TECHNOLOGIES MONITORED

BY PANDORA FMS

INDEX

Apache

Windows IIS Internet Information Services

JBoss

Sun ONE Open Net Environment

ORACLE TUXEDO

TOMCAT

WebSphere

NGINX

Microsoft Exchange

Lotus

Microsoft Cluster

DR:BD

MySQL

ORACLE

mongoDB

Microsoft SQL Server

PostgreSQL

Informix SOFTWARE

IBM DB2

SAMBA

DNS

redhat RHEV

vmware

Microsoft Hyper-V

Xen

amazon web services

Jmx GENERIC

OS

CITRIX

SAP

Active Directory

Asterisk

VARNISH SOFTWARE

Microsoft Forefront

BACULA

flash STREAMING

PGP

OpenLDAP http://www.OpenLDAP.org

RSA ACE/Server

McAfee

APPLICATION SERVER

APACHE

* Service: httpd * Bytes per request * Bytes per second *Web server CPU load *Requests per second *Active requests * Idle processes *Uptime *Total number of hits * Traffic volume.

JBOSS

* Status (per instance) *Listener status * Available heap *Threads in use *Transactions *Requests *Traffic volume *Average CPU usage *Active HTTP threads *Connections established *Number of connections *CONN *WAIT *ACK *WAIT *WAIT2.

TUXEDO

* HTTP timeout *advanced log parser for errors *Volume occupation *Dbspace occupation *Custom metrics using onstat *Custom metrics using tmadmin *Client connections *Queue checks.

ISS

* AppPool status *Site status *URL status *Error detection 404 *500 *503 *504 and *505 *Anonymous requests per second *Traffic volume *CGI requests per second *Asynchronous requests blocked* SSL connections *Total connections *POST requests per second.

SUN ONE WEB SERVER

* Web server status * Bytes per request *Bytes per second *Web server CPU load *Requests per second *Active requests *Idle processes *Uptime *Total number of hits *Traffic volume.

TOMCAT

* Web server status *CPU load * Memory *Number of threads *Number of custom threads * Custom Tomcat metrics using SNMP or JMX.

WEBSPHERE

*WAS server status *WAS server performance: *CPU *RAM *Traffic volume *JVM custon metrics *Activity of the pools of threads per instance *Transactions metrics per instance *Filesystems.

NGINX

*Connections per second *Requests per second *Keep-alive connections.

MAIL

EXCHANGE

*Process and subprocesses monitorization *Temporal files monitorization *Queued messages *Requests per second *Total number of agent's invocation *CPU usage *OWA access *ActiveSync connection *Internal Outlook *Outlook Webapp *Services: *Web server *IMAP4 *POP3 *Database replication status *Average OWA time response *Average wait time *Queued requests *Latency *Remaining synchronizations *Requests per second *RCP/HTTP *Unique users connected *Navigation latency *Average CPU usage *Memory used *Read/write rate in disk *Transport queue size *Delivered messages per second *Elements in the thrash *Number of mails erased per second *Total elements per queue *Edge and Transport service metrics.

LOTUS NOTES

*Active Directory monitoring *Services: *Lotus Domino Server *PGPServ *Slapd-ssq *Slapd-duct *TSMSched *Tasks: *HTTP *ROUTER *SMTP *LDAP *DIIOP *Ports 45103 *SMTP.

SMTP, IMAP AND POP3

*Verify proper operation of your mail system through consultations with standard protocols *SMTP *IMAP y *POP3.

HIGH AVAILABILITY

MICROSOFT CLUSTER

* Services: *FileScreen *QuotaAdv *SecurePathAgent *Samss *SpntSvc *LSMTP *Group checks *Resources checks*Network checks * Number of files opened * Internal application events.

DRBD

* Filesystem usage (%) associated to a resource * Resource status inside drbd * Resource's role inside drbd * Filesystem status associated to a resource * KBytes sent to the partner through the network * KBytes received from partner * KBytes written for the resource in the local computer * KBytes read from the resources in the local computer * Number of log changes * Changes in the bitmap * Number of requests sent to the partner, but not yet been responded * Number of requests opened to the I/O subsystem from DRBD * Number of requests received from partner through the network, but have not been responded yet * Number of I/O blocks sent to DRBD not responded yet * Amount of storage out of synchronization (kikibytes) * Heartbeat status * Number of processes running from the heartbeat.

HSRP, VRRP Y LVS

* Compatibility with standard and proprietary protocols to check the status of distributed architectures.

DATABASES

MYSQL

* Database service and connection status ***** CPU usage ***** Memory ***** Active connections *****Open tables ***** Requests per second ***** Active threads ***** Blocked tables on hold ***** InnoDB metrics ***** Traffic volume ***** Number of SELECT ***** UPDATE ***** DELETE ***** INSERT performed ***** Uptime ***** Database filesystem monitorization.

ORACLE

* Database service and listener status ***** Cache metrics: ***** Hits ***** Failures ***** Disctionary size ***** Internal performance metrics: ***** Read/write latency ***** buffer monitorization ***** Queues ***** Locks ***** CPU usage ***** Memory ***** Table performance ***** Rows ***** Queries ***** Database filesystem monitorization ***** Custom queries performed by the user ***** ORA alerts per instance.

MONGODB

* Database status ***** Performance metrics: ***** Number of insert ***** Update ***** Delete per second ***** Queries per second ***** Flushes ***** Pagefaults ***** Btree index failures ***** Traffic volume ***** Openned connections per instance ***** Number of clients reading/writing.

MICROSOFT SQL SERVER

* Database service and instance status ***** CPU usage ***** Idle time ***** Volume of I/O packages ***** Read/write errors on disk ***** Total read/write performed ***** Internal metrics from the database: ***** Allocated pages ***** Scans per second ***** Cache performance ***** Buffers ***** Mirroring status ***** Transactions per second ***** Tables performance ***** Internal statistics.

LIST OF MODULES
OF PANDORA FMS

POSTGRE SQL

* Database and listener status *****CPU *****Memory *****Active locks *****Number of commits / rollbacks *****Active processes on the server *****Number of searches performed.

INFORMIX

*Application status *****CPU metrics and memory usage per instance *****Advanced log parser for error detection *****Volumes occupation *****Dbspaces *****Custom metrics using onstat.

DB2

*Availability data gathering from a DB2 server *****Availability checks of databases in an instance *****Availability checks of applications in an instance *****Filesystem or logical volume free space *****DB2 Total Connected Application Count *****DB2 Total Disconnected Application Count *****DB2 Active Application Count.

NETWORKS AND SERVICES

NETWORK DEVICES

*Availability (ICMP) ***** Latency (ICMP) *****Open ports *****Application checks using TCP protocol conversation through a port *****SNMP traps *****v1 *****v2 *****v3 *****Through SNMP v1/v2/v2c/v3 polling we can get NIC's status *****Input/output traffic per interface *****Error rate *****MTU ***** Custom values.

SNMP NETWORK DEVICES

*Complete support (Polling and traps) of SNMP v1,v2 and v3 *****Every manufacturer: *****Cisco *****HP *****Dell *****D-Link *****IBM *****Linksys *****Huawei *****Nec *****Nokia *****3Com *****Nortel, etc.

SAMBA

*SMB sessions *****SMB read errors *****Number of SMB connections *****File existence checks *****Última modificación de un fichero *****Last modification of a file.

USER EXPERIENCE
WEB MONITORING

*Website status checks *****Website content checks *****Latency and time response of a defined web transaction *****Information gathering from a website or a web transaction *****Change detection in a website.

DNS

*DNS server time response *****IP/Domain tuple checking.

VIRTUALIZATION

RHEV

*Datacenter status *****Virtual network status *****Spanning Tree Protocol checks *****VM and Stateless/HA checks *****Auto-discovery of the virtual infrastructure.

HYPERV

*Per Host: *CPU *****Memory *****Dynamic balancer memory *****Traffic volume *****Read/write disk rate. ***Per VM: ***CPU *****Memory *****Traffic volume *****Read/write disk rate *****Volumen de tráfico. ***Per Host: ***VM's in critical state *****Free disk (%). ***Per VM: ***Snapshopts' uptime control *****Host status *****VM status.

VMWARE/ VSPHERE

*Power status *****Activity *****Host's SSL fingerprint *****CPU usage *****Disks *****Physical memory *****Uptime *****Read/write latency *****Traffic volumen *****NIC status *****Network and VM status *****CPU *****Disks *****Physical memory *****Guest's OS operational mode *****Read/write disk rate *****Network connectivity *****VMWare alerts *****Datastore status *****Max capacity *****Free space *****Over allocation of the disk *****Auto-discovery of the virtual infrastructure.

XEN

*It scans all available domains *****Extracts its status *****CPU *****MEM *****DISK and Net usage *****Status of virtual machines (stopped, alive, etc).

AMAZON EC2

*For AWS/EC2 Namespace: *****CPUUtilization *****DiskReadBytes *****DiskReadOps *****DiskWriteBytes *****DiskWriteOps *****NetworkIn *****NetworkOut. ***For AWS/EBS Namespace:** *****VolumeIdleTime *****VolumeQueueLength *****VolumeReadBytes *****VolumeReadOps *****VolumeTotalReadTime *****VolumeTotalWriteTime *****VolumeWriteBytes *****VolumeWriteOps.

OTHERS

JMX

*Information and statistics about the application server *****Information about the application server host OS *****Status information of every Servlet deployed in the application server *****Memory used by the server *****Information of every Mbean of the application server *****Thousands of monitors for *****Tomcat *****Weblogic *****WebSphere *****Jboss *****GlashFish, etc.

OPERATING SYSTEMS

*Full support for the following OS: *****Windows NT4 *****Windows 2000 *****Windows 2003 *****Window XP *****Windows 7 *****Windows 2008 *****Windows 8 *****Solaris (since version 6) *****AIX (since version 4) *****Linux (any version) *****HPUX (since version 10.x) *****FreeBSD ***** NetBSD *****OpenBSD (every version) *****Novell Netware (using SNMP) *****z/OS (using Unix Services).

CITRIX

* Services: *****HCA *****CTXCpuusync *****CtxcpuSched *****IMAService *****CtxHttp *****MFCom *****Citrix SMA Service *****Cpsvc *****Citrix Virtual Memory Optimization *****SpntSvc. *****Terminal server errors *****Security policies *****Licence server connection checks *****Licences expiration checks *****Citrix internal monitorization *****Metaframe errors.

SAP/R3

*System up *Workprocess control (SM50) *DIA workprocess with errors *BGD workprocess with errors *UPD workprocess with errors *UP2 workprocess with errors *SPO workprocess with errors *ENQ workprocess with errors *Workprocesses without active restart *Workprocess stopped *System lock entries (SM12) *System list of lock entries (SM12) *Erroneous batch input in the system since yesterday (SM35) *Cancelled jobs (and another 50 monitors).

ACTIVE DIRECTORY

*Services: *NTDS *Kerberos key Distribution Center *File Replication Server and DNS Server *LDAP performance metrics: *Cache search per second *Domain controller read time *Domain controller search time *Domain processes read time *Domain processes search time *Domain controller long running *Replication errors *Synchronization and application integrity.

ASTERISK

*Registered peers *Number of active calls *Clock deviation *Service status.

VARNISH

*Cache metrics: *Hits *Failures * Dictionary size *Internal performance metrics: *Connections per second *Requests per second *Advanced metrics per worker.

FOREFRONT IDENTITY MANAGER

* Services *FIMSynchronizationService *TaskScheduler *MSSQLServer * MSSQLServer_VSS_Writer *WindowsTime *Average length of logical disk *Database synchronization log file size *Log percentage used *Database transactions per second *FIM specific events.

BACULA

*Number of clients *Tapes *Generic storage devices *Jobs *Jobs stored in tapes *Size occupied on tapes *Jobs without errors since today/yesterday/last month/ any month *Jobs with errors since today/ yesterday/last month/any month.

FLASH STREAMING

* S t r e a m i n g monitorization for rpmpre *****Rtmp and http streaming types based on FLV.

OPEN LDAP

*Verify that your LDAP server authentication works correctly for a particular user *****Run a custom query.

EPOLICY ORCHES-TRATOR

*Verify that your LDAP server authentication works correctly for a particular user *****Run a custom query.

PANDORA GATEWAY
PERFORMANCE

*Checks of the status of the tool by SNMP polling and manufacturer's MIB *****Synchronization and completeness of the application.

RSA/ACE SERVER

*Check the status of your server SecureID authentication and VPN's.

PANDORAFMS

For further information:

Gran Vía 62, St.
(+34) 91 559 72 22
info@artica.es
pandorafms.com