

WhatsUp Gold Application Performance Monitoring (APM) Suite

Optimize Application Availability and Performance from a Single, Powerful Management Platform

WhatsUp Gold's APM (Application Performance Monitoring) helps IT Managers to optimize the availability and performance of their business critical applications. WhatsUp Gold APM collects performance statistics and measures the overall health of applications across multiple devices, servers and systems. It provides a comprehensive tool set that allows IT managers to:

- Quickly identify root causes of application performance problems.
- Proactively alert on potential problems before applications fail.
- Continuously optimize overall IT performance to improve application delivery.

WhatsUp Gold APM exposes all IT dependencies impacting an application's availability and performance, including the dependencies on:

- The physical and virtual servers they run on.
- The supporting applications (web servers, databases, etc.) they rely on.
- The network they live on

Monitoring Applications with WhatsUp Gold APM

Application Profiles

Turnkey Application Profiles specify how to monitor an application and what actions to take when an application or a monitored component changes state. WhatsUp Gold APM's intuitive Application Profile development utility guides you through a simple process to quickly generate custom Application Profiles and to modify existing Application Profiles into specific Application Instances. Custom Application Profiles developed by our users are shared through our award-winning WUGSpace Community website.

Provides visibility into all components supporting your business critical applications.

Operating Systems
Email and Directory Services
Virtual Infrastructure

Application and Database Servers
Physical Server Hardware
Enterprise Scalability

Web Servers
Email and Directory Services

WhatsUp Gold APM Application Profiles feature:

Components

A component is any single data point monitored by WhatsUp Gold APM. Active components regularly poll services and processes like POP3, IMAP4 and Event Handler for MS Exchange, to determine their state — Up/Down/Warning/Maintenance/Unknown.

Performance components gather data on performance metrics like CPU and Memory utilization. Thresholds can be assigned to performance components to initiate user-defined Action Policies.

Critical Component Groups

Unique Critical Component Groups allow you to apply advance logic to define complex component interdependencies when assessing an application's health. They are comprised of Non-Critical components that, individually, do not put an application in the "Down" state, but will do so in combination.

Complex Applications

Most applications are dependent on the performance of other applications like web servers and databases. If a database is "Down," it stands to reason that the applications it supports are "Down" as well. APM provides the unique ability to specify inter-application dependencies. With Complex Applications, a change of state in a supporting application will result in a corresponding change of state in a dependent application.

Action Policies

Action Policies define a multi-step action path when a monitored component or application changes state — Notification, Write Event Log, Run Scripts (ie. Reboot). Active and PowerShell scripting provide for a wide-range of actions.

APM allows you to create action policies with multiple actions. When an application goes into the "Down" state you can specify an action path that immediately writes a log entry, five minutes later kicks off an action script to reboot the system, and after ten minutes sends an Email notification.

Out-of-the-Box Application Components

WhatsUp Gold APM ships with a comprehensive library of components for the most popular applications, operating systems and hardware types, including:

Operating Systems

Microsoft Window Server
2003 & 2008
Linux (SSH support required)
Unix (SSH support required)
HP-UX (SSH support required)

Network Services

DNS Port
SNMP, SMTP, TCP Port
POP3, IMAP4
Sendmail
FTP
Cisco Call Manager

Application Servers

IBM WebSphere
Microsoft IIS
WebLogic
Microsoft .NET
Microsoft Sharepoint 2007 & 2010
Oracle 10g
WMI Performance Counters
Window Script
Linux/UnNIX Script
Active Script
SSH
Windows Service, Windows Print
Service, Windows Event Log
Process Monitor
File and Directory

Virtual Servers

VMWare (ESX Server)

Web Servers and URL

HTTP and HTTPS
Microsoft IIS
Apache

Email and Directory Services

Microsoft Exchange 2007 & 2010
Microsoft Active Directory
BlackBerry Enterprise Server

Database Servers

Microsoft SQL Server
Oracle
SQL query and ODBC

WhatsUp Gold APM Minimum Requirements:

Hardware

CPU	Dual-core 2GHz or faster
Memory	4 GB RAM
Disk	8 GB available hard disk space

Install Requirements

.NET Framework version 4.0
SQL Server Express 2008 R2
WhatsUp Gold Premium version 16.1

Operating Systems

Windows Server 2003 Standard SP2 for 32 and 64-bit editions
Windows Vista Ultimate and Business for 32 and 64-bit editions
Windows Server 2008 for 32 and 64-bit editions
Windows Server 2008 R2
Windows 7 for 32 and 64-bit editions

Databases

Microsoft SQL Server 2005
Microsoft SQL Server Express 2005
Microsoft SQL Server 2008 R2 Standard Edition
Microsoft SQL Server 2008 R2 Enterprise Edition
Microsoft SQL Server Express 2008

Microsoft Runtime Environment and Libraries

Microsoft Windows Scripting Host version 5.7

Supported Virtual Environments

VMWare ESX 3.5, 4.x and ESXi 3.5, 4.x
Microsoft Windows Server 2008 R2 Hyper-V

Browsers

Google Chrome (recommended)
Microsoft Internet Explorer version 7.0 and 8.0
Mozilla Firefox version 3.6.x