1.1.1.9
gotoXKbVariant (Goto - Gonicus Terminal Concept, value
xKbvariant.) - 1.3.6.1.4.1.10098.1.1.1.27
fdRfc2307bis (FusionDirectory - rfc2307bis)
- 1.3.6.1.4.1.38414.8.10.1
gotoAutoFs (Goto - Gonicus Terminal Concept, value
autofs.) - 1.3.6.1.4.1.10098.1.1.1.31
gotoSndModule (Goto - Gonicus Terminal Concept, value
sound Modules.) - 1.3.6.1.4.1.10098.1.1.1.29
gotoCdromEnable (Goto - Gonicus Terminal Concept, value
cdromEnable.) - 1.3.6.1.4.1.10098.1.1.1.8
gotoScannerModel (Goto - Gonicus Terminal Concept, value
scannerModel.) - 1.3.6.1.4.1.10098.1.1.1.40
gosaLoginRestriction (G0sa - Multivalue attribute to carry a
number of allowed ips/subnets) - 1.3.6.1.4.1.10098.1.1.12.46
gotoXColordepth (Goto - Gonicus Terminal Concept, value
xColordepth.) - 1.3.6.1.4.1.10098.1.1.1.21
academicTitle (Field to represent the academic title)
- 1.3.6.1.4.1.10098.1.1.6.2
fdSnapshotAdminDn (FusionDirectory - Snapshot admin dn)
- 1.3.6.1.4.1.38414.8.17.4
gotoFilesystem (Goto - Gonicus Terminal Concept, value
filesystem.) - 1.3.6.1.4.1.10098.1.1.1.6
ghInventoryNumber (Unique number for inclusion in an
inventory) - 1.3.6.1.4.1.10098.1.1.2.10
gosaSubtreeACL (G0sa - ACL entry)
- 1.3.6.1.4.1.10098.1.1.12.1
fdIdGenerator (FusionDirectory - An automatic way to
generate new user ids) - 1.3.6.1.4.1.38414.8.12.4
ghUsbSupport (Hardware definitions, value usbSupport)
- 1.3.6.1.4.1.10098.1.1.2.3
gotoSysStatus (Keeps current system status - info shown in
G0sa) - 1.3.6.1.4.1.10098.1.1.2.11

fdCopyPaste (FusionDirectory - (de)Activate copy/paste)
 - 1.3.6.1.4.1.38414.8.14.5
 gotoXDriver (Goto - Gonicus Terminal Concept, value
 xDriver.) - 1.3.6.1.4.1.10098.1.1.1.28
 gotoXKbModel (Goto - Gonicus Terminal Concept, value
 xKbmodel.) - 1.3.6.1.4.1.10098.1.1.1.25
 fdPersonalTitleInDN (FusionDirectory - Personal title in dn)
 - 1.3.6.1.4.1.38414.8.12.5
 gotoLpdServer (Goto - Gonicus Terminal Concept, value
 lpdServer.) - 1.3.6.1.4.1.10098.1.1.1.4
 gotoXHsync (Goto - Gonicus Terminal Concept, value
 xHsync.) - 1.3.6.1.4.1.10098.1.1.1.18
 gotoProfileFlags (Goto - Flags for Profile handling - C is
 for caching) - 1.3.6.1.4.1.10098.1.1.11.7
 ghCpuType (Hardware definitions, value cpuType)
 - 1.3.6.1.4.1.10098.1.1.2.1
 gotoXResolution (Goto - Gonicus Terminal Concept, value
 xResolution.) - 1.3.6.1.4.1.10098.1.1.1.20
 gotoShare (Goto - specifies a share)
 - 1.3.6.1.4.1.10098.1.1.11.9
 gotoScannerBackend (Goto - Gonicus Terminal Concept, value
 scannerBackend.) - 1.3.6.1.4.1.10098.1.1.1.39
 fdSnapshotAdminPassword (FusionDirectory - Snapshot admin password)
 - 1.3.6.1.4.1.38414.8.17.5
 fdVoicemailContexts (FusionDirectory - available voicemail
 contexts) - 1.3.6.1.4.1.38414.19.11.2
 gosaDefaultLanguage (Gosa - Defines the default language for a
 user) - 1.3.6.1.4.1.10098.1.1.12.14
 ghMemSize (Hardware definitions, value memSize)
 - 1.3.6.1.4.1.10098.1.1.2.2
 gotoProfileQuota (Goto - save quota for home)
 - 1.3.6.1.4.1.10098.1.1.11.15
 fdSipContexts (FusionDirectory - available sip contexts)
 - 1.3.6.1.4.1.38414.19.11.1
 fdPhoneConferenceRDN (FusionDirectory - Phone conference RDN)
 - 1.3.6.1.4.1.38414.19.10.3
 ghScsiDev (Hardware definitions, value scsiDev)
 - 1.3.6.1.4.1.10098.1.1.2.5
 fdPhoneMacroRDN (FusionDirectory - Phone macro RDN)
 - 1.3.6.1.4.1.38414.19.10.2
 ghNetNic (Hardware definitions, value Network Device)
 - 1.3.6.1.4.1.10098.1.1.2.8
 gotoFloppyEnable (Goto - Gonicus Terminal Concept, value
 floppyEnable.) - 1.3.6.1.4.1.10098.1.1.1.7
 gotoXMouseButtons (Goto - Gonicus Terminal Concept, value
 xMouseButtons.) - 1.3.6.1.4.1.10098.1.1.1.23
 gotoXMouseType (Hardware definitions, value Type of mouse)
 - 1.3.6.1.4.1.10098.1.1.1.34
Deprecated objectClasses:
 goCupsServer (CUPS server description)
 - 1.3.6.1.4.1.10098.1.2.1.23

gosaCacheEntry	(G0sa - Class for G0sa caching)
- 1.3.6.1.4.1.10098.1.2.1.19.3	
gosaUserTemplate	(G0sa - Class for G0sa User Templates)
- 1.3.6.1.4.1.10098.1.2.1.19.11	
gosaAccount	(G0sa - Class for G0sa Accounts)
- 1.3.6.1.4.1.10098.1.2.1.19.6	
gosaObject	(G0sa - Class for G0sa settings)
- 1.3.6.1.4.1.10098.1.2.1.19.1	

fusiondirectory-setup -check-deprecated will output a list of dn using old attributes and objectClasses of they are present in your ldap server

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

fusiondirectory-setup -migrate-users can help you migrate your user to the new core classes that are used by FusionDirectory. If they are attributes moved over to the personal plugin, it will automatically migrate them and you just need to install the **personal** plugin

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes.

If they are old objectClasses it will warn you and you will have to remove it by hand, they have been specified at the **fusiondirectory-setup -check-deprecated** step at the exception of the gosaAccount class that is migrated with **fusiondirectory-setup -migrate-users** like mentioned above.

Please read it carefully before applying !!!

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.9.2

Last update: 2016/01/15 09:02



Migrate FusionDirectory from 1.0.9.2 to 1.0.9.3

Ubuntu 12.0.4 TLS users

⚠ Since 1.0.9.2 FusionDirectory need the php-cas library for CAS server support. This library can normally found in universe in the Ubuntu repositories.

In case you did not find it, grab the deb from here and install it

<http://packages.ubuntu.com/trusty/all/php-cas/download>

and select your preferred mirror

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

Upgrade the core configuration schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

if your are using the system plugin you have to update his schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/service-fd.schema
```

if your are using the repository plugin you have to update his schema

```
fusiondirectory-insert-schema -m  
/etc/ldap/schema/fusiondirectory/repository-fd.schema
```

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema** and **asterisk-fd.conf** if they still exist

Check for deprecated attributes and objectClasses in your LDAP

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gotoModules          (Goto - Gonicus Terminal Concept, value
kernel modules.)      - 1.3.6.1.4.1.10098.1.1.1.32
  fdPasswordHook       (FusionDirectory - Password hook (external
command))            - 1.3.6.1.4.1.38414.8.13.4
  fdSnapshotURI        (FusionDirectory - Snapshot URI)
- 1.3.6.1.4.1.38414.8.17.3
  gotoXVsync           (Goto - Gonicus Terminal Concept, value
xVsync.)              - 1.3.6.1.4.1.10098.1.1.1.19
  ghSoundAdapter        (Hardware definitions, value soundAdapter)
- 1.3.6.1.4.1.10098.1.1.2.7
  gotoXMouseport       (Goto - Gonicus Terminal Concept, value
xMouseport.)          - 1.3.6.1.4.1.10098.1.1.1.22
  gotoXMonitor          (Goto - Gonicus Terminal Concept, value
xMonitor.)            - 1.3.6.1.4.1.10098.1.1.1.17
  gotoAdaptPath         (Goto - Gonicus Terminal Concept, value
adaptpath.)           - 1.3.6.1.4.1.10098.1.1.1.33
  gotoScannerClients    (Goto - Gonicus Terminal Concept, value
scannerClients.)      - 1.3.6.1.4.1.10098.1.1.1.11
  gotoHardwareChecksum  (Goto - quick way to see if something has
changed)              - 1.3.6.1.4.1.10098.1.1.2.12
  gotoRootPasswd        (Goto - Gonicus Terminal Concept, value
rootPasswd.)          - 1.3.6.1.4.1.10098.1.1.1.14
  gotoXKbLayout         (Goto - Gonicus Terminal Concept, value
xKbLayout.)            - 1.3.6.1.4.1.10098.1.1.1.26
  gotoProfileServer     (Goto - specifies the profile server)
- 1.3.6.1.4.1.10098.1.1.11.8
  fdAccountRDN          (FusionDirectory - use a placeholder pattern
for generating account RDNs)      - 1.3.6.1.4.1.38414.8.12.2
  gotoScannerEnable      (Goto - Gonicus Terminal Concept, value
scannerEnable.)         - 1.3.6.1.4.1.10098.1.1.1.10
  ghGfxAdapter          (Hardware definitions, value Grafikkarte)
- 1.3.6.1.4.1.10098.1.1.2.9
  gotoFontPath           (Goto - Gonicus Terminal Concept, value
fontPath.)              - 1.3.6.1.4.1.10098.1.1.1.5
  ghIdeDev               (Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4
  gotoLpdEnable          (Goto - Gonicus Terminal Concept, value
lpdEnable.)             - 1.3.6.1.4.1.10098.1.1.1.9
  gotoXKbVariant         (Goto - Gonicus Terminal Concept, value
```

```

xKbvariant.)           - 1.3.6.1.4.1.10098.1.1.1.27
fdRfc2307bis          (FusionDirectory - rfc2307bis)
- 1.3.6.1.4.1.38414.8.10.1
gotoAutoFs             (Goto - Gonicus Terminal Concept, value
autofs.)              - 1.3.6.1.4.1.10098.1.1.1.31
gotoSndModule          (Goto - Gonicus Terminal Concept, value
sound Modules.)       - 1.3.6.1.4.1.10098.1.1.1.29
gotoCdromEnable        (Goto - Gonicus Terminal Concept, value
cdromEnable.)         - 1.3.6.1.4.1.10098.1.1.1.8
gotoScannerModel       (Goto - Gonicus Terminal Concept, value
scannerModel.)        - 1.3.6.1.4.1.10098.1.1.1.40
gosaLoginRestriction   (Gosa - Multivalue attribute to carry a
number of allowed ips/subnets) - 1.3.6.1.4.1.10098.1.1.12.46
gotoXColordepth        (Goto - Gonicus Terminal Concept, value
xColordepth.)         - 1.3.6.1.4.1.10098.1.1.1.21
academicTitle          (Field to represent the academic title)
- 1.3.6.1.4.1.10098.1.1.6.2
fdSnapshotAdminDn      (FusionDirectory - Snapshot admin dn)
- 1.3.6.1.4.1.38414.8.17.4
gotoFilesystem          (Goto - Gonicus Terminal Concept, value
filesystem.)          - 1.3.6.1.4.1.10098.1.1.1.6
ghInventoryNumber       (Unique number for inclusion in an
inventory)            - 1.3.6.1.4.1.10098.1.1.2.10
gosaSubtreeACL          (Gosa - ACL entry)
- 1.3.6.1.4.1.10098.1.1.12.1
fdIdGenerator           (FusionDirectory - An automatic way to
generate new user ids) - 1.3.6.1.4.1.38414.8.12.4
ghUsbSupport             (Hardware definitions, value usbSupport)
- 1.3.6.1.4.1.10098.1.1.2.3
gotoSysStatus            (Keeps current system status - info shown in
Gosa)                  - 1.3.6.1.4.1.10098.1.1.2.11
fdCopyPaste               (FusionDirectory - (de)Activate copy/paste)
- 1.3.6.1.4.1.38414.8.14.5
gotoXDriver               (Goto - Gonicus Terminal Concept, value
xDriver.)                - 1.3.6.1.4.1.10098.1.1.1.28
gotoXKbModel               (Goto - Gonicus Terminal Concept, value
xKbmodel.)                - 1.3.6.1.4.1.10098.1.1.1.25
fdPersonalTitleInDN       (FusionDirectory - Personal title in dn)
- 1.3.6.1.4.1.38414.8.12.5
gotoLpdServer              (Goto - Gonicus Terminal Concept, value
lpdServer.)                - 1.3.6.1.4.1.10098.1.1.1.4
gotoXHsync                 (Goto - Gonicus Terminal Concept, value
xHsync.)                  - 1.3.6.1.4.1.10098.1.1.1.18
gotoProfileFlags           (Goto - Flags for Profile handling - C is
for caching)                - 1.3.6.1.4.1.10098.1.1.11.7
ghCpuType                  (Hardware definitions, value cpuType)
- 1.3.6.1.4.1.10098.1.1.2.1
gotoXResolution             (Goto - Gonicus Terminal Concept, value
xResolution.)                - 1.3.6.1.4.1.10098.1.1.1.20
gotoShare                   (Goto - specifies a share)
- 1.3.6.1.4.1.10098.1.1.11.9

```

gotoScannerBackend	(G0to - Gonicus Terminal Concept, value scannerBackend.)	- 1.3.6.1.4.1.10098.1.1.1.39
fdSnapshotAdminPassword	(FusionDirectory - Snaphost admin password)	- 1.3.6.1.4.1.38414.8.17.5
fdVoicemailContexts contexts)	(FusionDirectory - available voicemail contexts)	- 1.3.6.1.4.1.38414.19.11.2
gosaDefaultLanguage user)	(G0sa - Defines the default language for a user)	- 1.3.6.1.4.1.10098.1.1.12.14
ghMemSize	(Hardware definitions, value memSize)	- 1.3.6.1.4.1.10098.1.1.2.2
gotoProfileQuota	(G0to - save quota for home)	- 1.3.6.1.4.1.10098.1.1.11.15
fdSipContexts	(FusionDirectory - available sip contexts)	- 1.3.6.1.4.1.38414.19.11.1
fdPhoneConferenceRDN	(FusionDirectory - Phone conference RDN)	- 1.3.6.1.4.1.38414.19.10.3
ghScsiDev	(Hardware definitions, value scsiDev)	- 1.3.6.1.4.1.10098.1.1.2.5
fdPhoneMacroRDN	(FusionDirectory - Phone macro RDN)	- 1.3.6.1.4.1.38414.19.10.2
ghNetNic	(Hardware definitions, value Network Device)	- 1.3.6.1.4.1.10098.1.1.2.8
gotoFloppyEnable floppyEnable.)	(G0to - Gonicus Terminal Concept, value gotoFloppyEnable.)	- 1.3.6.1.4.1.10098.1.1.1.7
gotoXMouseButtons xMouseButtons.)	(G0to - Gonicus Terminal Concept, value gotoXMouseButtons.)	- 1.3.6.1.4.1.10098.1.1.1.23
gotoXMouseType	(Hardware definitions, value Type of mouse)	- 1.3.6.1.4.1.10098.1.1.1.34
Deprecated objectClasses:		
goCupsServer	(CUPS server description)	- 1.3.6.1.4.1.10098.1.2.1.23
gosaCacheEntry	(G0sa - Class for G0sa caching)	- 1.3.6.1.4.1.10098.1.2.1.19.3
gosaUserTemplate	(G0sa - Class for G0sa User Templates)	- 1.3.6.1.4.1.10098.1.2.1.19.11
gosaAccount	(G0sa - Class for G0sa Accounts)	- 1.3.6.1.4.1.10098.1.2.1.19.6
gosaObject	(G0sa - Class for G0sa settings)	- 1.3.6.1.4.1.10098.1.2.1.19.1

fusiondirectory-setup -check-deprecated will output a list of dn using old attributes and objectClasses of they are present in your ldap server

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

fusiondirectory-setup -migrate-users can help you migrate your user to the new core classes that are used by FusionDirectory. If they are attributes moved over to the personal plugin, it will automatically migrate them and you just need to install the **personal** plugin

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes.

If they are old objectClasses it will warn you and you will have to remove it by hand, they have been specified at the **fusiondirectory-setup -check-deprecated** step at the exception of the gosaAccount class that is migrated with **fusiondirectory-setup -migrate-users** like mentioned above.

Please read it carefully before applying 

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.9.3

Last update: **2016/03/01 10:33**



Migrate FusionDirectory from 1.0.9.3 to 1.0.10

Ubuntu 12.0.4 TLS users

⚠ Since 1.0.9.2 FusionDirectory need the php-cas library for CAS server support. This library can normally found in universe in the Ubuntu repositories.

In case you did not find it, grab the deb from here and install it

<http://packages.ubuntu.com/trusty/all/php-cas/download>

and select your preferred mirror

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

Upgrade the core configuration schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

if your are using the personal plugin you have to update its schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/personal-fd.schema
```

if your are using the system plugin you have to update its schemas

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/systems-fd.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/systems-
```

```
fd-conf.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/service-fd.schema
```

if you are using the dns plugin you have to update its schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/dns-fd-conf.schema
```

and install a new schema

```
fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/dns-fd.schema
```

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema** and **asterisk-fd.conf** if they still exist

Check for deprecated attributes and objectClasses in your LDAP

fusiondirectory-setup -list-deprecated show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gotoFilesystem          (Goto - Gonicus Terminal Concept, value
filesystem.)           - 1.3.6.1.4.1.10098.1.1.1.6
  gotoFloppyEnable        (Goto - Gonicus Terminal Concept, value
floppyEnable.)          - 1.3.6.1.4.1.10098.1.1.1.7
  gotoSysStatus           (Keeps current system status - info shown in
Gosa)                  - 1.3.6.1.4.1.10098.1.1.2.11
  gotoXColordepth         (Goto - Gonicus Terminal Concept, value
xColordepth.)           - 1.3.6.1.4.1.10098.1.1.1.21
  gotoHardwareChecksum    (Goto - quick way to see if something has
changed)               - 1.3.6.1.4.1.10098.1.1.2.12
  goFaxPassword          (Admin password for fax server)
- 1.3.6.1.4.1.10098.1.1.9.23
  gotoNtpServer          (Goto - Gonicus Terminal Concept, value
ntpServer.)             - 1.3.6.1.4.1.10098.1.1.1.2
  gotoXDriver             (Goto - Gonicus Terminal Concept, value
xDriver.)               - 1.3.6.1.4.1.10098.1.1.1.28
  fdSnapshotAdminDn      (FusionDirectory - Snaphost admin dn)
- 1.3.6.1.4.1.38414.8.17.4
  fdPersonalTitleInDN    (FusionDirectory - Personal title in dn)
- 1.3.6.1.4.1.38414.8.12.5
```

gotoXMouseport	(Goto - Gonicus Terminal Concept, value
xMouseport.)	- 1.3.6.1.4.1.10098.1.1.1.22
gotoAdaptPath	(Goto - Gonicus Terminal Concept, value
adaptpath.)	- 1.3.6.1.4.1.10098.1.1.1.33
goFonCountryCode	(Store country code)
- 1.3.6.1.4.1.10098.1.1.9.29	
gotoSndModule	(Goto - Gonicus Terminal Concept, value
sound Modules.)	- 1.3.6.1.4.1.10098.1.1.1.29
gotoXKbLayout	(Goto - Gonicus Terminal Concept, value
xKbLayout.)	- 1.3.6.1.4.1.10098.1.1.1.26
gotoProfileFlags	(Goto - Flags for Profile handling - C is
for caching)	- 1.3.6.1.4.1.10098.1.1.11.7
ghSoundAdapter	(Hardware definitions, value soundAdapter)
- 1.3.6.1.4.1.10098.1.1.2.7	
gotoScannerModel	(Goto - Gonicus Terminal Concept, value
scannerModel.)	- 1.3.6.1.4.1.10098.1.1.1.40
gotoScannerEnable	(Goto - Gonicus Terminal Concept, value
scannerEnable.)	- 1.3.6.1.4.1.10098.1.1.1.10
gosaSubtreeACL	(Gosa - ACL entry)
- 1.3.6.1.4.1.10098.1.1.12.1	
ghUsbSupport	(Hardware definitions, value usbSupport)
- 1.3.6.1.4.1.10098.1.1.2.3	
gotoLpdEnable	(Goto - Gonicus Terminal Concept, value
lpdEnable.)	- 1.3.6.1.4.1.10098.1.1.1.9
gotoProfileQuota	(Goto - save quota for home)
- 1.3.6.1.4.1.10098.1.1.11.15	
gotoScannerBackend	(Goto - Gonicus Terminal Concept, value
scannerBackend.)	- 1.3.6.1.4.1.10098.1.1.1.39
goSyslogSection	(What sections wants the server for its
syslog service? i.e. *.*)	- 1.3.6.1.4.1.10098.1.1.9.9
fdAccountRDN	(FusionDirectory - use a placeholder pattern
for generating account RDNs)	- 1.3.6.1.4.1.38414.8.12.2
goFaxAdmin	(Admin principal for fax server)
- 1.3.6.1.4.1.10098.1.1.9.22	
goLogDriver	(FD logging MDB2 driver name)
- 1.3.6.1.4.1.10098.1.1.9.84	
ghNetNic	(Hardware definitions, value Network Device)
- 1.3.6.1.4.1.10098.1.1.2.8	
academicTitle	(Field to represent the academic title)
- 1.3.6.1.4.1.10098.1.1.6.2	
fdPhoneMacroRDN	(FusionDirectory - Phone macro RDN)
- 1.3.6.1.4.1.38414.19.10.2	
gosaLoginRestriction	(Gosa - Multivalue attribute to carry a
number of allowed ips/subnets)	- 1.3.6.1.4.1.10098.1.1.12.46
gotoLpdServer	(Goto - Gonicus Terminal Concept, value
lpdServer.)	- 1.3.6.1.4.1.10098.1.1.1.4
ghCpuType	(Hardware definitions, value cpuType)
- 1.3.6.1.4.1.10098.1.1.2.1	
gotoXMonitor	(Goto - Gonicus Terminal Concept, value
xMonitor.)	- 1.3.6.1.4.1.10098.1.1.1.17
fdRfc2307bis	(FusionDirectory - rfc2307bis)

- 1.3.6.1.4.1.38414.8.10.1
 - gotoXVsync (Goto - Gonicus Terminal Concept, value xVsync.) - 1.3.6.1.4.1.10098.1.1.1.19
 - fdSipContexts (FusionDirectory - available sip contexts)
- 1.3.6.1.4.1.38414.19.11.1
 - gotoShare (Goto - specifies a share)
- 1.3.6.1.4.1.10098.1.1.11.9
 - fdCopyPaste (FusionDirectory - (de)Activate copy/paste)
- 1.3.6.1.4.1.38414.8.14.5
 - goLogPassword (Admin password for log server)
- 1.3.6.1.4.1.10098.1.1.9.25
 - gotoCdromEnable (Goto - Gonicus Terminal Concept, value cdromEnable.) - 1.3.6.1.4.1.10098.1.1.1.8
 - gotoProfileServer (Goto - specifies the profile server)
- 1.3.6.1.4.1.10098.1.1.11.8
 - fdSnapshotAdminPassword (FusionDirectory - Snapshot admin password)
- 1.3.6.1.4.1.38414.8.17.5
 - ghMemSize (Hardware definitions, value memSize)
- 1.3.6.1.4.1.10098.1.1.2.2
 - fdSnapshotURI (FusionDirectory - Snapshot URI)
- 1.3.6.1.4.1.38414.8.17.3
 - gotoAutoFs (Goto - Gonicus Terminal Concept, value autofs.) - 1.3.6.1.4.1.10098.1.1.1.31
 - goFonAreaCode (Store area code)
- 1.3.6.1.4.1.10098.1.1.9.28
 - ghInventoryNumber (Unique number for inclusion in an inventory) - 1.3.6.1.4.1.10098.1.1.2.10
 - fdPhoneConferenceRDN (FusionDirectory - Phone conference RDN)
- 1.3.6.1.4.1.38414.19.10.3
 - gotoXMouseType (Hardware definitions, value Type of mouse)
- 1.3.6.1.4.1.10098.1.1.1.34
 - fdPrimaryGroupFilter (FusionDirectory - Primary group filter)
- 1.3.6.1.4.1.38414.8.14.1
 - gotoXHsync (Goto - Gonicus Terminal Concept, value xHsync.) - 1.3.6.1.4.1.10098.1.1.1.18
- gosadefaultlanguage (Gosa - Defines the default language for a user) - 1.3.6.1.4.1.10098.1.1.12.14
 - ghIdeDev (Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4
 - gotoXKbVariant (Goto - Gonicus Terminal Concept, value xKbvariant.) - 1.3.6.1.4.1.10098.1.1.1.27
 - gotoModules (Goto - Gonicus Terminal Concept, value kernel modules.) - 1.3.6.1.4.1.10098.1.1.1.32
 - gotoXMouseButtons (Goto - Gonicus Terminal Concept, value xMouseButtons.) - 1.3.6.1.4.1.10098.1.1.1.23
 - fdIdGenerator (FusionDirectory - An automatic way to generate new user ids) - 1.3.6.1.4.1.38414.8.12.4
- fdVoicemailContexts (FusionDirectory - available voicemail contexts) - 1.3.6.1.4.1.38414.19.11.2
 - ghScsiDev (Hardware definitions, value scsiDev)
- 1.3.6.1.4.1.10098.1.1.2.5

goFonAdmin	(Admin user for fon server)
- 1.3.6.1.4.1.10098.1.1.9.26	
ghGfxAdapter	(Hardware definitions, value Grafikkarte)
- 1.3.6.1.4.1.10098.1.1.2.9	
fdPasswordHook	(FusionDirectory - Password hook (external command))
- 1.3.6.1.4.1.38414.8.13.4	
gotoXKbModel	(Goto - Gonicus Terminal Concept, value xKbmodel.)
- 1.3.6.1.4.1.10098.1.1.1.25	
gotoRootPasswd	(Goto - Gonicus Terminal Concept, value rootPasswd.)
- 1.3.6.1.4.1.10098.1.1.1.14	
goLogDB	(Gosa logging DB name)
- 1.3.6.1.4.1.10098.1.1.9.83	
goLogAdmin	(Admin user for log server)
- 1.3.6.1.4.1.10098.1.1.9.24	
gotoXResolution	(Goto - Gonicus Terminal Concept, value xResolution.)
- 1.3.6.1.4.1.10098.1.1.1.20	
gotoScannerClients	(Goto - Gonicus Terminal Concept, value scannerClients.)
- 1.3.6.1.4.1.10098.1.1.1.11	
gotoFontPath	(Goto - Gonicus Terminal Concept, value fontPath.)
- 1.3.6.1.4.1.10098.1.1.1.5	
goFonPassword	(Admin password for fon server)
- 1.3.6.1.4.1.10098.1.1.9.27	
Deprecated objectClasses:	
goNfsServer	(NFS server description)
- 1.3.6.1.4.1.10098.1.2.1.19	
goCupsServer	(CUPS server description)
- 1.3.6.1.4.1.10098.1.2.1.23	
gosaCacheEntry	(Gosa - Class for Gosa caching)
- 1.3.6.1.4.1.10098.1.2.1.19.3	
gosaObject	(Gosa - Class for Gosa settings)
- 1.3.6.1.4.1.10098.1.2.1.19.1	
goFaxServer	(Fax server description)
- 1.3.6.1.4.1.10098.1.2.1.26	
goFonServer	(Fon server description)
- 1.3.6.1.4.1.10098.1.2.1.29	
gosaUserTemplate	(Gosa - Class for Gosa User Templates)
- 1.3.6.1.4.1.10098.1.2.1.19.11	
gosaAccount	(Gosa - Class for Gosa Accounts)
- 1.3.6.1.4.1.10098.1.2.1.19.6	
goLogDBServer	(Log DB server description)
- 1.3.6.1.4.1.10098.1.2.1.28	
goSyslogServer	(Syslog server description)
- 1.3.6.1.4.1.10098.1.2.1.21	
goNtpServer	(Time server description)
- 1.3.6.1.4.1.10098.1.2.1.20	

fusiondirectory-setup -check-deprecated will output a list of dn using old attributes and objectClasses of they are present in your ldap server

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
```

There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes

fusiondirectory-setup -ldif-deprecated will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes.

If they are old objectClasses it will warn you and you will have to remove it by hand, they have been specified at the **fusiondirectory-setup -check-deprecated** step.

Please read it carefully before applying !!!

Migrate your DNS entries

If you were using the DNS plugin in 1.0.9, you need to migrate to entries to the new DNS plugin, run the **fusiondirectory-setup -migrate-dns** for this

fusiondirectory-setup --migrate-dns

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.10

Last update: 2016/03/22 08:27



Migrate FusionDirectory from 1.0.10 to 1.0.11

Ubuntu 12.0.4 TLS users

⚠ Since 1.0.9.2 FusionDirectory need the php-cas library for CAS server support. This library can normally found in universe in the Ubuntu repositories.

In case you did not find it, grab the deb from here and install it

<http://packages.ubuntu.com/trusty/all/php-cas/download>

and select your preferred mirror

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Then upgrade the rest of your plugins

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.11

Last update: **2016/05/03 09:35**



Migrate FusionDirectory from 1.0.11 to 1.0.12

Ubuntu 12.0.4 TLS users

⚠ Since 1.0.9.2 FusionDirectory need the php-cas library for CAS server support. This library can normally found in universe in the Ubuntu repositories.

In case you did not find it, grab the deb from here and install it

<http://packages.ubuntu.com/trusty/all/php-cas/download>

and select your preferred mirror

Mail

In this version the mail plugin has been cleaned and his dependency to the systems has been removed. In the mean time the postfix and spamassassin service have been moved in their own plugins. The antivirus service have been removed.

The old spamassassin settings from the mail / user tab have been rewritten and moved to a spamassassin, they now support the real LDAP backend of spamassassin. So you will need to move your data to the new format before using them.

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

if your are using the mail plugin you have to update its schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/mail-fd.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/mail-fd-conf.schema
```

if your are using the system plugin you have to update its schemas

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/service-fd.schema
```

Postfix plugin

if you where using the postfix service in 1.0.11, you need to install the postfix plugin and insert the postfix schema

```
apt-get install fusiondirectory-plugin-postfix
```

```
apt-get install fusiondirectory-plugin-postfix-schema
```

```
fusiondirectory-insert-schema -i /etc/ldap/schema/fusiondirectory/postfix-fd.schema
```

spamassassin plugin

if you where using the spamassassin service in 1.0.11, you need to install the spamassassin plugin and insert the spamassassin schema

```
apt-get install fusiondirectory-plugin-spamassassin
```

```
apt-get install fusiondirectory-plugin-spamassassin-schema
```

```
fusiondirectory-insert-schema -i  
/etc/ldap/schema/fusiondirectory/spamassassin-fd.schema
```

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema** and **asterisk-fd.conf** if they still exist

Check for deprecated attributes and objectClasses in your LDAP

The **list-deprecated** option of **fusiondirectory-setup** show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated  
List deprecated attributes and objectclasses  
Deprecated attributes:  
  gotoFilesystem          (Goto - Gonius Terminal Concept, value  
  filesystem.)           - 1.3.6.1.4.1.10098.1.1.1.6  
  gotoFloppyEnable        (Goto - Gonius Terminal Concept, value
```

```

floppyEnable.)          - 1.3.6.1.4.1.10098.1.1.1.7
gotoSysStatus           (Keeps current system status - info shown in
G0sa)                  - 1.3.6.1.4.1.10098.1.1.2.11
gotoXColordepth         (Goto - Gonicus Terminal Concept, value
xColordepth.)          - 1.3.6.1.4.1.10098.1.1.1.21
gotoHardwareChecksum    (Goto - quick way to see if something has
changed)               - 1.3.6.1.4.1.10098.1.1.2.12
goFaxPassword           (Admin password for fax server)
- 1.3.6.1.4.1.10098.1.1.9.23
gotoNtpServer           (Goto - Gonicus Terminal Concept, value
ntpServer.)            - 1.3.6.1.4.1.10098.1.1.1.2
gotoXDriver              (Goto - Gonicus Terminal Concept, value
xDriver.)               - 1.3.6.1.4.1.10098.1.1.1.28
fdSnapshotAdminDn       (FusionDirectory - Snaphost admin dn)
- 1.3.6.1.4.1.38414.8.17.4
fdPersonalTitleInDN     (FusionDirectory - Personal title in dn)
- 1.3.6.1.4.1.38414.8.12.5
gotoXMouseport           (Goto - Gonicus Terminal Concept, value
xMouseport.)            - 1.3.6.1.4.1.10098.1.1.1.22
gotoAdaptPath             (Goto - Gonicus Terminal Concept, value
adaptpath.)              - 1.3.6.1.4.1.10098.1.1.1.33
goFonCountryCode         (Store country code)
- 1.3.6.1.4.1.10098.1.1.9.29
gotoSndModule             (Goto - Gonicus Terminal Concept, value
sound Modules.)          - 1.3.6.1.4.1.10098.1.1.1.29
gotoXKbLayout              (Goto - Gonicus Terminal Concept, value
xKbLayout.)              - 1.3.6.1.4.1.10098.1.1.1.26
gotoProfileFlags           (Goto - Flags for Profile handling - C is
for caching)              - 1.3.6.1.4.1.10098.1.1.11.7
ghSoundAdapter             (Hardware definitions, value soundAdapter)
- 1.3.6.1.4.1.10098.1.1.2.7
gotoScannerModel           (Goto - Gonicus Terminal Concept, value
scannerModel.)            - 1.3.6.1.4.1.10098.1.1.1.40
gotoScannerEnable           (Goto - Gonicus Terminal Concept, value
scannerEnable.)            - 1.3.6.1.4.1.10098.1.1.1.10
gosSubtreeACL                (G0sa - ACL entry)
- 1.3.6.1.4.1.10098.1.1.12.1
ghUsbSupport                 (Hardware definitions, value usbSupport)
- 1.3.6.1.4.1.10098.1.1.2.3
gotoLpdEnable                 (Goto - Gonicus Terminal Concept, value
lpdEnable.)                - 1.3.6.1.4.1.10098.1.1.1.9
gotoProfileQuota              (Goto - save quota for home)
- 1.3.6.1.4.1.10098.1.1.11.15
gotoScannerBackend             (Goto - Gonicus Terminal Concept, value
scannerBackend.)             - 1.3.6.1.4.1.10098.1.1.1.39
goSyslogSection                 (What sections wants the server for its
syslog service? i.e. *.*)
- 1.3.6.1.4.1.10098.1.1.9.9
fdAccountRDN                  (FusionDirectory - use a placeholder pattern
for generating account RDNs)   - 1.3.6.1.4.1.38414.8.12.2
goFaxAdmin                     (Admin principal for fax server)
- 1.3.6.1.4.1.10098.1.1.9.22

```

goLogDriver	(FD logging MDB2 driver name)
- 1.3.6.1.4.1.10098.1.1.9.84	
ghNetNic	(Hardware definitions, value Network Device)
- 1.3.6.1.4.1.10098.1.1.2.8	
academicTitle	(Field to represent the academic title)
- 1.3.6.1.4.1.10098.1.1.6.2	
fdPhoneMacroRDN	(FusionDirectory - Phone macro RDN)
- 1.3.6.1.4.1.38414.19.10.2	
gosaLoginRestriction	(G0sa - Multivalue attribute to carry a number of allowed ips/subnets)
- 1.3.6.1.4.1.10098.1.1.12.46	
gotoLpdServer	(G0to - Gonics Terminal Concept, value lpdServer.)
- 1.3.6.1.4.1.10098.1.1.1.4	
ghCpuType	(Hardware definitions, value cpuType)
- 1.3.6.1.4.1.10098.1.1.2.1	
gotoXMonitor	(G0to - Gonics Terminal Concept, value xMonitor.)
- 1.3.6.1.4.1.10098.1.1.1.17	
fdRfc2307bis	(FusionDirectory - rfc2307bis)
- 1.3.6.1.4.1.38414.8.10.1	
gotoXVsync	(G0to - Gonics Terminal Concept, value xVsync.)
- 1.3.6.1.4.1.10098.1.1.1.19	
fdSipContexts	(FusionDirectory - available sip contexts)
- 1.3.6.1.4.1.38414.19.11.1	
gotoShare	(G0to - specifies a share)
- 1.3.6.1.4.1.10098.1.1.11.9	
fdCopyPaste	(FusionDirectory - (de)Activate copy/paste)
- 1.3.6.1.4.1.38414.8.14.5	
goLogPassword	(Admin password for log server)
- 1.3.6.1.4.1.10098.1.1.9.25	
gotoCdromEnable	(G0to - Gonics Terminal Concept, value cdromEnable.)
- 1.3.6.1.4.1.10098.1.1.1.8	
gotoProfileServer	(G0to - specifies the profile server)
- 1.3.6.1.4.1.10098.1.1.11.8	
fdSnapshotAdminPassword	(FusionDirectory - Snapshot admin password)
- 1.3.6.1.4.1.38414.8.17.5	
ghMemSize	(Hardware definitions, value memSize)
- 1.3.6.1.4.1.10098.1.1.2.2	
fdSnapshotURI	(FusionDirectory - Snapshot URI)
- 1.3.6.1.4.1.38414.8.17.3	
gotoAutoFs	(G0to - Gonics Terminal Concept, value autofs.)
- 1.3.6.1.4.1.10098.1.1.1.31	
goFonAreaCode	(Store area code)
- 1.3.6.1.4.1.10098.1.1.9.28	
ghInventoryNumber	(Unique number for inclusion in an inventory)
- 1.3.6.1.4.1.10098.1.1.2.10	
fdPhoneConferenceRDN	(FusionDirectory - Phone conference RDN)
- 1.3.6.1.4.1.38414.19.10.3	
gotoXMouseType	(Hardware definitions, value Type of mouse)
- 1.3.6.1.4.1.10098.1.1.1.34	
fdPrimaryGroupFilter	(FusionDirectory - Primary group filter)
- 1.3.6.1.4.1.38414.8.14.1	
gotoXHsync	(G0to - Gonics Terminal Concept, value

```

xHsync.)           - 1.3.6.1.4.1.10098.1.1.1.18
gosaDefaultLanguage      (G0sa - Defines the default language for a
user)            - 1.3.6.1.4.1.10098.1.1.12.14
ghIdeDev          (Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4
gotoXKbVariant    (G0to - Gonius Terminal Concept, value
xKbvariant.)     - 1.3.6.1.4.1.10098.1.1.1.27
gotoModules        (G0to - Gonius Terminal Concept, value
kernel modules.) - 1.3.6.1.4.1.10098.1.1.1.32
gotoXMouseButtons (G0to - Gonius Terminal Concept, value
xMouseButtons.)  - 1.3.6.1.4.1.10098.1.1.1.23
fdIdGenerator     (FusionDirectory - An automatic way to
generate new user ids) - 1.3.6.1.4.1.38414.8.12.4
fdVoicemailContexts (FusionDirectory - available voicemail
contexts)        - 1.3.6.1.4.1.38414.19.11.2
ghScsiDev         (Hardware definitions, value scsiDev)
- 1.3.6.1.4.1.10098.1.1.2.5
goFonAdmin        (Admin user for fon server)
- 1.3.6.1.4.1.10098.1.1.9.26
ghGfxAdapter     (Hardware definitions, value Grafikkarte)
- 1.3.6.1.4.1.10098.1.1.2.9
fdPasswordHook   (FusionDirectory - Password hook (external
command))       - 1.3.6.1.4.1.38414.8.13.4
gotoXKbModel     (G0to - Gonius Terminal Concept, value
xKbmodel.)       - 1.3.6.1.4.1.10098.1.1.1.25
gotoRootPasswd   (G0to - Gonius Terminal Concept, value
rootPasswd.)    - 1.3.6.1.4.1.10098.1.1.1.14
goLogDB          (G0sa logging DB name)
- 1.3.6.1.4.1.10098.1.1.9.83
goLogAdmin        (Admin user for log server)
- 1.3.6.1.4.1.10098.1.1.9.24
gotoXResolution  (G0to - Gonius Terminal Concept, value
xResolution.)   - 1.3.6.1.4.1.10098.1.1.1.20
gotoScannerClients (G0to - Gonius Terminal Concept, value
scannerClients.) - 1.3.6.1.4.1.10098.1.1.1.11
gotoFontPath     (G0to - Gonius Terminal Concept, value
fontPath.)       - 1.3.6.1.4.1.10098.1.1.1.5
goFonPassword    (Admin password for fon server)
- 1.3.6.1.4.1.10098.1.1.9.27
Deprecated objectClasses:
goNfsServer      (NFS server description)
- 1.3.6.1.4.1.10098.1.2.1.19
goCupsServer     (CUPS server description)
- 1.3.6.1.4.1.10098.1.2.1.23
gosaCacheEntry   (G0sa - Class for G0sa caching)
- 1.3.6.1.4.1.10098.1.2.1.19.3
gosaObject       (G0sa - Class for G0sa settings)
- 1.3.6.1.4.1.10098.1.2.1.19.1
goFaxServer      (Fax server description)
- 1.3.6.1.4.1.10098.1.2.1.26
goFonServer      (Fon server description)

```

- 1.3.6.1.4.1.10098.1.2.1.29
gosaUserTemplate (G0sa - Class for G0sa User Templates)
- 1.3.6.1.4.1.10098.1.2.1.19.11
gosaAccount (G0sa - Class for G0sa Accounts)
- 1.3.6.1.4.1.10098.1.2.1.19.6
goLogDBServer (Log DB server description)
- 1.3.6.1.4.1.10098.1.2.1.28
goSyslogServer (Syslog server description)
- 1.3.6.1.4.1.10098.1.2.1.21
goNtpServer (Time server description)
- 1.3.6.1.4.1.10098.1.2.1.20

The **check-deprecated** option will output a list of dn using old attributes and objectClasses of they are present in your ldap server

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

The **ldif-deprecated** option will output an ldif file on the console that you can use with ldapmodify to clean you ldap server from old attributes.

```
fusiondirectory-setup --ldif-deprecated > remove_deprecated.ldif
```

If they are old objectClasses it will warn you and you will have to remove them by hand, they have been specified at the **check-deprecated** step.

Please read it carefully before applying 

From:
<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.12



Last update: 2016/05/09 08:58

Migrate FusionDirectory from 1.0.12 to 1.0.13

Ubuntu 12.0.4 TLS users

⚠ Since 1.0.9.2 FusionDirectory need the php-cas library for CAS server support. This library can normally found in universe in the Ubuntu repositories.

In case you did not find it, grab the deb from here and install it

<http://packages.ubuntu.com/trusty/all/php-cas/download>

and select your preferred mirror

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Upgrade of LDAP directory

if your are using the alias plugin you have to update its schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/alias-fd.schema
```

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema** and **asterisk-fd.conf** if they still exist

Check for deprecated attributes and objectClasses in your LDAP

The **list-deprecated** option of **fusiondirectory-setup** show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated
```

List deprecated attributes and objectclasses

Deprecated attributes:

gotoFilesystem (Goto - Gonius Terminal Concept, value
 filesystem.) - 1.3.6.1.4.1.10098.1.1.1.6
 gotoFloppyEnable (Goto - Gonius Terminal Concept, value
 floppyEnable.) - 1.3.6.1.4.1.10098.1.1.1.7
 gotoSysStatus (Keeps current system status - info shown in
 G0sa) - 1.3.6.1.4.1.10098.1.1.2.11
 gotoXColordepth (Goto - Gonius Terminal Concept, value
 xColordepth.) - 1.3.6.1.4.1.10098.1.1.1.21
 gotoHardwareChecksum (Goto - quick way to see if something has
 changed) - 1.3.6.1.4.1.10098.1.1.2.12
 goFaxPassword (Admin password for fax server)
 - 1.3.6.1.4.1.10098.1.1.9.23
 gotoNtpServer (Goto - Gonius Terminal Concept, value
 ntpServer.) - 1.3.6.1.4.1.10098.1.1.1.2
 gotoXDriver (Goto - Gonius Terminal Concept, value
 xDriver.) - 1.3.6.1.4.1.10098.1.1.1.28
 fdSnapshotAdminDn (FusionDirectory - Snapshot admin dn)
 - 1.3.6.1.4.1.38414.8.17.4
 fdPersonalTitleInDN (FusionDirectory - Personal title in dn)
 - 1.3.6.1.4.1.38414.8.12.5
 gotoXMouseport (Goto - Gonius Terminal Concept, value
 xMouseport.) - 1.3.6.1.4.1.10098.1.1.1.22
 gotoAdaptPath (Goto - Gonius Terminal Concept, value
 adaptPath.) - 1.3.6.1.4.1.10098.1.1.1.33
 goFonCountryCode (Store country code)
 - 1.3.6.1.4.1.10098.1.1.9.29
 gotoSndModule (Goto - Gonius Terminal Concept, value
 sound Modules.) - 1.3.6.1.4.1.10098.1.1.1.29
 gotoXKbLayout (Goto - Gonius Terminal Concept, value
 xKbLayout.) - 1.3.6.1.4.1.10098.1.1.1.26
 gotoProfileFlags (Goto - Flags for Profile handling - C is
 for caching) - 1.3.6.1.4.1.10098.1.1.11.7
 ghSoundAdapter (Hardware definitions, value soundAdapter)
 - 1.3.6.1.4.1.10098.1.1.2.7
 gotoScannerModel (Goto - Gonius Terminal Concept, value
 scannerModel.) - 1.3.6.1.4.1.10098.1.1.1.40
 gotoScannerEnable (Goto - Gonius Terminal Concept, value
 scannerEnable.) - 1.3.6.1.4.1.10098.1.1.1.10
 gosaSubtreeACL (G0sa - ACL entry)
 - 1.3.6.1.4.1.10098.1.1.12.1
 ghUsbSupport (Hardware definitions, value usbSupport)
 - 1.3.6.1.4.1.10098.1.1.2.3
 gotoLpdEnable (Goto - Gonius Terminal Concept, value
 lpdEnable.) - 1.3.6.1.4.1.10098.1.1.1.9
 gotoProfileQuota (Goto - save quota for home)
 - 1.3.6.1.4.1.10098.1.1.11.15
 gotoScannerBackend (Goto - Gonius Terminal Concept, value
 scannerBackend.) - 1.3.6.1.4.1.10098.1.1.1.39
 goSyslogSection (What sections wants the server for its

```

syslog service? i.e. *.*)
  fdAccountRDN
for generating account RDNs)
  goFaxAdmin
- 1.3.6.1.4.1.10098.1.1.9.22
  goLogDriver
- 1.3.6.1.4.1.10098.1.1.9.84
  ghNetNic
- 1.3.6.1.4.1.10098.1.1.2.8
  academicTitle
- 1.3.6.1.4.1.10098.1.1.6.2
  fdPhoneMacroRDN
- 1.3.6.1.4.1.38414.19.10.2
  gosaLoginRestriction
number of allowed ips/subnets)
  gotoLpdServer
lpdServer.)           - 1.3.6.1.4.1.10098.1.1.1.4
  ghCpuType
- 1.3.6.1.4.1.10098.1.1.2.1
  gotoXMonitor
xMonitor.)           - 1.3.6.1.4.1.10098.1.1.1.17
  fdRfc2307bis
- 1.3.6.1.4.1.38414.8.10.1
  gotoXVsync
xVsync.)             - 1.3.6.1.4.1.10098.1.1.1.19
  fdSipContexts
- 1.3.6.1.4.1.38414.19.11.1
  gotoShare
- 1.3.6.1.4.1.10098.1.1.11.9
  fdCopyPaste
- 1.3.6.1.4.1.38414.8.14.5
  goLogPassword
- 1.3.6.1.4.1.10098.1.1.9.25
  gotoCdromEnable
cdromEnable.)         - 1.3.6.1.4.1.10098.1.1.1.8
  gotoProfileServer
- 1.3.6.1.4.1.10098.1.1.11.8
  fdSnapshotAdminPassword
- 1.3.6.1.4.1.38414.8.17.5
  ghMemSize
- 1.3.6.1.4.1.10098.1.1.2.2
  fdSnapshotURI
- 1.3.6.1.4.1.38414.8.17.3
  gotoAutoFs
autofs.)              - 1.3.6.1.4.1.10098.1.1.1.31
  goFonAreaCode
- 1.3.6.1.4.1.10098.1.1.9.28
  ghInventoryNumber
inventory)            - 1.3.6.1.4.1.10098.1.1.2.10
  fdPhoneConferenceRDN
- 1.3.6.1.4.1.38414.19.10.3

```

gotoXMouseType	(Hardware definitions, value Type of mouse)
- 1.3.6.1.4.1.10098.1.1.1.34	
fdPrimaryGroupFilter	(FusionDirectory - Primary group filter)
- 1.3.6.1.4.1.38414.8.14.1	
gotoXHsync	(Goto - Gonius Terminal Concept, value xHsync.)
- 1.3.6.1.4.1.10098.1.1.1.18	
gosaDefaultLanguage	(Gosa - Defines the default language for a user)
- 1.3.6.1.4.1.10098.1.1.12.14	
ghIdeDev	(Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4	
gotoXKbVariant	(Goto - Gonius Terminal Concept, value xKbvariant.)
- 1.3.6.1.4.1.10098.1.1.1.27	
gotoModules	(Goto - Gonius Terminal Concept, value kernel modules.)
- 1.3.6.1.4.1.10098.1.1.1.32	
gotoXMouseButtons	(Goto - Gonius Terminal Concept, value xMouseButtons.)
- 1.3.6.1.4.1.10098.1.1.1.23	
fdIdGenerator	(FusionDirectory - An automatic way to generate new user ids)
- 1.3.6.1.4.1.38414.8.12.4	
fdVoicemailContexts	(FusionDirectory - available voicemail contexts)
- 1.3.6.1.4.1.38414.19.11.2	
ghScsiDev	(Hardware definitions, value scsiDev)
- 1.3.6.1.4.1.10098.1.1.2.5	
goFonAdmin	(Admin user for fon server)
- 1.3.6.1.4.1.10098.1.1.9.26	
ghGfxAdapter	(Hardware definitions, value Grafikkarte)
- 1.3.6.1.4.1.10098.1.1.2.9	
fdPasswordHook	(FusionDirectory - Password hook (external command))
- 1.3.6.1.4.1.38414.8.13.4	
gotoXKbModel	(Goto - Gonius Terminal Concept, value xKbmodel.)
- 1.3.6.1.4.1.10098.1.1.1.25	
gotoRootPasswd	(Goto - Gonius Terminal Concept, value rootPasswd.)
- 1.3.6.1.4.1.10098.1.1.1.14	
goLogDB	(Gosa logging DB name)
- 1.3.6.1.4.1.10098.1.1.9.83	
goLogAdmin	(Admin user for log server)
- 1.3.6.1.4.1.10098.1.1.9.24	
gotoXResolution	(Goto - Gonius Terminal Concept, value xResolution.)
- 1.3.6.1.4.1.10098.1.1.1.20	
gotoScannerClients	(Goto - Gonius Terminal Concept, value scannerClients.)
- 1.3.6.1.4.1.10098.1.1.1.11	
gotoFontPath	(Goto - Gonius Terminal Concept, value fontPath.)
- 1.3.6.1.4.1.10098.1.1.1.5	
goFonPassword	(Admin password for fon server)
- 1.3.6.1.4.1.10098.1.1.9.27	
Deprecated objectClasses:	
goNfsServer	(NFS server description)
- 1.3.6.1.4.1.10098.1.2.1.19	
goCupsServer	(CUPS server description)
- 1.3.6.1.4.1.10098.1.2.1.23	
gosaCacheEntry	(Gosa - Class for Gosa caching)
- 1.3.6.1.4.1.10098.1.2.1.19.3	

gosaObject	(G0sa - Class for G0sa settings)
- 1.3.6.1.4.1.10098.1.2.1.19.1	
goFaxServer	(Fax server description)
- 1.3.6.1.4.1.10098.1.2.1.26	
goFonServer	(Fon server description)
- 1.3.6.1.4.1.10098.1.2.1.29	
gosaUserTemplate	(G0sa - Class for G0sa User Templates)
- 1.3.6.1.4.1.10098.1.2.1.19.11	
gosaAccount	(G0sa - Class for G0sa Accounts)
- 1.3.6.1.4.1.10098.1.2.1.19.6	
goLogDBServer	(Log DB server description)
- 1.3.6.1.4.1.10098.1.2.1.28	
goSyslogServer	(Syslog server description)
- 1.3.6.1.4.1.10098.1.2.1.21	
goNtpServer	(Time server description)
- 1.3.6.1.4.1.10098.1.2.1.20	

The **check-deprecated** option will output a list of dn using old attributes and objectClasses of they are present in your ldap server

```
fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes
```

The **ldif-deprecated** option will output an ldif file on the console that you can use with ldapmodify to clean you ldap server from old attributes.

```
fusiondirectory-setup --ldif-deprecated > remove_deprecated.ldif
```

If they are old objectClasses it will warn you and you will have to remove them by hand, they have been specified at the **check-deprecated** step.

Please read it carefully before applying !!!

From:
<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:
https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.13

Last update: 2016/06/09 15:03



Migrate FusionDirectory from 1.0.13 to 1.0.14

Ubuntu 12.0.4 TLS users

⚠ Since 1.0.9.2 FusionDirectory need the php-cas library for CAS server support. This library can normally found in universe in the Ubuntu repositories.

In case you did not find it, grab the deb from here and install it

<http://packages.ubuntu.com/trusty/all/php-cas/download>

and select your preferred mirror

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Plugin deprecated

The game plugin as been removed in this version

Upgrade of LDAP directory

if your are using the community plugin you have to update its schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/community-fd.schema
```

if your are using the systems plugin you have to update its schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/systems-fd.schema
```

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema** and **asterisk-fd.conf** if they still exist

Check for deprecated attributes and objectClasses in your LDAP

The **list-deprecated** option of **fusiondirectory-setup** show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gotoFilesystem          (Goto - Gonicus Terminal Concept, value
filesystem.)           - 1.3.6.1.4.1.10098.1.1.1.6
  gotoFloppyEnable        (Goto - Gonicus Terminal Concept, value
floppyEnable.)          - 1.3.6.1.4.1.10098.1.1.1.7
  gotoSysStatus           (Keeps current system status - info shown in
G0sa)                  - 1.3.6.1.4.1.10098.1.1.2.11
  gotoXColordepth         (Goto - Gonicus Terminal Concept, value
xColordepth.)           - 1.3.6.1.4.1.10098.1.1.1.21
  gotoHardwareChecksum    (Goto - quick way to see if something has
changed)               - 1.3.6.1.4.1.10098.1.1.2.12
  goFaxPassword           (Admin password for fax server)
- 1.3.6.1.4.1.10098.1.1.9.23
  gotoNtpServer           (Goto - Gonicus Terminal Concept, value
ntpServer.)             - 1.3.6.1.4.1.10098.1.1.1.2
  gotoXDriver              (Goto - Gonicus Terminal Concept, value
xDriver.)               - 1.3.6.1.4.1.10098.1.1.1.28
  fdSnapshotAdminDn       (FusionDirectory - Snapshot admin dn)
- 1.3.6.1.4.1.38414.8.17.4
  fdPersonalTitleInDN     (FusionDirectory - Personal title in dn)
- 1.3.6.1.4.1.38414.8.12.5
  gotoXMouseport          (Goto - Gonicus Terminal Concept, value
xMouseport.)            - 1.3.6.1.4.1.10098.1.1.1.22
  gotoAdaptPath            (Goto - Gonicus Terminal Concept, value
adaptpath.)              - 1.3.6.1.4.1.10098.1.1.1.33
  goFonCountryCode         (Store country code)
- 1.3.6.1.4.1.10098.1.1.9.29
  gotoSndModule            (Goto - Gonicus Terminal Concept, value
sound Modules.)          - 1.3.6.1.4.1.10098.1.1.1.29
  gotoXKbLayout             (Goto - Gonicus Terminal Concept, value
xKbLayout.)              - 1.3.6.1.4.1.10098.1.1.1.26
  gotoProfileFlags          (Goto - Flags for Profile handling - C is
for caching)              - 1.3.6.1.4.1.10098.1.1.11.7
  ghSoundAdapter            (Hardware definitions, value soundAdapter)
- 1.3.6.1.4.1.10098.1.1.2.7
  gotoScannerModel          (Goto - Gonicus Terminal Concept, value
scannerModel.)            - 1.3.6.1.4.1.10098.1.1.1.40
  gotoScannerEnable          (Goto - Gonicus Terminal Concept, value
scannerEnable.)            - 1.3.6.1.4.1.10098.1.1.1.10
  gosaSubtreeACL             (G0sa - ACL entry)
```

- 1.3.6.1.4.1.10098.1.1.12.1	
ghUsbSupport	(Hardware definitions, value usbSupport)
- 1.3.6.1.4.1.10098.1.1.2.3	
gotoLpdEnable	(Goto - Gonicus Terminal Concept, value lpdEnable.)
- 1.3.6.1.4.1.10098.1.1.1.9	
gotoProfileQuota	(Goto - save quota for home)
- 1.3.6.1.4.1.10098.1.1.11.15	
gotoScannerBackend	(Goto - Gonicus Terminal Concept, value scannerBackend.)
- 1.3.6.1.4.1.10098.1.1.1.39	
goSyslogSection	(What sections wants the server for its syslog service? i.e. *.*)
- 1.3.6.1.4.1.10098.1.1.9.9	
fdAccountRDN	(FusionDirectory - use a placeholder pattern
- 1.3.6.1.4.1.38414.8.12.2	
for generating account RDNs)	
goFaxAdmin	(Admin principal for fax server)
- 1.3.6.1.4.1.10098.1.1.9.22	
goLogDriver	(FD logging MDB2 driver name)
- 1.3.6.1.4.1.10098.1.1.9.84	
ghNetNic	(Hardware definitions, value Network Device)
- 1.3.6.1.4.1.10098.1.1.2.8	
academicTitle	(Field to represent the academic title)
- 1.3.6.1.4.1.10098.1.1.6.2	
fdPhoneMacroRDN	(FusionDirectory - Phone macro RDN)
- 1.3.6.1.4.1.38414.19.10.2	
gosaLoginRestriction	(Gosa - Multivalue attribute to carry a
number of allowed ips/subnets)	
- 1.3.6.1.4.1.10098.1.1.12.46	
gotoLpdServer	(Goto - Gonicus Terminal Concept, value lpdServer.)
- 1.3.6.1.4.1.10098.1.1.1.4	
ghCpuType	(Hardware definitions, value cpuType)
- 1.3.6.1.4.1.10098.1.1.2.1	
gotoXMonitor	(Goto - Gonicus Terminal Concept, value xMonitor.)
- 1.3.6.1.4.1.10098.1.1.1.17	
fdRfc2307bis	(FusionDirectory - rfc2307bis)
- 1.3.6.1.4.1.38414.8.10.1	
gotoXVsync	(Goto - Gonicus Terminal Concept, value xvSync.)
- 1.3.6.1.4.1.10098.1.1.1.19	
fdSipContexts	(FusionDirectory - available sip contexts)
- 1.3.6.1.4.1.38414.19.11.1	
gotoShare	(Goto - specifies a share)
- 1.3.6.1.4.1.10098.1.1.11.9	
fdCopyPaste	(FusionDirectory - (de)Activate copy/paste)
- 1.3.6.1.4.1.38414.8.14.5	
goLogPassword	(Admin password for log server)
- 1.3.6.1.4.1.10098.1.1.9.25	
gotoCdromEnable	(Goto - Gonicus Terminal Concept, value cdromEnable.)
- 1.3.6.1.4.1.10098.1.1.1.8	
gotoProfileServer	(Goto - specifies the profile server)
- 1.3.6.1.4.1.10098.1.1.11.8	
fdSnapshotAdminPassword	(FusionDirectory - Snapshot admin password)
- 1.3.6.1.4.1.38414.8.17.5	
ghMemSize	(Hardware definitions, value memSize)
- 1.3.6.1.4.1.10098.1.1.2.2	

fdSnapshotURI	(FusionDirectory - Snapshot URI)
- 1.3.6.1.4.1.38414.8.17.3	
gotoAutoFs	(Goto - Gonicus Terminal Concept, value)
autofs.)	- 1.3.6.1.4.1.10098.1.1.1.31
goFonAreaCode	(Store area code)
- 1.3.6.1.4.1.10098.1.1.9.28	
ghInventoryNumber	(Unique number for inclusion in an inventory)
	- 1.3.6.1.4.1.10098.1.1.2.10
fdPhoneConferenceRDN	(FusionDirectory - Phone conference RDN)
- 1.3.6.1.4.1.38414.19.10.3	
gotoXMouseType	(Hardware definitions, value Type of mouse)
- 1.3.6.1.4.1.10098.1.1.1.34	
fdPrimaryGroupFilter	(FusionDirectory - Primary group filter)
- 1.3.6.1.4.1.38414.8.14.1	
gotoXHsync	(Goto - Gonicus Terminal Concept, value)
xHsync.)	- 1.3.6.1.4.1.10098.1.1.1.18
gosaDefaultLanguage	(Gosa - Defines the default language for a user)
	- 1.3.6.1.4.1.10098.1.1.12.14
ghIdeDev	(Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4	
gotoXKbVariant	(Goto - Gonicus Terminal Concept, value)
xKbvariant.)	- 1.3.6.1.4.1.10098.1.1.1.27
gotoModules	(Goto - Gonicus Terminal Concept, value)
kernel modules.)	- 1.3.6.1.4.1.10098.1.1.1.32
gotoXMouseButtons	(Goto - Gonicus Terminal Concept, value)
xMouseButtons.)	- 1.3.6.1.4.1.10098.1.1.1.23
fdIdGenerator	(FusionDirectory - An automatic way to generate new user ids)
	- 1.3.6.1.4.1.38414.8.12.4
fdVoicemailContexts	(FusionDirectory - available voicemail contexts)
	- 1.3.6.1.4.1.38414.19.11.2
ghScsiDev	(Hardware definitions, value scsiDev)
- 1.3.6.1.4.1.10098.1.1.2.5	
goFonAdmin	(Admin user for fon server)
- 1.3.6.1.4.1.10098.1.1.9.26	
ghGfxAdapter	(Hardware definitions, value Grafikkarte)
- 1.3.6.1.4.1.10098.1.1.2.9	
fdPasswordHook	(FusionDirectory - Password hook (external command))
	- 1.3.6.1.4.1.38414.8.13.4
gotoXKbModel	(Goto - Gonicus Terminal Concept, value)
xKbmodel.)	- 1.3.6.1.4.1.10098.1.1.1.25
gotoRootPasswd	(Goto - Gonicus Terminal Concept, value)
rootPasswd.)	- 1.3.6.1.4.1.10098.1.1.1.14
goLogDB	(Gosa logging DB name)
- 1.3.6.1.4.1.10098.1.1.9.83	
goLogAdmin	(Admin user for log server)
- 1.3.6.1.4.1.10098.1.1.9.24	
gotoXResolution	(Goto - Gonicus Terminal Concept, value)
xResolution.)	- 1.3.6.1.4.1.10098.1.1.1.20
gotoScannerClients	(Goto - Gonicus Terminal Concept, value)
scannerClients.)	- 1.3.6.1.4.1.10098.1.1.1.11
gotoFontPath	(Goto - Gonicus Terminal Concept, value)

```

fontPath.) - 1.3.6.1.4.1.10098.1.1.1.5
goFonPassword (Admin password for fon server)
- 1.3.6.1.4.1.10098.1.1.9.27
Deprecated objectClasses:
goNfsServer (NFS server description)
- 1.3.6.1.4.1.10098.1.2.1.19
goCupsServer (CUPS server description)
- 1.3.6.1.4.1.10098.1.2.1.23
gosaCacheEntry (G0sa - Class for G0sa caching)
- 1.3.6.1.4.1.10098.1.2.1.19.3
gosaObject (G0sa - Class for G0sa settings)
- 1.3.6.1.4.1.10098.1.2.1.19.1
goFaxServer (Fax server description)
- 1.3.6.1.4.1.10098.1.2.1.26
goFonServer (Fon server description)
- 1.3.6.1.4.1.10098.1.2.1.29
gosaUserTemplate (G0sa - Class for G0sa User Templates)
- 1.3.6.1.4.1.10098.1.2.1.19.11
gosaAccount (G0sa - Class for G0sa Accounts)
- 1.3.6.1.4.1.10098.1.2.1.19.6
goLogDBServer (Log DB server description)
- 1.3.6.1.4.1.10098.1.2.1.28
goSyslogServer (Syslog server description)
- 1.3.6.1.4.1.10098.1.2.1.21
goNtpServer (Time server description)
- 1.3.6.1.4.1.10098.1.2.1.20

```

The **check-deprecated** option will output a list of dn using old attributes and objectClasses of they are present in your ldap server

```

fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes

```

The **ldif-deprecated** option will output an ldif file on the console that you can use with ldapmodify to clean your ldap server from old attributes.

```
fusiondirectory-setup --ldif-deprecated > remove_deprecated.ldif
```

If they are old objectClasses it will warn you and you will have to remove them by hand, they have been specified at the **check-deprecated** step.

Please read it carefully before applying 

New Breezy Theme

In this version by default there is a new more modern theme called breezy. To active it completely go to the configuration plugin, click edit and in the "Look and feel" section select breezy

Enjoy :)

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.14

Last update: **2016/07/09 17:15**



Migrate FusionDirectory from 1.0.14 to 1.0.15

Ubuntu 12.0.4 TLS users

⚠ Since 1.0.9.2 FusionDirectory need the php-cas library for CAS server support. This library can normally found in universe in the Ubuntu repositories.

In case you did not find it, grab the deb from here and install it

<http://packages.ubuntu.com/trusty/all/php-cas/download>

and select your preferred mirror

Upgrade FusionDirectory first

Upgrade FusionDirectory core package before other ones to avoid dependencies errors:

```
apt-get install fusiondirectory
```

Upgrade FusionDirectory schema package too.

```
apt-get install fusiondirectory-schema
```

Plugin deprecated

The apache2 plugin as been removed in this version

```
apt-get remove fusiondirectory-plugin-apache2
```

```
apt-get remove fusiondirectory-plugin-apache2-schema
```

After removing you apache2 data from the LDAP, you may empty the schema

```
fusiondirectory-insert-schema -e mod_vhost_ldap
```

Upgrade of LDAP directory

Upgrade the core template schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd-conf.schema
```

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/core-fd.schema
```

if you are using the systems plugin you have to update its schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/systems-fd.schema
```

if you are using the personal plugin you have to update its schema

```
fusiondirectory-insert-schema -m /etc/ldap/schema/fusiondirectory/personal-fd.schema
```

Remove old schema from /etc/ldap/schema/fusiondirectory

The old schema are not automatically removed from /etc/ldap/schema/fusiondirectory. You can safely remove **recovery-fd.schema** and **asterisk-fd.conf** if they still exist

Check for deprecated attributes and objectClasses in your LDAP

The **list-deprecated** option of **fusiondirectory-setup** show deprecated attributes and objectClasses for FusionDirectory

```
fusiondirectory-setup --list-deprecated
List deprecated attributes and objectclasses
Deprecated attributes:
  gotoXKbVariant          (Goto - Gonicus Terminal Concept, value
  xKbvariant.)             - 1.3.6.1.4.1.10098.1.1.1.27
  ghGfxAdapter            (Hardware definitions, value Grafikkarte)
  - 1.3.6.1.4.1.10098.1.1.2.9
  gotoModules              (Goto - Gonicus Terminal Concept, value
  kernel modules.)         - 1.3.6.1.4.1.10098.1.1.1.32
  gotoHardwareChecksum     (Goto - quick way to see if something has
  changed)                - 1.3.6.1.4.1.10098.1.1.2.12
  gotoPrinterPPD           (Goto - Gonicus Terminal Concept, PPD data)
  - 1.3.6.1.4.1.10098.1.1.11.6
  fdAsteriskDriver         (Driver used for asterisk DB)
  - 1.3.6.1.4.1.10098.1.1.9.30
  fdRfc2307bis             (FusionDirectory - rfc2307bis)
  - 1.3.6.1.4.1.38414.8.10.1
  goFonAreaCode             (Store area code)
  - 1.3.6.1.4.1.10098.1.1.9.28
  gotoGroupAdminPrinter    (Goto - keeps printers we are admin for)
  - 1.3.6.1.4.1.10098.1.1.11.17
  gotoXVsync                (Goto - Gonicus Terminal Concept, value
  xVsync.)                  - 1.3.6.1.4.1.10098.1.1.1.19
  printerWindowsDriverName   (Windows name of the printer driver)
  - 1.3.6.1.4.1.38414.6.10.3
```

printerWindowsDriverDir drivers for this printer)	(Path to directory that contains windows - 1.3.6.1.4.1.38414.6.10.2 fdSipContexts	(FusionDirectory - available sip contexts)
- 1.3.6.1.4.1.38414.19.11.1 fdPhoneConferenceRDN	(FusionDirectory - Phone conference RDN)	
- 1.3.6.1.4.1.38414.19.10.3 goFonPassword	(Admin password for fon server)	
- 1.3.6.1.4.1.10098.1.1.9.27 fdSnapshotURI	(FusionDirectory - Snapshot URI)	
- 1.3.6.1.4.1.38414.8.17.3 fdSnapshotAdminPassword	(FusionDirectory - Snapshot admin password)	
- 1.3.6.1.4.1.38414.8.17.5 gotoAdaptPath adaptpath.)	(Goto - Gonicus Terminal Concept, value - 1.3.6.1.4.1.10098.1.1.1.33 ghMemSize	(Hardware definitions, value memSize)
- 1.3.6.1.4.1.10098.1.1.2.2 gotoCdromEnable cdromEnable.)	(Goto - Gonicus Terminal Concept, value - 1.3.6.1.4.1.10098.1.1.1.8 ghInventoryNumber inventory)	(Unique number for inclusion in an - 1.3.6.1.4.1.10098.1.1.2.10
avArchiveMaxRecursion	(Maximum number of archive nestings)	
- 1.3.6.1.4.1.10098.1.1.9.73 goLogAdmin	(Admin user for log server)	
- 1.3.6.1.4.1.10098.1.1.9.24 gotoXMouseport xMouseport.)	(Goto - Gonicus Terminal Concept, value - 1.3.6.1.4.1.10098.1.1.1.22 gotoXMouseButtons xMouseButtons.)	(Goto - Gonicus Terminal Concept, value - 1.3.6.1.4.1.10098.1.1.1.23 gotoXKbLayout xKbLayout.)
fdCopyPaste	(FusionDirectory - (de)Activate copy/paste)	(Goto - Gonicus Terminal Concept, value - 1.3.6.1.4.1.10098.1.1.1.26
- 1.3.6.1.4.1.38414.8.14.5 gotoScannerBackend scannerBackend.)	(Goto - Gonicus Terminal Concept, value - 1.3.6.1.4.1.10098.1.1.1.39 printerWindowsInfFile	(Path to windows inf file for this printer)
- 1.3.6.1.4.1.38414.6.10.1 avArchiveMaxCompressionRatio	(Maximum compression ratio)	
- 1.3.6.1.4.1.10098.1.1.9.74 fdPhoneMacroRDN	(FusionDirectory - Phone macro RDN)	
- 1.3.6.1.4.1.38414.19.10.2 avMaxDirectoryRecursions	(Number of recursions done with directories)	
- 1.3.6.1.4.1.10098.1.1.9.69 gotoUserPrinter	(Goto - keeps printers shown for this user)	
- 1.3.6.1.4.1.10098.1.1.11.12 fdPasswordHook command))	(FusionDirectory - Password hook (external - 1.3.6.1.4.1.38414.8.13.4 gotoXColordepth xColordepth.)	(Goto - Gonicus Terminal Concept, value - 1.3.6.1.4.1.10098.1.1.1.21 gotoXHsync xHsync.)
fdPersonalTitleInDN	(FusionDirectory - Personal title in dn)	(Goto - Gonicus Terminal Concept, value - 1.3.6.1.4.1.10098.1.1.1.18

- 1.3.6.1.4.1.38414.8.12.5
gotoXMouseType (Hardware definitions, value Type of mouse)
- 1.3.6.1.4.1.10098.1.1.1.34
gotoNtpServer (Goto - Gonicus Terminal Concept, value ntpServer.) - 1.3.6.1.4.1.10098.1.1.1.2
goLogDriver (FD logging MDB2 driver name)
- 1.3.6.1.4.1.10098.1.1.9.84
fdPrimaryGroupFilter (FusionDirectory - Primary group filter)
- 1.3.6.1.4.1.38414.8.14.1
ghUsbSupport (Hardware definitions, value usbSupport)
- 1.3.6.1.4.1.10098.1.1.2.3
gotoXKbModel (Goto - Gonicus Terminal Concept, value xKbmodel.) - 1.3.6.1.4.1.10098.1.1.1.25
gotoSysStatus (Keeps current system status - info shown in G0sa) - 1.3.6.1.4.1.10098.1.1.2.11
goLogDB (G0sa logging DB name)
- 1.3.6.1.4.1.10098.1.1.9.83
gotoFloppyEnable (Goto - Gonicus Terminal Concept, value floppyEnable.) - 1.3.6.1.4.1.10098.1.1.1.7
gotoFontPath (Goto - Gonicus Terminal Concept, value fontPath.) - 1.3.6.1.4.1.10098.1.1.1.5
gotoAutoFs (Goto - Gonicus Terminal Concept, value autofs.) - 1.3.6.1.4.1.10098.1.1.1.31
gotoXDriver (Goto - Gonicus Terminal Concept, value xDriver.) - 1.3.6.1.4.1.10098.1.1.1.28
gotoXResolution (Goto - Gonicus Terminal Concept, value xResolution.) - 1.3.6.1.4.1.10098.1.1.1.20
goFonCountryCode (Store country code)
- 1.3.6.1.4.1.10098.1.1.9.29
fdAccountRDN (FusionDirectory - use a placeholder pattern for generating account RDNs) - 1.3.6.1.4.1.38414.8.12.2
avMaxThreads (Number of AV scanning threads)
- 1.3.6.1.4.1.10098.1.1.9.68
gotoScannerModel (Goto - Gonicus Terminal Concept, value scannerModel.) - 1.3.6.1.4.1.10098.1.1.1.40
gotoSndModule (Goto - Gonicus Terminal Concept, value sound Modules.) - 1.3.6.1.4.1.10098.1.1.1.29
gotoLpdEnable (Goto - Gonicus Terminal Concept, value lpdEnable.) - 1.3.6.1.4.1.10098.1.1.1.9
avHttpProxyURL (How to get the updates)
- 1.3.6.1.4.1.10098.1.1.9.76
gotoRootPasswd (Goto - Gonicus Terminal Concept, value rootPasswd.) - 1.3.6.1.4.1.10098.1.1.1.14
goLogPassword (Admin password for log server)
- 1.3.6.1.4.1.10098.1.1.9.25
gotoProfileServer (Goto - specifies the profile server)
- 1.3.6.1.4.1.10098.1.1.11.8
avDatabaseMirror (Where to find updates)
- 1.3.6.1.4.1.10098.1.1.9.75
gotoGroupPrinter (Goto - keeps printers shown for this user)
- 1.3.6.1.4.1.10098.1.1.11.16

fdMailMethod	(FusionDirectory - Mail method)
- 1.3.6.1.4.1.38414.10.10.1	
gotoFilesystem	(Goto - Gonicus Terminal Concept, value filesystem.)
filesystem.)	- 1.3.6.1.4.1.10098.1.1.1.6
ghSoundAdapter	(Hardware definitions, value soundAdapter)
- 1.3.6.1.4.1.10098.1.1.2.7	
avArchiveMaxFileSize	(Maximum archive file size)
- 1.3.6.1.4.1.10098.1.1.9.72	
avChecksPerDay	(Update checks per day)
- 1.3.6.1.4.1.10098.1.1.9.78	
gotoScannerEnable	(Goto - Gonicus Terminal Concept, value scannerEnable.)
scannerEnable.)	- 1.3.6.1.4.1.10098.1.1.1.10
ghScsiDev	(Hardware definitions, value scsiDev)
- 1.3.6.1.4.1.10098.1.1.2.5	
goFaxPassword	(Admin password for fax server)
- 1.3.6.1.4.1.10098.1.1.9.23	
goSyslogSection	(What sections wants the server for its syslog service? i.e. *.*)
syslog service? i.e. *.*)	- 1.3.6.1.4.1.10098.1.1.9.9
gotoLpdServer	(Goto - Gonicus Terminal Concept, value lpdServer.)
lpdServer.)	- 1.3.6.1.4.1.10098.1.1.1.4
avUser	(Username to run antivirus with)
- 1.3.6.1.4.1.10098.1.1.9.70	
gotoProfileQuota	(Goto - save quota for home)
- 1.3.6.1.4.1.10098.1.1.11.15	
fdIdGenerator	(FusionDirectory - An automatic way to generate new user ids)
generate new user ids)	- 1.3.6.1.4.1.38414.8.12.4
avFlags	(Special flags for the antivirus scan engine)
engine)	- 1.3.6.1.4.1.10098.1.1.9.71
gotoScannerClients	(Goto - Gonicus Terminal Concept, value scannerClients.)
scannerClients.)	- 1.3.6.1.4.1.10098.1.1.1.11
gotoXMonitor	(Goto - Gonicus Terminal Concept, value xMonitor.)
xMonitor.)	- 1.3.6.1.4.1.10098.1.1.1.17
ghNetNic	(Hardware definitions, value Network Device)
- 1.3.6.1.4.1.10098.1.1.2.8	
goFonAdmin	(Admin user for fon server)
- 1.3.6.1.4.1.10098.1.1.9.26	
gotoShare	(Goto - specifies a share)
- 1.3.6.1.4.1.10098.1.1.11.9	
ghIdeDev	(Hardware definitions, value ideDev)
- 1.3.6.1.4.1.10098.1.1.2.4	
fdSnapshotAdminDn	(FusionDirectory - Snapshot admin dn)
- 1.3.6.1.4.1.38414.8.17.4	
goFaxAdmin	(Admin principal for fax server)
- 1.3.6.1.4.1.10098.1.1.9.22	
ghCpuType	(Hardware definitions, value cpuType)
- 1.3.6.1.4.1.10098.1.1.2.1	
fdVoicemailContexts	(FusionDirectory - available voicemail contexts)
contexts)	- 1.3.6.1.4.1.38414.19.11.2
gotoProfileFlags	(Goto - Flags for Profile handling - C is for caching)
for caching)	- 1.3.6.1.4.1.10098.1.1.11.7
gotoUserAdminPrinter	(Goto - keeps printers we are admin for)

```

- 1.3.6.1.4.1.10098.1.1.11.13
Deprecated objectClasses:
goCupsServer           (CUPS server description)
- 1.3.6.1.4.1.10098.1.2.1.23
goLogDBServer          (Log DB server description)
- 1.3.6.1.4.1.10098.1.2.1.28
goFaxServer            (Fax server description)
- 1.3.6.1.4.1.10098.1.2.1.26
goNtpServer             (Time server description)
- 1.3.6.1.4.1.10098.1.2.1.20
goSyslogServer          (Syslog server description)
- 1.3.6.1.4.1.10098.1.2.1.21
goNfsServer             (NFS server description)
- 1.3.6.1.4.1.10098.1.2.1.19
goFonServer              (Fon server description)
- 1.3.6.1.4.1.10098.1.2.1.29
gosaUserTemplate        (G0sa - Class for G0sa User Templates)
- 1.3.6.1.4.1.10098.1.2.1.19.11
goVirusServer           (Virus server definition)
- 1.3.6.1.4.1.10098.1.2.1.39

```

The **check-deprecated** option will output a list of dn using old attributes and objectClasses of they are present in your ldap server

```

fusiondirectory-setup --check-deprecated
List LDAP entries using deprecated attributes or objectclasses
There are no entries in the LDAP using obsolete attributes
There are no entries in the LDAP using obsolete classes

```

If you see **the obsolete object class gotoPrinter** you must run the next command and answer yes

```
fusiondirectory-setup --migrate-printers
```

The **ldif-deprecated** option will output an ldif file on the console that you can use with ldapmodify to clean you ldap server from old attributes.

```
fusiondirectory-setup --ldif-deprecated > remove_deprecated.ldif
```

If they are old objectClasses it will warn you and you will have to remove them by hand, they have been specified at the **check-deprecated** step.

Please read it carefully before applying 

Hook

You must modify your hook so that they don't use quotes. The attributes are now automatically quotes and escape.

New Breezy Theme

In this version by default there is a new more modern theme called breezy. To active it completely go to the configuration plugin, click edit and in the “Look and feel” section select breezy

Enjoy :)

From:

<https://documentation.fusiondirectory.org/> - FusionDirectory Documentation

Permanent link:

https://documentation.fusiondirectory.org/en/documentation/admin_installation_migration_1.0.15

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