

Troubleshoot performance issues and forecast capacity with HPE Cloud Optimizer

HPE SW Infrastructure Services accelerates time to value and reduces data center footprint

Objective

Manage 40,000+ virtual machines (VMs) for 6,000+ HPE developers worldwide to ensure that the VMs are always available and able to meet resource requests in a timely manner

Approach

HPE Cloud Optimizer (formerly vPV) offers a unified dashboard that provides real-time visibility into server virtualization performance and capacity across the elements and domains in cloud and virtualized environments, with incredibly fast time to value

IT matters

- Significantly reduced its data center footprint worldwide
- Dramatically reduced the number of devices managed without compromising performance and availability

Business matters

- Greatly improved its ability to respond to resource requests immediately
- Increased operational efficiency with real-time performance monitoring, server monitoring, and capacity management



Software Infrastructure Services (IS) is an internal Hewlett Packard Enterprise (HPE) organization that provides software support services for 6,000+ HPE developers worldwide, as well as for external HPE customers. The organization manages and maintains approximately 40,000 virtual machines (VMs) globally to assist HPE developers in all phases of the product release lifecycle: development,

testing, QA, and certification. HPE IS consists of 300 persons serving both internal and external HPE customers around the world.

Business goals: Managing 40,000+ virtual machines (VMs) for 6,000+ HPE developers worldwide is no small task—ensuring that those VMs are always available, and able to meet resource requests in a timely manner, is even more challenging. “In the past, each data center site would have to manually scan through its VM environment to determine capacity and utilization,” recalls Sailesh Raja, Senior Manager for HPE Infrastructure Services. “We would have to coordinate with every site, collect those numbers, process them, then come up with a plan. This could often take days, depending on the number of VMs.”

“With HPE Cloud Optimizer, we can just log into the tool, get the real-time data, and very quickly make the necessary planning, and even scale to meet any on-demand requirements. And we’re doing it in hours, not days.”

– Sunil Kumar Chikmagalur, Regional Manager, APJ Data Centers for HPE Infrastructure Services

Because the status and availability of VMs has a direct impact on the product release lifecycle, the ability to monitor the performance, health, and capacity utilization of VMs in real time is paramount to staying competitive in a highly competitive software market.

HPE solutions implemented: HPE Cloud Optimizer (formerly vPV) offers a unified dashboard that provides real-time visibility into server virtualization performance and capacity across the elements and domains in cloud and virtualized environments, with incredibly fast time to value—delivering benefits in as quickly as 15 minutes. Additionally, HPE Cloud Optimizer for virtualization management detects performance hotspots, troubleshoots bottlenecks with its intuitive UI workflows, and provides smart alerts that detect performance anomalies. The solution also helps provide CAPEX savings by identifying opportunities to right-size and reclaim unused resources, and offers powerful “What If” scenario modeling as well as support for private cloud tenant views. More importantly, HPE Cloud Optimizer is a heterogeneous solution that supports multiple leading server virtualization platforms, including VMware vSphere®, Microsoft® Hyper-V®, Xen, and KVM.

HPE SiteScope agentlessly monitors the availability and performance of distributed infrastructure and applications in real time. HPE Service Health Reporter (SHR) provides cross-domain reporting of the availability and performance metrics for infrastructure elements, and directly relates these metrics to the business services they support.

HPE Business Service Management (BSM) is a suite of software and solutions that provide intelligence and actionable insights to manage the performance of enterprise applications, systems, networks, and storage.

Results: In the past, gathering data on the performance and utilization of its VM environments worldwide was a time-consuming and labor-intensive task; today it’s simply a matter of viewing the solution’s unified dashboard for availability, capacity, and performance management for virtualization and cloud environments. “With HPE Cloud Optimizer, we can just log into the tool, get the real-time data, and very quickly make the necessary planning, and even scale to meet any on-demand requirements. And we’re doing it in hours, not days,” notes Sunil Kumar Chikmagalur, Regional Manager, APJ Data Centers for HPE Infrastructure Services. As for implementing the solution, the process

Customer at a glance

Software

- HPE Cloud Optimizer
- HPE SiteScope
- HPE Service Health Reporter (SHR)
- HPE Business Service Management (BSM)

was fast and trouble-free, and began delivering value almost immediately. “HPE Cloud Optimizer was a really lightweight implementation for us...in a single R&D center, it took about 15 to 30 minutes to get it up and running. Now we have a single pane, a single view into our VM footprint in terms of which hosts are underutilized and which ones are running out of capacity, so we can effectively plan and redeploy resources as needed to meet other service requests.” As part of its efforts to improve planning and management of its VM resources to better support HPE developers, HPE IS was also in the process

of consolidating its data centers and devices, a challenging task with which HPE Cloud Optimizer has helped tremendously, according to Sialesh Raja: “Using several HPE BSM solutions—HPE Cloud Optimizer, SiteScope, and Service Health Reporter in particular—in FY2014 so far, we’ve reduced our data center footprint by 6,000 devices globally (from a total of 20,000) and shrunk our data center sites to about 15 (down from 25+).

Learn more at
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