



## Overview

VMware used Xangati to help design and manage VMworld's VDI vCloud supporting the main stage presentations and all hands-on labs for over 14,000 attendees. With over 75,000 man-hours invested developing 30 hands-on lab topics – the VDI vCloud running pre-GA VMware View™ 4.5 software had to support 480 concurrent users running any lab, at any time and in any order.

## Business Challenge: Deliver the Conference Theme - Actual Clouds

The VDI vCloud existed in 3 data centers located in Miami FL (Terremark), Ashburn VA (Verizon), and San Francisco CA (VMware). Each data center ran up to 80 hosts on HP and Cisco UCS systems. A WAN connected each data center to a pod of 160 Wyse terminals in the lab creating three (3) pods and 480 lab seats in total.

Each lab session called on the VDI vCloud to deploy multiple new ESXs with multiple VMs and all the data necessary to run the lab. When the lab was complete, the VDI vCloud would blow away the environment in preparation for the next lab. To ensure the lab sessions worked flawlessly – VMware wanted single pane of glass visibility into the virtual and physical vCloud infrastructure activity and performance so they could design it to support the activity and then ensure it was doing so.

## Solution: Xangati

Xangati provided the single pane of glass visibility into the virtual and physical VDI vCloud infrastructure. VMware used Xangati to design the vCloud and ensure it delivered the promise of "Actual Clouds". Xangati was used to:

- Measure session bandwidth and ensure WAN, LAN capacity at all points
- Measure host and VM utilization and vMotion performance
- Measure NFS traffic and latency for each compute cluster
- Measure total PCoIP bandwidth, number of PCoIP sessions and specific PCoIP session bandwidth to validate superior performance
- Capture dozens of metrics to validate vCloud and View 4.5 performance
- Capture DVR recordings for visual performance documentation
- Validate metric consistency and accuracy across products

With Xangati's assistance during the vCloud design phase, lab users experienced no problems even when all 480 lab seats were in use. Other statistics included:

- vMotion activity peaks
- WAN and LAN traffic peaks and distributions
- Over 4,000 VMs being deployed and destroyed every hour with over 150,000 VMs deployed over the course of the show during over 18,000 lab sessions

For more information visit [www.xangati.com](http://www.xangati.com). Xangati is pronounced Zǎn gah' tee.



### COMPANY OVERVIEW

- **Industry:** Technology
- **Revenues:** \$2B
- **Web site:** [www.vmware.com](http://www.vmware.com)

### CHALLENGE

- Prove an Actual Cloud
- Support over 14,000 attendees running any of 30 labs at the largest virtualization conference in the world over four days
- Provide 480 simultaneous VDI lab sessions over a WAN without performance problems
- Support main stage presentations and demonstrations
- Ensure 100% availability and a great lab experience

### SOLUTION

- Xangati Infrastructure Performance Management

### BUSINESS RESULTS

- Xangati assessed load from each lab for vCloud planning
- Assessed load used to design VDI vCloud for expected volume
- vCloud successfully delivered over 18,000 lab sessions
- Live visibility provided across virtual and physical infrastructure
- No WAN or LAN issues
- No outages for lab users
- vMotions occurred as designed and without incident
- Proved Actual Clouds do exist