

AUTONOMIC VDI PERFORMANCE MANAGEMENT

Extending Turbonomic Control into Your VDI Environment

CONTROL DEMAND OF I/O-INTENSIVE TASKS ON VDI DEPLOYMENTS

Virtual Desktop Infrastructure (VDI) places significant demands on the underlying compute, storage and network infrastructure.

Patches, antivirus updates and virus scans generate I/O spikes causing congestion on the storage controller resulting in significant latency. With VDI workloads that have been relatively sequential become random. I/O “blending” increases read/write activity on the disk heads further degrading performance.

Assuring end-users receive an experience equivalent to that of a physical desktop is a challenge.

Turbonomic manages the significant resource demands and fluctuations which often stall VDI deployments by continuously assuring Virtual Desktops get the resources they need, when they need them.

TURBONOMIC SOLUTION

Turbonomic extends control to VDI environments assuring workload performance while utilizing the infrastructure as efficiently as possible. With VDI control I/O intensive events (e.g. patch updates, virus updates, re-boot) are intelligently throttled to maintain end-user experience without having to run VDI deployments on dedicated or overprovisioned infrastructure.

Turbonomic enables you to:

- Gate I/O intensive tasks, minimizing I/O congestion on the storage controller
- Prevent I/O events from simultaneously hitting the same datastore, reducing I/O congestion and latency
- Localize instances based on real-time communication patterns to prevent network latency
- Real-time placement of dynamic end-user workloads assuring they get the compute, storage and network resources they need
- Define and deliver differentiated quality of services for persistent and non-persistent desktop users
- Distribute virtual desktops during “boot storms” eliminating the potential of overloading the storage controller
- Improve workload density and hardware utilization without impacting performance
- Stop overprovisioning hosts and storage for dedicated VDI environments
- No need to over-invest in solid state drives for caching to overcome virtual desktop performance issues
- Maintain performance during I/O intensive events, limiting the need for admin intervention
- Automatically distribute I/O intensive actions throughout the environment
- Quickly assess individual user workloads across the entire environment in a “single-pane of glass” to address issues
- Plan for increase users in real-time, or over time, using existing end-user workloads as profiles for new workloads
- Simulate and plan migrations to different environments, including DaaS (desktop as a service) or new data centers



KEY BENEFITS

- Extend Turbonomic to control VDI assuring workload performance while utilizing the underlying infrastructure as efficiently as possible
- Intelligently prioritize I/O intensive tasks (e.g. patch, anti-virus, re-boot) to assure continued VDI performance
- Localize workload instances to prevent network latency and congestion
- Eliminate need to over-invest in storage or overprovision VDI infrastructure
- Free up VDI admins from having to “baby-sit” routine system update tasks

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73% OF CUSTOMERS HAVE REDUCED VDI ISSUES BY 20% OR MORE

 Research by 

Reduce VDI Issues

73% of surveyed IT organizations have reduced VDI issues by 20% or more since deploying VMTurbo.



Source:  TechValidate survey of 56 users of VMTurbo Operations Manager

Published: Oct. 27, 2014 TVID: EC3-D8E-AB5

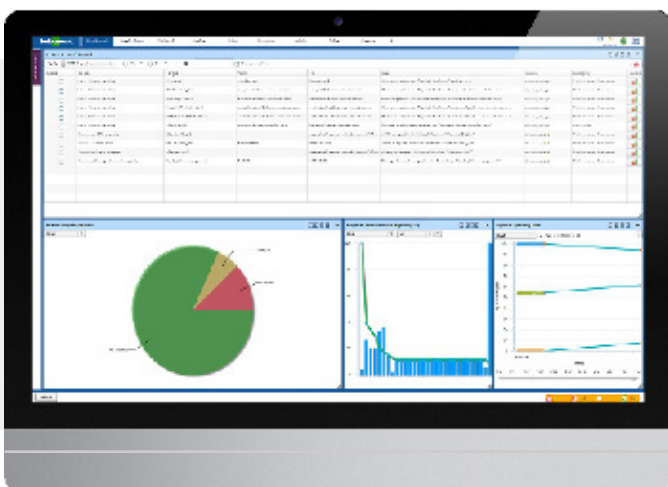
Enabling Customer Success

"We have been able to deploy VDI faster than we normally would have. We are confident in the environment because of what Turbonomic shows."

- Engineer, Large Enterprise Health Care Company. Research by TechValidate

**CORRECT REAL-TIME PLACEMENT
CONTROL I/O INTENSIVE DEMAND
INTELLIGENTLY DEPLOY VDI WORKLOADS**

**AUTOMATIC SIZING DECISIONS
IMPROVE WORKLOAD DENSITY
MANAGE "BULLY USERS"**



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