

Synchronizer - Les logs du module Cfg-password

Overview

This document describes how you can import hosts and users from OpenLDAP.

There are some steps you'll need to follow in order to be able to import users :

- Enable the OpenLDAP source,
- Configure the OpenLDAP module,
- Configure the connection to OpenLDAP,
- Configure the mapping rules,
- Configure the import rules.

On this page

- [Initialisation du module](#)
- [Authentification d'un utilisateur](#)
 - [Les logs en INFO](#)

What is already available in the Shinken Installation

To make your life a bit easier, a few configuration tasks have already been done for you:

1. Installation of the OpenLDAP import module,
2. Availability of an example of pre-configured OpenLDAP source ready to be customized for your first try.

Setup the pre-installed source

Installation and update script of Shinken will set up a default OpenLDAP source already configured:

- You can see it in the source table of the UI Configuration home page.
- This source uses 2 kinds of configuration files
 - **Source definition files**
 - **Configuration files** to customize the data mining.
 - the example is available in folder (`/etc/shinken-user/source-data/source-data-open-ldap-sample`).



Advice

The first time, we are advising you to only update Configuration files.

You will then decide if you want to have 1 or more active directory sources (if you have a big directory, it might be interesting to have many sources pointing of specific entries for performance gain).



Unknown Attachment

Source definitions:

Enable the openldap-import Source

In the **Automatic Detection Modules** panel, click on the button to enable the module.



Unknown Attachment

You can find the following parameters in the source file `/etc/shinken/sources/openldap.cfg` :

| Property | Example | Description |
|-------------|------------------|---|
| source_name | openldap-example | Name of this source displayed in the UI configuration home page. Must be unique. |
| order | 2 | Order in the merge algorithm of this source data. Look in the Synchronizer page for more information about merging order. |

| | | |
|-----------------|---|--|
| import_interval | 5 | <p>The source will be run automatically every <i>import_interval</i> minutes.</p> <ul style="list-style-type: none"> if set to 0, the source will never be run automatically. <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>i Advise</p> <p>For your initial test, we advise you to set it to 0. Clicking on the button in the home page will allow you to start the source whenever you want.</p> <div style="text-align: center; margin-top: 10px;"> ? Unknown Attachment </div> </div> |
| modules | openldap-example | <i>(module definition used by Shinken to parse OpenLDAP data)</i> |
| enabled | 0 | Activate or Disable the source. This property is also edited by automatically when you use the Enabled button. |
| description | This source is about loading hosts and contacts from OpenLDAP | |

Configure the OpenLDAP Module

Modify if necessary, the file `/etc/shinken/modules/openldap-import.cfg`

| Property | Value | Description |
|-------------------------------|--|---|
| module_name | openldap-example | Module's name. Must be unique. |
| module_type | ldap-import | Type of module. Don't change it as it refers to the shinken component |
| connection_configuration_file | <code>/etc/shinken-user/source-data/source-data-openldap-sample/_configuration/openldap-connection.json</code> | Connection information. |
| mapping_configuration_file | <code>/etc/shinken-user/source-data/source-data-openldap-sample/_configuration/openldap-mapping.json</code> | <p>Mapping rules.</p> <p>Mapping of attribute can be different between 2 Openldap installation. You can specify in this file for example what will be the attribute's name of the user phone number</p> |
| rules_configuration_file | <code>/etc/shinken-user/source-data/source-data-openldap-sample/_configuration/openldap-rules.json</code> | <p>Rules configuration.</p> <p>You can choose which kind of host and user will be retrieved and define criteria to set automatically template attachment.</p> |

Connection configuration

This file is used to make the connexion to your OpenLDAP server.

| | |
|---|---|
| ? Unknown Attachment | <p>Edit the file <code>/etc/shinken-user/source-data/source-data-openldap-sample/_configuration/openldap-connection.json</code></p> |
|---|---|

| Property | Default | Description |
|---------------|---|--|
| url | <code>ldap://YOUR-DC-FQDN/</code> | URL of your Active Directory server. |
| base | <code>dc=YOUR,dc=DOMAIN,dc=com</code> | Base OU for your objects discovery. |
| hosts_base | <code>OU=DataCenter Servers,dc=YOUR,dc=DOMAIN,dc=com</code> | Base OU for the hosts discovery. |
| contacts_base | <code>dc=YOUR,dc=DOMAIN,dc=com</code> | Base OU for the contacts discovery. |
| username | <code>SHINKEN@YOURDOMAIN.com</code> | Username used to connect to the Ldap server. |

| | | |
|----------|----------|--|
| password | PASSWORD | Password used by the user to connect to the Ldap server. |
|----------|----------|--|

Example

/etc/shinken-user/source-data/source-data-openldap/_configuration/openldap-connection.json

```
{
  "url": "ldap://vm-w2k8r2.shinkenom.local/",
  "ldap_protocol": 3,
  "base": "dc=shinkenom,dc=local",
  "hosts_base": "OU=serveurs,dc=shinkenom,dc=local",
  "hostgroups_base": "OU=serveurs,dc=shinkenom,dc=local",
  "contacts_base": "OU=utilisateurs,DC=shinkenom,DC=local",
  "username": "administrateur@shinkenom.local",
  "password": "P@ssword1"
}
```



Tip

The account used to request LDAP only need read-only access. You should create a user account with read-only access dedicated to the OpenLDAP import module.

Mapping rules configuration

This file allow you to do the mapping between OpenLDAP and Shinken properties.

Unless you know what you're doing here, you should keep this file unmodified.

You can find some customization in the How to section.

File **/etc/shinken-user/source-data/source-data-openldap-sample/_configuration/openldap-mapping.json**

/etc/shinken-user/source-data/source-data-openldap/_configuration/openldap-mapping.json

```
# IMPORTANT: Do not edit this file.
# To have your own mapping, copy it under the /etc/shinken-users directory and edit your copy instead.
# Note: comments should be with a # starting the line, NOT after a value
{
# first hosts properties (computer object in openldap)
  "host.name": "name",
  "host.dnsHostName": "dnsHostName",
  "host.operatingSystem": "operatingSystem",
  "host.operatingSystemServicePack": "operatingSystemServicePack",
  "host.distinguishedName": "distinguishedName",
  "host.filter": "(objectClass=computer)",

# Now contact properties
  "contact.ClassFilter": "inetOrgPerson",
  "contact.name": "uid",
  "contact.member": "uniqueMember",
  "contact.telephoneNumber": "telephoneNumber",
  "contact.mobile": "mobile",


# Co: for country
  "contact.co": "co",


# l: for city
  "contact.l": "l",
  "contact;company": "company",
  "contact.filter": "(objectClass=inetOrgPerson)",

# By default hostgroup are not requested. Setup a filter to enabled it
  "hostgroup.filter": ""
}
```

Import rules configuration

This file is used to apply **host template**, **contact template** and tags to the hosts and contacts while the import.

| | |
|---|---|
|  Unknown Attachment | Edit the file <code>/etc/shinken-user/source-data/source-data-openldap-sample/_configuration/openldap-rules.json</code> |
|---|---|

 **Tip**

A host template called **windows** is already available in Shinken checking : Cpu, Disks, EventLogApplication, EventLogSystem, Memory, Network Interface, Reboot, Services, Swap.

As a good start, you can configure the property **hosts_tag** in this way :

hosts_tag windows

The mandatories properties to modify are in green.

| Property | Default | Description |
|--|--|--|
| hosts_tag | yourdomain | Shinken host template applied during the import |
| contacts_tag | generic-contact | Shinken contact template applied during the import |
| contacts_group_filter | CN=Domain Admins,CN=Users,DC=YOUR,dc=DOMAIN,dc=com CN=OTHERGROUPS,OU=Groups,OU=Users Groups,DC=YOUR,dc=DOMAIN,dc=com | User group to import |
| hosts_tag_citrix | OU=Terminal Servers,OU=DataCenter Servers,DC=YOUR,dc=DOMAIN,dc=com | host tag citrix |
| hosts_tag_database | OU=Database Servers,OU=DataCenter Servers,DC=YOUR,dc=DOMAIN,dc=com | host tag database |
| hosts_tag_exchange | OU=Email Collaboration Servers,OU=DataCenter Servers,DC=YOUR,dc=DOMAIN,dc=com | host tag exchange |
| hosts_tag_fileprint | OU=Files Print Servers,OU=DataCenter Servers,DC=YOUR,dc=DOMAIN,dc=com | host tag fileprint |
| hosts_match_operatingSystem_windows | windows | host tag windows |
| hosts_match_operatingSystem_windows2008 | windows.*2008(?!.*(?:r2)) | host tag windows2008 |
| hosts_match_operatingSystem_windows2008r2 | windows.*2008.*r2 | host tag windows 2008r2 |
| hosts_match_operatingSystem_windows2003 | windows.*2003 | host tag windows2003 |
| hosts_match_operatingSystem_windows2012 | windows.*2012(?!.*(?:r2)) | host tag windows2012 |
| hosts_match_operatingSystem_windows2012r2 | windows.*2012.*r2 | host tag windows2012r2 |
| hosts_match_operatingSystem_windows2000 | windows.*2000 | host tag windows 2000 |
| hosts_match_operatingSystem_windowsxp | windows.*xp | host tag windows xp |
| hosts_match_operatingSystem_enterprise | Enterprise | host tag Enterprise |
| hosts_match_operatingSystemServicePack_sp1 | Service Pack 1 | host tag Service Pack 1 |

| | | |
|--|--|----------------------------|
| hosts_match_operatingSystemServicePack_sp2 | Service Pack 2 | host tag Service Pack 2 |
| hosts_match_operatingSystemServicePack_sp3 | Service Pack 3 | host tag Service Pack 3 |
| contacts_match_memberOf_domain-admins | CN=Domain Admins,CN=Users,DC=YOUR,dc=DOMAIN,dc=com | Contact tag domains-admins |



Tip

See below about the tag functionality.

Example :

/etc/shinken-user/source-data/source-data-openldap/_configuration/openldap-rules.json

```
{
  "hosts_tag": "windows",
  "contacts_tag": "generic-contact",
  "contacts_group_filter": "CN=paris_shinken_users,OU=utilisateurs,DC=shinkendom,DC=local |
CN=bordeaux_shinken_users,OU=utilisateurs,DC=shinkendom,DC=local",
  "hosts_tag_citrix": "OU=citrix,OU=serveurs,dc=shinken,dc=local",
  "hosts_tag_database": "OU=database,OU=serveurs,dc=shinken,dc=local",
  "hosts_tag_exchange": "OU=exchange,OU=serveurs,dc=shinken,dc=local",
  "hosts_tag_fileprint": "OU=fileprint,OU=serveurs,dc=shinken,dc=local",
  "hosts_tag_windows": "OU=infra,OU=serveurs,dc=shinken,dc=local",
  "hosts_match_operatingSystem_windows": "windows",
  "hosts_match_operatingSystem_windows2008": "windows*.2008(?!.*(?:r2))",
  "hosts_match_operatingSystem_windows2008r2": "windows*.2008*.r2",
  "hosts_match_operatingSystem_windows2003": "windows*.2003",
  "hosts_match_operatingSystem_windows2012": "windows*.2012(?!.*(?:r2))",
  "hosts_match_operatingSystem_windows2012r2": "windows*.2012*.r2",
  "hosts_match_operatingSystem_windows2000": "windows*.2000",
  "hosts_match_operatingSystem_windowsxp": "windows*.xp",
  "hosts_match_operatingSystem_enterprise": "Enterprise",
  "hosts_match_operatingSystemServicePack_sp1": "Service Pack 1",
  "hosts_match_operatingSystemServicePack_sp2": "Service Pack 2",
  "hosts_match_operatingSystemServicePack_sp3": "Service Pack 3",
  "contacts_match_memberOf_domain-admins": "OU=shinken_admins,OU=utilisateurs,DC=shinkendom,DC=local"
}
```



If you want to import all objects of an OU instead of groups, set no **contact_group_filter**.

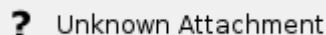
All objects inside **contacts_base** (file *openldap-connection.json*) filtered via **contact.filter** (file *openldap-mapping.json*) will be imported.

Import the objects

After each source modification, you have to restart the Synchronizer Daemon.

| | |
|--|---|
| | <p>Restart the Synchronizer Daemon</p> <p>/etc/init.d/shinken-synchronizer restart</p> |
|--|---|

Go in the Administration website, if your configuration is ok you should have an output "OK: Import clean."



Now do a "Force import" in clicking on

In the "Elements >" panel you will see new elements appearing (Hosts and Contacts).

? Unknown Attachment

The next step will be to import those new objects.

HOW TO

Import users of multiple groups

? Unknown Attachment

Edit the file `/etc/shinken-user/source-data/source-data-openldap/_configuration/openldap-rules.json`

`/etc/shinken-user/source-data/source-data-openldap/_configuration/openldap-rules.json`

```
"contacts_filters": "CN=shinken_admins,OU=utilisateurs,DC=shinkendom,DC=local | CN=shinken_users,OU=utilisateurs,DC=shinkendom,DC=local",
```

In `contact_filters`, add the LDAP path to the different user groups separated by a pipe.

```
hosts_tag_exchange OU=Email Collaboration Servers,OU=DataCenter Servers,DC=YOUR,dc=DOMAIN,dc=com
```

Tag hosts and users to add more properties before import

This source also includes other parameters that will allow you to automatically “tag” your servers based on your active directory information:

- **hosts_tag**: each loaded hosts will have at least this tag
- **contacts_tag**: each loaded contacts will have at least this tag

Contacts to load can be easily filtered with the **contacts_filters** parameter.

Tagging hosts based on their OU (Organization Unit) is possible. This is done with the **hosts_tag_*** parameters.

For example, if you want to add the **exchange** tag to all the servers which are below

the **OU=Email Collaboration Servers,OU=DataCenter Servers,DC=YOUR,dc=DOMAIN,dc=com** OU,

you can set this parameter:

```
hosts_tag_exchange OU=Email Collaboration Servers,OU=DataCenter Servers,DC=YOUR,dc=DOMAIN,dc=com
```

Setting up ldap object matching with the **hosts_match_*** parameters is also possible.

For example, if you want to add the **enterprise** tag to all the ldap object that match the string **Enterprise** in their **operatingSystem** property,

you only need to setup :

hosts_match_operatingSystem_enterprise Enterprise

This also works with **groups**.

For example, if you want to add the **domain-admins** tag to the users that are in the **CN=Domain Admins, CN=Users,DC=YOUR,dc=DOMAIN,dc=com** OU,

setup :

contacts_match_memberOf_domain-admins CN=Domain Admins,CN=Users,DC=YOUR,dc=DOMAIN,dc=com

Creation of your own sources

Having multiple sources can help you if you have a huge directory and want to have the control on what to import at any time. As an example, you have an OU containing Paris users and another OU containing Bordeaux users. At a given time, you want to import only Bordeaux users. If you create two sources, you can activate just the Bordeaux source and import its objects.



Every time you have to customize Shinken Sources, you have to do it in the /etc/shinken-user folder.

You will have to do the following to create your own source :

- Create a module
- Create a source
- Configure the source-data
- Configure the Synchronizer daemon to take the new module in consideration

Create a module

```
cd /etc/shinken/modules/  
cp openldap-import.cfg openldap-import-Bordeaux.cfg
```



Unknown Attachment

Edit the file openldap-import-Bordeaux.cfg

Delete the 4 lines beginning from

Shinken Enterprise

to

End of Shinken Enterprise part

Modify

```
module_name      openldap-example
```

With

```
module_name      openldap-Bordeaux
```

Modify the following lines to point to the new source data (see below for the source data configuration)

```
connection_configuration_file
rules_configuration_file
mapping_configuration_file
```

Example :

```
# Configuration file for your Active Directory connection (server, user, password, ...)
connection_configuration_file /etc/shinken-user/source-data/source-data-openldap-Bordeaux
/_configuration/openldap-connection.json

# Configuration file for your import rules (like OU=>template rules)
rules_configuration_file /etc/shinken-user/source-data/source-data-openldap-Bordeaux/_configuration
/openldap-rules.json

# Configuration file for your ldap fields mapping (like for openldap users)
mapping_configuration_file /etc/shinken-user/source-data/source-data-openldap-Bordeaux/_configuration
/openldap-mapping.json
```

Create a source

```
cd /etc/shinken/modules/
cp openldap.cfg openldap-Bordeaux.cfg
```

? Unknown Attachment

Edit the file openldap-Bordeaux.cfg
Delete the 4 lines beginning from
Shinken Enterprise
to
End of Shinken Enterprise part

Modify

```
source_name      openldap-example
modules          openldap-example
```

With

```
source_name      openldap-Bordeaux
modules          openldap-Bordeaux
```

Configure the source data

To create your own import source, do the following :

```
cd /etc/shinken-user/source-data
cp -r source-data-openldap-sample source-data-openldap-Bordeaux
```

In our example :

```
cp -r source-data-openldap-sample source-data-openldap-Bordeaux
```



Tip

Let's consider that the folder in which you will have your new OpenLDAP source is : /etc/shinken-user/source-data/source-data-openldap-Bordeaux/
inside it, the folder `_configuration` contain all configuration file to customize the source behavior.

See above on how to configure the source data

Configure the Synchronizer Daemon

? Unknown Attachment

Edit the file **/etc/shinken/synchronizers/synchronizer-master.cfg**

At the end of the "sources" lien, add you new source.

Example :

```
sources          syncui, cfg-file-shinken, active-dir-example, sync-vmware, cfg-file-nagios, discovery,
openldap-example, openldap-Bordeaux
```

? Unknown Attachment

Restart the Synchronizer Daemon

/etc/init.d/shinken-synchronizer restart

you can see your now source :

? Unknown Attachment