

Operation



From:

<https://pandorafms.com/manual/!775/>

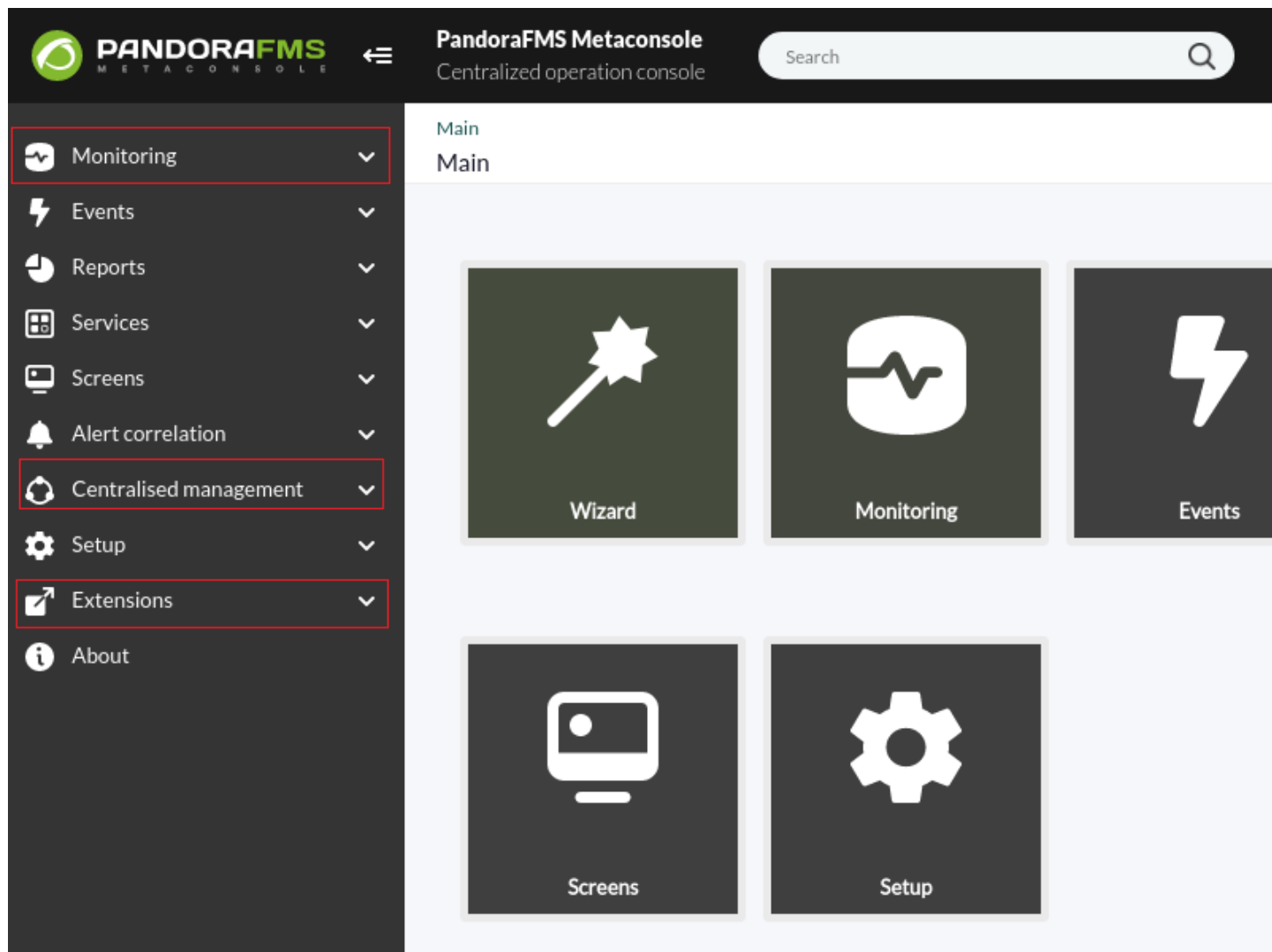
Permanent link:

https://pandorafms.com/manual/!775/en/documentation/pandorafms/command_center/06_operation

2024/03/18 21:03



Operation



- Monitoring.
- Centralised Management.
- Extensions.

Monitoring

Assistant / Wizard

E The monitoring Wizard is used to configure agents, modules and their alerts from the Metaconsole.

Issues to consider

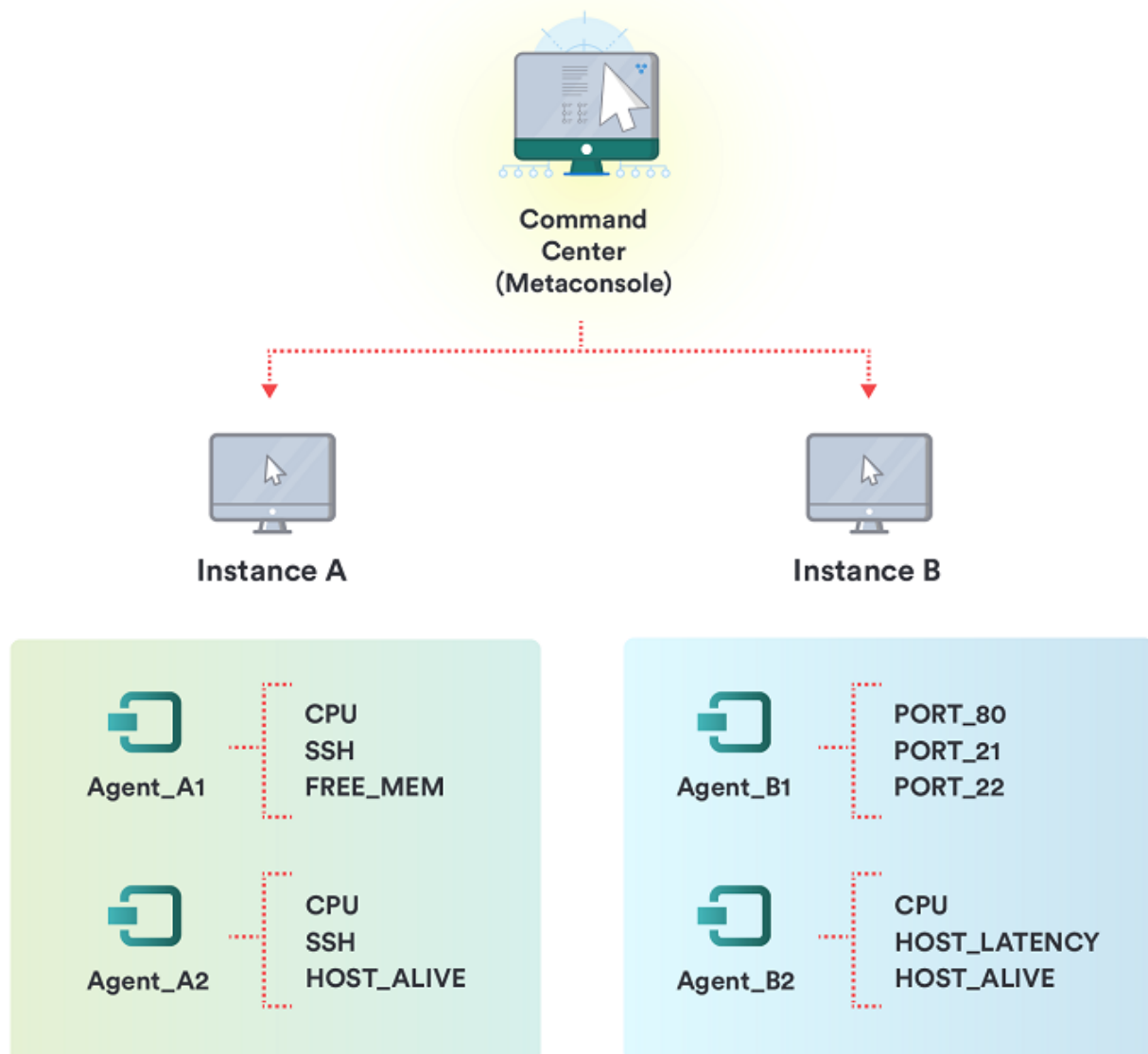
- The operation of modules will be implemented as both local and network components. This is not intended to create modules “from scratch”

- Agents that can be created from scratch, with a simplified configuration, setting up the remaining fields by default.
- Modules created in the instance cannot be edited in the Wizard.
- Modules created in the Wizard will not be distinguished from those created in the agent by other means. These modules can be edited and deleted from both the Wizard and from the instance setup directly.

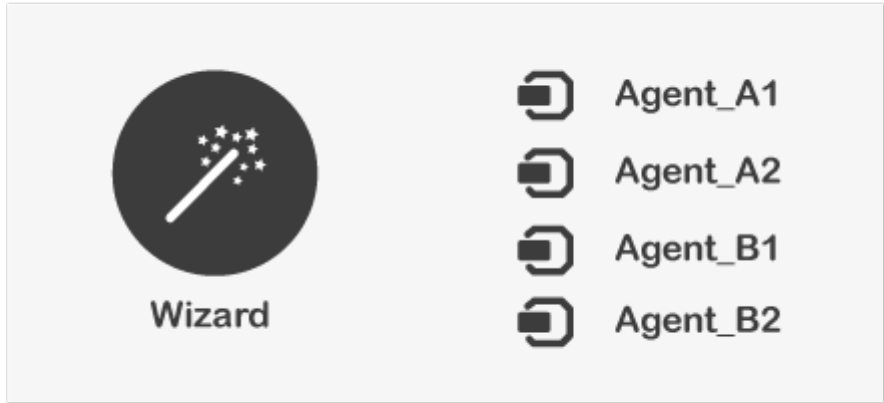
Example:

There is a metaconsole and two pandora instances, where you have full access (read and administration permissions).

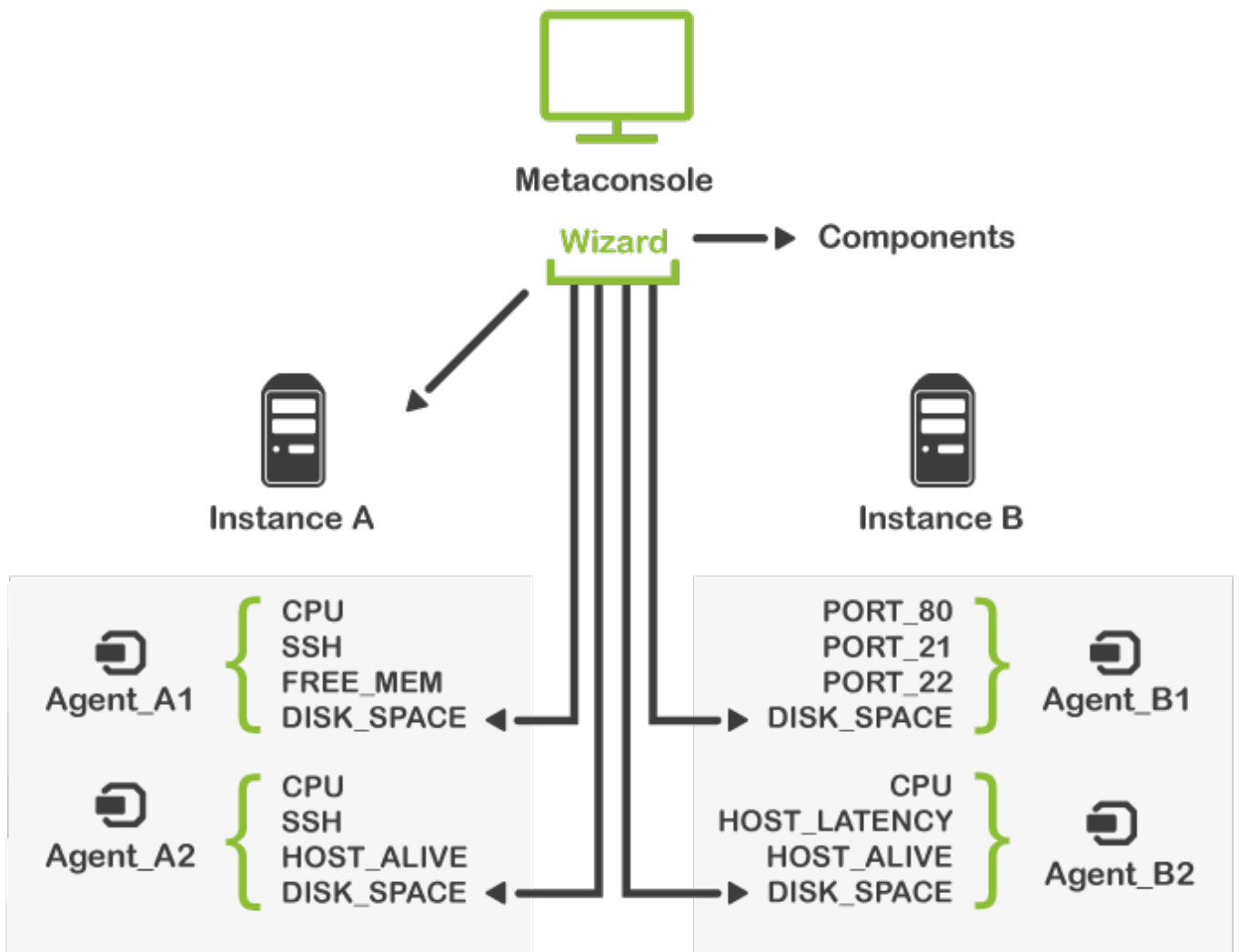
The instances have two agents with three modules each one:



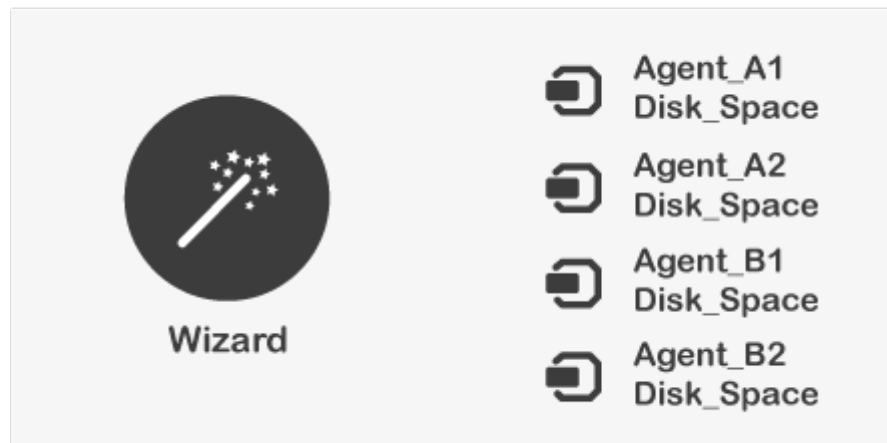
The first time you enter the metaconsole wizard, you will see the agents, but not the modules:



Create from the metaconsole a module to monitor the haddisk in each agent.



Now, from the wizard, you can see and edit the created modules:



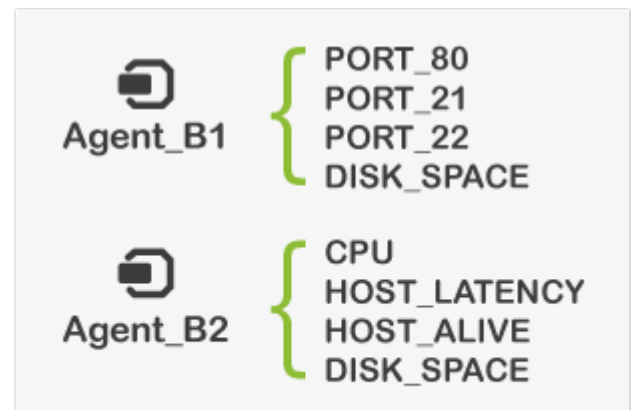
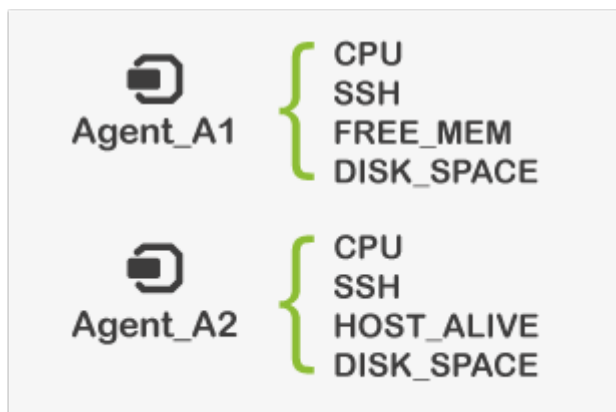
And from each Pandora FMS instance you may see the modules and edit them.



Instance A



Instance B



A different case is that of the Metaconsole three view, where all modules you have access to can be seen, regardless of the actions of the Wizard. You may also view and delete (but not edit) the modules created from the Instance, when editing an agent from the Wizard.

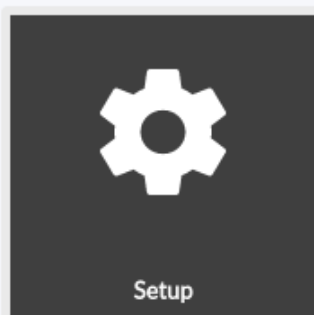
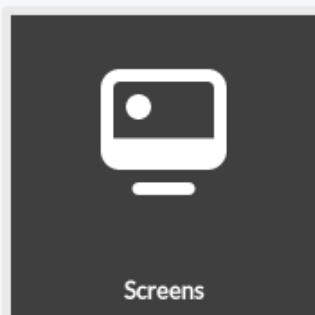
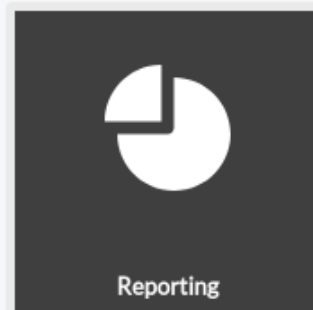
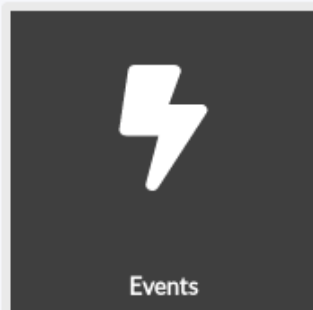
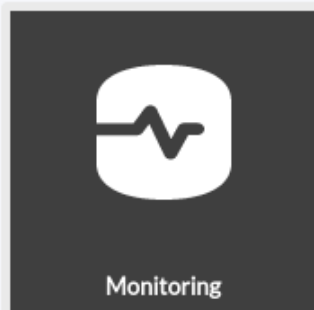
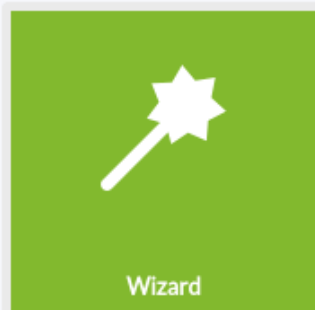
Access

There are two ways to access the wizard:

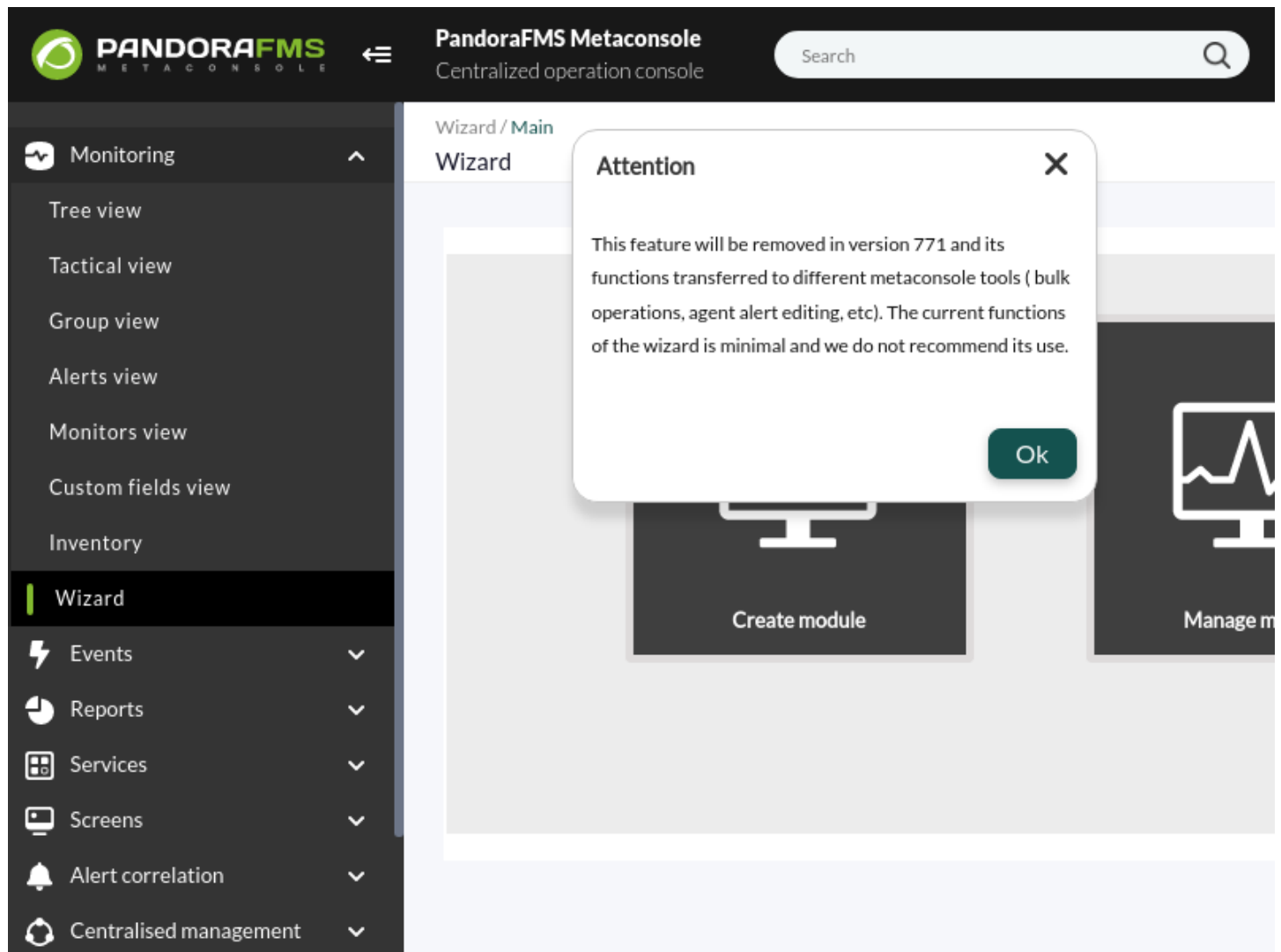
- Direct access to the Wizard from the main page of the Metaconsole.

Main

Main



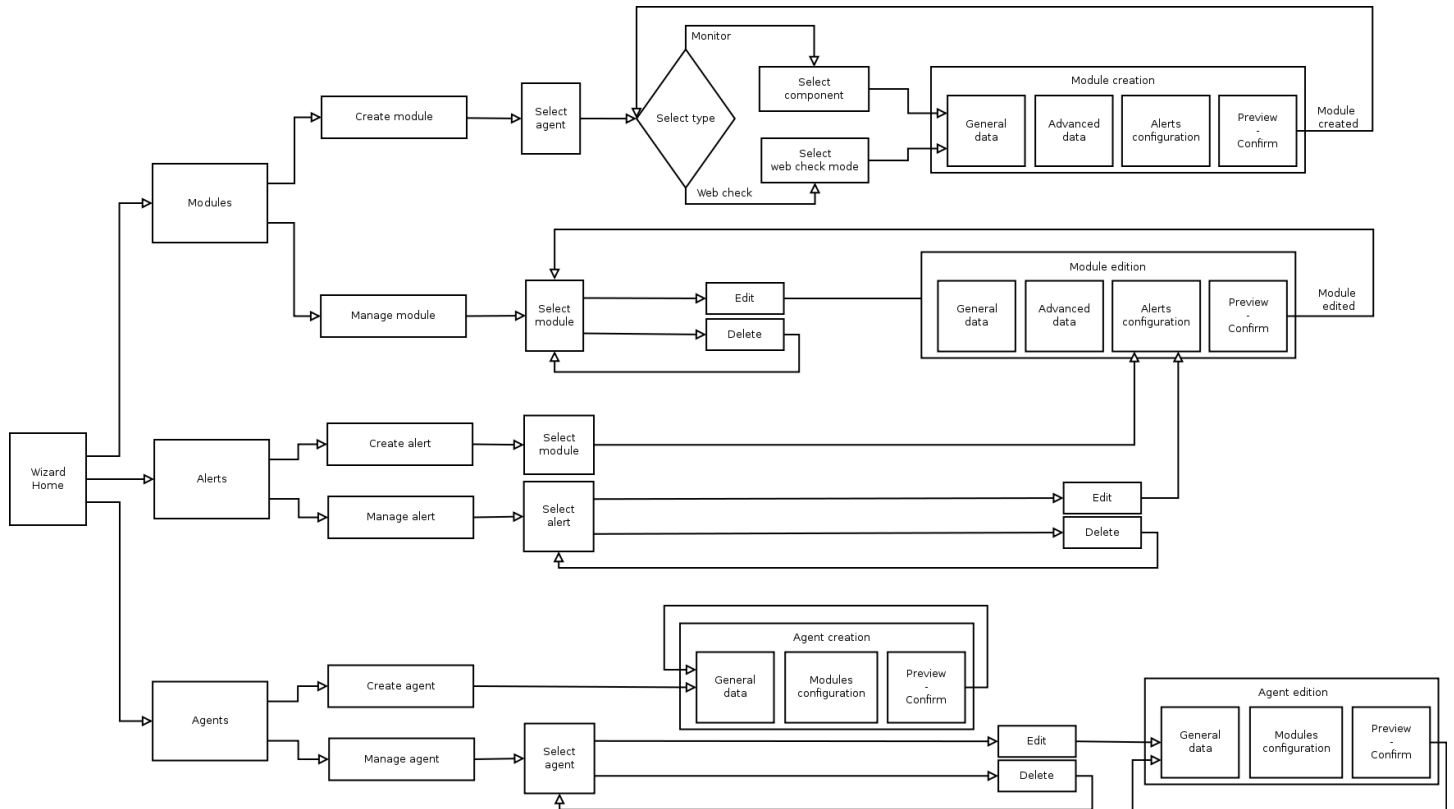
- From the top menu, in the monitoring section.



All users with wizard access will be able to access to monitor and alert configuration. Agent configuration must be activated “per user”, on demand.

Action Flow

The following graph shows the complete flow of actions that are possible to be carried out in the Metaconsole Wizard:

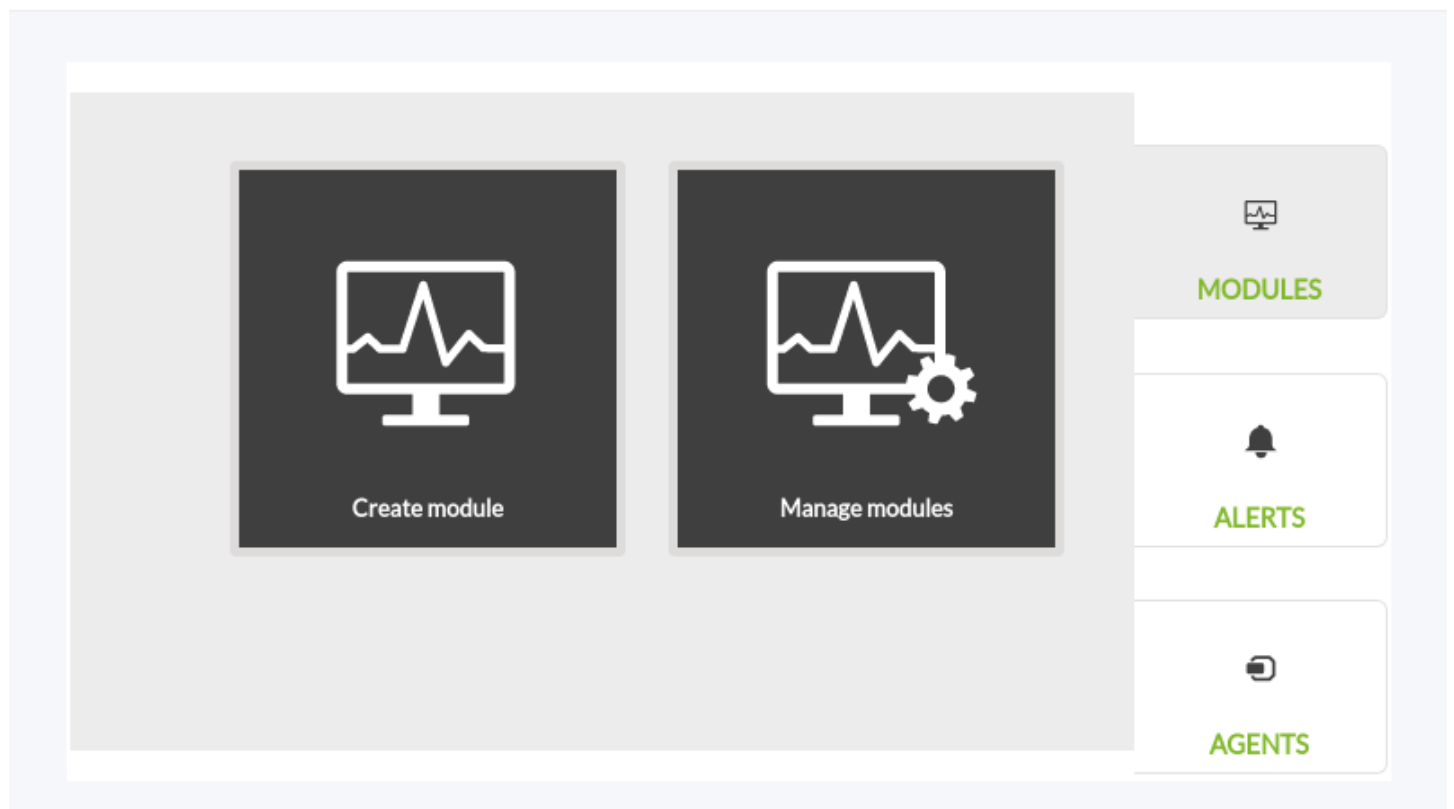


Modules

In the module option, you may create a module or edit one that is already created.

Wizard / Main

Wizard



Creation

In module creation the first step will be selecting one agent where to create it. It could be filtered by group or searched by name between the available agents.

The available agents will be those of each Instance where the new user has creation permissions (AW).

After selecting the agent, click on *Create module*. Now select the type of module to create:

- Monitor
- Web Check

Monitor Creation

Monitor creation is done using module templates/components. These components are classified by groups:

The nature of the module (local or remote) will be visible for the user, and in the selection combos, the components of both types will be mixed.


When selecting the component, its description will be shown.

The screenshot displays the PandoraFMS Metaconsole interface. At the top, the header includes the PandoraFMS logo, a search bar, and navigation icons for refresh, notifications (3), documentation, and a home button. Below the header is a navigation menu with options: Tree view, Tactical view, Group view, Alerts view, Monitors view, Custom fields view, Inventory, Wizard, and Log viewer. The main content area is titled 'KeplerR (koldo_server) Agent:'. It features a 'Module type' section with radio buttons for 'Monitor' (selected) and 'Web check'. Below this are two dropdown menus: 'Module group' set to 'All' and 'Module' set to 'Perf_NTDSATQThreadsTotal'. A 'MODULE DESCRIPTION' box contains an information icon and the text: 'The total number of ATQ threads that are either waiting to service an incoming request, or are already servicing a request.' At the bottom right of the configuration area is a 'Create' button with a right-pointing arrow. On the right side of the interface, there is a vertical sidebar with three buttons: 'MODULES' (with a monitor icon), 'ALERTS' (with a bell icon), and 'AGENTS' (with a server icon).

To configure the monitor, click on *Create*.

The monitor configuration consists of in 4 steps:


- General Configuration: Monitor general data (name,description,lp,etc.).

KepleR (koldo_server) Agent: 

General

Name Perf_NTDSATQThreadsTotal


Description
The total number of ATQ threads that are either waiting to service an incoming request, or are already servicing a request.

IP Address Force primary k... 

User Administrator

Password ●●●●

Disabled


1 2 3 4 **Next** 

MODULES



ALERTS

AGENTS


- Advanced Configuration: Monitor advanced data (thresholds, interval, etc).


KepleR (koldo_server) Agent: 


Various

Interval 5 minutes  

Thresholds

Warning  Min.: 0.00 Max.: 0.00 Inverse interval

Critical  Min.: 0.00 Max.: 0.00 Inverse interval

1 2 3 4 **Previous** **Next** 

MODULES

ALERTS

AGENTS

- Alerts: An alert editor where to configure in the module alert template alerts you have permissions for.


KepleR (koldo_server) Agent:

- Copy of Copy of Warning condition3
- Copy of Warning condition
- Copy of Warning condition_2
- Critical condition**
- Manual alert
- Warning condition

Add >

Alerts in module

ALERT DESCRIPTION





Critical condition
This is a generic alert template
to fire on condition CRITICAL


1 2 **3** 4

< Previous

Next >


MODULES


ALERTS


AGENTS

- Preview: Data displayed in only one screen before finishing the process.

KepleR (koldo_server) Agent:


Preview


| | |
|--------------------|---|
| Name | Perf_NTDSATQThreadsTotal |
| Description | The total number of ATQ threads that are either waiting to service an incoming request, or are already servicing a request. |
| IP Address | force_pri |
| User | Administrator |
| Password | none |
| Warning | Min.: 0.00 Max.: 0.00 Inverse interval: No |
| Critical | Min.: 0.00 Max.: 0.00 Inverse interval: No |
| Interval | 5 minutes |
| Disabled | No |
| Alerts | |


1 2 3 **4**

< Previous

Finish >


MODULES


ALERTS


AGENTS

Creating web checks

For web check creation, the web check option must be enabled in “customize sections” from Metaconsole's Metasetup.

There are two different types of web checks:

- Step by step: Web checks are configured with a wizard without the need to know its syntax.
- Advanced: Web checks are *raw* configured in a box text. It is only available for users with advanced permissions.

If the user does not have advanced permissions, the advanced check option will not be available. It will lead you directly to configure a step by step check.

KepleR (koldo_server) Agent:

Module type: Monitor Web check

Options: Step by step wizard Advanced

CLICK ON CREATE TO CONTINUE

Create

MODULES

ALERTS

AGENTS

The web check configuration will be done, same as with monitors in 4 steps:

- General Configuration: Monitor general data (name, description, type, etc. As well as the check according to its modality).
- Step by Step Modality:

KepleR (koldo_server) Agent:

General

Name

Description

Check type

Disabled

Web Checks

URL

String to check

Add check Delete check

1 2 3 4 Next >

MODULES

ALERTS

AGENTS

- Advanced Modality:

KepleR (koldo_server) Agent:

General

Name

Description

Check type

Disabled

Web Checks

Web Checks

Load basic Check

1 2 3 4 Next >

MODULES

ALERTS

AGENTS

This kind of check can be:

- Latency: This check obtains the total time that went by from the first petition until that the last one is checked. If there are several checks the average will be shown.
- Response: This check obtains 1 (OK) or 0 (failed) as result when checking the whole transaction. If there are several attempts and some of them fail, then it is considered that the whole test also fails.
- Advanced Configuration: Monitor advanced data (thresholds, interval, proxy configuration, etc.).
 - Modality Step by Step:

Agent: 216.58.208.0

Module: Sysname

Various

Interval 15 minutes

Credentials

SNMP Community public

Thresholds

Warning Min.: 0.00 Max.: 0.00 Inverse interval

Critical Min.: 0.00 Max.: 0.00 Inverse interval

1 2 3 4 < Previous Next >

MODULES

ALERTS

AGENTS

- Advanced Modality:

Agent: 192.168.10.2

Various

Interval 5 minutes

Unit

Thresholds

Warning Min.: 0.00 Max.: 0.00 Inverse interval

Critical Min.: 0.00 Max.: 0.00 Inverse interval

Web configuration

Proxy URL

1 2 3 4 < Previous Next >

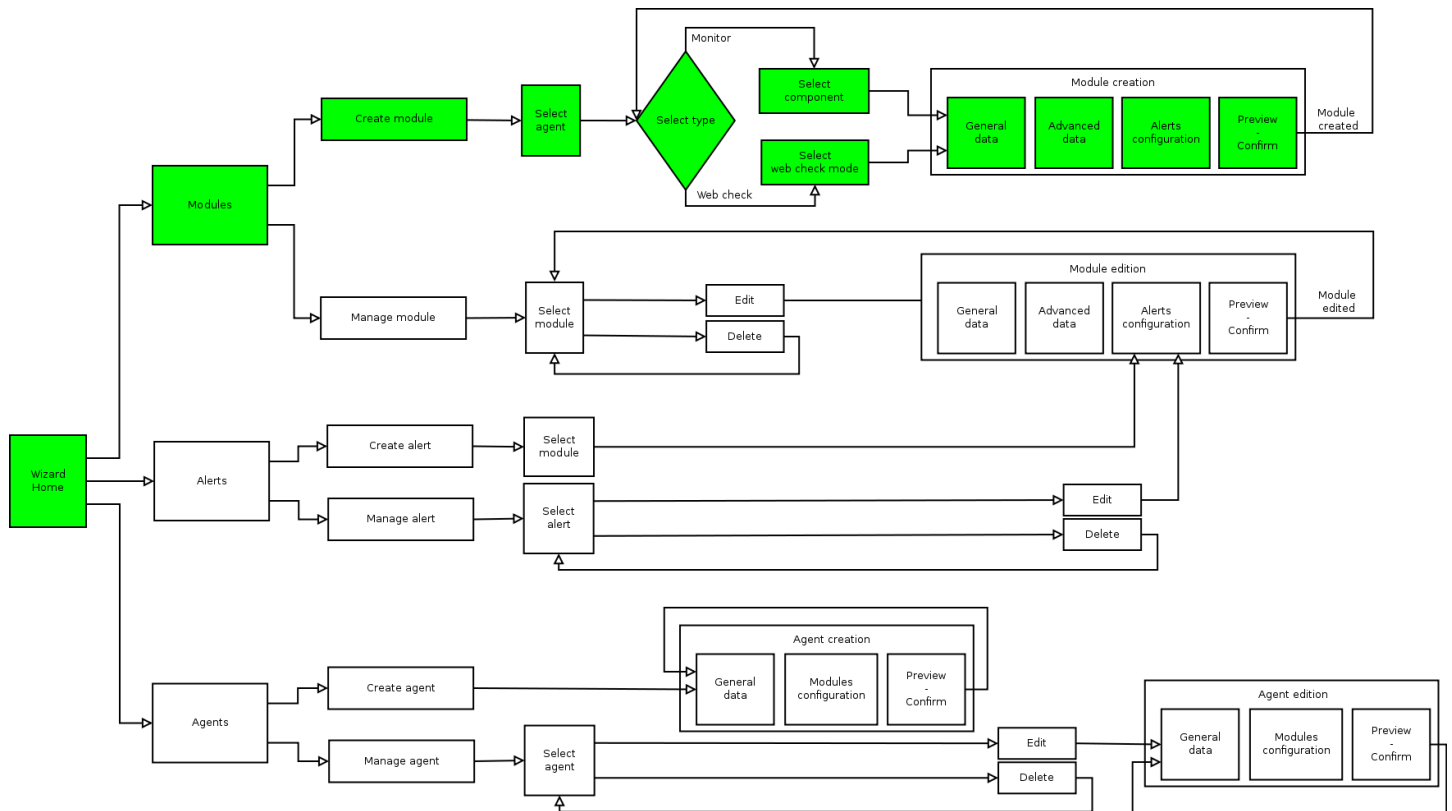
MODULES

ALERTS

AGENTS

- Alerts: An alert editor where to configure in the module alerts of the alert templates you have permissions on. Same as in monitor creation.
- Preview: Data shown on a single screen before finishing the process. Same as with monitor creation.

Module Creation Flow



Administration

The modules created from the Metaconsole Wizard can be managed (edited and deleted).

The modules created in the Instance will not be visible in the Wizard.

The first step is to select the module to manage. You may filter by group and search by agent to find it quickly.

The screenshot shows a web interface for managing modules. The main area is titled "Select the module to be edited or deleted". It contains several form elements: a "Group" dropdown menu with "Select" as the current value; an "Agent search" input field with a "Search" button and a magnifying glass icon; an "Agent" dropdown menu with "None" as the current value; and a "Modules" list area that currently displays "None". At the bottom of the main area are three buttons: "Back" (with a left arrow), "Delete" (with a red 'X' icon), and "Edit" (with a right arrow). On the right side of the interface is a vertical sidebar with three menu items: "MODULES" (with a monitor icon), "ALERTS" (with a bell icon), and "AGENTS" (with a document icon).

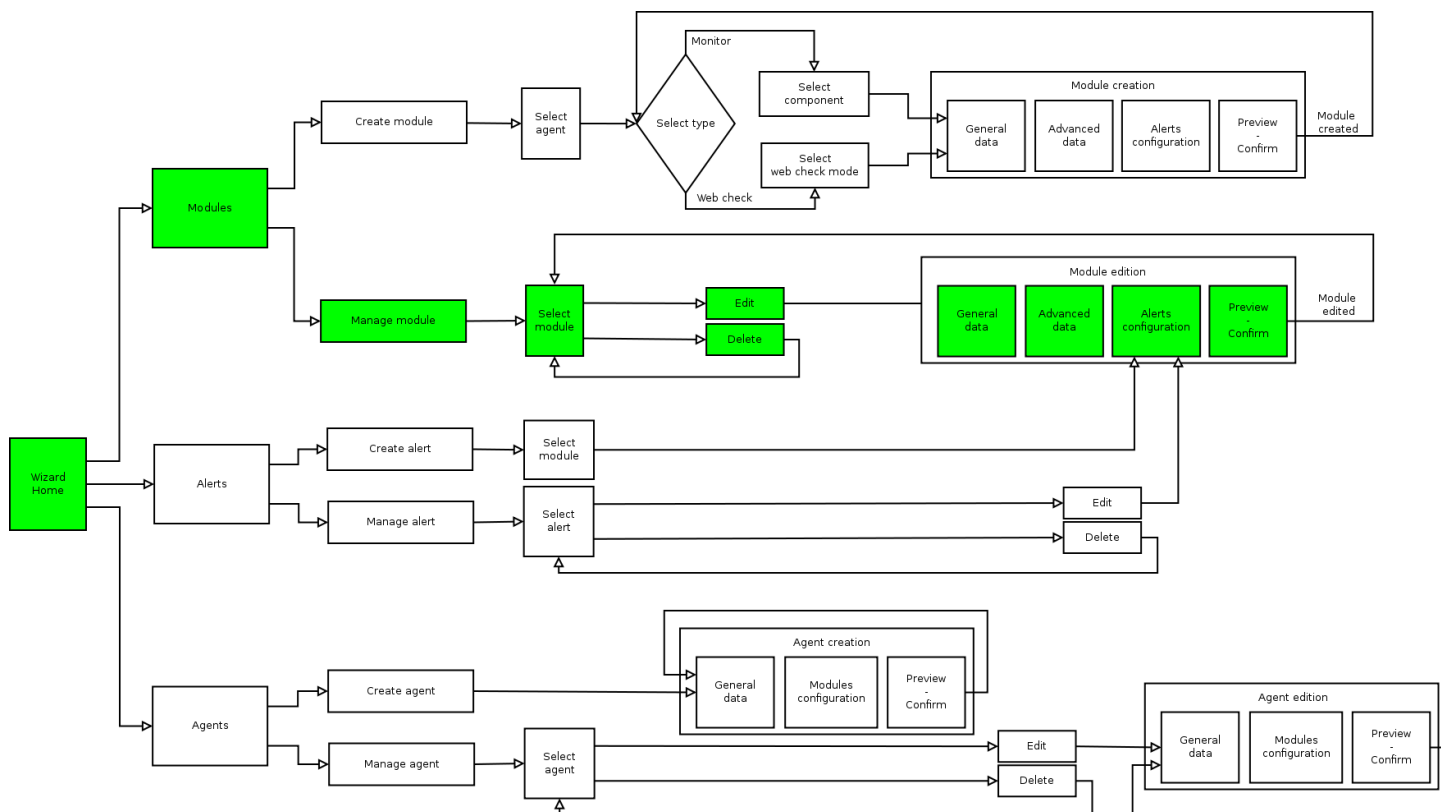
Once it has been selected, click on *Delete* to delete it or on *Edit* to edit it.

When editing you will have access to a screen very similar to the creation one with the same 4 steps:

- General Configuration: Monitor general data.
- Advanced Configuration: Monitor advanced data.
- Alerts: Monitor alert edition.
- Preview: The data modified in a single screen before finishing the process.

Local and remote module and web check management is visible for the user. The fields to edit change but the editing/deleting process is the same.

Module administration flow

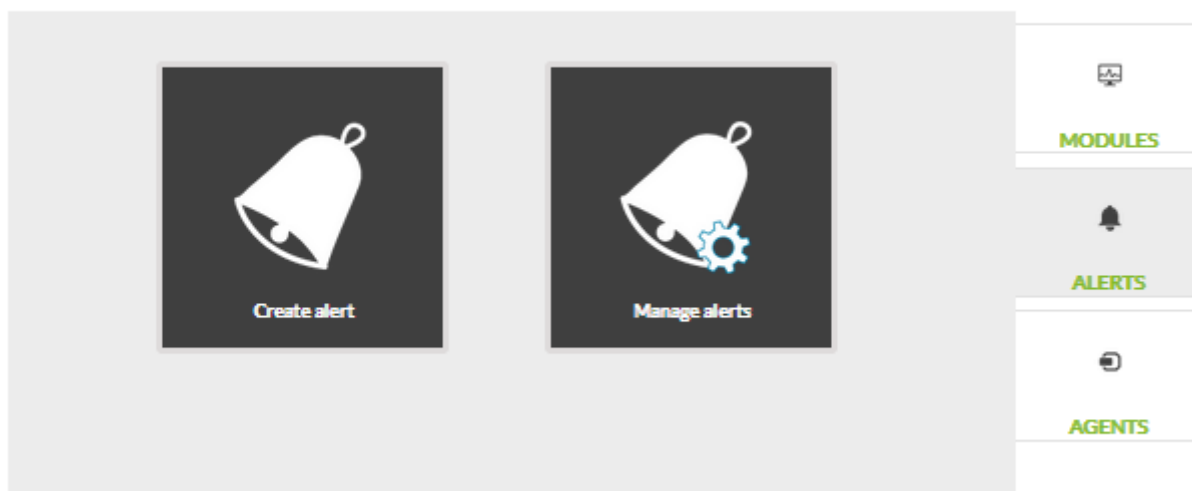


Alerts

The alert editor is a direct link to the alert step in module edition. This is done to make its access and management easier.

In the alert options you may create an alert or edit one that is already created. Alerts could be only added or created in modules to which you have access from the Wizard. Or those modules created from the Wizard and you have ACL permissions on.

Tree view Tactical view Group view Alerts view Monitors view Custom fields view Inventory **Wizard** Log viewer



Creation

In alert creation, select a module where you wish to create the alert.

Select the module in which the alert will be created

Group

Agent search Search

Agent

Modules

[Back](#) [Next](#)

MODULES

ALERTS

AGENTS

After selecting the alert, click on *Create alert*.

The following screen will be the edition of the module linked to the alert in the alert edition step.

KepleR (koldo_server) Agent:

Copy of Copy of Warning condition3
Copy of Warning condition
Copy of Warning condition_2
Critical condition
Manual alert
Warning condition

[Add](#) Alerts in module

ALERT DESCRIPTION

Critical condition
This is a generic alert template to fire on condition CRITICAL

1 2 **3** 4

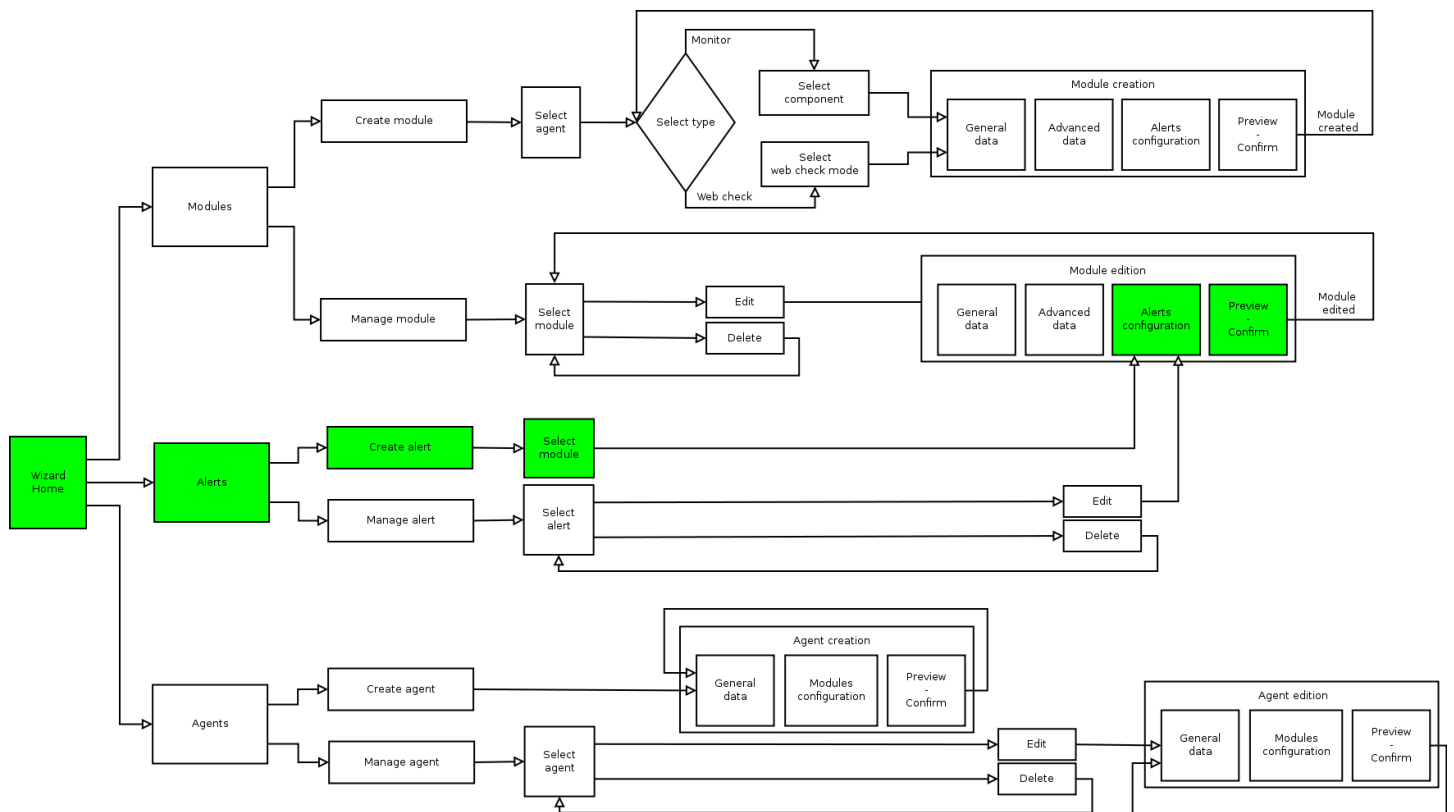
[Previous](#) [Next](#)

MODULES

ALERTS

AGENTS

Alert Creation Flow



Administration


The alerts created from the Metaconsole Wizard can be managed (edited and deleted).

Alerts created in the Instance will not be visible in the Wizard.

The first step is to select the alert to manage. Filter by group and search by agent to find it faster.

Select the alert to be edited or deleted




Group


Agent search Search 


Agent


Modules

Alerts

 **MODULES**

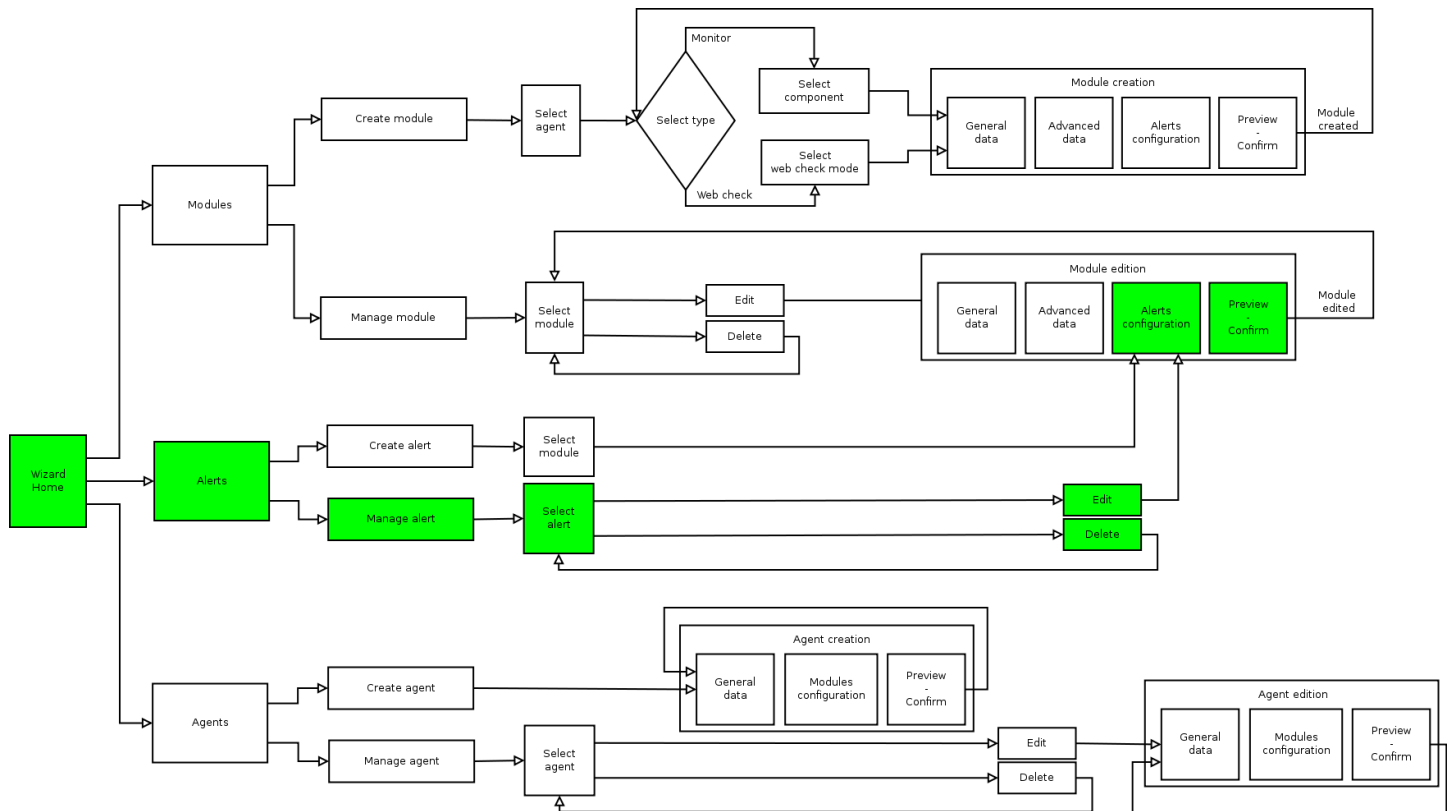
 **ALERTS**

 **AGENTS**

Once selected, click on *Delete* to delete it or on *Edit* to edit it.

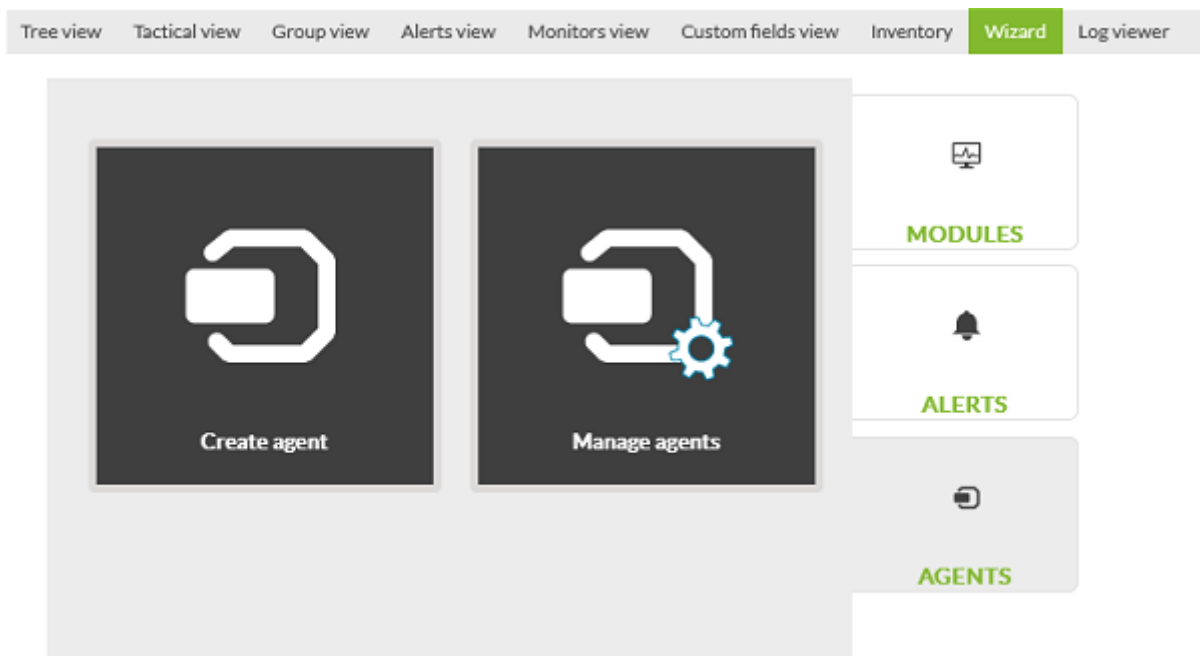
If you click on *Edit* you will be redirected, same as when creating an alert, to the edition of the associated module in the alert edition step.

Alert management flow



Agents

In agent option you can create an agent or edit an already created one.



Creation

Agent creation is done in one of the configured Instances.

Administrator users can select in which one to create it. However, the standard users will have an

Instance assigned where they will create the agents in a transparent way.

This assignment is done at [User management](#)

Agent configuration will be done in three steps:

- General Configuration: Monitor general data (name, description, IP, etc). And in case of being administrator, also the Instance where it will be created.

The screenshot shows the 'General' configuration step. It features a form with the following elements:

- Server:** A dropdown menu with 'koldo_server' selected.
- Alias:** An empty text input field.
- Group:** A dropdown menu with 'Please select...' as the placeholder.
- Description:** A large text area for entering a description.
- IP Address:** A text input field with the placeholder 'IP Address' and a 'Check' button with a refresh icon.
- Disabled:** A checkbox that is currently unchecked.
- Navigation:** A 'Next' button with a right-pointing arrow at the bottom right. At the bottom left, there are three numbered tabs: '1' (active), '2', and '3'.
- Right Panel:** A vertical sidebar with three buttons: 'MODULES' (with a server icon), 'ALERTS' (with a bell icon), and 'AGENTS' (with a server icon).

- Modules: A module editor, where to select from a combo the available network components and add them to the agent.

The screenshot shows the 'Modules' configuration step. It features a list of components and an 'Agent modules' list:

- Components:** A list under the heading 'AD Counters' containing several performance counter names, such as 'Perf_NTDSABANRPersec', 'Perf_NTDSABBrowSESPersec', etc. A right-pointing arrow button is between the components list and the agent modules list.
- Agent modules:** A list that currently contains 'None'. A 'Delete' button with a trash icon is located below this list.
- Navigation:** A 'Next' button with a right-pointing arrow at the bottom right. At the bottom left, there are three numbered tabs: '1', '2' (active), and '3'. A 'Previous' button with a left-pointing arrow is also at the bottom left.
- Right Panel:** A vertical sidebar with three buttons: 'MODULES' (with a server icon), 'ALERTS' (with a bell icon), and 'AGENTS' (with a server icon).

- Preview: Data displayed in a single screen before finishing the process.

Preview

Server koldo_server

Alias New agent

Group 9

Description Empty

IP Address Empty

Disabled No

Modules AD AppMgmt (New)
AD Dnscache (New)
Serv_NTDS (New)

MODULES

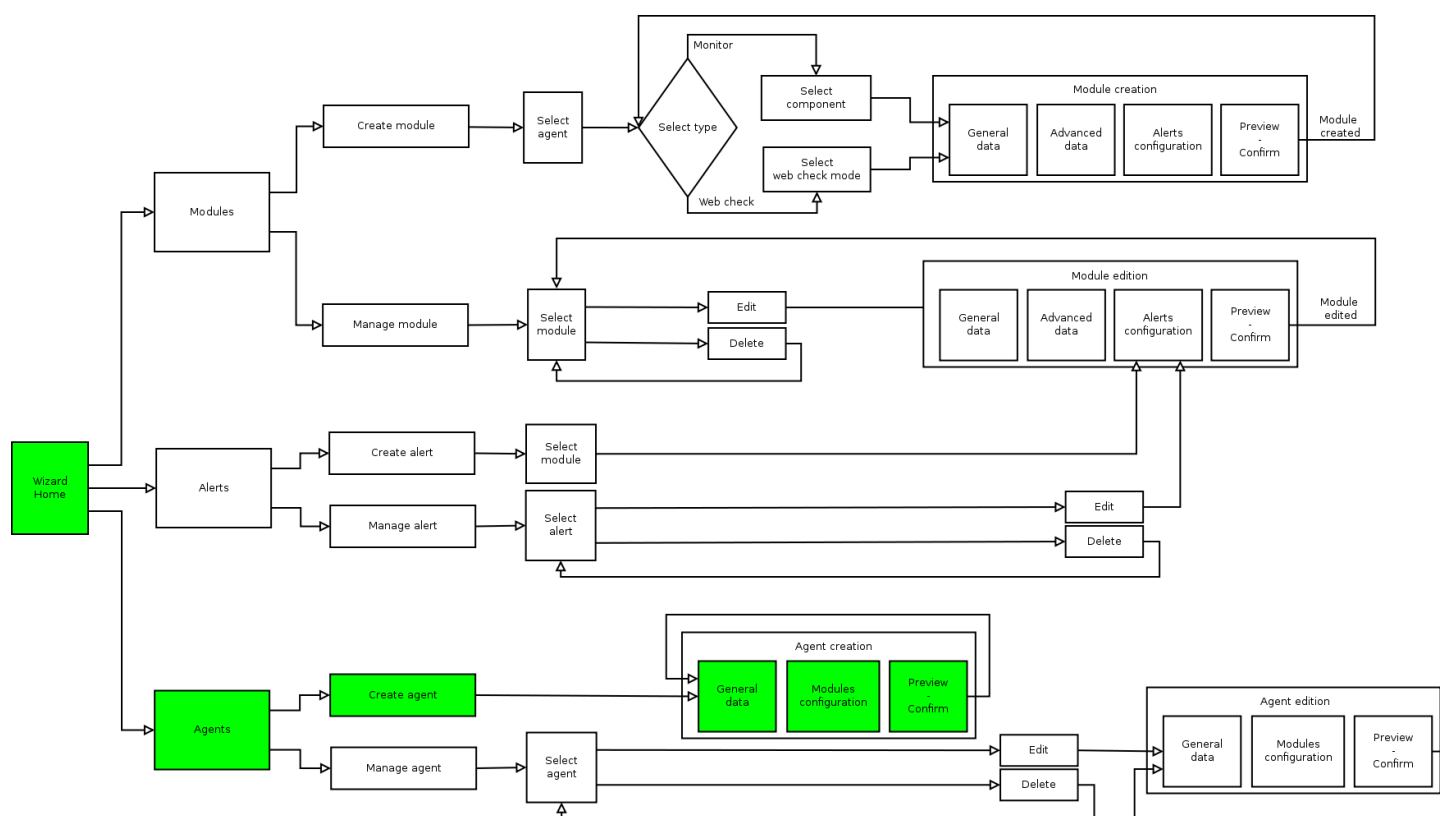
ALERTS

AGENTS

1 2 3

Previous **Finish**

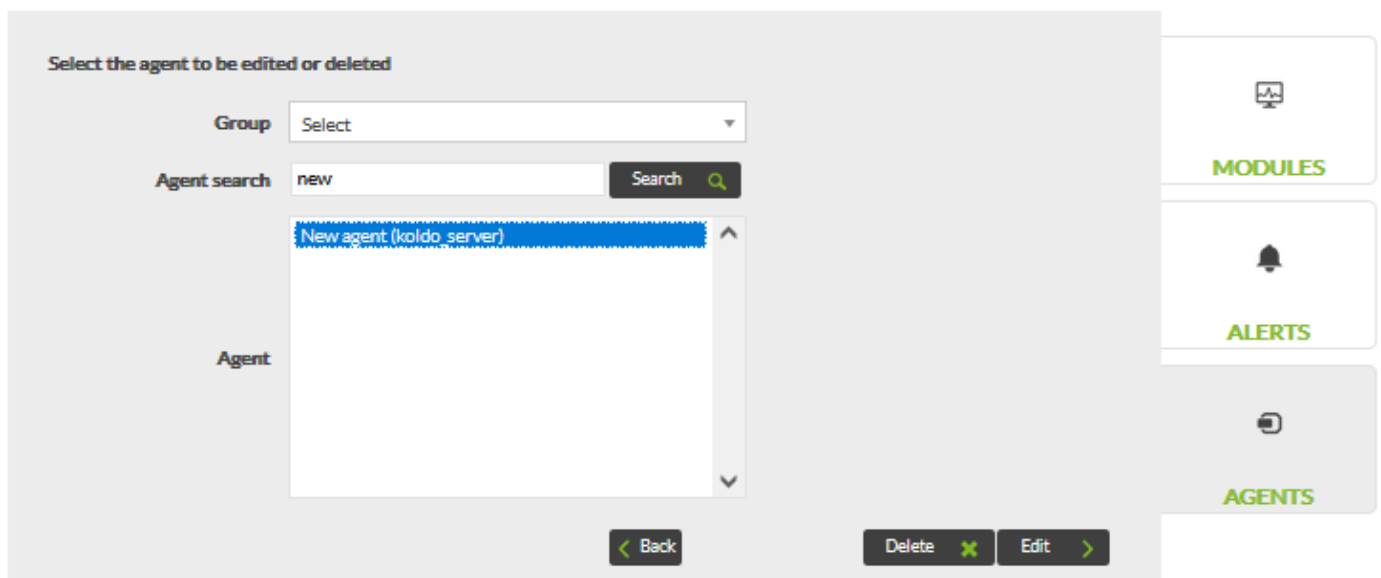
Agent Creation Workflow



Administration

Those agents the user has access to through ACL configuration can be managed (edited and deleted).

The first step is selecting the agent to manage. Filter by group and/or search for a text substring, to find it easily.

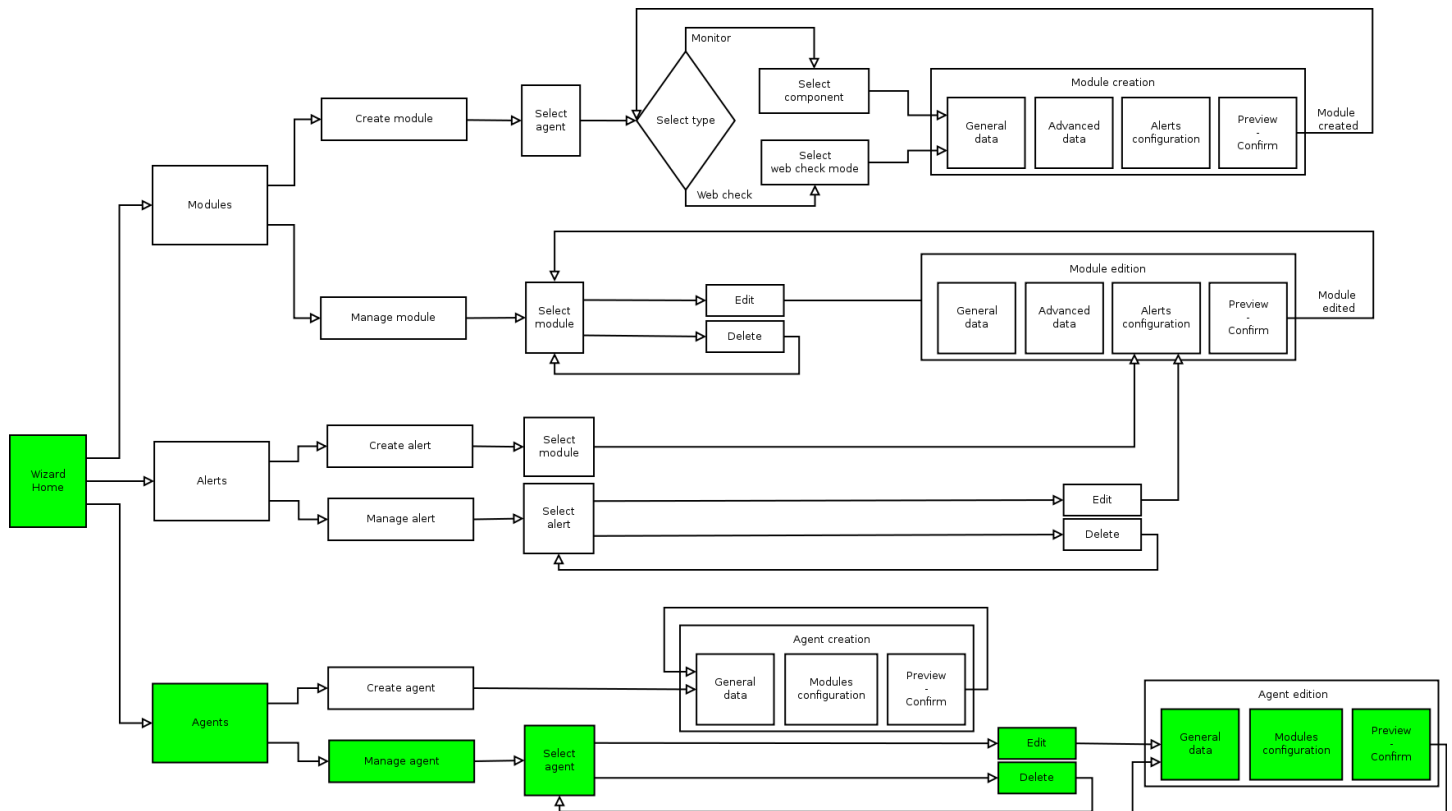


Once the agent is selected, click on *Delete* to remove it, or on *Edit* to edit it. The edition screen is similar to the creation screen, with the same three steps:

- General configuration: General information about the agent.
- Modules: Edit the agent modules
- Previsualization: Preview to make sure everything is ok.

Unlike module management, agent edition also shows the modules that have not been created with the Wizard

Agent administration workflow



Differences depending on access level

The modules and alerts have configuration differences depending on the access level to the Wizard that the templates and components they were created with have and the access level of the user that configures them. Agent settings have fewer restrictions but also depends on the access level.

Monitors

Monitor configuration will change depending of the access level on the component used: basic or advanced.

When the access level is “Advanced”, there will be some additional fields:

- The name (at the “basic” level, it takes the name of the component).
- Monitor units.
- Macros (in local modules or remote plugin modules' cases). At the basic level, it will be crated with the default values.

WEB Checks

When setting up a “webcheck”, user with “advanced” access can choose between the “step by step” or “advanced” configurations.

Advanced checks are manually configured and write the ceck with their syntax in a text box. In

addition, created module units can be defined.

Alerts

In the alerts, the *Basic* or *advanced* levels of the associated template only affect its visibility. Basic level alerts can be seen by user that accesses the wizard, and the advanced level ones only by users with advanced level access.

It is the component level the one that defines the alert settings in their module. A module can be associated with any of the alerts visible for the user.

If it is a basic component or a step-by-step web check, the alerts will be created with a default action assigned, which cannot be changed.

If it is an advanced component or a complex/advanced WEB Check, when assigning an alert the default action will appear but any desired action can be assigned.

Agents

Agent management will give access to all agents accessible to the user, depending on its ACL configuration. Regardless of the user access level (advanced, basic), or whether the modules were created with the wizard or in the instance.

The only restriction about this, comes when adding modules in the edit/create view. This setup is done only by using only network components and with basic level. The reason for this behaviour is because this kind of modules do not have any configuration, and the *advanced* wizard level modules usually need extra configuration.

Centralised management

Agent management

Agent movement

allows you to relocate from one node to another. Use the group and/or name filters to locate and select the agents you need to move to another node. Click on the Move button to save the changes.

Agent management | Module management | Alert management | Component management | User management | Policy management | Category management | Server management | Bulk operations | Command Center

Move agents

Source server: koldo_server

Destination server: stod

Filter group: All

Filter group: All

Group recursion:

Group recursion:

Filter agent: _____

Filter agent: _____

Available agents

- 000 Agent for automated testing
- 001 Agent for services testing
- 02-test
- 1
- 112_dev
- 192.168.50.101
- 192.168.50.11
- 192.168.50.111
- 192.168.50.12
- 192.168.50.124

Selected agents

- None

Discard history data:

Move

Provisioning management

PandoraFMS Metaconsole
Centralized operation console

Search

0 [admin]

Main / Propagation

Provisioning management

ROUND ROBIN

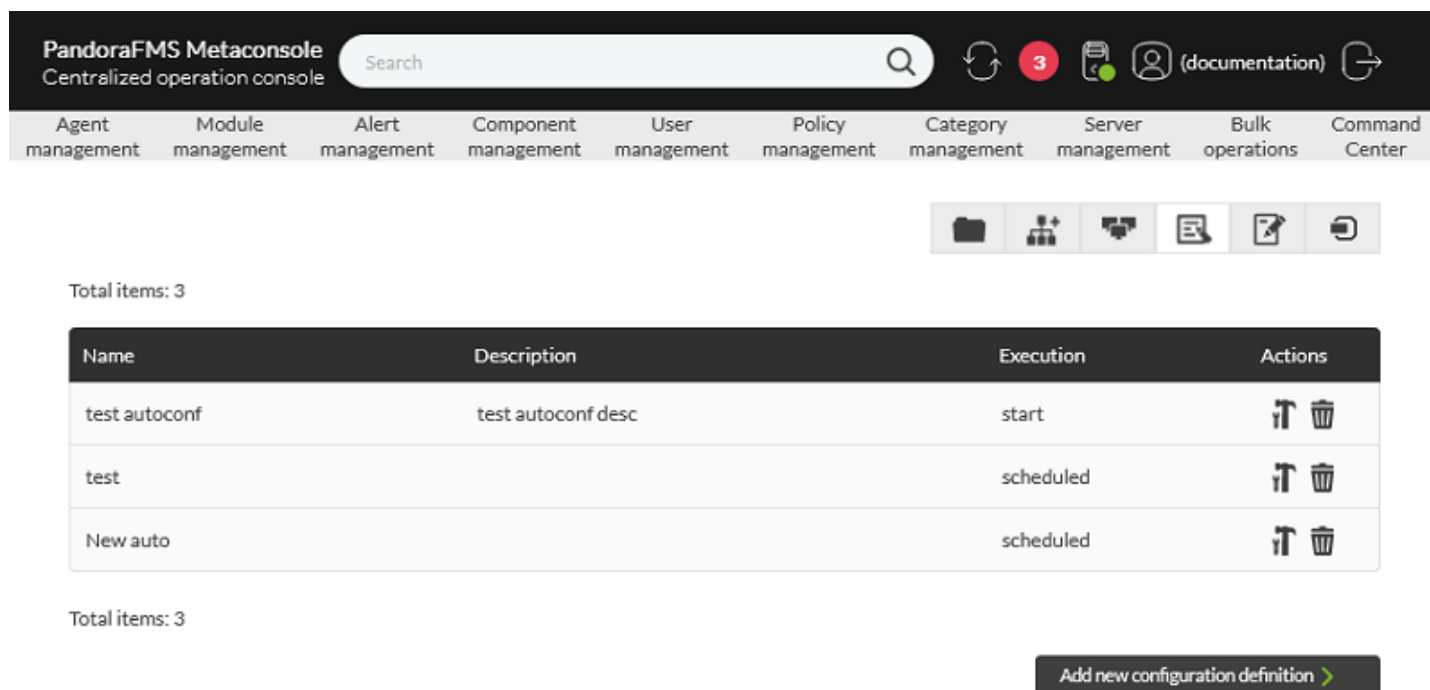
LESS LOADED

CUSTOM

- **ROUND ROBIN:** It uses the Round-robin planning method to distribute, in an equitable way and in a rational order, all the new Pandora software agents that reach the Metaconsole. The distribution of the agents will be done in a circular way, assigning the corresponding server to each new agent.
- **LESS LOADED:** The new agents will be dynamically assigned to those servers with less load.
- **CUSTOM:** In the customized classification, we will be able to define our own classification rules, based on certain parameters retrieved from the information reported by the agent (name of the agent and its IP address).

Agent autoconfiguration

It allows you to add and/or edit new automatic configuration rules for agents, such as group membership, alerts, etc. See the section [“Automatic configuration of agents”](#) to find out how it works together with each of the nodes.



PandoraFMS Metaconsole
Centralized operation console

Search

Agent management | Module management | Alert management | Component management | User management | Policy management | Category management | Server management | Bulk operations | Command Center

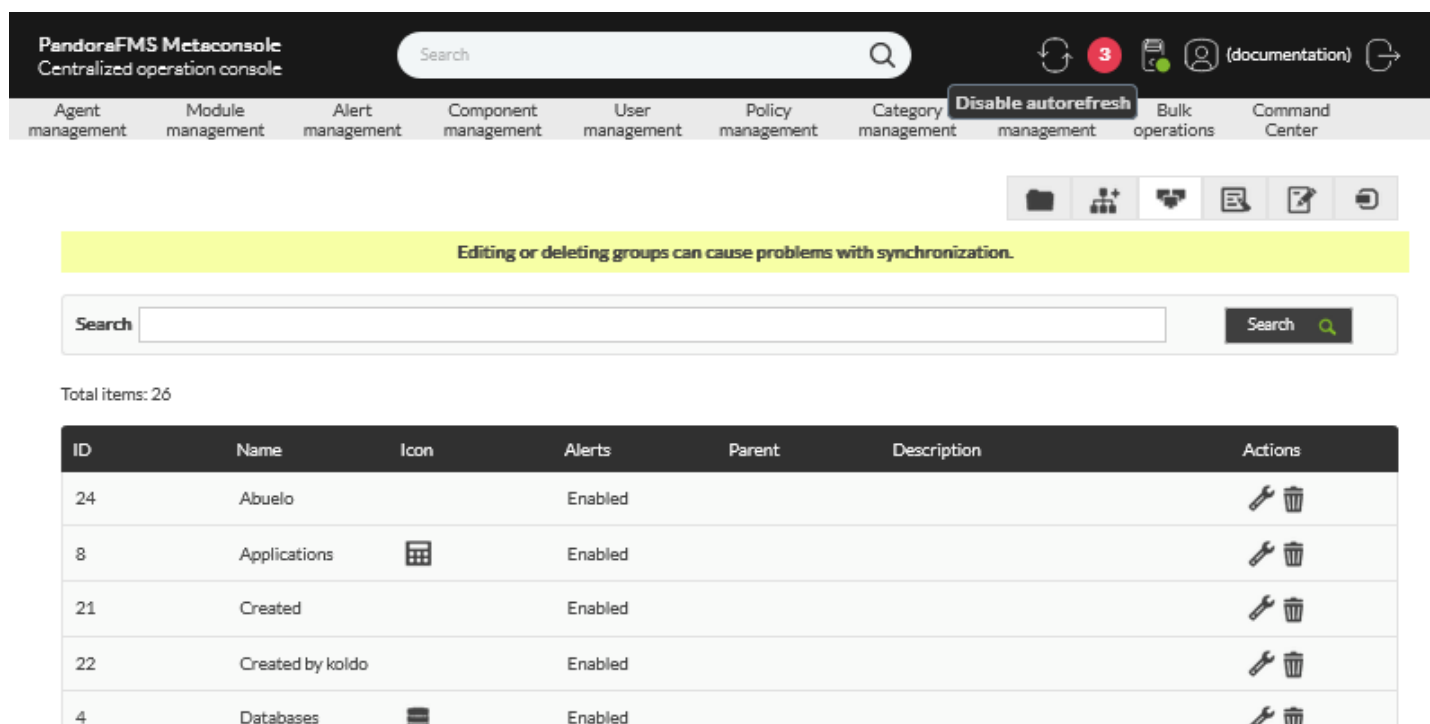
Total items: 3

| Name | Description | Execution | Actions |
|---------------|--------------------|-----------|---------|
| test autoconf | test autoconf desc | start | |
| test | | scheduled | |
| New auto | | scheduled | |

Total items: 3

[Add new configuration definition >](#)

Group management



PandoraFMS Metaconsole
Centralized operation console

Search

Agent management | Module management | Alert management | Component management | User management | Policy management | Category management | Server management | Bulk operations | Command Center

Disable autorefresh

Editing or deleting groups can cause problems with synchronization.

Search

Total items: 26

| ID | Name | Icon | Alerts | Parent | Description | Actions |
|----|------------------|------|---------|--------|-------------|---------|
| 24 | Abuelo | | Enabled | | | |
| 8 | Applications | | Enabled | | | |
| 21 | Created | | Enabled | | | |
| 22 | Created by koldo | | Enabled | | | |
| 4 | Databases | | Enabled | | | |

Allows you to edit or delete agent groups on all nodes.

Editing or deleting groups can cause problems with synchronization.

Tree group

Like [Group management](#), this option allows you to edit or delete groups of agents in all nodes but the graphical interface is in a tree form.

PandoraFMS Metaconsole
Centralized operation console

Search

Agent management | Module management | Alert management | Component management | User management | Policy management | Category management | Server management | Bulk operations | Command Center

Editing or deleting groups can cause problems with synchronization.

Found groups: 26

- Abuelo
- Applications
- Created
- Created by koldo
- Databases
- Firewalls
- GitLab 9229
- GitLab 9723
- Network

Editing or deleting groups can cause problems with synchronization.

Collections

File collections are containers of remote and local files that are in constant synchronization. Generally they are used in agents or to deploy in a massive way the scripts or plugins that later will be executed by the software agents. See the [“Collections”](#) section.

Module management

Component groups

Allows you to create, edit and delete [groups of components](#) in the nodes.

PandoraFMS Metaconsole
Centralized operation console

Search

Agent management **Module management** Alert management Component management User management Policy management Category management Server management Bulk operations Command Center



| <input type="checkbox"/> | Name | Action |
|--------------------------|---------------------|--------|
| <input type="checkbox"/> | General group | |
| <input type="checkbox"/> | Wizard | |
| <input type="checkbox"/> | Memory | |
| <input type="checkbox"/> | Disk devices | |
| <input type="checkbox"/> | Storage | |
| <input type="checkbox"/> | Temperature sensors | |
| <input type="checkbox"/> | Processes | |
| <input type="checkbox"/> | Other | |
| <input type="checkbox"/> | Power supply | |
| <input type="checkbox"/> | Fans | |
| <input type="checkbox"/> | Temperature | |
| <input type="checkbox"/> | Sessions | |
| <input type="checkbox"/> | VPN | |
| <input type="checkbox"/> | Intrusions | |
| <input type="checkbox"/> | MS SQL Server | |
| <input type="checkbox"/> | MySQL | |

Create Delete

Local components

Allows you to create, edit and delete **local components** on nodes.

PandoraFMS Metaconsole
Centralized operation console

Search

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 (documentation)

Agent management Module management Alert management Component management User management Policy management Category management Server management Bulk operations Command Center



> **Show Options**

Total items: 44

| <input type="checkbox"/> | Name | OS | Group | Op. |
|--------------------------|------------------------|----|-------------------|-----|
| <input type="checkbox"/> | BusyXML Threads | | Citrix | |
| <input type="checkbox"/> | Cache mem free | | MacOS | |
| <input type="checkbox"/> | Citrix_Sessions | | Citrix | |
| <input type="checkbox"/> | CPU Free | | Linux | |
| <input type="checkbox"/> | CPU Load | | Microsoft Windows | |
| <input type="checkbox"/> | cpu_system | | BSD | |
| <input type="checkbox"/> | cpu_user | | BSD | |
| <input type="checkbox"/> | Disk Free | | Linux | |
| <input type="checkbox"/> | Disk_IO_Wait | | Linux | |
| <input type="checkbox"/> | disk_root_free | | BSD | |
| <input type="checkbox"/> | Swap_Free | | HP-UX | |
| <input type="checkbox"/> | Users_Connected | | Citrix | |
| <input type="checkbox"/> | Windows_Update_LastRun | | Microsoft Windows | |
| <input type="checkbox"/> | Zombie processes | | Linux | |

Total items: 44

Delete Create

Network components

Allows you to add, modify, or delete **network components**.




> Show Options





Total items: 698

| <input type="checkbox"/> | Module name | Server | Type | Description | Group | Max/Min | Action |
|--------------------------|---------------------------|--------|------|--|----------------------------|-------------|--------|
| <input type="checkbox"/> | IF-MIB::ifIndex.1 | | | A unique value for each interface. Its value ranges betwe... | General group | N/A/ N/A | |
| <input type="checkbox"/> | IF-MIB::ifType.1 | | | The type of interface, distinguished according to the phy... | General group | N/A/ N/A | |
| <input type="checkbox"/> | OS Total process | | | Total process in Operating System (UNIX MIB) | UCD Mibs (Linux, UCD-SNMP) | N/A/ N/A | |
| <input type="checkbox"/> | OS CPU Load (1 min) | | | CPU Load in Operating System (UNIX MIB) | UCD Mibs (Linux, UCD-SNMP) | N/A/ N/A | |
| <input type="checkbox"/> | Sysname | | | Get name of system using SNMP standard MIB | General group | N/A/ N/A | |
| <input type="checkbox"/> | OS Users | | | Active users in Operating System (UNIX MIB) | UCD Mibs (Linux, UCD-SNMP) | N/A/ N/A | |
| <input type="checkbox"/> | Catalyst CPU Usage (5min) | | | Cisco Catayst Switches CPU Usage. Taken from ftp://ftp.ci... | Cisco MIBs | N/A/ N/A | |
| <input type="checkbox"/> | HSRP Status | | | Get status of HSRP | Cisco MIBs | N/A/ N/A | |
| <input type="checkbox"/> | ifOperStatus_if1 | | | Status of NIC#1 | Network Management | N/A/ N/A | |
| <input type="checkbox"/> | ifOperStatus_if2 | | | Status of NIC #2 | Network Management | N/A/ N/A | |
| <input type="checkbox"/> | ifOperStatus_if3 | | | Status of NIC #3 | Network Management | N/A/ N/A | |
| <input type="checkbox"/> | ifOutOctets_if1 | | | Output throughput on Interface #1 | Network Management | N/A/ N/A | |







Plugin management








































PandoraFMS Metaconsole
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Search 

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| Name | Type | Command | Op. |
|-------------------------------|----------|--|---|
| DNS Plugin | Standard | /usr/share/pandora_server/util/plugin/dns_plugin.sh |   |
| dynamic_snmp | Standard | /home/soporte/dynamic_snmp-v1r2.64 |   |
| IPMI Plugin | Standard | /usr/share/pandora_server/util/plugin/ipmi-plugin.pl |   |
| MySQL Plugin | Standard | /usr/share/pandora_server/util/plugin/mysql_plugin.sh |    |
| Network bandwidth SNMP | Standard | perl /usr/share/pandora_server/util/plugin/pandora_snmp_bandwidth.pl |   |
| Packet Loss | Standard | /usr/share/pandora_server/util/plugin/packet_loss.sh |    |
| Remote SSH exec | Standard | /var/www/html/pandora_console/attachment/plugin/ssh_pandoraplugin.sh |    |
| SMTP Check | Standard | /usr/share/pandora_server/util/plugin/SMTP_check.pl |   |
| SNMP remote | Standard | perl /usr/share/pandora_server/util/plugin/snmp_remote.pl |   |
| Test1 | Standard | /var/www/html/pandora_console/attachment/plugin/test_plugin.sh |   |
| Test2 | Standard | /var/www/html/pandora_console/attachment/plugin/test_plugin2.sh |   |
| Test3 | Standard | /var/www/html/pandora_console/attachment/plugin/test_plugin3.sh |   |
| Test4 | Standard | /var/www/html/pandora_console/attachment/plugin/test_plugin4.sh |   |
| test_merge | Standard | test_merge |   |
| UDP port check | Standard | /usr/share/pandora_server/util/plugin/udp_nmap_plugin.sh |   |
| Wizard SNMP module | Standard | /usr/share/pandora_server/util/plugin/wizard_snmp_module |   |
| Wizard SNMP process | Standard | /usr/share/pandora_server/util/plugin/wizard_snmp_process |   |
| Wizard WMI module | Standard | /usr/share/pandora_server/util/plugin/wizard_wmi_module |   |

In the **plugin** administration you can create, edit and delete these resources for the nodes centrally.

Inventory modules

PandoraFMS Metaconsole
Centralized operation console

Search

Agent management Module management Alert management Component management User management Policy management Category management Server management Bulk operations Command Center

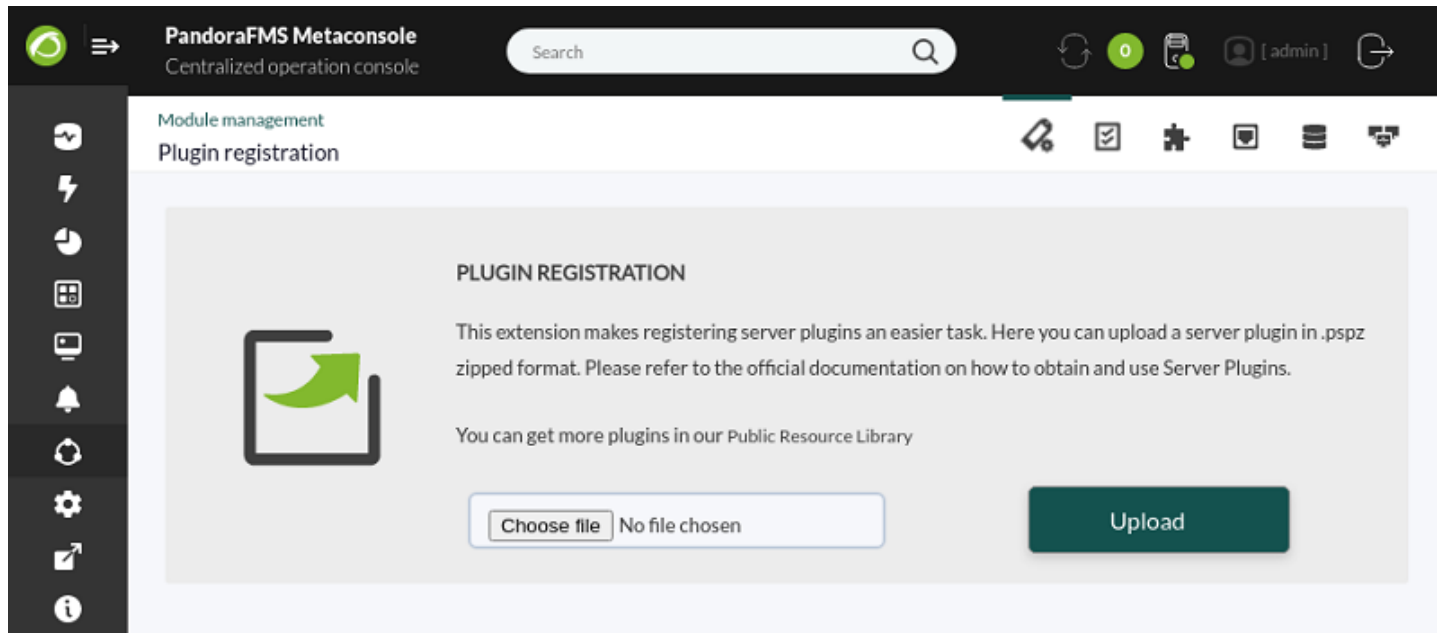


Total items: 26

| Name | Description | OS | Interpreter | Action |
|----------------------|---------------------------------------|----|--------------|--------------------------|
| CPU | CPU | | Remote/Local | <input type="checkbox"/> |
| RAM | Memory modules | | Local module | <input type="checkbox"/> |
| Video | Video cards | | Local module | <input type="checkbox"/> |
| NIC | Network Interface Cards | | Local module | <input type="checkbox"/> |
| HD | Hard drives | | Local module | <input type="checkbox"/> |
| CDROM | CD-ROM drives | | Local module | <input type="checkbox"/> |
| Patches | Installed patches | | Remote/Local | <input type="checkbox"/> |
| Init services | Services programmed to launch in Unix | | Local module | <input type="checkbox"/> |
| File system | UNIX filesystem mounted on system | | Local module | <input type="checkbox"/> |
| Process | Process running on system | | Local module | <input type="checkbox"/> |
| Users | User list | | Local module | <input type="checkbox"/> |
| Services | Services installed | | Local module | <input type="checkbox"/> |
| Software | Installed software packages | | Local module | <input type="checkbox"/> |

Use the centralized option of [inventory modules](#) to create, change, or delete this component on the nodes.

Plugin registration



The screenshot shows the PandoraFMS Metaconsole interface. The top navigation bar includes the PandoraFMS logo, the title "PandoraFMS Metaconsole" with the subtitle "Centralized operation console", a search bar, and user information "[admin]". The left sidebar contains various system icons. The main content area is titled "Module management" and "Plugin registration". It features a "PLUGIN REGISTRATION" section with a green arrow icon, a text description: "This extension makes registering server plugins an easier task. Here you can upload a server plugin in .pspz zipped format. Please refer to the official documentation on how to obtain and use Server Plugins.", and a note: "You can get more plugins in our Public Resource Library". At the bottom, there is a file selection button labeled "Choose file" (with "No file chosen" text) and a dark green "Upload" button.

It allows to add server plugins. See the Pandora FMS [component library](#) or the [creation of these components](#).

Alert management

Templates

PandoraFMS Metaconsole
Centralized operation console

Search

Agent management Module management **Alert management** Component management User management Policy management Category management Server management Bulk operations Command Center

15

Show Options

Total items: 14

| Name | Group | Type | Op. |
|------------------------------------|-------|-----------------|-----|
| 1 | | Critical status | |
| 2 | | Critical status | |
| Critical condition | | Critical status | |
| Manual alert | | Max and min | |
| Warning condition | | Warning status | |
| xxx | | Critical status | |
| bug_nombre | | Critical status | |
| Test9157 | | Critical status | |
| Copy of Warning condition_2 | | Warning status | |
| Copy of Warning condition | | Warning status | |
| Comando 18 | | Critical status | |
| unknownplant | | Unknown status | |
| criticalplant | | Critical status | |
| Copy of Copy of Warning condition3 | | Warning status | |

Total items: 14

Create >

Allows the creation, copying and deletion of **alert templates**. By expanding the Show options option you will be able to filter the alert templates by type (Type) or template name (Search).

Actions

To create, copy, edit and delete the **alert actions** for the nodes. By expanding by clicking on Show Options you can search, by key text, the name of the action (Search) and/or by groups of agents

(Group) and/or alert command (Command).

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Centralized operation console

Search

3 (documentation)

Agent management Module management Alert management Component management User management Policy management Category management Server management Bulk operations Command Center

15


Show Options





Total items: 77

| Name | Command | Group | Copy | Delete |
|-------------------|---------------|-------|------|--------|
| sleep action copy | sleep command | | | |
| Test62 | sleep command | | | |
| Test61 | sleep command | | | |
| Test60 | sleep command | | | |
| Test59 | sleep command | | | |
| Test58 | sleep command | | | |
| Test57 | sleep command | | | |
| Test56 | sleep command | | | |

Commands

PandoraFMS Metaconsole
Centralized operation console







































Search 

 3   (documentation) 

Agent management Module management Alert management Component management User management Policy management Category management Server management Bulk operations Command Center

Total items: 18

| Name | ID | Group | Description | Actions |
|---------------------------------------|----|---|---|---|
| eMail | 1 |  | This alert send an email using internal Server SMTP capabilities (defined in each server, using: <code>_field1_</code> as destination email address, and <code>_field2_</code> as subject for message. <code>_field3_</code> as text of message. <code>_field4_</code> as content type (plain/text or html/text). | |
| Internal Audit | 2 |  | This alert save alert in internal audit system. Fields are static and only <code>_field1_</code> is used. | |
| Monitoring Event | 3 |  | This alert create an special event into event manager. | |
| Alertlog | 4 |  | This is a default alert to write alerts in a standard ASCII plaintext log file in <code>/var/log/pandora/pandora_alert.log</code> |   |
| SNMP Trap | 5 |  | Send a SNMPTRAP to 192.168.0.4. Please review config and adapt to your needs, this is only a sample, not functional itself. |   |
| Syslog | 6 |  | Uses field1 and field2 to generate Syslog alert in facility daemon with "alert" level. |   |
| Sound Alert | 7 |  | |   |
| Jabber Alert | 8 |  | Send jabber alert to chat room in a predefined server (configure first <code>.sendxmpprc</code> file). Uses field3 as text message, field1 as user alias for source message, and field2 for chatroom name |   |
| SMS | 9 |  | Send SMS using the standard SMS device, using <code>smstools</code> . Uses field2 as text message, field1 as destination phone (include international prefix!) |   |
| Validate Event | 10 |  | This alert validate the events matched with a module given the agent name (<code>_field1_</code>) and module name (<code>_field2_</code>) | |
| Remote agent control | 11 |  | This command is used to send commands to the agents with the UDP server enabled. The UDP server is used to order agents (Windows and UNIX) to "refresh" the agent execution: that means, to force the agent to execute and send data |   |
| Generate Notification | 12 |  | This command allows you to send an internal notification to any user or group. | |
| Remote agent control (copy) | 13 |  | This command is used to send commands to the agents with the UDP server enabled. The UDP server is used to order agents (Windows and UNIX) to "refresh" the agent execution: that means, to force the agent to execute and send data |   |
| Integria IMS Ticket | 14 |  | Create a ticket in Integria IMS | |
| sleep command | 15 |  | |   |
| Nineteen command | 19 |  | Nineteen command |   |
| Send report by e-mail | 23 |  | This command allows you to send a report by email. | |
| Send report by e-mail (from template) | 24 |  | This command allows you to send a report generated from a template by email. | |

Create 

This section allows you to add, copy and delete **alert commands**. Note that there are system alert commands that cannot be copied or deleted.

Calendar

The screenshot displays the PandoraFMS Metaconsole interface. At the top, there is a navigation bar with the title "PandoraFMS Metaconsole" and the subtitle "Centralized operation console". A search bar is located to the right of the title. The navigation menu includes: Agent management, Module management, Alert management, Component management, User management, Policy management, Category management, Server management, Bulk operations, and Command Center. Below the navigation menu, there is a calendar icon showing the date "15" and three notification bell icons. A "Filter" button is visible. Below the filter, there is a "Show 70000 entries" dropdown menu. The main content area features a table with the following columns: Name, Group, Description, and Options. The table contains one entry: "Default" in the Name column, a globe icon in the Group column, "Default calendar" in the Description column, and a wrench icon followed by a plus sign in the Options column. Below the table, it says "Showing 1 to 1 of 1 entries" with a print icon. A "Create" button with a right-pointing arrow is located at the bottom right of the table area.

| Name | Group | Description | Options |
|---------|-------|------------------|---------|
| Default | | Default calendar | |

To edit the default calendar click the icon . To add special days click on the icon . You can also create your own calendars with the Create button.

Component management

Tags management

Shows a list of **tags** used in the modules and their count. In the Actions column you can modify or delete tags. In Show options you can filter the list by name or description.

PandoraFMS Metaconsole
Centralized operation console

Search 

























    (documentation) 

Agent management Module management Alert management **Component management** User management Policy management Category management Server management Bulk operations Command Center



 **Show Options**

Total items: 11


| Tag name | Description | Detail information | Number of modules affected | E-mail | Phone | Actions |
|----------------------|----------------------------------|--------------------|---|--------|-------|---|
| configuration | | |  0 | | |   |
| cpu_usage | CPU usage | |  0 | | |   |
| critical | Critical modules | |  0 | | |   |
| disk_rate | Disk rate | |  2 | | |   |
| disk_usage | Disk usage | |  0 | | |   |
| dmz | DMZ Network Zone | |  0 | | |   |
| dmz test | DMZ Network Zone | |  0 | | |   |
| memory_usage | Memory usage | |  0 | | |   |
| network | Network equipment | http://artica.es |  7 | | |   |
| network_usage | Network usage | |  0 | | |   |
| performance | Performance and capacity modules | |  1 | | |   |

Total items: 11

Create tag 

To add new tags click the button Create tag.

Module groups management

To manage module groups. Delete a module group with the  corresponding icon, to edit click on the name (under the Name column). With the Create module group button you can add a new module group.

PandoraFMS Metaconsole
Centralized operation console
















Search 

 **3**   (documentation) 

Agent management Module management Alert management **Component management** User management Policy management Category management Server management Bulk operations Command Center
































Total items: 15

| ID | Name | Delete |
|----|------------------|---|
| 6 | Application |  |
| 10 | Database |  |
| 11 | Enviroment |  |
| 2 | Enviromental |  |
| 4 | General |  |
| 8 | Miscellaneous |  |
| 5 | Networking |  |
| 9 | Performance |  |
| 15 | prueba |  |
| 1 | prueba |  |
| 7 | System |  |
| 13 | System of a Down |  |
| 14 | test desde meta |  |
| 3 | Test desde meta. |  |
| 12 | Users |  |

Create module group 

OS Management

| ID | Name | Description | |
|---|----------------|----------------------------------|---|
|  1 | Linux | Linux: All versions | |
|  2 | Solaris | Sun Solaris | |
|  3 | AIX | IBM AIX | |
|  4 | BSD | OpenBSD, FreeBSD and Others | |
|  5 | HP-UX | HP-UX Unix OS | |
|  7 | Cisco | CISCO IOS | |
|  8 | MacOS | MAC OS | |
|  9 | Windows | Microsoft Windows OS | |
|  10 | Other | Other SO | |
|  11 | Network | Network Agent | |
|  12 | Web Server | Web Server/Application | |
|  13 | Sensor | Hardware Agent (Sensor) | |
|  14 | Embedded | Embedded device running an agent | |
|  15 | Android | Android agent | |
|  16 | VMware | VMware Architecture | |
|  17 | Router | Generic router |  |
|  18 | Switch | Generic switch |  |
|  19 | Satellite | Satellite agent |  |
|  20 | Mainframe | Mainframe agent |  |
|  21 | OS a dos nodos | OS a dos nodos |  |
|  100 | Cluster | Cluster agent |  |
|  102 | KS7000 | OS test for tivket GitLab 8990 |  |

Total items: 22

Create OS >

Pandora FMS manages a **basic list of operating systems** to be assigned to the agents. Some of them are system operating systems and can't be deleted, but you could, in any case, edit them by clicking on their name (Name column). Add the operating systems that you use through the Create OS button.

User management

User management

PandoraFMS Metaconsole
Centralized operation console

Search

Agent management | Module management | Alert management | Component management | **User management** | Policy management | Category management | Server management | Bulk operations | Command Center



✓ Show Options

Group: Search

Total items: 57

| User ID ▲▼ | Name ▲▼ | Last contact ▲▼ | Admin | Profile / Group | Description | Op. |
|------------------------|------------------------|-----------------|-------|---|-------------|----------|
| 000 admin-all | 000 Admin-All | Unknown | | The user does not have any assigned profile/group | | |
| 001 admin-applications | 001 Admin-Applications | Unknown | | Pandora Administrator / Applications | | |

For the nodes and their users a complete list is available. You can filter by the group to which the users belong or enter a keyword in the text box to search by user name, full user name or by email address registered in PFMS.





For each user listed, in the options column (Op.):

- Click the icon to disable a user.
- Click the icon to edit a user's details.
- Click the icon to delete a user.
- To create a new user click the Create user button.




Profile management





















For the complete administration of user profiles. See the section "[Profiles in Pandora FMS](#)".

PandoraFMS Metaconsole
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Agent management | Module management | Alert management | Component management | **User management** | Policy management | Category management | Server management | Bulk operations | Command Center

| Profiles | AR | AW | AD | LW | LM | UM | DM | ER | EW | EM | RR | RW | RM | MR | MW | MM | VR | VW | VM | NR | NW | NM | PM | Op. |
|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| Eventos | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | |   |
| Operator (Read) | <input checked="" type="checkbox"/> | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | | | | | |   |
| Operator (Write) | <input checked="" type="checkbox"/> | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |   |
| Chief Operator | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |   |
| Group coordinator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |   |
| Pandora Administrator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | <input checked="" type="checkbox"/> |   |
| Alsanba | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |   |
| Edu | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | | | <input checked="" type="checkbox"/> | | |   |
| GitLab 9449 | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | |   |
| GITLAB 9500 PROFILE | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |   |

Create >


Edit my user




Using this section you will be able to [edit the user data with which you logged](#) in the Metaconsole.

Policy management

For managing monitoring policies to be applied on nodes. See "[Monitoring Policies](#)" for more details.

PandoraFMS Metaconsole
Centralized operation console

Search 

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



Agent management Module management Alert management Component management User management **Policy management** Category management Server management Bulk operations Command Center

This extension makes registration of policies enterprise.
You can get more policies in our [Public Resource Library](#)

Sfogli... Nessun file selezionato. **Group filter:** Please select... **Upload** >


Group All **Recursion** **Free text for search (*)** **Filter** >




Total items: 16

| Status | Name ▲▼ | Agents | Group ▲▼ | Op. |
|---|--------------------------------|--------|---|---|
|  | test 7886 | 0 |  |   |
|  | Basic Windows Monitoring | 1 |  |    |
|  | Basic Linux Monitoring | 0 |  |   |
|  | Basic Solaris Linux Monitoring | |  |   |

Category management



PandoraFMS Metaconsole
Centralized operation console

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Agent management Module management Alert management Component management User management Policy management **Category management** Server management Bulk operations Command Center



Total items: 1

| Category name | Actions |
|---------------|---|
| New category |   |

Total items: 1













Create category >

Allows you to manage module categories (advanced options) centrally for nodes.

- Click the icon  to edit a module category.
- Click on the icon  to delete a module category.

- To create a new module category click on the Create category button.

Server management

| Name | Status | Type | Version | Modules | Lag | T/Q | Updated | Op. |
|-----------------|--------------------------------------|---|----------------------|---------|-------|-------|-----------|---|
| meta-pandorafms | ■ |   | 7.0NG.771 (P) 230521 | 0 of 0 | - / 0 | 1 : 0 | 4 seconds |  |
| meta-pandorafms | ■ |   | 7.0NG.771 (P) 230521 | N/A | N/A | 1 : 5 | 4 seconds |  |
| meta-pandorafms | ■ |   | 7.0NG.771 (P) 230521 | N/A | N/A | 1 : 0 | 4 seconds |  |
| meta-pandorafms | ■ |   | 7.0NG.771 (P) 230521 | N/A | N/A | 1 : 0 | 4 seconds |  |

It provides information about the type, status, version, etc. of the servers in Metaconsole. To know the status of PFMS servers in the nodes use the [Command Center](#).

Bulk operations

Bulk agent operations

PandoraFMS Metaconsole
Centralized operation console

↻ 3 📄 👤 (documentation) ➔

Agent management
Module management
Alert management
Component management
User management
Policy management
Category management
Server management
Bulk operations
Command Center

👤 🔄

Action

Group

Status

Node

Agents ✕ None

Group recursion

Show agents

All

All

Delete ■

To perform [massive operations on agents](#). Using the list in Node you will be able to select the node

to apply massive changes on its corresponding agents.

- By default in Action is selected to massively delete agents.
- You will also be able to edit agents in a massive way.

PandoraFMS Metaconsole
Centralized operation console

Search

[Refresh](#) [0](#) [Admin](#) [Logout](#)

Configuration / Bulk operations

Bulk operations - Edit agents in bulk


Group **Group recursion**

Status **Show agents**

Node **All**

Agents **All**

Group

Interval 


OS


Server

Description

[Advanced options](#)

[Custom fields](#)

Action 

Update 

When editing agents in bulk, the fields that you leave blank (No change) will remain unchanged.

Bulk user operations

To perform [bulk user modifications](#).



Users

x admin

x internal_api

All



Language

No change



Block size for pagination

20



No change

Home screen



No change



Event filter

No change



Autorefresh



Full list of pages:

List of pages with autorefresh:

Agent det

Alert deta

Cluster vi

Dashboard

Events

No change

None

Time autorefresh



No change



Timezone



No change



Status

No change

Disable

Enable

Action

Edit users in bulk



Update



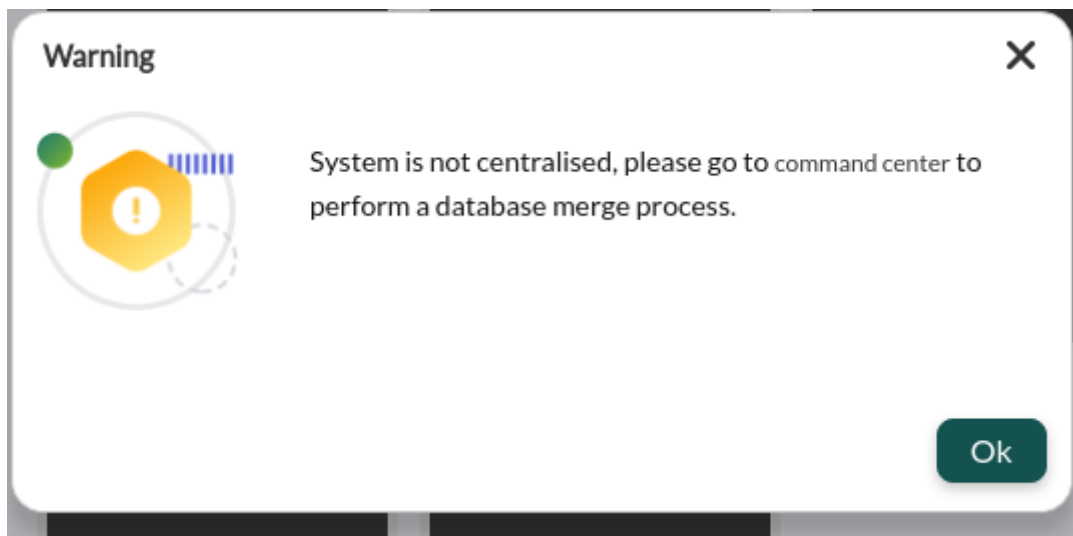
When editing users in bulk the fields left blank (No change) will remain unchanged.

Command Center

From Pandora FMS version 756, the synchronization system for environments with centralized mode has been redesigned from scratch, making it faster and more efficient, since the changes will be replicated to the nodes automatically without the need for manual synchronization, as it was the case up to now.

This change deems the previous system outdated, so in environments where it was active, it will have to go through the previous automatic merging system to use the new centralization system and be able to guarantee data integrity.

When updating, all already centralized Metaconsole environments will be forced to go through the new Merging tool section located in Centralised management to be able to be centralized again correctly.




The screenshot displays the PandoraFMS Metaconsole interface. The top navigation bar includes the PandoraFMS logo and the text "PandoraFMS Metaconsole" and "Centralized operation console". A left sidebar menu lists various management functions, with "Merging Tool" highlighted. The main content area shows the "Merging tool" configuration page under "Main / Command center". It features a section titled "Nodes priority order" with an information icon. Below this, three nodes are listed: "Metaconsole", "nodo-1-pandorafms", and "nodo-2-pandorafms". The "nodo-1-pandorafms" node is currently selected and highlighted.

For Command Center installation, and everything related to it, please visit [the topic dedicated to it](#).

Extensions

Cron Jobs

To be able to access this Metaconsole action, go to Extensions → Cron Jobs. First, configure correctly the “crontab file” like this:

 **WARNING** ✕

Cron extension has never run or it's not configured well.

This extension relies on a proper setup of cron, the time-based scheduling service. Please add the following line to your crontab file

```
*/* * * * * <user> wget -q -O - --no-check-certificate http://192.168.70.133/meta/enterprise/extensions/cron/cron.php >> /var/www/html/meta/pandora_console.log
```

Once done, perform the desired execution tasks. There is more information in the following [link](#).

[Go back to Pandora FMS documentation index](#)