What You Will Learn

User expectations have shifted dramatically thanks to the normalization of digital business. Rapid service delivery and predictable performance are the prerequisites for competitive advantage. But, it has also increased data center and cloud complexity. This solution brief explains how IT can take back control. Turbonomic and Cisco Data Center Solutions together enable hybrid cloud and elastic computing at cloud economics.

Challenge

IT leaders are accelerating service delivery by investing in integrated infrastructure, enabling on-demand and self-service access to resources. As they scale, they often experience the limitations of traditional methods of virtualization and cloud management. The tools used today — monitoring and log analysis — take a reactive approach to workload performance management and fundamentally do not assure performance. Teams distracted by alerts and firefighting cannot support rapid, iterative development.

The speed of delivery that digital business requires cannot withstand these operational inefficiencies or risk to performance. Customers want a clear understanding of what resources they have and what relationship apps have with the infrastructure. To keep up with customer demands, IT must achieve real-time elastic capacity at home and in the cloud.

Solution

Turbonomic continuously analyzes application consumption, costs and compliance constraints and automatically allocates resources in real time. It assures application performance by giving workloads the resources they need when they need them. Combined with Cisco UCS and the Data Center portfolio, customers optimize their data center and hybrid cloud environments.

Benefits

<table>
<thead>
<tr>
<th>37%</th>
<th>23%</th>
<th>25%</th>
<th>55%</th>
</tr>
</thead>
<tbody>
<tr>
<td>better application response time*</td>
<td>more orders per minute*</td>
<td>improvement in workload consolidation</td>
<td>of customers decrease user generated tickets by 20% or more</td>
</tr>
</tbody>
</table>

*Documented on UCS by a 3rd-party, Principled Technologies.
Turbonomic and Cisco UCS Together

With Cisco UCS, Cisco enabled a paradigm shift in how IT operates through the concept of unified management of compute, storage and network. UCS delivers a self-aware, self-integrating system where every component can be configured through software rather than manual (physical) processes. Turbonomic provides a single pane of glass for your on-prem and public cloud environments and leverages the unique capabilities that UCS exposes to understand the resources available in a Cisco UCS compute domain. As customers adopt full automation, the platform enables workloads to self-manage. Workloads running on Cisco gear and in a public cloud get the resources they need, when they need them—no more, no less. The platform runs 24/7, continuously assuring performance, while maximizing efficiency and maintaining compliance on-prem and in the cloud.

Turbonomic provides intelligent workload management to a wide range of solutions in UCS and hybrid cloud environments. It integrates with numerous technologies to add value on multiple levels, including:

Visit turbonomic.com and cisco.com.