

VMUG Galicia – 30 de marzo

Novedades VMware

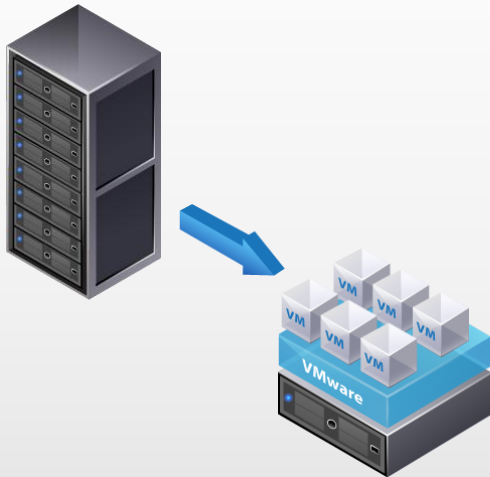
Alejandro Solana – Iberia SE Manager

Un mensaje de nuestro CTO – Dr. Steve Herrod

Drivers Principales

1. Reducir Complejidad

simplificar operaciones y gestión



2. Reducción de Costes Dramática

redirigir la inversión a valor para negocio



3. Entrega TI Flexible, y Ágil

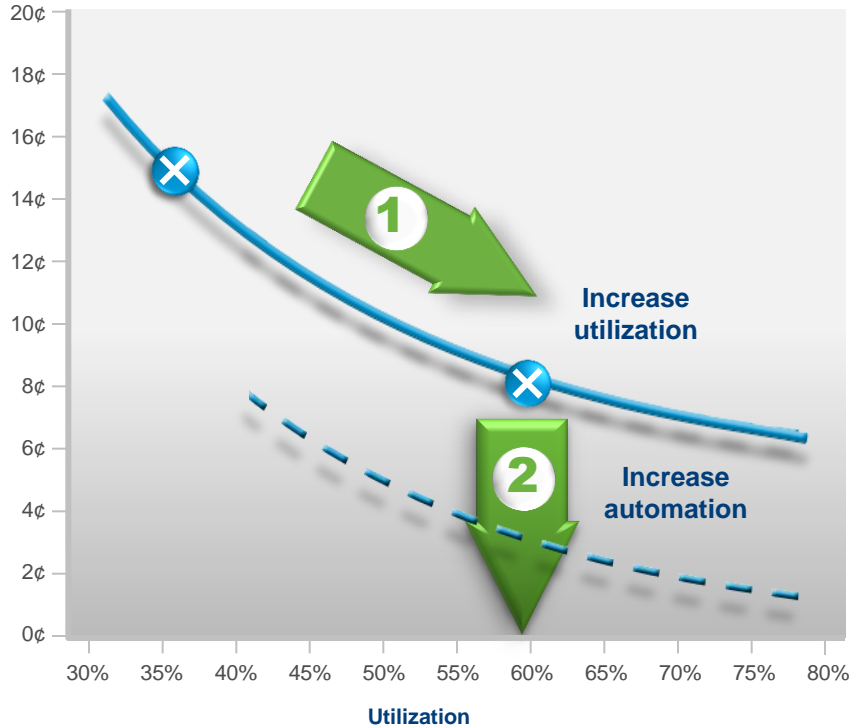
para cumplir y anticipar las necesidades de negocio



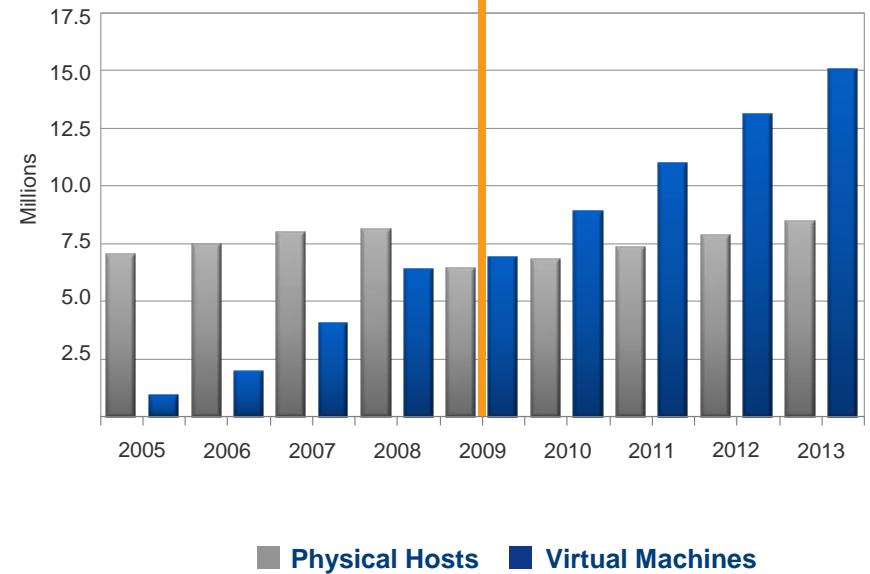
Manejar la Agilidad de TI para incrementar el valor de Negocio

La Virtualización es Clave para poder Redirigir el Foco

Cost per VM hour
(2GB instance)

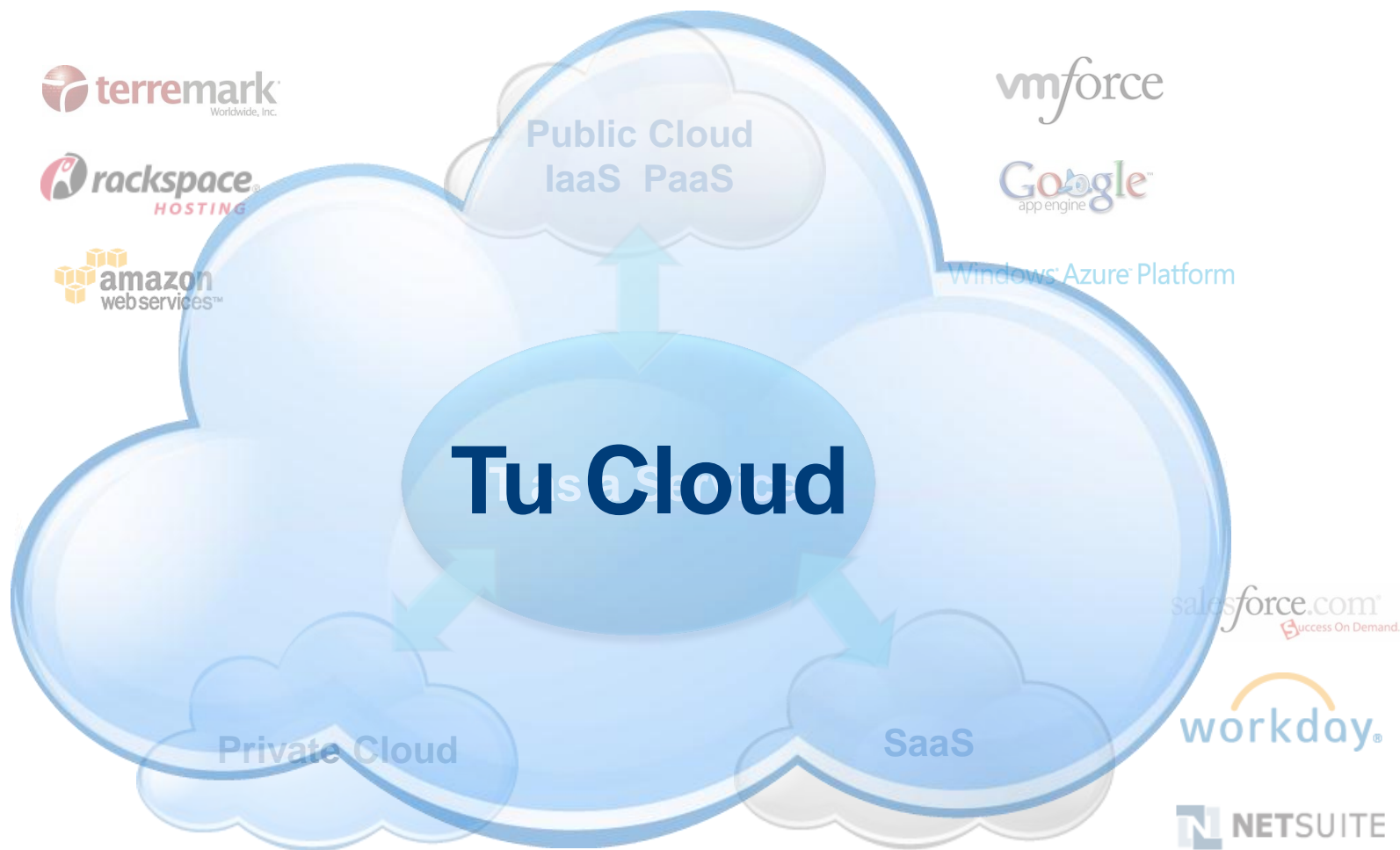


VM Cross Over



Source: IDC

Qué es el Cloud Computing?



Cloud Computing is an *approach to computing* that leverages the efficient pooling of on-demand, self-managed virtual infrastructure, consumed as a service.

Your Cloud = Optimizar *producción* TI
para el *consumo* de Negocio

Fiable, Escalable, Segura

VMware Solution Strategy

Enterprise Hybrid Cloud Computing

The New IT Landscape: Promise & Challenge

Empowered, Secure, Mobile Workforce

- Any app on any device, anytime, anywhere – securely!

Segment	Segment Desc	Type	Ending Balance	Debits	Credits	Ending Balance	Others
1400	Operating Expenses	E	0.00	1,020,000.00	0.00	1,020,000.00	0.00
1400	Telephone Expenses	E	0.00	1,000,000.00	0.00	1,000,000.00	0.00
1400	Travel	E	0.00	400,000.00	0.00	400,000.00	0.00
1400	Equipment Expense	E	0.00	1,400,000.00	0.00	1,400,000.00	0.00
1400	Legal Fees	E	0.00	500,000.00	0.00	500,000.00	0.00
1400	Salaries	E	0.00	2,500,000.00	0.00	2,500,000.00	0.00
1400	Advertising	E	0.00	1,000,000.00	0.00	1,000,000.00	0.00
1400	Insurance	E	0.00	500,000.00	0.00	500,000.00	0.00
1400	Manufacturing	E	0.00	22,000,000.00	0.00	22,000,000.00	0.00
1400	Interest Expense	E	0.00	400,000.00	0.00	400,000.00	0.00
1400	Interest Income	I	0.00	0.00	2,000,000.00	2,000,000.00	0.00
1400	Dividend Income	I	0.00	0.00	0.00	0.00	0.00
1400	Gain on Sale of Assets	I	0.00	0.00	0.00	0.00	0.00
1400	Loss on Sale of Assets	E	0.00	0.00	0.00	0.00	0.00
1400	Gain on Sale of Investments	I	0.00	0.00	0.00	0.00	0.00
1400	Loss on Sale of Investments	E	0.00	0.00	0.00	0.00	0.00
1400	Gain on Sale of Real Estate	I	0.00	0.00	0.00	0.00	0.00
1400	Loss on Sale of Real Estate	E	0.00	0.00	0.00	0.00	0.00
1400	Gain on Sale of Other Assets	I	0.00	0.00	0.00	0.00	0.00
1400	Loss on Sale of Other Assets	E	0.00	0.00	0.00	0.00	0.00
1400	Other Income	I	0.00	0.00	0.00	0.00	0.00
1400	Other Expense	E	0.00	0.00	0.00	0.00	0.00
1400	Net Income	I	0.00	0.00	0.00	0.00	0.00
1400	Total		2,700,000.00	2,700,000.00	2,700,000.00	2,700,000.00	0.00

Existing Apps



Field	Value
Account Name	Global Chemical Group
Account Type	Manufacturer
Account Status	Active
Account Manager	John Doe
Account Address	123 Main St, New York, NY 10001
Account Phone	(212) 555-1234
Account Email	john.doe@globalchemical.com
Account Website	www.globalchemical.com
Account Industry	Chemicals
Account Size	Large
Account Growth	High
Account Risk	Low
Account Score	95

New Generation of Enterprise Apps

- Combining the social, mobile experience with enterprise requirements

A More Flexible, Efficient Infrastructure

- Exploiting modern, cost-effective hardware
- Creating & spanning both internal and external resource pools

Existing Datacenters

Public Cloud Services

The New IT Landscape: Promise & Challenge



Support Class	Type	Required	Required	Code	Code	Subclass
1000	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1001	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1002	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1003	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1004	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1005	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1006	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1007	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1008	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1009	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1010	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1011	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1012	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1013	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1014	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1015	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1016	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1017	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1018	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1019	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1020	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1021	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1022	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1023	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1024	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1025	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1026	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1027	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1028	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1029	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1030	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1031	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1032	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1033	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1034	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1035	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1036	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1037	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1038	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1039	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1040	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1041	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1042	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1043	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1044	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1045	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1046	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1047	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1048	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1049	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000
1050	Customer Support	1000	1,000,000.00	1000	1,000,000.00	1000

Existing Apps

Organization	First Name	Last Name	Role	Phone	Mobile	Work Email	Home Email	Home Phone	Home Fax	Home Address	Home City	Home State	Home Zip	Home Country
Example Corp	John	Doe	Admin	555-555-5555	555-555-5555	john.doe@example.com				123 Main St	Anytown	CA	90210	USA
Example Corp	Jane	Smith	User	555-555-5556	555-555-5556	jane.smith@example.com				456 Main St	Anytown	CA	90210	USA
Example Corp	Bob	Johnson	User	555-555-5557	555-555-5557	bob.johnson@example.com				789 Main St	Anytown	CA	90210	USA

SaaS Apps

The Challenge for IT:
Weave all this together into a cohesive, secure, compliant whole



Existing Datacenters



Public Cloud Services

Three Core Focus Areas

Re-think End-User Computing

The Challenge for IT:

Modernize Application Development

secure, compliant whole

Evolve the Infrastructure

Existing Datacenters

Public Cloud Services

Demo – Infraestructura Elástica y Autoprovision (IaaS)

Enterprise Hybrid Cloud Computing

Demo – Cloud Connector & Management

Enterprise Hybrid Cloud Computing

Demo – Plataforma Aplicaciones Cloud (PaaS)

VMForce

Demo – End User Computing (SaaS)

Enterprise Hybrid Cloud Computing

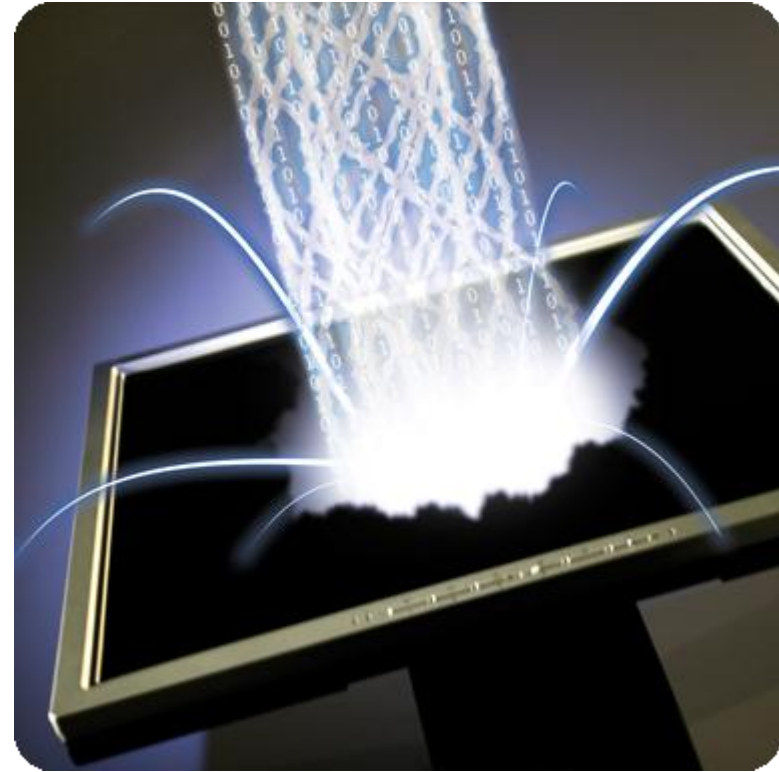
vCenter Operations

Enterprise Hybrid Cloud Computing

Real-time Performance Management for VMware Administrators

Why vCenter Operations Standard?

- **80% of VMware admin time spent isolating performance problems**
 - “1st generation” green-yellow-red static threshold reporting insufficient and too complex to use
 - Point solutions only address a subset of issues
- **VMware administrators have two conflicting goals**
 - Maximize ROI by increasing VM density
 - Ensure required capacity for business growth and other changes in real-time
 - Ensure that virtual component performance supports required application performance



VMware vCenter Operations Standard Basics

- **Clear and quick way to identify VMware performance problems**
- **Easy to use for VMware Administrators**
 - Deeply integrated as a vCenter pane
 - Intuitive screens guide users to issues needing attention
 - Automatically collects data from vCenter
 - Time-series performance data, topological relationships and configuration change events
- **VMware vCenter Operations Standard business benefits**
 - Increased performance for end users of business applications and services
 - Reduced infrastructure costs through increased VM to ESX density
 - Reduced VM administration costs and optimized VMware admin productivity

Understanding your Virtual Environment - Workload

■ Workload Measures

- Demand for resources vs. Resources currently used
- Result is a percentage of Workload
 - Low number is Good – Object has the resources it needs
 - Can go above 100% - Object is “Starving”



■ Workload summarized across critical resources

- CPU
- Network I/O
- Storage I/O
- Memory (VM and ESX Allocation)

■ Workload Details View

- Detailed understanding of the lacking resource and associated metrics
- View the state of the Peer and Parent Objects and troubleshoot
 - Am I a victim or a villain?
 - Is this a population problem?
 - Should we move the VM?
 - A Configuration issue?
 - Lack of resources?
 - Virtual infrastructure is fine. OS or application issue?

Understanding your Virtual Environment - Health

■ Health Measures

- How normal is this object behaving: 0-100 (Higher is Healthier)
- Learns dynamic ranges of “Normal” for each metric
- Learns patterns of behavior and identifies metric abnormalities
- Lower the health the more abnormalities

■ Once a virtual element Health problem is identified

- Single screen provides details on problem based on behavioral understanding of the element
- Points to the Root Cause metrics to help you troubleshoot
- Eliminates 100s of clicks and memorization of many metric behaviors that 1st generation monitoring tools require

■ Health and Workload together tell you a lot

- Workload High & Health High – Normal Behavior for this timeframe
- Workload High & Health Low – Something is amiss!



Important Note

Low Health does not imply a problem. It tells you that the object is acting differently than normal.

Understanding your Virtual Environment - Capacity

■ Capacity Measures

- How much time do you have left before a object runs out of resources?
- Based on a 0-100 scale – Higher the number the longer you have
- Thresholds User Configurable
 - 30 Days Left = RED
 - 60 Days Left = Orange
 - Etc.



■ Capacity measured for critical resources

- CPU
- Network I/O
- Storage I/O
- Memory

■ Capacity Details View

- Shows the chart and trend for each of the above resources
- Denotes current state
- Projected breach point and days left

VMware vCenter Operations Editions

vCenter Operations Enterprise

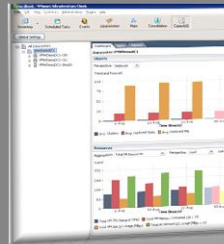
vCenter Operations Advanced

vCenter Operations Standard

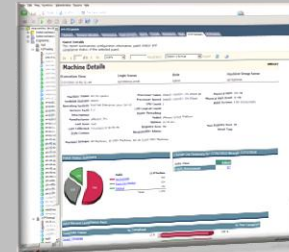
Performance
Real-time
Capacity
Configuration
Change



+ Capacity
Planning



- + Full Configuration & Compliance Management
- + Other VMware & 3rd Party Integrations (View, management, servers, storage)



vSphere



VMware Cloud / vCenter

Microsoft System Center Operations Manager

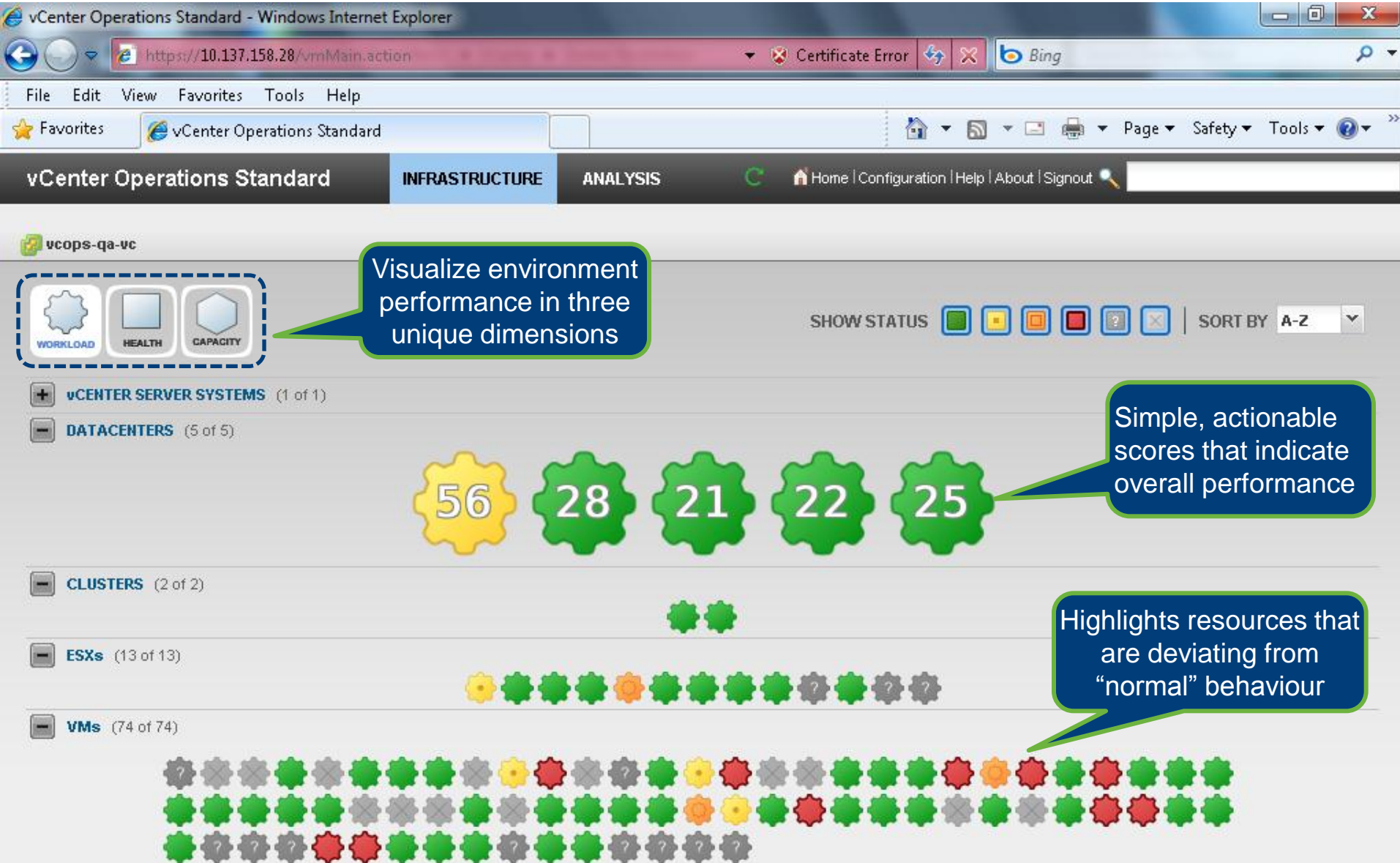
Tivoli software

HP OPENVIEW

Non-VMware (incl. physical) environments

Screenshots

Performance dashboard based on self-learning analytics



Get “At-a-glance” insights into performance issues

The screenshot displays the vCenter Operations Standard interface. The top navigation bar includes 'vCenter Operations Standard', 'INFRASTRUCTURE', and 'ANALYSIS'. The main content area shows a hierarchy of infrastructure components: vCENTER SERVER SYSTEMS (1 of 1), DATACENTERS (5 of 5), CLUSTERS (2 of 2), ESXs (13 of 13), and VMs (74 of 74). A performance dashboard is visible, featuring a row of gear-shaped icons with scores: 56, 28, 21, 22, and 25. The score '28' is highlighted with a dashed blue box. A callout box labeled 'Performance scores' points to this score. Below the dashboard, a detailed view for host '10.135.188.119' is shown, with a callout box labeled '“Details” for further analysis' pointing to the 'Details' button. The detailed view includes a 'SHOW STATUS' section with colored indicators and a 'SORT BY A-Z' dropdown. The detailed view also shows three metrics: WORKLOAD (71), HEALTH (89), and CAPACITY (100). A callout box labeled 'Visualize impact' points to a gear icon in the ESXs row, which is highlighted with a dashed blue box. The gear icon is orange, indicating a performance issue.

Performance scores

Visualize impact

“Details” for further analysis

Host	Workload	Health	Capacity
10.135.188.119	71	89	100

Drill down into problem source

The screenshot displays the vCenter Operations Standard interface for a VM named 'vrops-qa-vc'. The main dashboard shows a workload bar chart and three large performance indicators: 71 (orange), 89 (green), and 100 (green). A callout box points to the '71' indicator, stating 'Stress caused by net I/O'. Below this, a 'WORKLOAD' table shows resource usage: CPU (24%), MEM (53%), DISK I/O (1%), and NET I/O (71%). Another callout box points to the 'NET I/O' row, stating 'Quickly identify problem source'. The 'KEY METRICS' section on the right lists: Memory|Usage / Usable(%) at 93, Disk|Disk Write Latency (ms) at 60, CPU Usage|Core Utilization(%) at 12, and CPU Usage|Idle (ms) at 17,565. A callout box points to this section, stating 'Key metrics of interest based on continuous learning of "normal" behavior'. The 'ESX RESOURCES' table at the bottom left shows: Number Of Running VMs: 12, Total CPU Capacity: 40 GHz, Total Memory Capacity: 64 GB, Total CPU Use: 24%, Total Memory Use: 93%, and ESX Version: 7. The bottom right shows a memory usage bar chart with labels for 'Memory reserved 2,219 (3%)', 'Memory demand 32,896 (50%)', and 'Memory usage 57,113 (87%)'.

vCenter Operations Standard - Windows Internet Explorer

https://10.137.158.28/vmMain.action#{"opType":"ec","id":492,"type":"esx","name"} Certificate Error Bing

File Edit View Favorites Tools Help

vCenter Operations Standard INFRASTRUCTURE ANALYSIS Home | Configuration | Help | About | Signout

vcops-qa-vc : CIQDataCenter : 10.135.188.119 (Running) Details Scoreboard All Metrics

WORKLOAD (ESX : 10.135.188.119 : Running)

71 89 100

BOUND BY: Net I/O

KEY METRICS Default CPU MEM NET I/O DISK I/O

Memory|Usage / Usable(%) 93

Disk|Disk Write Latency (ms) 60

CPU Usage|Core Utilization(%) 12

CPU Usage|Idle (ms) 17,565

Stress caused by net I/O

Quickly identify problem source

Key metrics of interest based on continuous learning of "normal" behavior

WORKLOAD

CPU	24%
MEM	53%
DISK I/O	1%
NET I/O	71%

ESX RESOURCES

Number Of Running VMs:	12
Total CPU Capacity:	40 GHz
Total Memory Capacity:	64 GB
Total CPU Use:	24 %
Total Memory Use:	93 %
ESX Version:	7

Memory reserved 2,219 (3%)

Memory demand 32,896 (50%)

Memory usage 57,113 (87%)

Correlate cause-and-effect of the problem

vCenter Operations Standard - Windows Internet Explorer

https://10.137.158.28/vmMain.action#{ "opType": "ec", "id": "492", "type": "esx", "name": ... Certificate Error Bing

File Edit View Favorites Tools Help

vCenter Operations Standard INFRASTRUCTURE ANALYSIS Home | Configuration | Help | About | Signout

vcops-qa-vc : CIQDataCenter : 10.135.188.119 (Running) Details Scoreboard All Metrics

RELATED OBJECTS

PARENT OBJECT : DATACENTER : CIQDataCenter

28 NORMAL: 6-48 BOUND BY: Memory

PEER OBJECTS OF 10.135.188.119 (4 of 4 ESXs)

CHILD OBJECTS OF 10.135.188.119 (14 of 14 VMs)

EVENTS AND WORKLOAD

Related Events: Show child object events

Time Description

8:09:01 AM	Guest Info Tools Status changed from guestToolsNotRunning to guestToolsRunning
8:08:31 AM	Guest Info Tools Status changed from guestToolsRunning to guestToolsNotRunning
7:57:00 AM	Guest Info Tools Status changed from guestToolsNotRunning to guestToolsRunning
7:56:50 AM	Guest Info Tools Status changed from guestToolsRunning to guestToolsNotRunning
5:07:21 AM	Guest Info Tools Status changed from guestToolsNotRunning to guestToolsRunning

Check health of related objects in the hierarchy

Correlate events that occurred at the same time

Deep Dive into Disk and Network IO performance

The screenshot displays the vCenter Operations Standard interface. At the top, a browser window shows the URL `https://10.137.158.28/vmMain.action#{"opType":"ec","id":492,"type":"esx","name"}`. The main navigation bar includes 'vCenter Operations Standard', 'INFRASTRUCTURE', and 'ANALYSIS'. The current view is for 'vcops-qa-vc : CIQDataCenter : 10.135.188.119 (Running)'. A log window at the top shows system events. Below the log, there are two main performance sections:

- ESX ATTACHED DISK SUBSYSTEMS**: Shows 'Aggregate FC_LUN5_RAID10' with metrics for READ and WRITE. A callout bubble points to this section with the text: "Disk subsystem performance details by datastores and LUNs".
- ESX USED NETWORK INTERFACES**: Shows 'vmnic2' with metrics for SENT and RECEIVED. A callout bubble points to this section with the text: "Network statistics for every NIC".

Metric	READ	WRITE
Total I/O Commands	22	1,593
Total Throughput(KBps)	6	1,133
Total Latency(ms)	5	4
Host I/O Commands	0.6	79
Host Throughput(KBps)	7	1,133
Host Latency(ms)	5	4

Metric	SENT	RECEIVED
Request	1,192	1,243
Rate(KBps)	97	1,676

Identify and isolate KPI metrics

The screenshot displays the vCenter Operations Standard interface. At the top, the browser address bar shows the URL `https://10.137.158.28/vmMain.action?currentPage=machines#{"opType":"ec","id"}`. The navigation bar includes "vCenter Operations Standard", "INFRASTRUCTURE", and "ANALYSIS". The main content area is titled "vcops-qa-vc : AliveDataCenter" and features a "HEALTH (DATACENTER : AliveDataCenter)" section. This section includes a 3D bar chart labeled "Last 6 Hours" and three large performance indicators: a green square with "90", a green hexagon with "33", and a yellow hexagon with "20". Below the health indicators is a "WORKLOAD" section with progress bars for CPU, MEM (19%), DISK I/O (0%), and NET I/O (15%). A "DATACENTER RESOURCES" section lists metrics such as "Number Of Running VMs", "Total CPU Capacity", "Total CPU Usage", "Total Memory Capacity", and "Total Memory Usage" (92%). On the right, the "KEY METRICS" section is active, showing line graphs for "Memory|Usage (KB)", "Memory|Usage / Usable(%)", "Memory|Reserved Capacity (KB)", and "Summary|Capacity (%)". Below the graphs are three expandable sections: "MEMORY (1 OF 1)", "SYSTEM (1 OF 1)", and "SUMMARY (1 OF 1)", each containing a list of metrics with percentage values and timestamps. Two blue callout boxes are overlaid on the interface. The first callout, pointing to the health indicators, contains the text "Quickly identify 'suspect' performance metric". The second callout, pointing to the workload and resources sections, contains the text "KPI history with timestamp to indicate root cause".

File Edit View Favorites Tools Help

https://10.137.158.28/vmMain.action?currentPage=machines#{"opType":"ec","id"} Certificate Error Bing

vCenter Operations Standard INFRASTRUCTURE ANALYSIS Home | Configuration | Help | About | Signout

vcops-qa-vc : AliveDataCenter Details Scoreboard All Metrics

HEALTH (DATACENTER : AliveDataCenter)

90 33 20

WORKLOAD

CPU MEM 19% DISK I/O 0% NET I/O 15%

DATACENTER RESOURCES

Number Of Running VMs: Total CPU Capacity: Total CPU Usage: Total Memory Capacity: Total Memory Usage: 92 %

KEY METRICS

Default CPU MEM NET I/O DISK I/O

Memory|Usage (KB) 43,518,969

Memory|Usage / Usable(%) 92

Memory|Reserved Capacity (KB) 1,630,208

Summary|Capacity (%) 20

MEMORY (1 OF 1)

- 100 % 5:05AM Memory|VM Overhead (KB)
- 100 % 5:05AM Memory|Unreserved (KB)
- 100 % 5:05AM Memory|Reserved Capacity (KB)
- 100 % 5:05AM Memory|VMkernel Usage (KB)
- 100 % 5:15AM Memory|Usage (%)

SYSTEM (1 OF 1)

- 100 % 5:14AM System|host/user|Resource Memc
- 100 % 5:14AM System|host|Resource Memory O
- 100 % 5:25AM System|host/user|Resource Memc
- 100 % 5:25AM System|host|Resource Memory M
- 100 % 8:45AM System|host|Resource CPU Usag

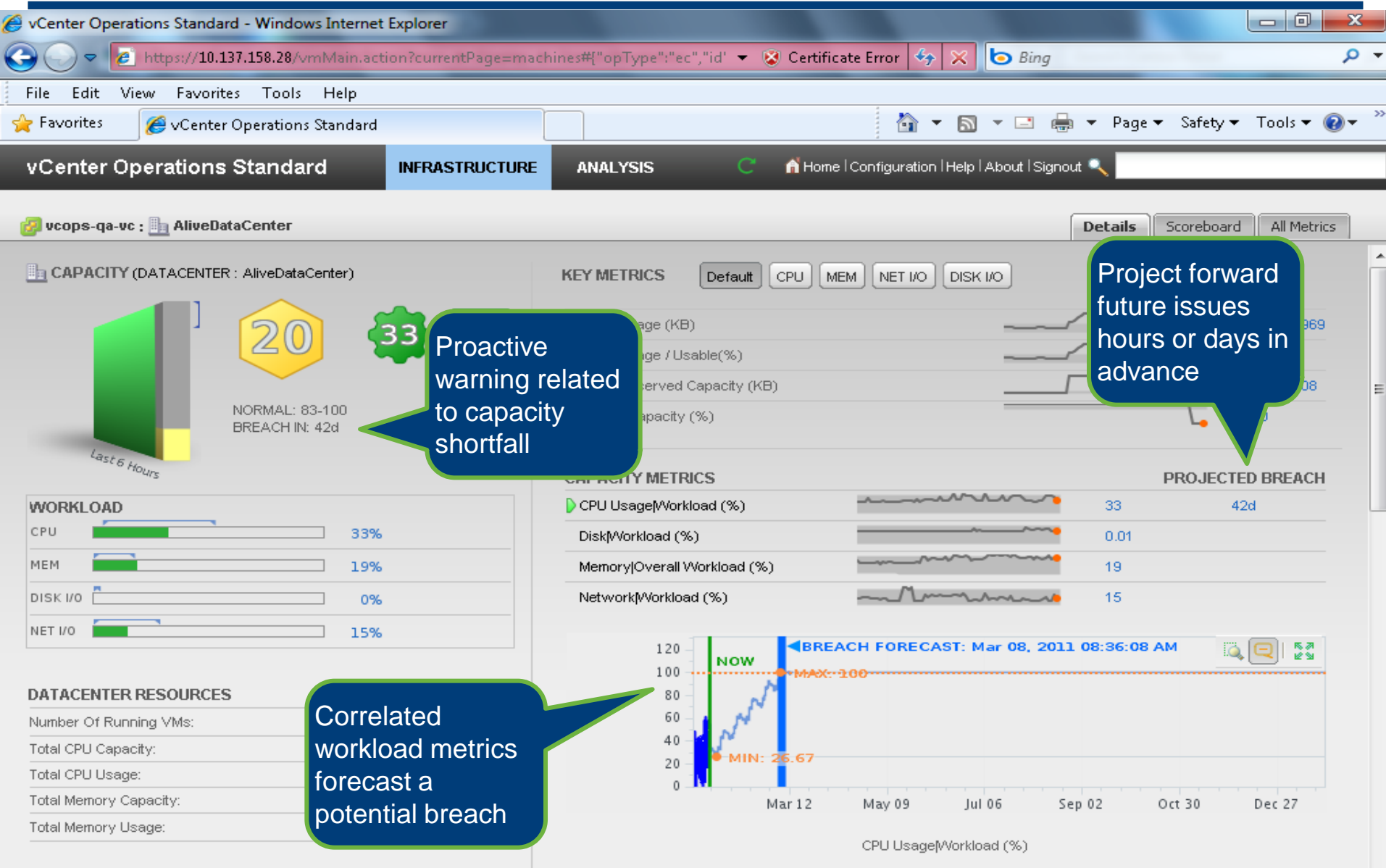
SUMMARY (1 OF 1)

- 100 % 4:39AM Summary|Total Number of VMs
- 100 % 5:05AM Summary|Number of Running VM:
- 100 % 8:44AM Summary|Capacity (%)

Quickly identify "suspect" performance metric

KPI history with timestamp to indicate root cause

Anticipate Capacity Issues Before They Happen



Opportunities to remediate

vCenter Operations Standard - Windows Internet Explorer

https://10.137.158.28/analysis.action?currentPage=analysis

File Edit View Favorites Tools Help

vCenter Operations Standard INFRASTRUCTURE ANALYSIS Home | Configuration | Help | About | Signout

HEATMAP GALLERY Focus Area All Smallest Box Shows VM Search Showing 8 of 23 Customize

Description	Color By	Size By	Group By	Smallest Box
VM Health Sized By Workload Grouped By Cluster/Host	System Generated Self - Health Score	Summary Workload (%)	CLUSTER / ESX	VM
VM I/O Contention Sized By I/O Usage Grouped By Datastore	Datastore:<datastore> Total Latency ...	Datastore:<datastore> Usage Rate(K...	DATA STORE	VM
VM Memory Contention Sized By ...	Memory Contention (%)	Memory Usage (KB)	CLUSTER / ESX	VM
VM Sized By Network		Network:Aggregate of all instances ...	CLUSTER / ESX	VM
VM Sized By Space		Datastore:<datastore> Used Space (...	DATA STORE	VM

VM Health Sized By Workload Grouped By Cluster/Host

0 50 100

CLUSTER: Other Details
ESX: 10.135.188.9 Details
VM: ST-VCOPS-353132 Details
System Generated|Self - Health Score (Color): 14
Summary|Workload (%) (Size): 38

10.135.188.119

10.135.188.9

10.20.84.88

10.135.188.123

LM2

LM1

014

DETAILS

VM	CLUSTER	ESX	Summary workload (%)	System Generated Self - Health Score
ST-VCOPS-353132	Other	10.135.188.9	38	14
vcops-347315	Other	10.135.188.9	56	48
et-vcops-347315	Other	10.135.188.9	2	48

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Move VMs to another host?

This host looks healthy...

This host seems to be overloaded!

Individual performance metric details

vCenter Operations Standard - Windows Internet Explorer

https://10.137.158.28/vmMain.action#{"opType":"ec","id":492,"type":"esx","name"} Certificate Error Bing

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vCenter Operations Standard INFRASTRUCTURE ANALYSIS

vcops-qa-vc : CIQDataCenter : 10.135.188.119 (Running) Details Scoreboard All Metrics

HEALTH TREE

METRIC SELECTOR (10.135.188.119)

Search: Group

- CPU Usage
- CPU Utilization for Resources
- Datastore
- Disk
 - Idle (ms)
 - Read Rate (KBps)
 - Usage Rate(KBps)
 - Workload (%)
 - Write Rate (KBps)
 - Aggregate of all instances
 - Bus Resets
 - Commands Aborted
 - Commands per second
 - Demand
 - Disk Command Latency (ms)
 - Disk Read Latency (ms)
 - Disk Write Latency (ms)
 - Kernel Disk Command Latency (ms)
 - Max Queue Depth
 - Number of Outstanding IO Operations
 - Physical Device Command Latency (ms)
 - Queue Command Latency (ms)
 - Queued Operations

METRIC CHART

10.135.188.119: Datastore|Aggregate of all instances|Write Latency (ms) H: 223.2 L: 0.2

10.135.188.119: Disk|Aggregate of all instances|Disk Write Latency (ms) H: 289.8 L: 0.2

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vmware

VMUG Galicia – 30 de marzo

Novedades VMware

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