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# **Argonaut User Manual Documentation**

*Release 1.3*

**Benoit Mortier**

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## What is Argonaut ?

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### 1.1 What is Argonaut ?

Argonaut is the companion of [FusionDirectory](#) , its goal is to allow the management of services and integrate the deployment system(s) from [FusionDirectory](#).

#### 1.1.1 Features

Argonaut is composed of a client **Argonaut Client** and a server **Argonaut Server**

Both client and server sides can load modules at start, those modules are strongly related to a FusionDirectory plugin.

Modules can be classified into three categories :

- FusionDirectory integration
- argonaut-user-reminder to manage the account reminder plugin of [FusionDirectory](#)
- argonaut-clean-audit to clean the audit branch of [FusionDirectory](#)
- Services management
- argonaut-ldap2zone: update a dns zone, create view, create acls for [Bind](#)
- argonaut-quota: apply a quota
- argonaut-dovecot: create the mailbox quota and applies it [Dovecot](#)
- argonaut-fuse : create on the fly pxelinux.cfg file that matches the type of machine to be deployed, allowing automatic boot during an install by pxe
- Integration with deployment tools
  - [FAI](#)
  - argonaut-fai-nfsroot : Tools, queues and status management for [FAI](#) (Fully Automated Install) installations.

- argonaut-fai-mirror: create a synchronization script Mirror of debian or RPM packages
- argonaut-fai-monitor: follow FAI installation and report states to FusionDirectory
- argonaut-fai-server : Argonaut server module to manage FAI
- OPSI
- argonaut-server-module-opsi : queues, profiles management

## 1.2 Argonaut Components

### 1.2.1 Global components

#### Argonaut Libraries

- argonaut-common : main argonaut library (LDAP, package management)
- argonaut-common-fai : FAI library needed by various FAI components of Argonaut

#### Argonaut Server and Client

- argonaut-server : server that receive orders from FusionDirectory (interact with clients in JSON RPC)
- argonaut-client : client to interact with argonaut-server
- argonaut-fuse : FUSE tftp component that manage pxelinux.cfg directory and create files for PXE boot from LDAP

#### Argonaut Modules

- argonaut-server-module-fai : FAI module for argonaut-server, it add FAI deployment functions
- argonaut-server-module-opsi : OPSI module for argonaut-server, it add OPSI deployment functions
- argonaut-fuse-module-fai : FAI module for argonaut-fuse, create files for PXE boot from LDAP for FAI
- argonaut-fuse-module-opsi : OPSI module for argonaut-fuse, create files for PXE boot from LDAP For OPSI
- argonaut-dovecot : Dovecot module that create users directories for the mailbox from FusionDirectory

#### Argonaut Applications

- argonaut-ldap2zone : tool that create bind files with information from FusionDirectory
- argonaut-quota : tool that grab quota information from FusionDirectory and create it on the system
- argonaut-samba : program to create samba share from FusionDirectory
- argonaut-fusiondirectory : program that complement a plugin in FusionDirectory, currently has **argonaut-user-reminder** and **argonaut-clean-audit**



## 1.2.2 Debian components

- argonaut-fai-server : package to install on FAI server (not in NFSROOT)
  - argonaut-fai-monitor : grab installation status from FAI and send it to argonaut-server (need argonaut-client)
  - fai2ldif : tool that convert FAI classes in LDIF that we can insert in LDAP
- argonaut-fai-nfsroot : integration package for FAI NFSROOT
  - argonaut-ldap2fai : create FAI classes in /var/lib/fai/config from LDAP
  - get-config-dir-argonaut : LDAP method for FAI
- argonaut-fai-mirror
  - argonaut-repository : create script to update local mirrors (cron.daily) that are in FusionDirectory
  - argonaut-debconf-crawler : extract debconf from packages in a distant repository

## 1.2.3 Centos components

- argonaut-fai-monitor : grab installation status from FAI and send it to argonaut-server (need argonaut-client)
- yumgroup2yumi : convert yumgroups into yumi in a ldif file so it can be imported into FusionDirectory FAI management interface



Install Argonaut

## 2.1 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.

### 2.1.1 Getting the new official gpg key

```
gpg --keyserver keys.gnupg.net --recv-key 0xD744D55EACDA69FF
gpg --export -a "FusionDirectory Project Signing Key <contact@fusiondirectory.org>" > FD-archive-key
```

### 2.1.2 Getting the development gpg key

```
gpg --keyserver keys.gnupg.net --recv-key 0xADD3A1B88B29AE4A
gpg --export -a "FusionDirectory Packagers <fusiondirectory-packages@lists.fusiondirectory.org>" > FD-archive-dev-key
```

### 2.1.3 Adding the key to apt for Debian/Ubuntu

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

## 2.1.4 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
```

## 2.2 Debian Repository

### 2.2.1 Debian Stretch

To use the latest published version for **stretch** put this in your `/etc/apt/sources.list`

```
#fusiondirectory repository
deb https://repos.fusiondirectory.org/argonaut-current/debian-stretch/ stretch main
```

```
#fusiondirectory extra repository
deb https://repos.fusiondirectory.org/argonaut-extra/debian-stretch/ stretch main
```

### 2.2.2 Debian Jessie

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

```
#argonaut repository
deb https://repos.fusiondirectory.org/argonaut-current/debian-jessie/ jessie main
```

```
#argonaut extra repository
deb https://repos.fusiondirectory.org/argonaut-extra/debian-jessie/ jessie main
```

!!! Wheezy is deprecated and will not be maintained anymore, the latest release is 1.2 !!!

## 2.3 RPM Repository

A repository is available for Centos7

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

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

### 2.3.1 CentOS 7 / RHEL 7

To use the latest published version put this

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

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

SRPMS are also available in the following repo :

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

## 2.4 Downloading the source

The source download area is here

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

## 2.5 Install Argonaut on Debian

Install FusionDirectory

### 2.5.1 Installing Dependencies

All The needed dependancies are resolved by the debian packages

### 2.5.2 Install the Argonaut Repos

To easily install the latest version, you can install the fusion directory repos

Chose the repositories that goes with your Debian version

*Debian Stretch*

*Debian Jessie*

Create 2 new *.list* file your favorite text editor in */etc/apt/source.list.d*

- One for argonaut
- One for argonaut-extra

### 2.5.3 Install Argonaut

You can then install FusionDirectory by running:

```
apt-get install argonaut-common
```

## 2.6 Install Argonaut on Centos

Install FusionDirectory

### 2.6.1 Installing Dependencies

Argonaut requires the [EPEL](#) repository

- To install epel

```
yum install epel-release
```

### 2.6.2 Install the FusionDirectory Repos

To easily install the latest version, you can install the fusion directory repos

Chose the repositories that goes with your centos version

*CentOS 7 / RHEL 7*

Create 2 new repo file your favorite text editor.

- One for argonaut
- One for argonaut-extra

### 2.6.3 Install Argonaut

You can then install Argonaut by running:

```
yum install -y argonaut-common
```

## 2.7 Configure Argonaut

Argonaut use a global configuration file that is used by all programs : **/etc/argonaut.conf**. This file is composed of various sections, all sections are filled with correct basic values.

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**Note:** To function correctly Argonaut need a correctly configured **/etc/ldap/ldap.conf** or **/etc/openldap/ldap.conf**

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### 2.7.1 Argonaut configuration files section

**[server]**

This section contains all the argonaut server parameters :

```
server_ip = 172.16.0.1
```

The ip address the server listen to. This address must match with the MAC address of argonaut server provided in FusionDirectory interface.

### [client]

This section contains all the argonaut server parameters :

```
client_ip = 172.16.0.1
```

The ip address the server listen to. This address must match with the MAC address of argonaut server provided in FusionDirectory interface.

### [ldap]

This section contains all the ldap parameters :

```
config = /etc/ldap/ldap.conf
```

Where is stored your ldap.conf configuration file.

```
dn = cn=admin,dc=fusiondirectory,dc=org
```

What is your bind dn.

```
password = secret
```

What is the password for the provided bind dn.

```
tls = off
```

whether communication should be encrypted or not





### 3.1 User-Reminder

Argonaut User-Reminder

#### 3.1.1 Description

The user-reminder application is used to send mail to users warning that the account will expire and provide a way of extending it if needed

#### 3.1.2 Installation

##### Install packages

##### Debian

```
apt-get install argonaut-fusiondirectory
```

##### RHEL

```
yum install argonaut-fusiondirectory
```

#### 3.1.3 Functionalities

The user-reminder application is used to send mail to users warning that the account will expire and provide a way of extending it if needed

You will need the user-reminder plugin installed into FusionDirectory to make it work

### How it works

Argonaut-user-reminder look at different source (posix, ppolicy, both) and can send a mail or make the account expire

The arguments are the following:

- `--verbose`
- `--posix`
- `--ppolicy`
- `--both` (default)

Depend on which source you want to use you also need the FusionDirectory plugin that match (posix, ppolicy)

You run argonaut-user-reminder in a cron so that it keep all the informations updated

### Examples

```
# Expiration for both
argonaut-user-reminder --verbose --both
# Expiration for ppolicy
argonaut-user-reminder --verbose --ppolicy
# Expiration for posix
argonaut-user-reminder --verbose --posix
```

## CHAPTER 4

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### Contribute

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There is a complete set of guidelines that you should read

[Contributing to Argonaut](#)

[Develop with Argonaut](#)



FusionDirectory Support Options

### 5.1 Professional paid support

FusionDirectory helps you keep FusionDirectory running smoothly

Why choose FusionDirectory ?

- You are the publishers of FusionDirectory.
- We have over 16 years experience in the support of LDAP directories and applications directory management.
- We support and maintains OpenLDAP architectures for various entities from small to very big on a daily basis
- We maintain and develop the [PHP LDAP](#) module

You are sure to get :

- Answers to your questions about FusionDirectory by phone, email or web,
- Packages containing bug fixes between two stable versions
- Assistance for the development of FusionDirectory modules tailored to your needs,
- Assistance on the update of FusionDirectory
- A technician on site if the situation requires.

Support Options :

- Get [support for your FusionDirectory](#) instance
- Get [training for your daily use](#) of FusionDirectory
- Get [support on specialized plugins](#) of FusionDirectory

## 5.2 Community support

For any question regarding FusionDirectory support (installation, configuration, usage, etc. . . ), the preferred way to get some support is through the [mailing list](#) or [irc](#).

## 6.1 Digital signature

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

### 6.1.1 Official gpg key

```
pub  rsa4096/0xD744D55EACDA69FF 2017-07-02 [SC] [expire : 2022-07-01]
     A94DE63F2EDB5F0DC0785EBBD744D55EACDA69FF
uid  [ totale ] FusionDirectory Project Signing Key
     ↪<contact@fusiondirectory.org>
```

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

### 6.1.2 Development gpg key

```
pub  rsa2048/0xADD3A1B88B29AE4A 2014-02-25 [SC]
     8ABF887BF6254D6F57B82069ADD3A1B88B29AE4A
uid  [ totale] FusionDirectory Packagers <fusiondirectory-
     ↪packages@lists.fusiondirectory.org>
```

## 6.2 Security issues

If you find a security issue inside FusionDirectory you can report it to directly to security team [security@fusiondirectory.org](mailto:security@fusiondirectory.org).

you can sign your message with the public key from

**Benoit Mortier 0xEF2FF1E48638EAD1**





### 7.1 License

FusionDirectory is available under the [GNU General Public License 2.0](#)

FusionDirectory documentation is under the [Creative Commons Attribution-ShareAlike 4.0 International \(CC BY-SA 4.0\)](#)



This is the alphabetical list of all people that have contributed to the Argonaut project, beeing code, translations, documentation and additional help.

### 8.1 Argonaut AUTHORS

This is the alphabetical list of all people that have contributed to the FusionDirectory project, beeing code, translations, documentation and additional help.

- Benoit Mortier <benoit.mortier@opensides.be>
  - Butracking, QA
- Antoine Gallavardin <antoine.gallavardin@free.fr>
  - Quota original code
- Bernigaud Côme <come.bernigaud@opensides.be>
  - All the new deployment stuff :)
- Samuel Bosquin <samuel.bosquin@ibcp.fr>
  - Help and test with the RPM code and FAI
- Jonathan Swaelens <jonathan@opensides.be>
  - QA, Testing, Systemd units
- Sean Thatcher <papertray3@gmail.com>
  - Corrected Argonaut systemd units
- Thomas Niercke <thomas@niercke.de>
  - Code for the samba share argonaut module



## CHAPTER 9

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### Contact Us

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We are also contactable on :

\* Mailing list : <https://lists.fusiondirectory.org/wws/lists> \* IRC : #fusiondirectory on irc.freenode.org irc://irc.freenode.org/fusiondirectory

Follow Us

on twitter : <http://twitter.com/#!/fusiondirectory>

on linkedin : <http://www.linkedin.com/group/FusionDirectory>

**orphan**