

ORACLE®



vmware®



Index



## 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 tadmin \* Client connections \* Queue checks.



**IIS** \* 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.

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

## NGINX

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

# Mail server



**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.

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



**OFFICE 365** \* Logs \* Dynamics \* Azure protection \* Exchange online \* Finance and operations \* Identity service \* Bookings \* Defender ATP \* Forms, etc.

## High availability



**Microsoft CLUSTER** \* Services: \* FileScreen \* QuotaAdv \* SecurePathAgent \* Samss \* SpntSvc \* LSMTMP \* 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.



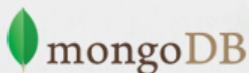
**Microsoft SQL Server** \* Database service and instance status \* CPU usage \* Idle time \* Volume of I/O packages \* Read/write errors on disk \* Total read/write performed \* Internal metrics from the database: \* Allocated pages \* Scans per second \* Cache performance \* Buffers \* Mirroring status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



**ORACLE** \* Database service and listener status \* Cache metrics: \* Hits \* Failures \* Dictionary 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.



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



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



**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.

## 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 \*Dynamic memory in use \*Traffic volume \*Read/write disk rate \*Volumen de tráfico \*Per Host: \*VM's in critical state \*Free disk (%) \*Per VM: \*Snapshots' 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).

## Networks and services



**Dispositivos de red** \*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.



**Dispositivos de red SNMP** \*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.



**Experiencia de usuario web 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.



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



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

## Cloud



**AMAZON** \*EC2 \*RDS \*Cost metrics \*Automated scanning.



**AZURE** \* Compute (virtual machines) \* aAutomated scanning.

## 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.



**Flash Streaming** \*Streaming monitorization for rtmpre \*Rtmp and http streaming types based on FLV.



**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.



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



**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.



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



**EPOLICY ORCHES-TRATOR** \*Verify that your LDAP server authentication works correctly for a particular user \*Run a custom query.



**RSA/Ace SERVER** \*Check the status of your server SecureID authentication and VPN's.

---

#### North America

Brickell City Tower  
80 S.W. 8th Street  
Miami, USA  
Tel.: +1-305-900-6683  
[info@pandorafms.com](mailto:info@pandorafms.com)

#### EMEA

Casas de Miravete 22-24  
Ed. 24A, Planta 3 Oficina 3  
28031 Madrid  
Tel.: +34-91-559-72-22  
Tel.: +33-7-555-39-209  
[info@pandorafms.com](mailto:info@pandorafms.com)

#### Latin America

Tel: +51-164-190-94  
Tel: +52-5585-264-997  
[info@pandorafms.com](mailto:info@pandorafms.com)

#### Asia and Pacific

Rworks, Inc  
Tel: +81-3-5946-8405  
[rw-sales@rworks.jp](mailto:rw-sales@rworks.jp)