

Dell Performance Analysis Collection Kit

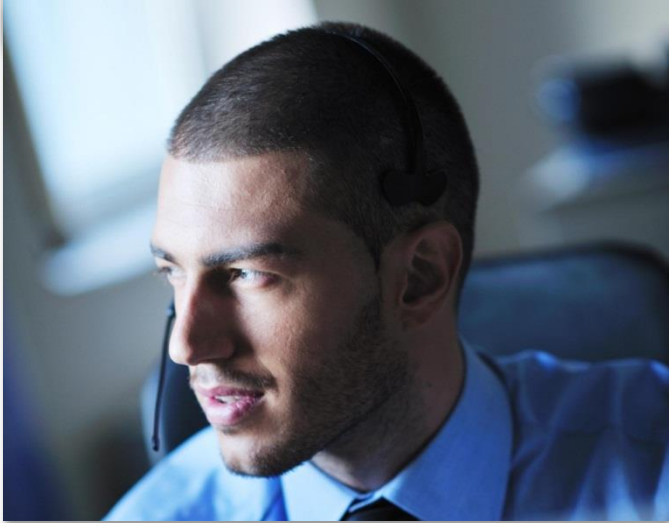
Presenter: Mathias Ohlsén
Title: Solutions Executive



Taking the guesswork out of IT sizing

IT

"In need enough performance and room to grow to support the application usage"



Business

"We need to minimize spend and under utilization while avoiding unpredicted cost spikes"

Helping customers move **beyond guessing**

Three easy steps...

1 Install

2 Measure

3 Analyze



...create actionable insights.

Agentless capture of data through **aggregated resources** or **individual** servers

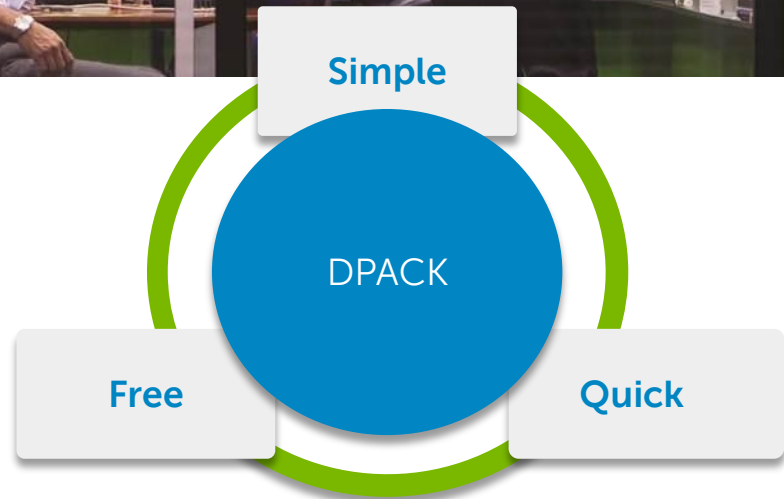
Measure **I/O, throughput, capacity** and **memory utilization**

A Dell **Partner** or **Solution Architect** can help look for ways to **optimize your datacenter**

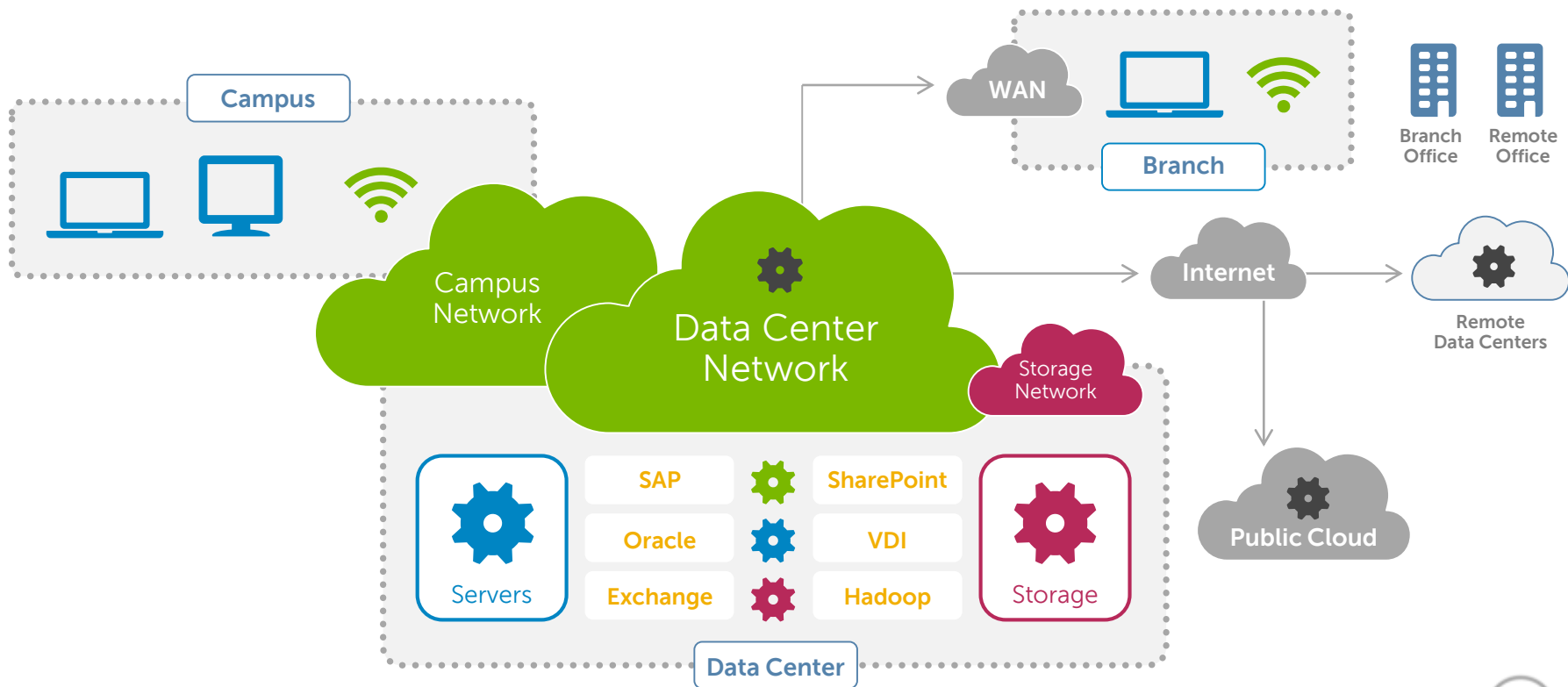
Greater insight in your datacenter creates better value



- No agents or installation
- Takes 24h or less
- Download on dell.com/downloadDPACK

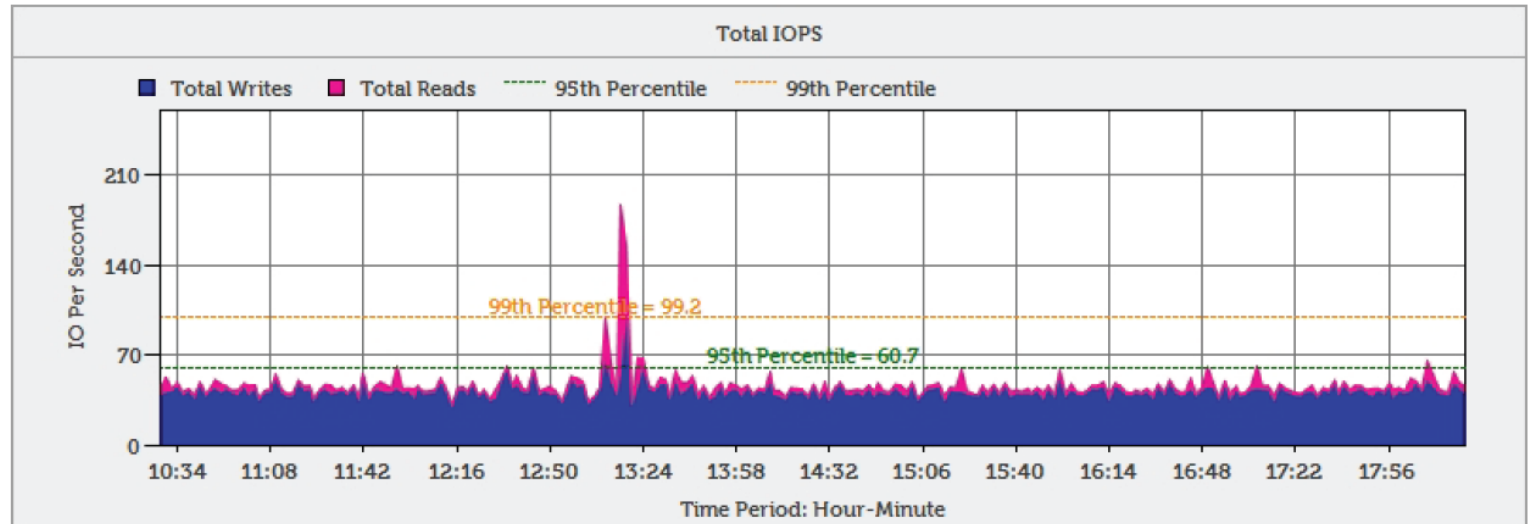


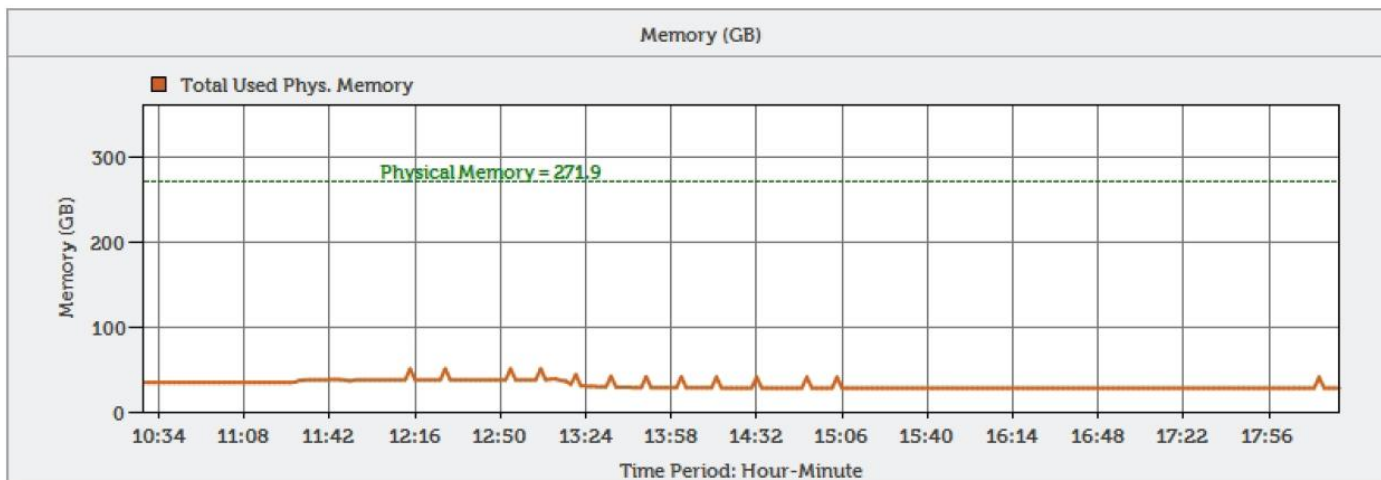
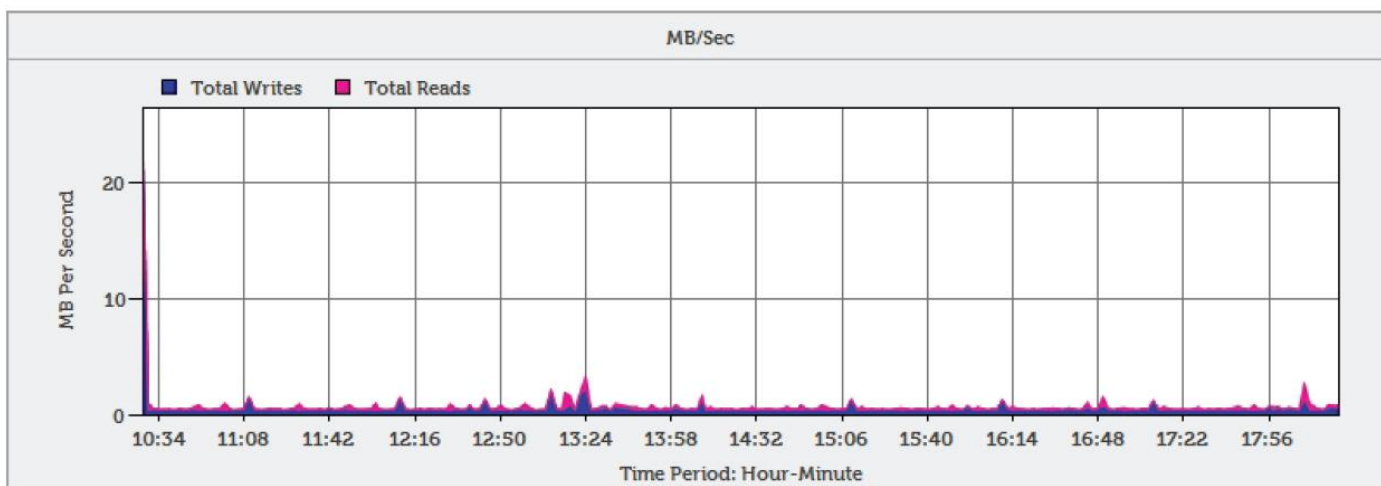
Releasing the architectural lock on the network



Aggregate Output

Time Recorded	7 Hour(s) 56 Minute(s), 3/17/2012 - 3/17/2012
Servers Recorded	6
Output Summary:	
Throughput	21.9
IOPS	60.7 at 95%, 99.2 at 99% and 186.8 at peak
Read/Write Ratio	24% and 76%
Total Capacity:	4927.7 GBs
Free Capacity	2336.5 GBs Free
Used Capacity	2591.2 GBs Used





Individual Server Report: 192.168.7.24

Operating System:	Microsoft Windows Server 2008 R2 Datacenter Service Pack 1
Time Recorded	7 Hour(s) 56 Minute(s), 3/17/2012 - 3/17/2012
Collector Version:	1.0.0.227961

Output Summary:

Throughput	1.8
IOPS	32.6 at 95%, 40.8 at 99% and 47.8 at peak
Read/Write Ratio	11% / 89%
Total Capacity:	1246.4 GBs
Free Capacity	445.7 GBs Free
Used Capacity	800.7 GBs Used

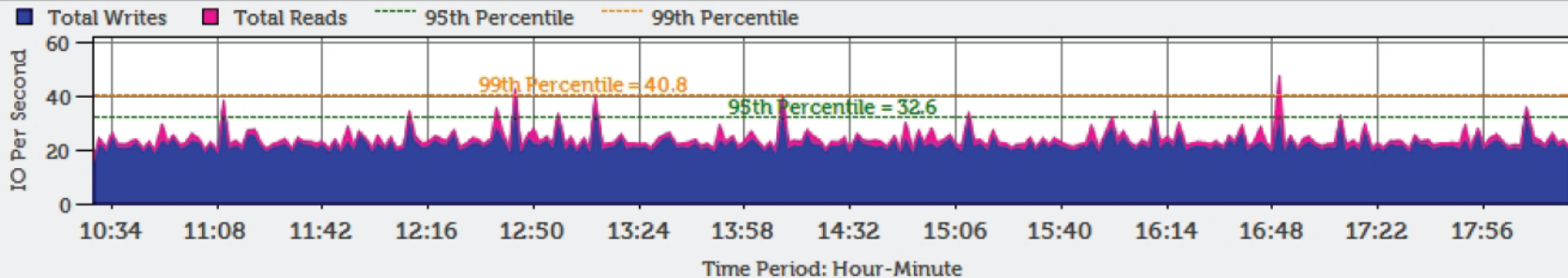
Output Summary:

Average IO size	Read:53.2 KB / Write:23.3 KB
Latency	42.1 ms Reads and 9.2 ms Writes
Peak Queue Depth	0.2
Peak/Min CPU	2% / 0%
Peak/Min Memory	51.9 GB / 51.8 GB
Peak/Min Memory In Use	12.2 GB / 12.1 GB

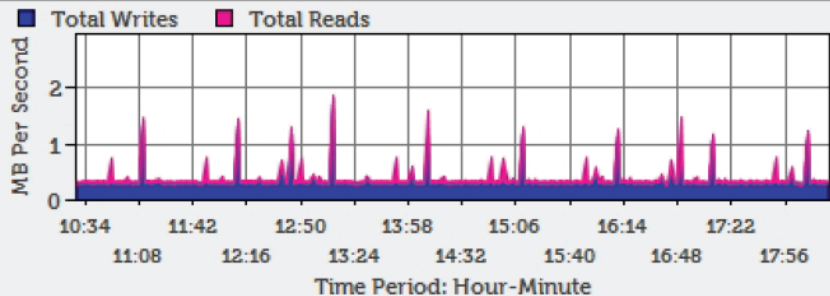
Sockets:	Cores:	Description:
2	8	Intel64 Family 6 Model 46 Stepping 6



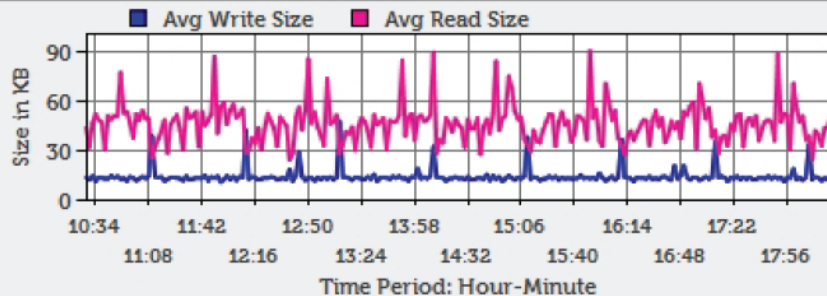
Total IOPS



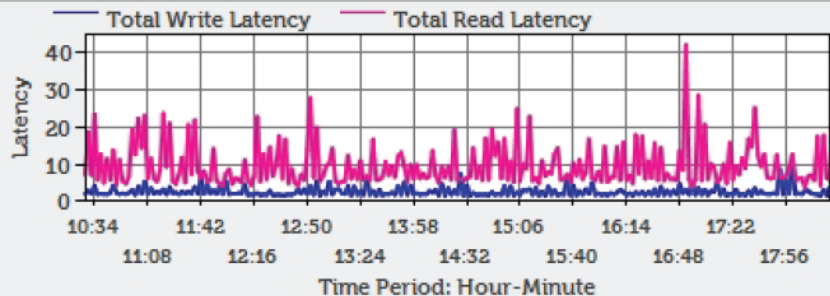
MB/Sec



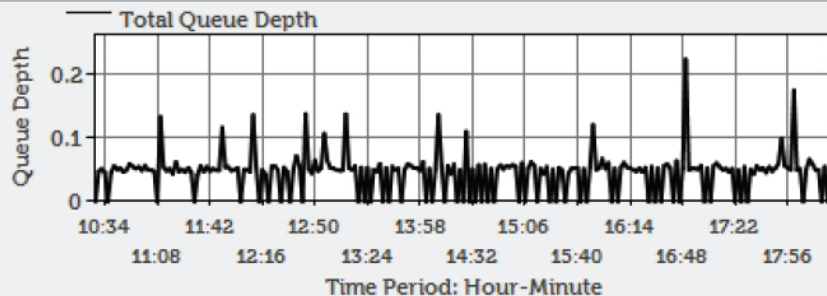
Average Transfer Size



Total Latency



Total Queue Depth



Server Name	95% IOPS	99% IOPS	Peak IOPS	Total MB/s	Local Capacity	Local Capacity Used	Shared Storage
192.168.21.50	13.3	78.2	144.6	1.4	0.1 TBs	0.1 TBs	1.7 TBs

Local Device Data:

Device Name	Capacity	Capacity Free	MB/s at Peak	95% IOPS	99% IOPS	Peak IOPS	Read/Write Ratio	Avg IO Size	Read Latency	Write Latency	Peak Queue Depth
EQLOGIC ISCSI Disk (naa.6090a0286070e3c2a7d7a4010000a007)	41.0 GBs	0.0 GBs	0.0	0.0	0.0	0.0	0%/100%	0.0 KB/0.0 KB	0.0 ms	0.0 ms	0.0
EQLOGIC ISCSI Disk (naa.6090a028a0d05e1ca0f0a484170040f7)	60.0 GBs	0.0 GBs	0.0	0.0	0.0	0.0	0%/100%	0.0 KB/0.0 KB	0.0 ms	0.0 ms	0.0
EQLOGIC ISCSI Disk (naa.6090a0283033e21595dd14f837016056)	30.0 GBs	0.0 GBs	0.0	0.0	0.0	0.0	0%/100%	0.0 KB/0.0 KB	0.0 ms	0.0 ms	0.0
EQLOGIC ISCSI Disk (naa.6090a028a0d04e2c9cf0848417008052)	10.0 GBs	0.0 GBs	0.0	0.0	0.0	0.0	0%/100%	0.0 KB/0.0 KB	0.0 ms	0.0 ms	0.0

Shared Device Data:

Device Name	Capacity	Capacity Free	MB/s at Peak	95% IOPS	99% IOPS	Peak IOPS	Read/Write Ratio	Avg IO Size	Read Latency	Write Latency	Peak Queue Depth
I-DS1	1023.8 GBs	625.7 GBs	1.4	18.5	144.6	144.6	51%/49%	3.5 KB/10.6 KB	7.0 ms	7.9 ms	0.0
NBU	199.8 GBs	189.2 GBs	0.3	5.3	5.3	5.3	62%/38%	48.4 KB/48.8 KB	14.0 ms	1.0 ms	0.0
VMwareISO	50.8 GBs	17.3 GBs	0.3	4.0	4.0	4.0	50%/50%	54.5 KB/96.0 KB	7.0 ms	1.0 ms	0.0
Lab-AppAssure	499.8 GBs	357.1 GBs	0.2	2.3	2.3	2.3	77%/23%	73.6 KB/0.5 KB	16.0 ms	0.0 ms	0.0

Let's get started

Meet with Dell subject matter experts

Schedule a post-event Whiteboard Session to address your specific requirements. Contact your account team for details.



The power to do more