

# TEAMHEALTH IS IN CONTROL OF GROWING AND DIVERSE ENVIRONMENT WITH TURBONOMIC



Assured VDI Performance



Reduced Time Responding to Alerts



Improved Team Focus

**TEAMHealth**

## SITUATION

Founded in 1979, with the original mission of providing emergency department administrator and staffing services, TeamHealth is now the nation's largest provider of hospital-based clinical outsourcing. TeamHealth's services span multiple departments, including Anesthesia, Hospital Medicine and Emergency Medicine.

Stephen Bartlett is System Administrator at TeamHealth's central data center in Knoxville, TN, providing IT services to locations and employees across the country. Bartlett's environment is quite diverse, leveraging VMware vSphere® ESX™ 5.1, Microsoft Hyper-V® and Citrix XenServer® across equally varied hardware, and was growing rapidly.

Over past few years, TeamHealth experienced exponential growth and as they began adding more virtual machines (VMs) with larger capacity needs, resource contention caused a great deal of congestion. "Workload placement was causing a lot of ready time on our systems," said Bartlett. "DRS could balance resources on the hosts but our VMs still struggled to get what they needed. It just wasn't enough." Bartlett and his team began their search for a solution to their troubles.

"We had Turbonomic in place during our trial period, and within the first week everything was green. It's been green ever since."

– Stephen Bartlett, System Administrator

The team evaluated a number of monitoring tools, including vCOPs and Veeam, but found they didn't differ too much from their existing situation. "We needed to reduce the time our team put into manually diagnosing VMs without a clear understanding of the system as a whole." Within the first week of their trial with Turbonomic they noticed a clear difference in the performance of their applications and in resource utilization.

## COMPANY

TeamHealth

[www.teamhealth.com](http://www.teamhealth.com)

## CHALLENGES

- Inability to control performance of mission-critical applications in rapidly expanding virtual environment with existing balancing tools
- Disruption of virtualized workloads due to resource contention and system congestion
- Inefficient use of virtual and human resources

## TURBONOMIC SOLUTION

- Turbonomic intelligently and automatically senses changes to application demand and adjusts infrastructure supply in real-time to improve utilization and ensure service delivery

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“Once we deployed it fully into our production environment, and began automating VM and storage movements, we saw a huge improvement,” said Bartlett. “The real value Turbonomic brings is in the control it gives us, telling us when and where to place workloads, making the decisions for us so we don’t have to sit and monitor it constantly.”

When Bartlett’s team began testing Turbonomic they had just over 850 VMs in production. The number has since grown to more than 1,200 VMs. “We are in a major growth pattern currently,” said Bartlett. “My team now has the time to work on important projects like this. We don’t have to worry about sitting around and making sure our VMs get the resources they need. Turbonomic takes care of everything.”

## “IT’S NOT SOMETHING WE EVER THOUGHT POSSIBLE UNTIL NOW”

“In Turbonomic, we have an application in place that’s smart enough, and agnostic enough, to understand the demands of each workload and provide access to the right amount of resources,” said Bartlett. “We can now get our customers exactly what they need, not too much nor too little, and ultimately provide better services.”

## HARDWARE DIVERSIFICATION AND REDUCING SOFTWARE LICENSING

It’s not just TeamHealth’s virtualization layer that is diverse, but their storage as well. They leverage EMC Isilon®, Pure Storage FlashArray and Dell™ EqualLogic™, with Turbonomic spanning across the entire environment. And what is Bartlett’s team most excited about? “We installed Pure Storage a month ago, and the speed is amazing,” said Bartlett. “The deduplication is fantastic and has shrunk our disk size immensely. Using Pure and Turbonomic in tandem has given us greater control over our entire environment.”

“We are also planning to reduce a number of our software licenses. Turbonomic’s allowed us to reduce our overhead budget, even as we continue to expand.”

## ABOUT TURBONOMIC

Turbonomic delivers an autonomic platform where virtual and cloud environments self-manage in real-time to assure application performance. Turbonomic’s patented decision engine dynamically analyzes application demand and allocates shared resources to maintain a continuous state of application health.

Launched in 2010, Turbonomic is one of the fastest growing technology companies in the virtualization and cloud space. Turbonomic’s autonomic platform is trusted by thousands of enterprises to accelerate their adoption of virtual, cloud, and container deployments for all mission critical applications.

## RESULTS

- *Intelligently controlled virtualized workloads for improved performance across diverse environment*
- *Maximized utilization of infrastructure resources*
- *Reclaimed unused and underutilized resources and repurposed for future projects*
- *Reduced time spent monitoring and manually resolving issues*
- *Improved team productivity*

“Turbonomic has enabled us to put our existing resources to better use, and consolidate our clusters. It’s changed the way we think about our virtual infrastructure and gives us more freedom to automate moves and plan without interrupting our applications and services.”

**Stephen Bartlett**  
**System Administrator**  
**TeamHealth**