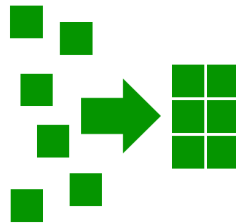


RYANAIR IS "ALWAYS GETTING BETTER" WITH TURBONOMIC



Increased Utilization of Infrastructure



Allocated Appropriate Resources



Consistently Health Environment



SITUATION

Headquartered in Dublin, Ireland, Ryanair is Europe's favourite airline, carrying 116m p.a. on more than 1,800 daily flights from 84 bases, connecting over 200 destinations in 33 countries on a fleet of over 340 Boeing 737 aircraft, with a further 330 Boeing 737's on order, which will enable Ryanair to lower fares and grow traffic to 180m p.a. by FY24. Ryanair has a team of more than 10,000 highly skilled aviation professionals delivering Europe's No.1 on-time performance, and an industry leading 31 year safety record.

Paul Walsh, Senior Systems Engineer at Ryanair, is responsible for managing the organization's VMware environment across three data centers located in Ireland, London and Frankfurt. When Walsh joined the company in 2014, the original environment consisted of 4 hosts with 80 VMs and expected to grow to up 120 VMs. At the start of 2015, however, Ryanair launched its "Always Getting Better" program to enable agile website changes, fast growth and flexible online customer service offers. With this new program in place, the old environment grew to 180 VMs and was beginning to display issues from the strained infrastructure. As a result, the team put together a new VMware environment with a 775% increase in VMs and Dell Compellent storage that would be able to scale with the growth of the business and provide availability to the application developers.

The team knew that they could not continue to be limited by their overtasked environment. "We needed to be able to predict and understand growth, prove out to management our future required costs and prevent ourselves from buying unnecessary hardware," said Walsh.

"We're really lucky - we have no complaints about performance from developers or end-users...Turbonomic has given us peace of mind that our environment is running smoothly and will continue doing so into the future."

- Paul Walsh, Senior Systems Engineer

COMPANY

RyanAir
www.ryanair.com

CHALLENGES

- Inability to guarantee performance of missioncritical applications in complex and rapidly growing virtual environment with existing tools
- 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 part of the implemented improvement program, the team was tasked with building out a new website. “We installed Turbonomic as we were undergoing P2V conversions for our old physical website and stripping out resources,” said Walsh. Turbonomic was able to allocate proper specifications to the team’s old servers as they built the new website in tandem.

Now the team has fully decommissioned the old website and uses Turbonomic to intelligently manage the VMs running the new website. “We’ve automated placement actions in all clusters and trust in the predictions and actionable decisions that Turbonomic provides,” said Walsh. “We know our environment is healthy and Turbonomic will prevent problems from occurring in the first place.”

RESULTS

- *Autonomic platform drives real time performance across a diverse environment*
- *Accurately forecasted infrastructure needs*
- *Reduced time spent troubleshooting*

“We’re now confident that we aren’t overprovisioned. With Turbonomic we feel more in control of our environment.”

- Paul Walsh, Senior Systems Engineer
Ryanair

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.