

# vOptimizer

Optimize storage utilization and disk alignment for better storage performance

vOptimizer enables system administrators to optimize storage utilization and disk alignment in VMware vSphere environments. Specifically, vOptimizer:

- Provides actionable recommendations for correctly sizing storage resources for VMs
- Detects VMs that are nearly out of storage and, if desired, automatically remediates the issue by increasing storage allocations
- Aligns storage to appropriate block partitions in cases where VM disks are misaligned

## Features

### Identifies VMs running out of disk space and remediates the problem

Monitoring storage utilization of virtual machines can be challenging—but it is vitally important. If a VM runs out

of storage allocation, it will cease to function, and data integrity may be compromised. Therefore, it is critical to monitor the disk space for all VMs to ensure that none are running short on storage.

vOptimizer automatically detects when any VM starts running dangerously low on disk space and can automatically remediate the issue by increasing storage allocations as needed.

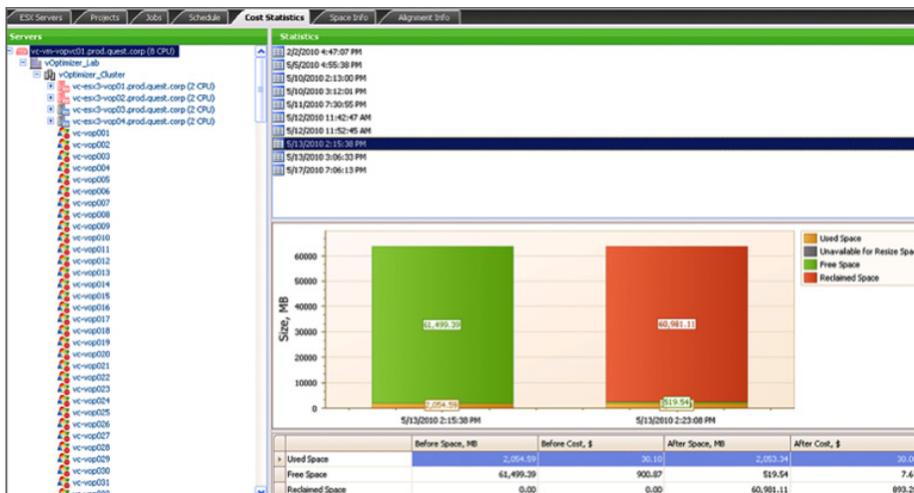
### Identifies and reclaims unused VM storage allocations

A VM might have more storage allocated than is needed for a number of reasons: the VM may have been over-provisioned at its creation, or storage usage might have progressed

vOptimizer helps organizations optimize storage utilization and disk alignment, enhancing storage performance while reducing storage costs.

### Benefits:

- Prevents performance and data integrity issues by automatically detecting when any VM starts to run low on disk space
- Can automatically increase storage allocations to keep VMs from running out of disk space
- Reduces storage costs by identifying VMs that are over-allocated in storage and reclaiming the wasted disk space.
- Improves storage performance by properly aligning data to fit the correct block partitions



Gain recommendations for a VM disk's appropriate size

## System requirements

2 CPUs

8 GB of memory

20 GB of storage space

VMware ESX(i) Server 3.0.1 or higher

VMware vCenter Server 2.0.1 or higher

Windows 2003-2008 R2 Server

### Part of the vOPS family

vOptimizer is part of the vOPS family of products. These award-winning virtualization management solutions cover the virtual infrastructure, from the guest OS to the disk.

Capabilities include monitoring, configuration management, planning, optimization, reporting and chargeback in virtual environments and cloud deployments.

### Get started today

Download a free trial of five optimizations at <http://www.quest.com>.

less rapidly than initially anticipated.

When a VM has more storage allocated than necessary, that disk space cannot be used by other VMs, so the data center may need to purchase additional storage, hurting virtualization ROI.

vOptimizer can identify which VMs are over-allocated in storage and automatically change storage allocations to reclaim the wasted disk space. This process can also shrink thin-provisioned storage allocations in VMs as over-allocated storage is reclaimed.

### Realigns disks to correct block partitions

VMs running older operating systems can have mismatches in disk partition alignments. This can hurt I/O performance significantly, since data must be read from and written to different areas on a disk. vOptimizer can automatically realign the data to fit the correct block partitions, vastly **improving storage performance** for these VMs.

## How vOptimizer works

vOptimizer collects information from VMware vCenter and feeds that data into a capacity analytics engine that analyzes thousands of data points across the entire virtual environment in order to:

- Detect VMs that are nearly out of storage
- Profile each VM's storage utilization and allocation
- Identify which VMs are over-allocated in storage allocation
- Map data storage read and write areas to determine how storage should be realigned when necessary

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