

SYSTEM MONITORING PLUG-IN FOR HOSTS FOR OPERATING SYSTEM AND HARDWARE



KEY BENEFITS

- Out-of-box availability and performance monitoring for Linux, Unix and Windows;
- Advanced monitoring and event management features;
 - Blackouts
 - Corrective Actions
 - Notifications
 - User-defined Metrics
 - Monitoring Templates
 - Dashboards

The System Monitoring Plug-in for Hosts for Operating System and Hardware delivers comprehensive monitoring, administration and configuration management capabilities for Windows, Linux and Unix (Solaris, AIX and HP-UX) servers, significantly reducing the complexity and cost associated with managing operating system environments.

System administrators can now centralize all of the server information in the Enterprise Manager Console, assess the impact of server performance on end-user services, and better align their efforts with business needs. Database and application administrators can now understand server performance in the context of their applications and perform better diagnostics and root cause analysis.

Server Monitoring

As soon as the Enterprise Manager Management Agent is deployed to the server, Enterprise Manager automatically starts collecting comprehensive availability and performance information with pre-defined thresholds, immediately alerting administrators of potential problems. This allows administrators to derive instant value, while giving them the flexibility to fine-tune thresholds according to their specific operational requirements. Among the more than one hundred and twenty metrics collected, some of the key performance parameters monitored include: CPU utilization, memory utilization, disk I/O and Top processes.



Figure 2: Performance page displays key performance statistics for a Windows server.

In addition to real-time monitoring, all of the collected information is also stored in the management repository, thereby enabling administrators to analyze performance

through various historical views and facilitating strategic tasks such as trend analysis and reporting.

System Monitoring Plug-in for Hosts also leverages Enterprise Manager's full suite of monitoring and event management features for operating system monitoring, delivering a powerful monitoring solution through automation, standardization and "manage many-as-one" approach. Some of the key monitoring features includes: Alerts, Notifications, Blackouts (planned outages), User-defined Metrics, Corrective Actions, Groups and Systems, and Monitoring Templates.

Customize Linux and UNIX Monitoring for the Application running on the server

For Linux and Unix Hosts, the Plug-in offers specific features to customize server monitoring for the applications running on the server:

Log File Monitoring – allows administrators to monitor any Linux and Unix log files for the occurrence of specific patterns, such as application errors and fault conditions.

File and Directory Monitoring – enables administrators to monitor the size, rate of growth and permissions of Linux files and directories.

Program Resource Utilization Monitoring – provides capabilities to track resources usage of Linux and Unix programs and/or users.

Customize Windows Monitoring for the Applications Running on the Server

For Windows Hosts, the Plug-in delivers Windows Event Log monitoring functionality, thereby enabling administrators to customize server monitoring to the applications running on the server. Out-of-box, Enterprise Manager monitors system and security log files for error and warning conditions, immediately alerting administrators when error conditions occur. In addition, administrators can monitor application log files for application errors and fault conditions.

Storage Resource Utilization Monitoring

Tracking storage resource allocation and usage is essential to large IT departments, as unallocated and underutilized storage can then be put to better use. In addition, enterprises need to understand historical trends at a business entity-level in order to effectively plan for future growth. The System Monitoring Plug-in for Hosts presents comprehensive storage information for Linux and Unix servers, at the individual server and group levels. Detailed Storage Reports summarize storage utilization, provisioning and consumption across different storage layers (such as Disks, Volumes, Oracle Automated Storage Management managed data, Files Systems and Databases). In addition, historical storage usage is presented, enabling administrators to analyze trends and predict future storage needs.



Figure 2: Storage report for a Linux server.

Server Administration

The System Monitoring Plug-in for Hosts significantly simplifies the error-prone and time-consuming server setup tasks, by providing the following server administration capabilities:

- **Remote OS Command Execution:** Remotely run OS commands on a single server or group of servers;
- **Remote File Editor:** Securely edit server files;
- **Job System:** Capability to run scheduled jobs on a server or across a set of servers;
- **System Services Administration:** For Linux Hosts, capability to start/stop services, configure services to run at boot time, and assign services to run levels;
- **Network Setup:** For Linux Hosts do NFS Client configuration, network card configuration, view and edit host lookup table (/etc/hosts file).

Configuration Management and Compliance

Oracle Enterprise Manager collects and maintains an inventory of server components in a centralized configuration repository. This simplifies the tracking of configuration changes, the comparison of multiple server configurations, and the assessment of configuration compliance based on predetermined policies. User-defined reports can be generated based on the data in the configuration repository. Oracle Enterprise Manager also helps reduce the on-going costs for IT compliance. It provides out-of-the-box policies to enforce configuration best practices and regulatory compliance. In addition, users can author their own policies to match their specific data center and company needs. The application tracks any policy violations and supports automated corrective actions to bring systems back into compliance.

Hardware Monitoring

System Monitoring Plug-in for Hosts also includes hardware monitoring for Dell

PowerEdge server through Dell Open Manage integration.

Integrated Management

The System Monitoring Plug-in for Hosts provides an enterprise-class Host management solution. The Plug-in works in conjunction with Enterprise Manager's complete solution, enabling world-class system management that is integrated for top-down application management including service level management, change and configuration management, application performance management, and infrastructure automation.

Related Offerings

Available exclusively as a part of the Oracle Unbreakable Linux support program, the Oracle Management Pack for Linux includes the monitoring and administration capabilities of the System Monitoring Plug-in for Hosts as well as a rich set of Linux provisioning, patching and configuration management features. To learn more about the Oracle Management Pack for Linux, visit http://www.oracle.com/technology/products/oem/omp_linux.html

Contact Us

For more information about System Monitoring Plug-in for Hosts for Operating System and Hardware, please visit oracle.com/enterprise_manager or call +1.800.ORACLE1 to speak to an Oracle representative.



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