

PANDORAFMS
E N T E R P R I S E

Pandora FMS
Administrator's Manual
SNMP Basic Monitoring



Administrator Manual, SNMP Basic Monitoring

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Indice

1Changelog.....	3
2Introduction.....	4
3Requirements.....	5
4Compatibility Matrix	6
5Modules generated.....	7
6Instalation.....	8
7Monitoring.....	9



1 CHANGELOG

Date	Author	Change	Version
12/12/12	Mario P.	First Version	v1r1

2 INTRODUCTION

This document aims to describing the basic windows and linux system monitoring remotely using a server plugin.

This plugin shows the information of % memory usage, % disk or filesystem usage, status of a process / service, % total CPU.

Normally with SNMP OIDs, we can only get the free size in bytes or % 1 processor usage, but with this we can achieve the above remotely.

3 REQUIREMENTS

The plugin has the requirements to run:

- Having remote snmp enabled server access from Pandora.
- Perl and net-snmp installed (Essential for Pandora server).

4 COMPATIBILITY MATRIX

The agent compatibility matrix is the following:

Systems where it has been tested	<ul style="list-style-type: none">• Linux (SUSE, Ubuntu...) with Pandora server
Systems where it should work	<ul style="list-style-type: none">• Any Pandora server



5 MODULES GENERATED

The Plugin create 4 possible modules.

- *% Mem Usage*
- *% CPU Usage*
- *Process Status*
- *% Disk use*

6 INSTALATION

Copy the plugin to directory plugin server (/usr/share/pandora_server/util/plugin) or load plugins by plugin loading option (pspz).

Once realized the upload and check execute permissions are correct, it must be registered in Manage Plugins.

Plug-In creation

Name:

Plug-in command:

Plug-in type:

Max. timeout:

IP address option:

Port option:

User option:

Password option:

Description:

Create

In this case, we have used the User Option field as the field snmp community.

Once you have generated this plugin, we have to create different modules which will be explained in the next section.

7 MONITORING

The setting of the plugin modules that we can generate with this plugin is:

– % Mem Usage

It shows the % RAM usage in the system. This is the configuration that must be done to get this information with the plugin.

Module management » Network component management

PLUG-IN COMPONENT

Name	% Mem Usage		
Type	Generic numeric	Module group	Application
Group	General group	Interval	custom
Warning status	Min: 0 Max: 0 Str:	Critical status	Min: 0 Max: 0 Str:
FF threshold	0	Historical data	<input checked="" type="checkbox"/>
Min. Value	0	Max. Value	0
Port			
Plug-in	SNMP remoto		
Username	public	Password	
Plug-in parameters	-m memuse	Post process	0
Description			

Create

– % CPU Usage

It shows the % CPU usage in the system. This is the configuration that must be done to get this information with the plugin.

Module management » Network component management ?

PLUG-IN COMPONENT

Name	% CPU Usage		
Type ?	Generic numeric	Module group	Application
Group	General group	Interval	custom
Warning status	Min: 0 Max: 0 Str:	Critical status	Min: 0 Max: 0 Str:
FF threshold ?	0	Historical data	<input checked="" type="checkbox"/>
Min. Value	0	Max. Value	0
Port			
Plug-in	SNMP remote		
Username	public	Password	
Plug-in parameters ?	-m cpuload	Post process ?	0
Description			

Create

– % Disk Use

It shows the % Disk or filesystem usage. This is the configuration that must be done to get this information with the plugin.

Module management » Network component management

PLUG-IN COMPONENT

Name	% Disk C: Usage		
Type ?	Generic numeric	Module group	Application
Group	General group	Interval	custom
Warning status	Min: 0 Max: 0 Str:	Critical status	Min: 0 Max: 0 Str:
FF threshold ?	0	Historical data	<input checked="" type="checkbox"/>
Min. Value	0	Max. Value	0
Port			
Plug-in	SNMP remoto		
Username	public	Password	
Plug-In parameters ?	-m diskuse -d C:	Post process ?	0
Description			

Create

In this case with the “-d “ parameter is the name of the unit or filesystem which need to get the information. The other parameterization is the same for any unit or filesystem to be monitored.

– Process Status

It shows the status of any service or process is running or not on our team to monitor. This is the configuration that must be done to get this information with the plugin.

Module management » Network component management

PLUG-IN COMPONENT

Name	Process Status		
Type	Generic boolean	Module group	Application
Group	General group	Interval	custom
Warning status	Min. 0 Max. 0 Str.	Critical status	Min. 0 Max. 0 Str.
FF threshold	0	Historical data	<input checked="" type="checkbox"/>
Min. Value	0	Max. Value	0
Port			
Plug-in	SNMP remoto		
Username	public	Password	
Plug-in parameters	-m process -p dhcp	Post process	0
Description			

Create

In this case using “-p” parameter must indicate the process to be monitored.