point to point

AppSense Performance Manager

Key Benefits

- Optimal application response
- Matches of business policy to resource use
- Improve system capacity
- Reduce hardware, power and AC costs

User Environment Management

Quality of Service is part of AppSense User Environment Management. User Environment Management is a comprehensive solution that enables users to receive a consistent yet contextual environment that is protected from unauthorised activity and responsive to users' needs.

AppSense Management Centre

AppSense Management Centre increases visibility into user environments through centralised monitoring and reporting of end user activity. Secure and scalable deployment capabilities ensure users benefit from the latest profile and configuration settings.

- Real time environment management
- Enterprise deployment and auditing
- x64bit supported

Quality of Service

Ensure a consistent and predictable user experience.

AppSense Performance Manager ensures a consistent quality of service to users across multiple application delivery mechanisms.

With AppSense Performance Manager, users do not have to wait for business critical applications to execute and respond to their actions. Applications are dynamically optimised to ensure maximum hardware utilisation with an optimal, consistent quality of service.

Based on business rules, users experience the same optimal application behaviour whether using a physical or virtual environment. Optimising hardware in multi-user environments also increases the number of users that can be supported in that environment without compromising the user experience.

Seamless performance

By defining user and application-based policies, critical resources including processor, memory and network bandwidth can be allocated fairly and prioritised appropriately. Policies can be defined to the user, group and application level with scriptable rule support, allowing any custom rule that is required to be defined . Using these highly granular business rules, AppSense Performance Manager is able to dynamically react to changes in the environment by re-allocating system resources in response to changing demand. This has the effect of smoothing out performance spikes, reducing the number of unhappy and therefore unproductive users, and maintaining optimum service levels.

An intuitive solution

AppSense Performance Manager's graphical user interface provides an intuitive experience and a centralised location for all your workload management policies, optimisation and reporting. Configuration templates provide guidance and best practices for common enterprise applications, such as specific database and web servers. Configurations are also fully scriptable and can be automatically packaged for distribution by either AppSense Management Centre or an existing deployment mechanism.

In addition to providing sophisticated management of processor, memory and network resources, AppSense Performance Manager also provides rich reporting capabilities. Each desktop and server can be set to collect detailed performance data and periodically transfer this data to a central database service by defining flexible scheduling options. This centralised performance data can then be used to produce a variety of web-based reports.

Key features

- Smart Scheduler™
- Physical memory control
- Virtual memory optimisation
- CPU reservations
- CPU application limits
- Processor affinity
- Thread Throttling™
- Bandwidth throughput control
- Centralised performance statistics database
- Web-based reporting
- Virtual Memory Limits
- Application Grouping
- Bandwidth Quotas

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Consistent Quality of Service

Unpredictable spikes in application response create an unhappy and unproductive workforce. Whenever an application takes an unsatisfactory time to respond, the users' perception of system quality is eroded and IT are held responsible for unacceptable service levels.

AppSense Performance Manager irons out those spikes by dynamically managing system resources based on user demand. This results in consistent application responses, happy and productive users and on-target service levels.

Platforms Supported

- Windows Server 2003, Vista, XP (x32bit and x64bit)
- Windows 2000 Professional and Server
- Windows Terminal Server (2000 or greater)
- Citrix Presentation Server™, Citrix XenDesktop™, Citrix Access Gateway™
- Application Streaming and Virtual Desktops

Use Business Policy

Policies are defined for processor, memory and network management by creating application groups and using them to define resource sharing, reservations and limits. Policies may be further restricted to specific user and group accounts. Application states may also be included to provide precise control over applications delivered to desktops and terminal services.

Smart Scheduler™

Fair share scheduling is provided by the Smart Scheduler™ component, which distributes processor resources based on relative share factors. For instance, if an application is assigned a share factor that is twice that of a second application, then the former will receive higher priority access to the processor resources while it is using less than twice as much processor time than the latter.

Thread Throttling™

With Thread Throttling™ you can set system wide CPU thread throttling policies that will automatically trigger when the system is heavily loaded and apply gradual throttling to any runaway threads within each process.

Physical Memory Control

AppSense Performance Manager gives you control over physical memory, letting you automatically trim working sets based on application events and states, such as application startup, idle, minimised and in the background.

Virtual Memory Optimisation

By automatically analysing and optimising the Dynamic Link Libraries (DLLs) loaded by applications, virtual memory overheads and system paging can be significantly reduced. Optimised DLLs are stored in a separate cache and loaded dynamically, leaving the original applications intact.

User and Application Memory Limits

User memory limits can be applied to restrict the amount of virtual memory utilised. Users can be warned, and then prevented from launching additional applications, when virtual memory utilisation reaches critical levels. Application memory limits can also be applied to individual applications.

CPU Application Limits

Administrators can also define hard processor limits, to throttle an application's access to the processor resources. For instance, if an application is limited to 70% then it will never be allowed to use more than 70% of the processor resources.

CPU Reservations

Define CPU reservations to provide mission critical applications with a guaranteed minimal resource allocation. For example, if an application is allocated a reservation of 20% it will continue to get priority access to the processor resources while it is using 20% or less of the processor resources.

Processor Affinity Assignment

Guarantee processing power goes where it's most needed. On multi-processor systems, policies can be assigned which bind specific users and applications to processors. This allows mission critical applications to run exclusively on a dedicated CPU.

Network Bandwidth Management

Application network throughput limits may be continuously applied based on network protocol, port number and/or direction. Bandwidth quotas may also be defined.

Rules Analyser Console

The Rules Analyser console allows administrators to troubleshoot any issues with an applied configuration. XML-based log files provide simplified access to information on why an application was or was not allowed to run.

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