mod-collectd Documentation

Release 1.0

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CHAPTER 1

Installation

Download

The Collectd module is available here:

- https://github.com/shinken-monitoring/mod-collectd

Requirements

The Collectd module requires:

- Python 2.6+
- Shinken 2.0+

Installation

Copy the collectd module folder from the git repository to your shinken/modules directory (set by *modules_dir* in shinken.cfg)

CLI installation

TODO

Manual installation

For example, if your modules dir is '/var/lib/shinken/modules':

```
cd /var/lib/shinken/modules
wget https://github.com/shinken-monitoring/mod-collectd/archive/master.zip -O mod-
↪collectd.zip
unzip mod-collectd.zip
```

CHAPTER 2

Configuration

Shinken Collectd module

Collectd module declaration

Add and modify the following configuration in *collectd.cfg*

```
define module {
   module_name Collectd
   module_type collectd

   # Specify exact host (optional)
   host        0.0.0.0
   port        25826
   multicast   False

   # Select which collectd plugin you want to group
   # Example :
   # grouped_collectd_plugins     cpu, df
   # This will group all 'cpu' plugin instances in one service called 'cpu' with all perf datas : cpu-0-wait, cpu-1-wait, cpu-0-idle, cpu-1-idle, ....
   #  AND yhis will group all 'df' plugin instances in one service called 'df' with all perf datas : df-complex-root-free, ....
   # If grouped_collectd_plugins is empty
   # This will not group plugin instances and you will have this following services : cpu-0, cpu-1, df-root, ...
   #
   # grouped_collectd_plugins
}
```

Important: You have to be sure that the *collectd.cfg* will be loaded by Shinken (watch in your shinken.cfg)

Parameters details

host Bind address

port Bind port. Default: 25826

multiscast ?????. Default: False

grouped_collectd_plugins List of collectd plugins where plugin instances will be group by plugin. Default: *empty*. Example: cpu,df,disk,interface

Receiver/Arbiter daemon configuration

Simply declare the module:

```
modules Collectd
```

Collectd agent configuration

You have to configure your Collectd agents for they send datas to Shinken. In the collectd.conf file, you have to have:

```
LoadPlugin network
<Plugin network>
    Server "192.168.2.16" "25826"
</Plugin>
```

Where *192.168.2.16* is the Receiver/Arbiter IP.

CHAPTER 3

Collectd Developer Reference

Collectd Plugin for Receiver or arbiter

class `module.module.`**`Collectd_arbiter`**(*modconf*, *host*, *port*, *multicast*, *grouped_collectd_plugins=None*, *use_decicated_reader_thread=False*)

Bases: `BaseModule`

Main class for this collecitd module

`do_loop_turn`()

class `module.module.`**`Element`**(*host_name*, *sdesc*, *interval*, *last_sent=None*)

Bases: `object`

Element store service name and all perfdatas before send it in a external command

`add_perf_data`(*mname*, *mvalues*, *mtime*)

Add perf datas to this element. :param mname: The metric name. :param mvalues: The metric read values. :param mtime: The “epoch” time when the values were read.

`get_command`()

Look if this element has data to be sent to Shinken. :return

- None if element has not all its perf data refreshed since last sent..
- The command to be sent otherwise.

`last_full_update`

Returns The last “full” update time of this element. i.e. the metric mininum last update own time.

`send_ready`

Returns True if this element is ready to have its perfdata sent. False otherwise.

`module.module.`**`get_instance`**(*plugin*)

This function is called by the module manager to get an instance of this module

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