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OPTIMIZE

Optimize extends the virtual environment by automatically tuning the virtual environment to enhance application performance. By dynamically adjusting CPU, memory and disk resource allocations in real-time, the virtual environment can handle more work while decreasing application response time. Optimize was designed to maximize utilization and increase productivity of existing systems, enabling companies to dynamically manage workloads and ensure business priorities are met.

Challenges

Information technology (IT) departments are being asked to do more with less. IT capital now accounts for a significant share of the average company's total assets and annual expenditures. At the same time servers are often running at only 20% to 30% utilization. The need to optimize utilization of currently deployed resources and get the highest return on investment is now critical.

Frequently, IT departments are forced to implement multiple physical servers in order to separate applications and run various development, test, and production environments.

Virtualization technology provides an alternative for server consolidation by creating a set of computing resources that share underlying physical resources. Virtual servers promise the benefits of reduced costs through higher utilization, improved service levels through dynamic tuning, and increased flexibility through rapid provisioning.

Server virtualization, however, brings another level of complexity to the IT infrastructure. In order to reap the full benefits of virtualization, the dynamic environment needs to be effectively managed using a well-integrated solution.

Benefits

Optimize enables your organization to maximize the virtual server resources while attaining the highest return on investment from your consolidation strategy. Optimize helps

organizations realize the full potential of the virtual environment by providing insight as to how the host servers and virtual machines are performing. Additionally, IT administrators will benefit with simplified share administration by assigning optimization levels to the host servers and service levels to the virtual machines. This allows Optimize to dynamically allocate shares as needed.

By optimizing the performance of your virtual server environment, Optimize helps organizations gain up to a 50% increase in transactions and a 42% decrease in response time, based on recent performance testing. As a result of an optimized virtual environment, your organization can expect improved application availability and a higher quality of service.

Optimize enables your organization to enhance the reliability, scalability and productivity of the virtual server environment. In addition to higher server utilization, you gain increased efficiency and performance.

KEY FEATURES

- Real-time resource optimization
- Intelligent allocation of resources
- Virtual Machine service level prioritization
- Unique system capacity value
- Detailed reports and graphs
- Host server & Virtual Machine discovery

OPTIMIZE

Features and Capabilities

- *Dynamic Allocation of Resources* - Optimize can dynamically adjust CPU, memory and disk allocations within, and across, the virtual environment.
- *System Capacity Value* - Optimize utilizes patent pending algorithms to correlate system metrics to compute a unique host server and virtual machine capacity value.
- *Real-time Share Allocation* - Optimize can dynamically allocate shares based on the virtual machine service levels to meet the business demands of an application.
- *Discovery and Mapping of the Virtual Environment* - Optimize can discover host servers and virtual machines by IP address or a range of IP addresses, then displayed within the Virtugo viewer by DNS name, IP Address, or VM alias.
- *Virtual Machine Service Level Prioritization* - Optimize allows resources to be dynamically allocated to virtual machines based on priority service levels such as bronze, silver and gold.
- *Intelligent Allocation of Resources* - Optimize alleviates the need for manual share tuning by allocating resources based on the host and virtual machine performance priority and optimization settings.
- *Administration of Virtual Environment* - Optimize extends the virtual environment management functions from the individual host servers to a central management view by allowing administrators to adjust shares and priorities “on the fly” through the Virtugo viewer.
- *Capacity On-demand* - Optimize can automatically adjust shares to account for fluctuating loads on virtual machines, eliminating the need for manual capacity and usage analysis on individual virtual machines.
- *Reporting & Graphing* - Optimize delivers correlated host server performance metrics, aggregated server group reporting and graphs of 15 key metrics for each virtual machine.



Virtugo — Designed to extend your virtual infrastructure.