

# Nimsoft Monitor for Active Directory

## Insights for Maximizing Reliability and Performance

### Features

- Centralized views of all vital Active Directory performance data.
- Point and click access to high level server status and detailed check-point information.
- Intuitive installation and seamless integration.

### Benefits

- **Improved performance and uptime.** Proactive monitoring and alerting accelerates identification of performance issues—enabling response before end user productivity is affected.
- **Enhanced resource optimization.** Centralized, cohesive view of performance delivers insights into opportunities for resource optimization.
- **SLA compliance.** Instant alerts and real-time dashboards notify service managers in advance of SLA compliance breaches.

### Introduction

If an enterprise's Windows infrastructure has a heart, it is certainly located within Active Directory. A central component of the Windows platform, the Active Directory service provides the means to manage the elements, users, and relationships that make up the corporate network. Through Active Directory, organizations manage which users can access which applications, which email address gets routed to which user, and the list goes on. As such it's a critical hub that plays a vital role in the proper functioning of an organization's Windows infrastructure—and so that of the very business. How can organizations ensure their vital Active Directory services are functioning optimally? How can administrators gain visibility into potential issues—before they affect users?

### The Solution

Nimsoft Monitor for Active Directory solution offers an effective way to monitor and manage the performance of an organization's Active Directory servers. With Nimsoft Monitor, organizations gain a comprehensive view of all critical processes taking place, enabling administrators to not only understand, but control how the Active Directory servers perform. With these insights, administrators can identify and address minor performance issues before they result in outages. Nimsoft Monitor is fully integrated with the Nimsoft Monitor product family, enabling enterprises and service providers to manage their entire infrastructure with a single solution.

#### Active Directory Replication Monitoring

Given the central, vital role Active Directory plays in so many of an organization's critical processes, the need for replication to happen quickly and consistently is of paramount importance—if it's slow or unreliable, critical business processes can be hampered or stop altogether. Nimsoft Monitor provides the information administrators need to monitor replication and ensure it happens how and when it needs to.

Nimsoft Monitor enables organizations to monitor all their Active Directory servers, both within an office and those at any number of remote locations. With the Nimsoft Monitor probe, administrators can continually monitor the

following replication aspects:

- **Write performance.** For replication to occur, the primary server must accept updates. The Nimsoft Monitor probe ensures this is the case, monitoring both whether the server can be written to and, if so, how long it takes.
- **Read performance.** The Nimsoft Monitor probe monitors this activity, verifying whether Active Directory server objects and attributes can be read, and if so, how long it takes to do the read.
- **Replication reliability.** The update written to the primary server must be reliably propagated to all applicable secondary servers. The Nimsoft solution can verify whether the data update made at the primary server was successfully written to each of the secondary servers.
- **Replication performance.** The time between the update occurring on the primary server and the time it takes that change to be reflected across Active Directory servers in the forest is a critical metric. The Nimsoft Monitor probe can measure the duration it takes for changes to make it from a primary to a secondary server.

Further, Nimsoft Monitor enables administrators to set thresholds for any of the intervals measured, and when those thresholds are exceeded, alarms can be triggered, for example, if the length of a read operation or the duration of data replication takes too long, administrators will be instantly notified.

### Active Directory Server Availability and Response

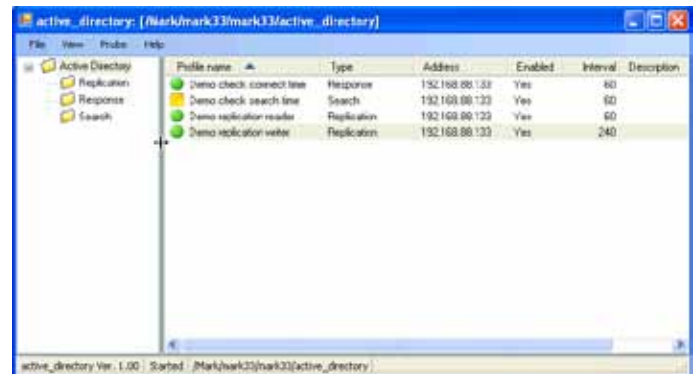
If an Active Directory server is slow in responding or goes down altogether, administrators need to get immediate notification, and with Nimsoft Monitor, they can. At user defined intervals, Nimsoft Monitor will test whether associated applications and services can access the Active Directory server, and, if so, how long it takes to establish a connection.

### Active Directory Query Response

Given the constant, critical demands placed on Active Directory's query capabilities, administrators need to know whether those capabilities are functioning, and functioning in an expected behavior. With Nimsoft Monitor, administrators gain fast, convenient visibility into whether query capabilities are operational, and, if so, how long a single query takes, and whether the expected number of search results is returned.

### Prerequisites

To operate the Nimsoft Monitor for Active Directory, the Microsoft .Net 2.0 Runtime Library is required.



Profile name	Type	Address	Enabled	Interval	Description
Demo check connect line	Response	192.168.88.133	Yes	60	
Demo check search line	Search	192.168.88.133	Yes	60	
Demo replication reader	Replication	192.168.88.133	Yes	60	
Demo replication writer	Replication	192.168.88.133	Yes	240	

### Part of the Nimsoft Monitor Family

With Nimsoft solutions, enterprises and service providers gain a centralized, cohesive view of their entire infrastructure. Whether an IT organization wants to monitor a specific network element, or the entire infrastructure on which a mission-critical application is based—including the associated network elements, databases, application server, and more—they can do it all with the Nimsoft product suite.

In addition to the Nimsoft Monitor for Active Directory solution, the Nimsoft product family includes application solutions for Citrix, Exchange, IIS, Lotus Notes, SAP R/3, WebLogic, WebSphere, and other widely deployed applications. These are complemented by database modules for DB/2, Informix, Oracle, SQL Server, and Sybase ASE; server platform solutions for Windows, UNIX, Linux, AS400/iSeries, and Novell Netware; and solutions for managing network infrastructure, including routers, switches, firewalls, and more.



## About Nimsoft

Nimsoft is a global leader in IT Management-as-a-Service. The company's lightweight ITMaaS solutions make it easy for enterprises and service providers to implement comprehensive, adaptable monitoring and service desk capabilities essential for managing today's dynamic computing environments. Learn more at [www.nimsoft.com](http://www.nimsoft.com).

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