

Hybrid Cloud Monitoring Using Traverse

Unified Monitoring of Public and Private Virtual Environments

Overview

Public clouds such as AWS & Azure are being increasingly introduced into enterprise networks that include existing private virtual environments such as VMware and Xen. Enterprises need a unified monitoring solution that has been designed specifically for hybrid cloud infrastructure in order to ensure that these critical networks are successfully managed.

Furthermore, applications are no longer confined within a single physical server - they are distributed across servers and even across data centers. Consequently, end user performance depends on components within the enterprise infrastructure as well as components that reside in the cloud, such as IaaS components and even databases. Trying to map the performance of a distributed IT service using legacy point tools would take the classic finger-pointing to a new dimension, making it impossible to quickly identify the root cause and resolve performance issues.

Traverse supports seamless monitoring of hybrid virtualized environments, and is fully integrated with native APIs of public and private cloud technologies such as AWS, VMware, and Xen. More importantly, Traverse maps the relationships between hypervisors, guests, applications, databases and storage, to provide service-centric monitoring of virtualized environments. This mapping is enabled using Traverse's first-to-market Service Container technology.

Support for Public and Private Clouds

Traverse provides unified monitoring across private clouds running VMware, vSphere, HyperV, Xen, and more, as well as across public clouds such as AWS, Azure, CloudStack, and Rackspace.

Autodiscovery & vMotion Support

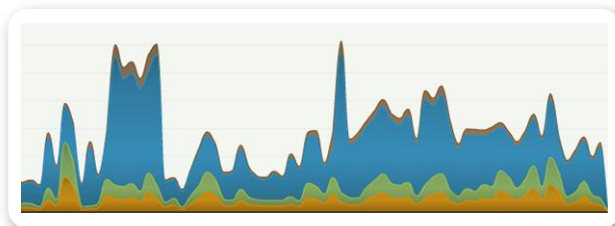
Traverse connects to cloud management platforms and automatically discovers the provisioned VMs and the underlying hypervisor. It enables seamless and continuous monitoring of virtual machines that have been vMotion enabled within the vCenter platform. The relationship between virtual and physical machines is determined dynamically to support monitoring of vMotion enabled virtual machines.

Automation & Integration API

The elastic nature of hybrid cloud environments requires a platform that offers a flexible API for automation to support dynamic provisioning and integration with external ticketing and operations management platforms. Traverse has a flexible API and existing connectors to popular systems such as ServiceNow.

Detailed Performance Metrics

Traverse uses the APIs directly to gather and monitor various performance metrics (CPU, memory, disk I/O, network traffic, etc.) of the VM kernel, the service console, and all of its virtual machines.



Unified Predictive Analytics

Traverse’s integrated analytics engine provides proactive capacity planning across the hybrid cloud, network, applications and storage infrastructure. Correlated performance graphs, trend analysis and short mean-time-to-recover using integrated Netflow are all essential features provided in Traverse.

Map Service Performance to Hybrid Cloud Infrastructure

Traverse goes beyond monitoring of individual virtual components, and provides correlated views of the performance of the virtual infrastructure. The Traverse monitoring capability for the VMware platform is not confined to only managing virtualized servers as discrete entities. Applications are linked to the virtual machines they run on, and then each virtual machine is linked to the physical server which hosts it. Traverse then goes one step further and builds mappings between business services and the underlying IT components. The health of business services is displayed in various dashboards and status views that support drill-down from the business services to the underlying applications and network components, including accounting for the inter-dependencies between them.



<p>Virtualization Platforms Hypervisor & VM performance including CPU, memory, swap, disk, network, CPU usage per zone, public and private IP address usage</p>	<ul style="list-style-type: none"> ■ VMware, vCenter, vMotion ■ XenServer, XenCenter, Xen Virtual Clusters ■ Hyper-V ■ Cloudstack
<p>Public Cloud CPU, disk read/write metrics, network traffic</p>	<ul style="list-style-type: none"> ■ Amazon AWS, EC2, S3 ■ Microsoft Azure ■ Google Apps
<p>Servers & Bare Metal Compute pool utilization, fan module, power supply module, temperature, component redundancy, blade chassis</p>	<ul style="list-style-type: none"> ■ Cisco UCS ■ HP Blade ■ Dell ■ Sun
<p>Storage IOPS, protocol operations, average latency, cache hits, cache misses, group operations, disk health, replication status, disk latency</p>	<ul style="list-style-type: none"> ■ Brocade ■ Dell Equallogic ■ Dell Compellent ■ EMC Avamar ■ EMC Clariion ■ Network Appliance ■ Nimble ■ Pure ■ Qlogic ■ Hitachi

ABOUT TRAVERSE

Traverse is a next-generation monitoring solution from Kaseya, a global software solution provider with over 10,000 customers globally. Traverse’s patented technology offers a distributed, scalable monitoring platform with rich data analytics and unified cloud & network management. Traverse allows enterprises and Managed Service Providers to optimize their IT operations with faster mean time to resolution for slow or failed IT services within their infrastructure. Customers leveraging Traverse include the Fortune 100 as well as small-sized and medium-sized businesses worldwide. For more information, visit www.traverse-monitoring.com

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