

PANDORAFMS
E N T E R P R I S E

Pandora FMS
User's Manual
PerfCounter Monitoring



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1 CHANGELOG

Date	Author	Change	Version
02/08/12	Tomas	First Version	v1r1

2 INTRODUCTION

This document has as main objective the description of the massive monitoring of performance counters in Windows environments with an integrated SQL service.

To extract the information, it uses:

- Powershell 2.0 Console (installed by default in Windows Server 2008 R2, and Windows 7. Available from Windows XP SP2 forward)
- An “open” interface (Pandora's as extension of the administration section) to specify free SQL queries.
- The system, that is integrated with the Windows agent.

It is important to say that the plugin of Performance Counters monitoring could be used to collect information of numerical kind (to do performance management)

3 REQUIREMENTS

The requirements in order this monitoring could work properly are the following:

- To install the Pandora FMS agent in the 3.2.1 version or higher.
- A Powershell 2.0 console to execute the plugin. By default it comes installed in Windows Server 2008 R2 and Windows 7 systems, but it should be downloaded for Windows previous versions. Powershell is not compatible with Windows XP SP1 or lower system versions.
- It is necessary that the user with which the Pandora FMS agent is executed, that is the user that will execute the plugin, has available the following system permissions:
 - Local administrator.
- The Powershell scripts execution policy should be fixed as RemoteSigned or lower.

```
Set-ExecutionPolicy RemoteSigned
```

- The different plugins will get automatically the information about all the counters that we have specified to it in a list in the *counters.txt* file and it will generate one module for each one in Pandora (Plugin PerfCounter).

4 COMPATIBILITY MATRIX

The agent compatibility matrix is the following:

Systems where it has been tested	<ul style="list-style-type: none"> • Windows XP SP2 • Windows Server 2003 • Windows Server 2008 • Windows Vista • Windows 7
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Systems where it should work	<ul style="list-style-type: none"> • Same system of higher with requirements installed.
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Depending on the language of the system, the format of the counters to monitor could change, so it would be necessary to adapt the counters.txt file according to those circumstances.

5 SOFTWARE AGENT MODULES GENERATES CLASSIFICATION

The verification of performance counters is done through the `Pandora_Plugin_PerfCounter.ps1` plugin and could be applied in different policies for different technologies, each of them with different counter lists depending on which we want to monitor in each of those technologies.

Monitor technologies to be included in the file `counters.txt` or if we did not use it would charges the default Get-Service counters.