

Organizations have realized significant benefits in consolidating or virtualizing standard application servers, but few have successfully tackled the challenge of consolidating database servers.

Database applications such as Microsoft SQL Server and Oracle 10g often require heavy use of Disk I/O, and so do not always perform well in virtualized environments. Moreover, Microsoft and Oracle do not fully support SQL Server and 10g respectively in virtualized production environments. Therefore, to maintain quality of service, the addition of a new database into an organization typically involves the purchase of a new server. This approach avoids resource contention between database instances but creates its own problem - server sprawl.

Stop database server sprawl

SmartPeak WLM's resource management allows multiple database instances to be safely consolidated onto one server, protecting performance without incurring the cost of buying and supporting extra servers and associated software licences.

Improve quality of service

SmartPeak WLM protects the performance of your key database instances from other processes that could monopolize system resources and affect quality of service. These other processes would typically include other database instances, management tools and agents. By dynamically managing the allocation of computing resource to each database instance and secondary process, SmartPeak WLM allows you to partition your resource to reflect the importance of each instance and associated service level agreements.

Compatibility

SmartPeak WLM can be implemented on Windows-based servers or clusters running Oracle 10g or Microsoft SQL Server 2000/2005.

Key benefits

- ➔ Improved performance
- ➔ Enable database server consolidation
- ➔ Prioritize & guarantee resource allocation to key SQL Server instances

Read the white paper:

- ➔ 'Testing SmartPeak WLM in a Microsoft SQL Server environment'

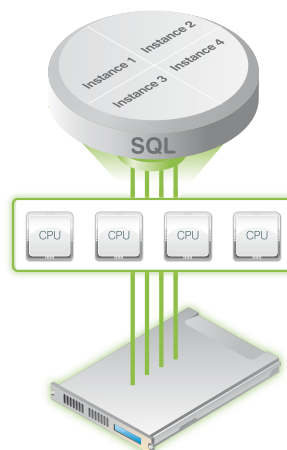
"SmartPeak WLM enabled resources to be allocated to the critical application when required in order to process 68% more transactions per second. Transactions were completed, on average, in just 40% of the time taken without SmartPeak WLM."

www.smartpeak.com/sql

Improved performance in consolidated environments

Without SmartPeak WLM, the only way to guarantee that one SQL instance does not negatively impact the performance of another is to use CPU Affinity, which limits the amount of processing power available to each instance.

SmartPeak WLM dynamically manages resources so that each instance can access all available CPUs for maximum performance, utilization and service integrity. The amount of resource that each instance receives is determined by configurations that support your business requirements.



- Consolidated environment with SmartPeak WLM
- Each instance has access to all CPUs
- Workloads managed dynamically
- Only one OS to manage and support
- More efficient use of per CPU licenses