

VMTurbo Operations Manager

AT A GLANCE

VMTurbo Operations Manager is a control system that drives virtualized and cloud environments to a perpetually healthy or “desired” state, assuring application performance while maximizing resource utilization. The solution continuously analyzes the real-time performance characteristics, resource capacity, system constraints and service level priorities across the virtual data center to determine, implement and adjust resource configurations and workload placement.

By focusing on holistically maintaining the data center in a healthy state rather than collecting thousands of data points, alerting when anomalies occur, and requiring administrators to drill through data to determine what to do, VMTurbo Operations Manager delivers a smarter way to control your virtualized environment.

IT operators are freed from the reactive, firefighting mode that encompasses most organizations; architects and planners are able to effectively plan for new virtual applications, additional users, and hardware upgrades; and companies are able to push forward – with confidence – with their virtualization and cloud-adoption initiatives.

KEY BENEFITS

- Assures application performance
- Increases operational efficiency
- Improves resource utilization
- Simplifies virtualization management
- Closes the loop
- Automates control of your virtual data center

An Automated Control System for Today’s Virtualized Data Centers and Cloud Infrastructures

STOP COLLECTING, ALERTING AND FIRE-FIGHTING

Collecting, monitoring and analyzing hundreds of metrics across the virtualized environment, being alerted to service degradations and out-of-policy conditions, and relying on your operations and infrastructure teams to interpret dashboard data to take the proper action is an approach that can’t scale. The dynamic nature of today’s data center and cloud infrastructures, combined with the volume of application workloads under management and the hundreds of factors that can impact the performance of virtual environments mean that it is not humanly possible to keep pace. The risk in terms of time, cost, and service assurance is too great to get it wrong.

START CONTROLLING, PREVENTING AND OPTIMIZING

A more effective approach focuses on the control points across the IT infrastructure and application workloads within a closed-loop operational process that continuously considers real-time business and physical constraints, and drives the necessary actions to maintain the environment in an optimal operating state—one where application performance is assured while utilizing the virtual infrastructure as efficiently as possible. Rather than being alerted to a condition that breached a preset rule (or is about to), problems are continuously prevented. Automated control – focused on optimization and problem prevention – that is aligned with business goals and service level priorities replaces manual, reactive management. And, the time and costs associated with maintaining a healthy virtualized data center or cloud environment are greatly reduced.

A SMARTER APPROACH TO OPERATIONS MANAGEMENT

VMTurbo Operations Manager is changing the way that virtual data centers are managed. It closes the loop between collecting data and controlling the environment. In doing so, it enables administrators to automate management of dynamic virtualized environments to ensure service levels, while maximizing resource investment—namely, operational staff and physical infrastructure. It’s a prescriptive approach that automates the decision-making process and controls the environment to allocate resources intelligently and ensure peak performance. It dynamically determines how to best accommodate existing workload demand as well as planning for short, medium and long-term fluctuations based on organic growth and environment changes.

TECHNOLOGY INNOVATION: THE ECONOMIC SCHEDULING ENGINE

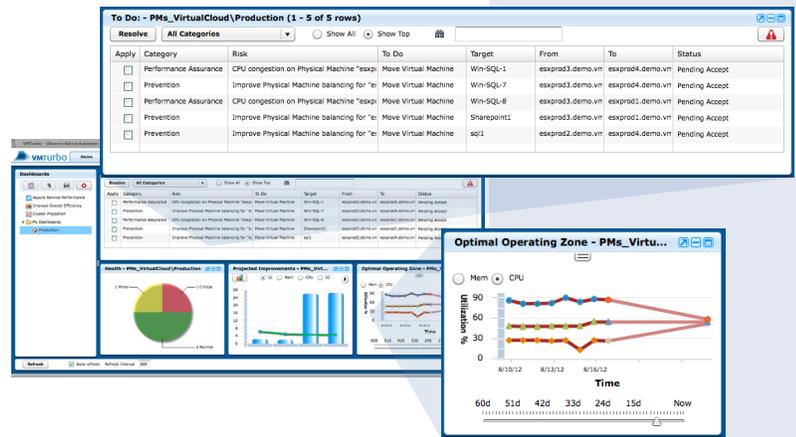
The technology that powers VMTurbo Operations Manager’s control system is its patented analytic engine. It continuously assesses performance and resource contention across the environment and tunes configurations to achieve optimal operating conditions. The market-based approach uses pricing principles and supply and demand models to automate the decision-making process – aligning application workload requirements with available resource capacity. Through powerful data correlation capabilities the technology provides immediate actions to prevent performance and utilization problems which would otherwise be difficult to identify. This gives IT the control it needs to meet business objectives and eliminates the reactive, time-consuming, and labor-intensive fire-fighting typical with monitoring-and-alerting solutions.

VMTurbo Operations Manager automates the decision-making process, providing you with specific actions to reduce contention, improve utilization, and avoid problems. These recommendations can be automated or applied manually based on policy.

EASY TO LICENSE

VMTurbo Operations Manager is licensed per physical CPU socket so there is no complex budgeting required. It comes in Enterprise Edition (single site) and Cloud Edition (multi-site and multi-tenant clouds) and functionality can be extended via add-on modules:

- **Storage Extension**—Understands the interdependencies between the virtualization and storage layers to address workload performance and efficiency that are more often the result of issues at the storage layer
- **Application Extension**—Instruments at the application layer and integrates with application delivery controllers to intelligently prioritize resource allocation based on application priority and performance—scaling load-balanced application farms up or down as demand fluctuates
- **Hybrid Cloud Extension**—Provides specific guidance regarding the “what, when and where” of running workloads in private, public and hybrid cloud infrastructures, maximizing ROI of in-house resources while optimizing performance of virtualized workloads



The Optimal Operating Zone chart shows projected improvements across key metrics and the convergence of peak and minimum utilization levels to the optimal zone, based on the execution of recommended actions.

IMMEDIATE TIME-TO-VALUE ACROSS HYPERVISORS AND CLOUDS

- Easily downloaded and installed as a virtual appliance with console access from any browser
- Supports VMware vSphere and vCloud Director, Microsoft Hyper-V, Citrix XenServer, CloudStack, and Red Hat Enterprise Virtualization
- Delivers value in minutes—no new databases to configure, no thresholds to set, no time to learn what is “normal” in the environment—and provides actionable improvements in less than 30 minutes

LEARN MORE – GO AHEAD AND TRY IT NOW

Download a free trial—an unlimited version that allows you to explore all the features of the solution for 30 days—at www.vmturbo.com/download.

For more information or to purchase VMTurbo products, call +1 781-373-3540, visit www.vmturbo.com, or locate a reseller at www.vmturbo.com/partners/vmturbo-partners.

ABOUT VMTURBO

VMTurbo offers an innovative control system, automates operational decisions in virtualized data centers. By leveraging the dynamic resource allocation abilities of virtualization and automating decisions for resource allocation and workload placement in software, our solution ensures applications get the resources required to operate reliably while maximizing utilization of IT assets. Over 9,000 enterprises worldwide have selected VMTurbo, including British Telecom, Colgate, CSC and the London School of Economics. VMTurbo is headquartered in Massachusetts, with offices in New York, California, United Kingdom and Israel.

