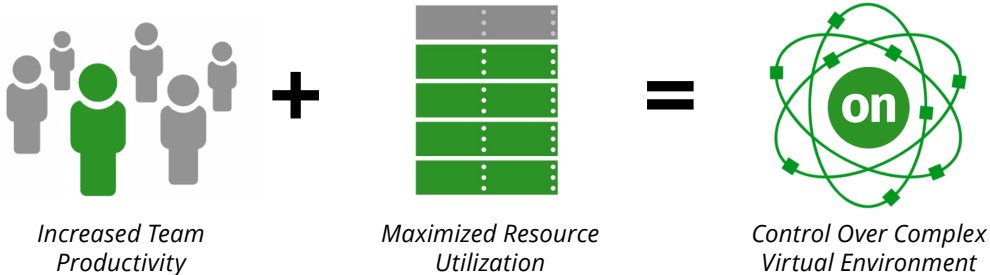


MISSISSIPPI COMMUNITY COLLEGE BOARD MAXIMIZES UTILIZATION AND ENABLES AUTONOMIC PERFORMANCE WITH TURBONOMIC



SITUATION

Created in 1986 to oversee Mississippi's community and junior colleges, the Mississippi Community College Board (MCCB) is dedicated to its mission of advancing the community college system through coordination, support, leadership and advocacy. The MCCB provides guidance and services to Mississippi's 15 community and junior colleges, as well as the Mississippi Virtual Community College, which offers more than 2,500 courses taught by 1,330 instructors. System-wide, more than 250,000 students are enrolled and receive MCCB services.

For more than 16 years, Mr. Ray Smith has been providing his expertise in IT to the MCCB. As Assistant Executive Director for Technology, Mr. Smith is responsible for the statewide infrastructure supporting all 15 colleges and their 34 locations, connected by Wide Area Network (WAN). Mr. Smith leverages a converged VCE Vblock® System supported by VMware vSphere® ESXi™ 5.1.

Nearly 100% virtualized, MCCB's expanding environment was quickly outgrowing its data center location and in need of additional space. Mr. Smith and his team expanded the environment to include a secondary fail over data center, and went from one VMware® vCenter Server™ to three vCenter instances, adding more complexity. "We were a small staff of three running a statewide network and two data centers," said Smith. "We began looking for something to help manage our now complicated situation."

"I have complete control over my environment. I no longer run into situations where one host is running too hard and another is sitting unused."

– Ray Smith, Assistant Executive Director for Technology

"To make the data center expansion possible, we had to utilize stretch cluster capabilities," said Smith. "Turbonomic allowed us to automate the management and location of our VMs to be compliment the HA configuration, keeping our environment healthy and stable."

COMPANY

Mississippi Community College Board
www.mccb.edu

CHALLENGES

- *Inability to guarantee performance of mission-critical applications in a constantly growing virtual environment with existing tools*
- *Inconsistent Quality of Service (QoS) and disruption of virtualized workloads*
- *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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As the core of the network providing IT services to the entire community college system, the platform has enabled a small staff to have control over the environment and to improve the performance of its applications, thus improving user experience. From enrollment applications to the collection, auditing and processing of student and course data, the MCCB IT network supports nearly every layer of the system.

HOSTED SERVICES

In addition to the IT services provided by the MCCB, Mr. Smith's environment also serves as a supporting infrastructure for campus or program-specific applications. "More than one-third of the VMs in our system are being hosted for the colleges in our private cloud," said Smith. "We've been using Turbonomic to ensure the hosted VMs are getting the resources they need and are running at their highest ability."

HARDWARE SAVINGS

"There's no doubt we have seen a great deal of savings by automating and maximizing the utilization of our resources," said Smith. "Without the complete view of the environment, we may have overprovisioned, but now we're able to see what's going on and how to control it."

"It's as if someone is sitting in front of the monitor 24 hours a day, 7 days a week making sure everything is operating as efficiently as possible, and reporting back to me."

- Ray Smith, Asst. Executive Director for Technology, MCCB

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

- *Autonomic platform drives real time performance across a diverse environment*
- *Realized value within days of deploying Turbonomic*
- *Avoided unnecessary spending on resources*
- *Maximized utilization of data center infrastructure*
- *Reduced time spent monitoring and manually resolving issues*