Dell Performance Analysis Collection Kit

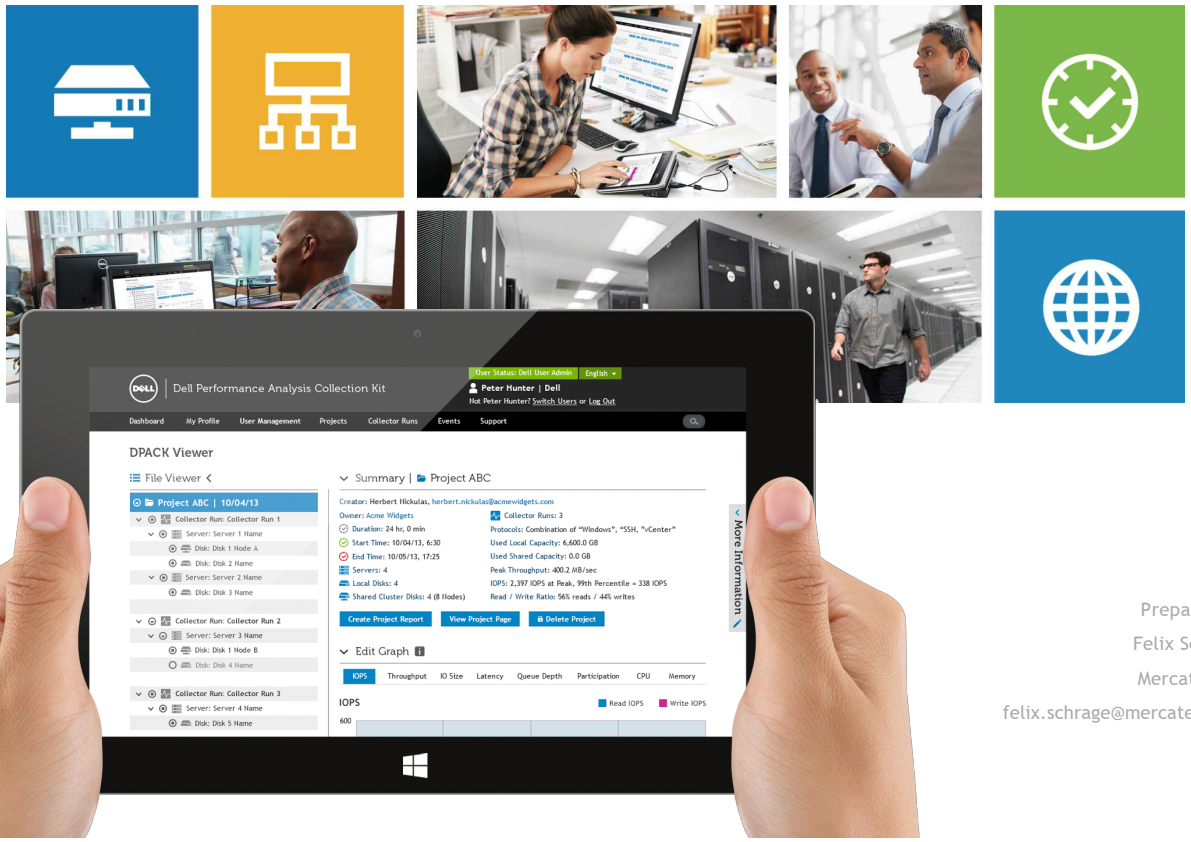
Report Title: 201509_Storage-1

For Mercateo AG

This document is an assessment of the server and storage workloads as observed at Mercateo AG based on servers, server disk activity, and storage capacity. The data depicted in this report may be used to make recommendations on future configurations and solutions.

This report may be used to identify times of peak IO activity, and marks the critical 99th IOPS thresholds, a key metric used as a baseline for storage sizing. This report includes details on servers, CPU and memory usage, as well as free and used storage capacities.

If you have any questions regarding the information presented in this report, please contact your Dell team for immediate assistance.



Prepared By
Felix Schrage
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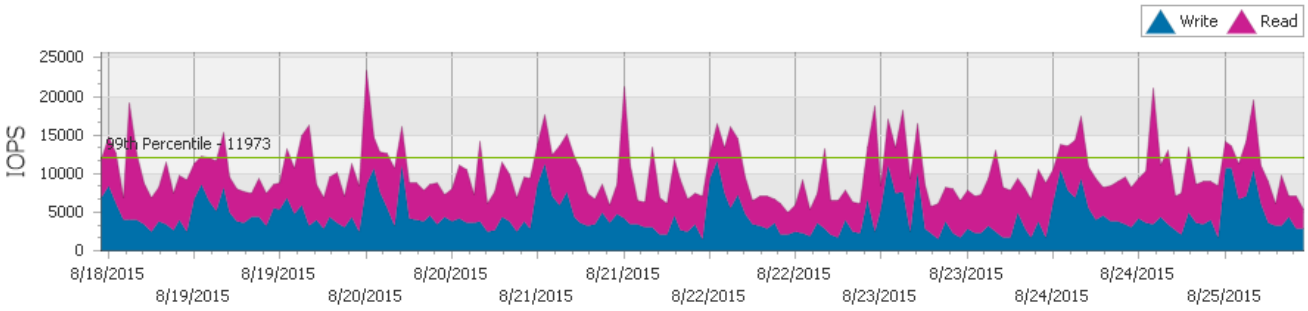
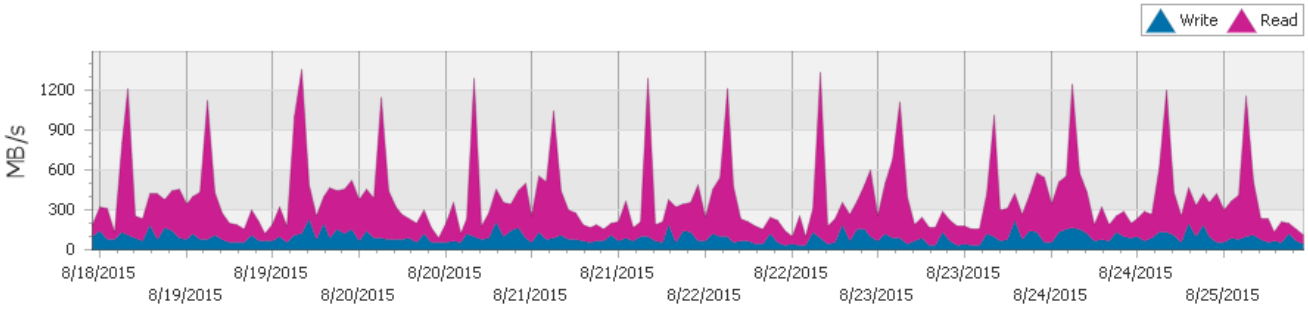
Aggregate Output

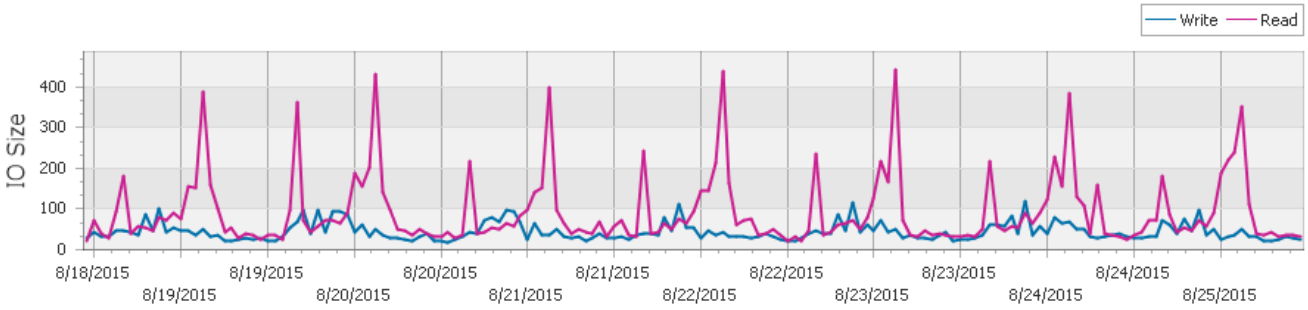
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015
Servers Recorded	64

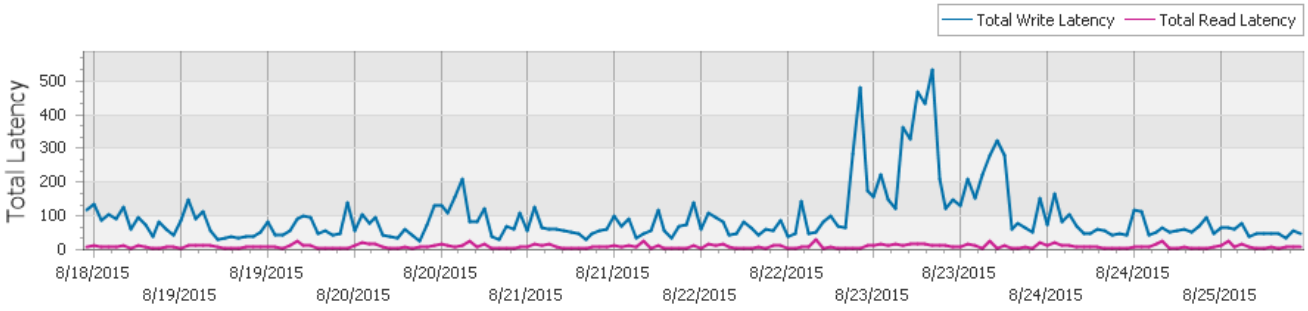
Output Summary

Throughput	**1299 MB/s**
IOPS	**20245 at peak, 11973 at 99%**
Read/Write Ratio	58% / 42%
Total Local Capacity	112.66 TB
Free Local Capacity	66.46 TB (59%)
Used Local Capacity	46.20 TB (41%)
Total Cores	411
Total Processors	164









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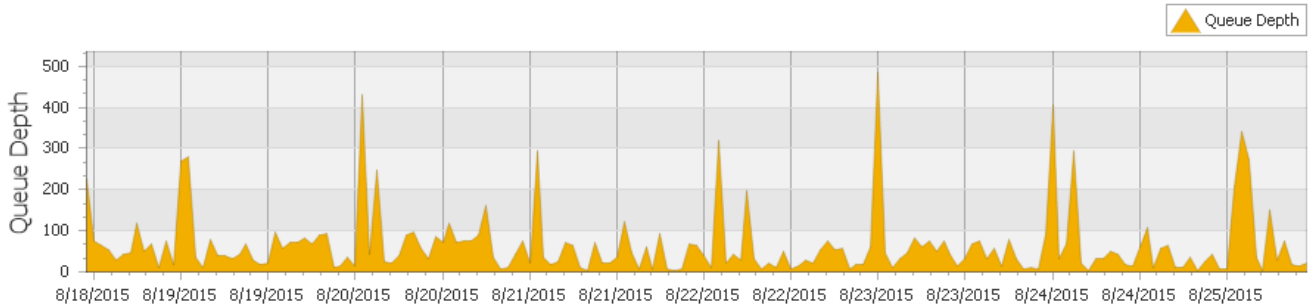

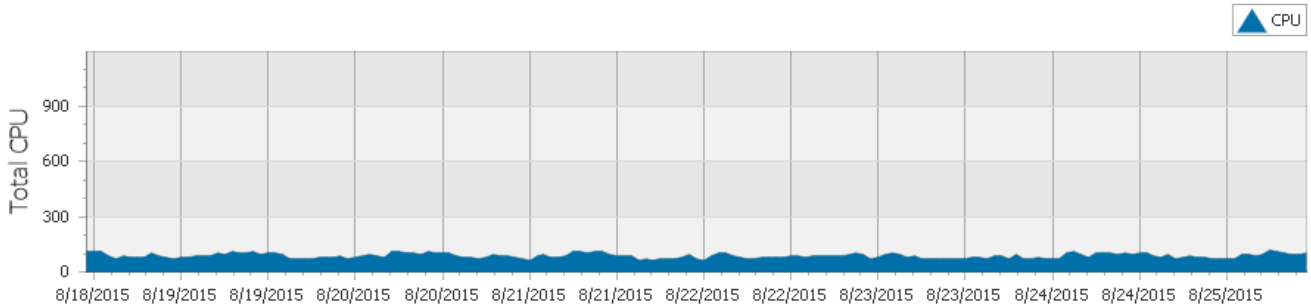

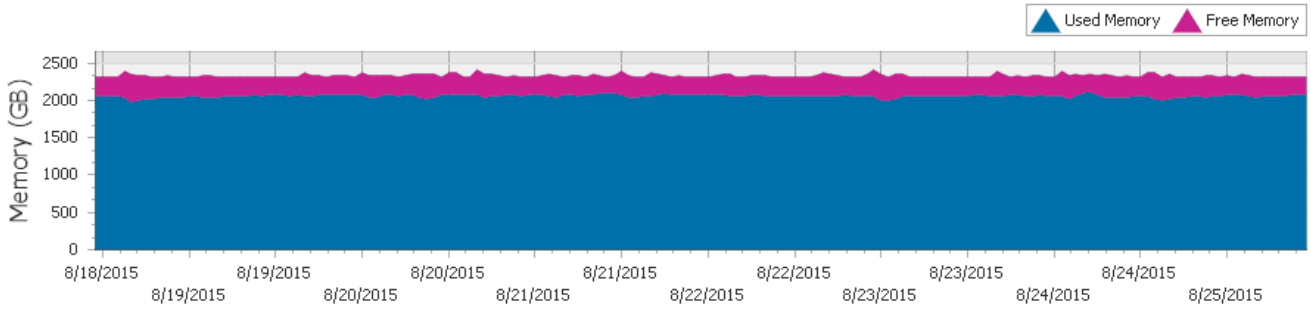

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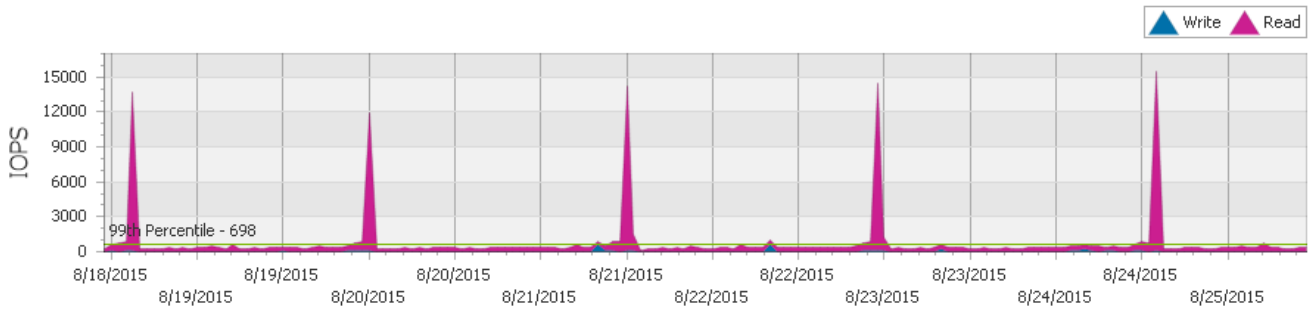
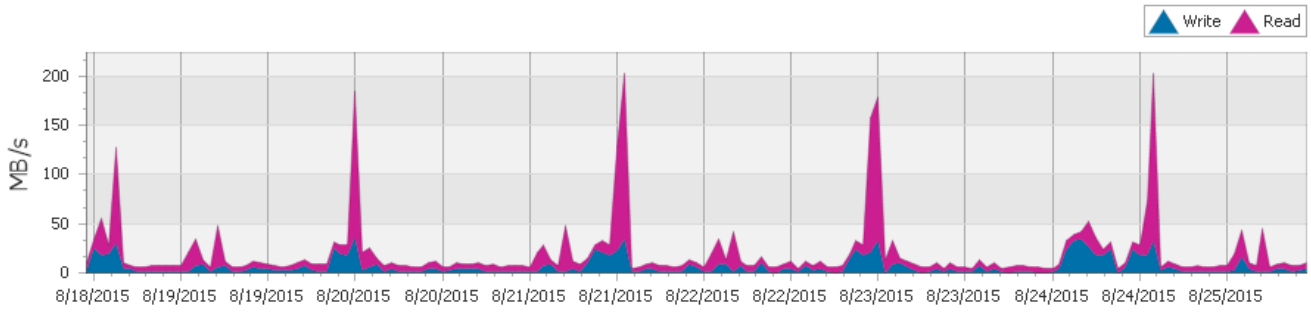
Individual Server Report: adama70

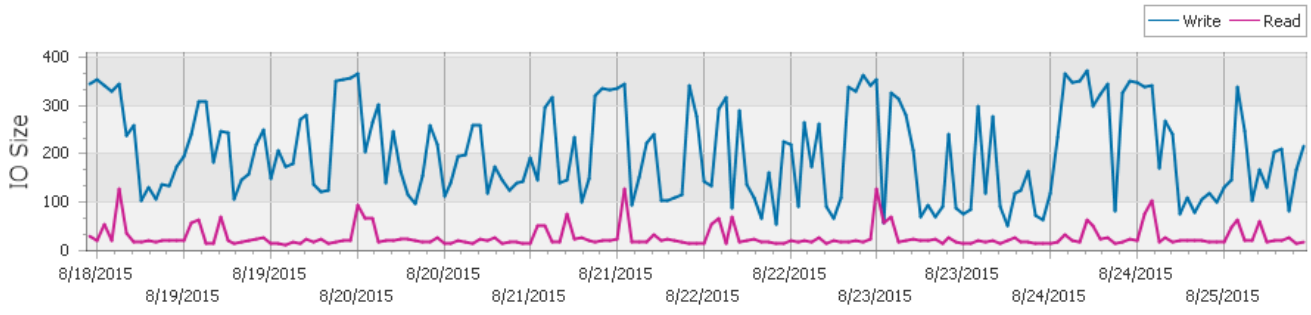
Operating System	CentOS release 6.4 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

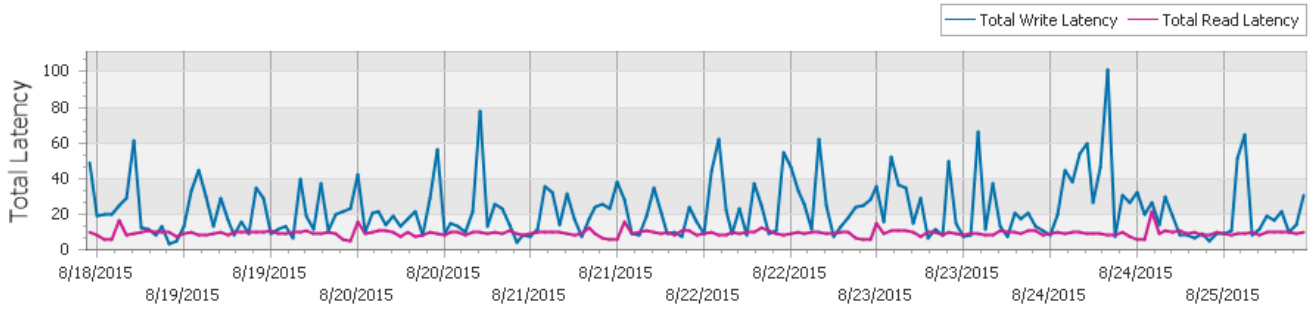
Output Summary		Output Summary	
Throughput	182.10 MB/s	Average IO size	Read: 18.18 KB / Write: 208.84 KB
IOPS	698 at 99%	Latency	22 ms Reads and 101 ms Writes
Read/Write Ratio	96% / 4%	Average Queue Depth	2.28
Total Local Capacity	4.96 TB	Peak/Min CPU	84% / 4%
Free Local Capacity	1.65 TB (33%)	Peak/Min Memory	90.76 GB / 0.70 GB
Used Local Capacity	3.31 TB (67%)	Peak/Min Memory In Use	296.91 GB / 206.86 GB

Sockets	Cores	Description
2	12	Intel(R) Xeon(R) CPU X5650 @ 2.67GHz









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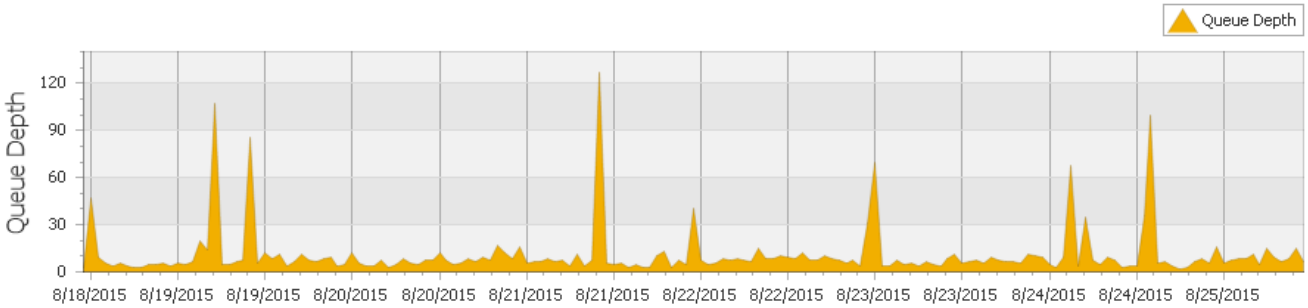

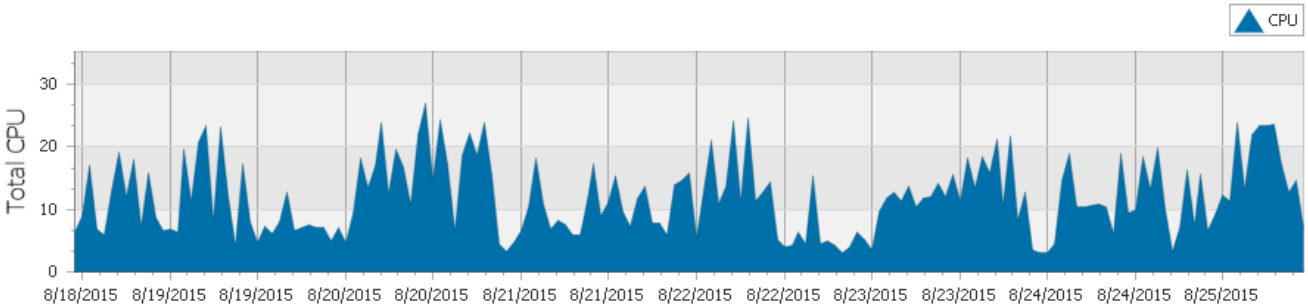

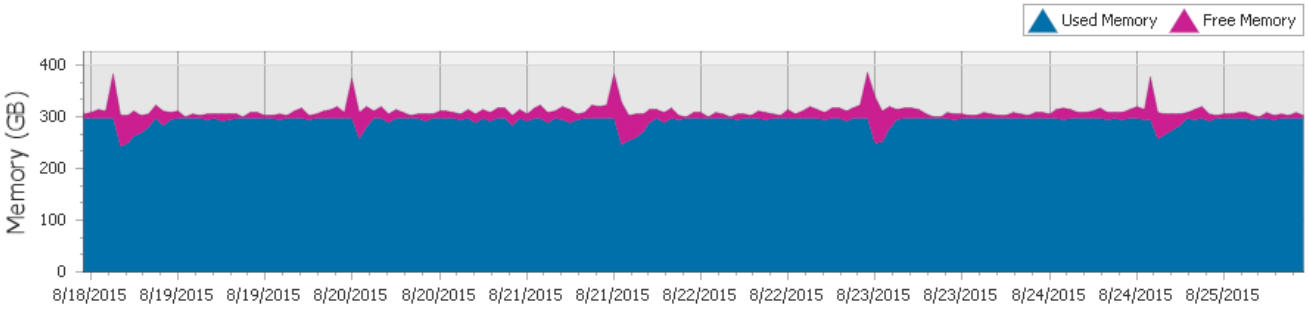

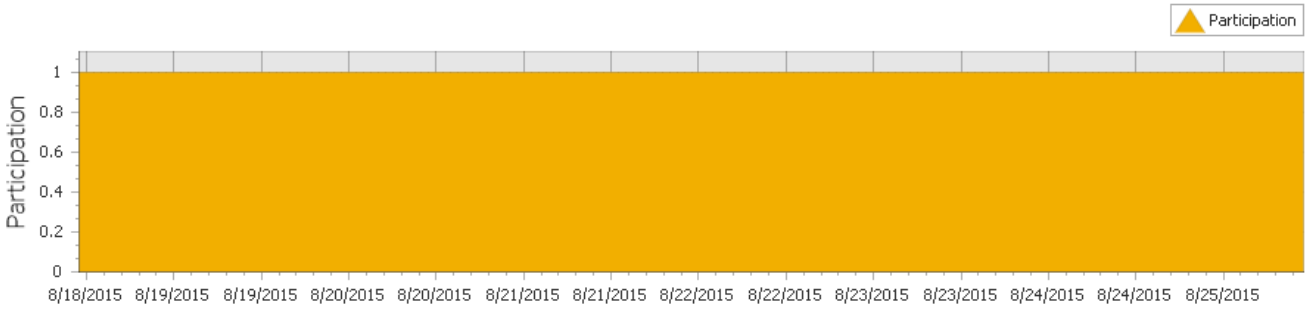

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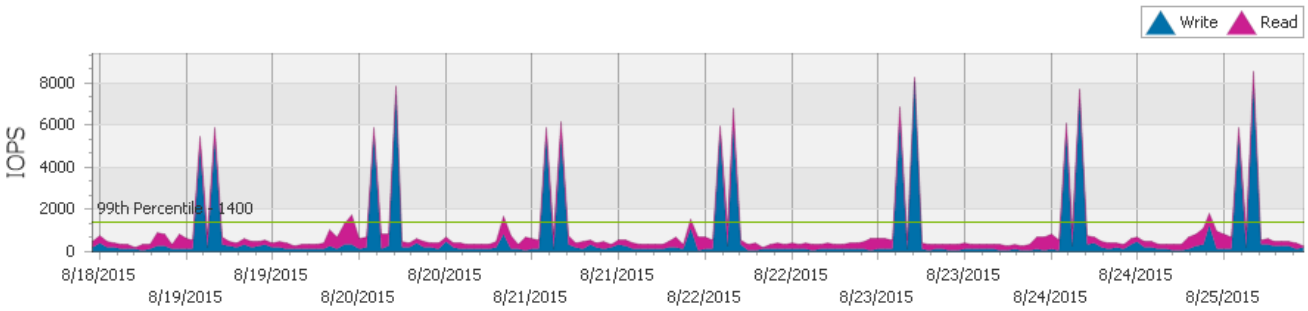
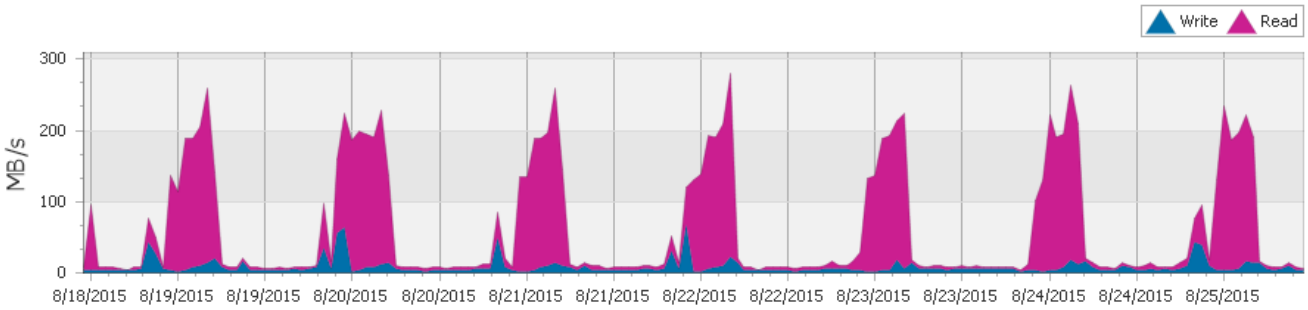
Individual Server Report: oranode1.intern.mercateo.com

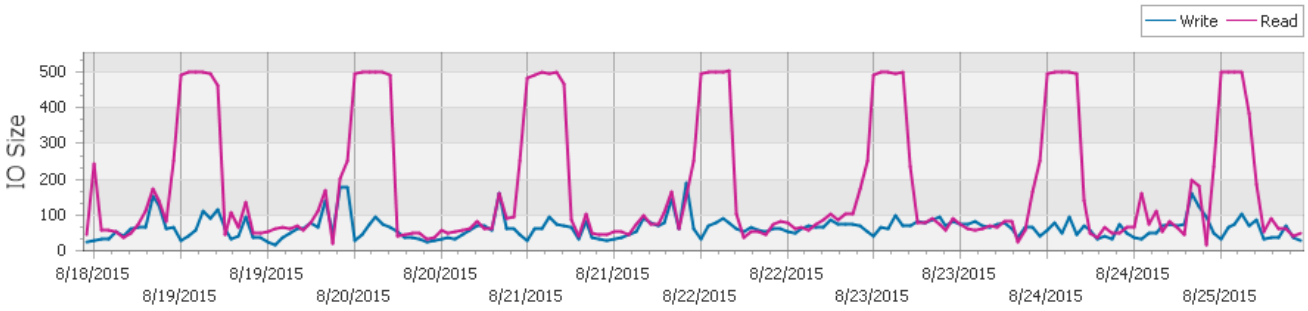
Operating System	Red Hat Enterprise Linux Server release 5.7 (Tikanga)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

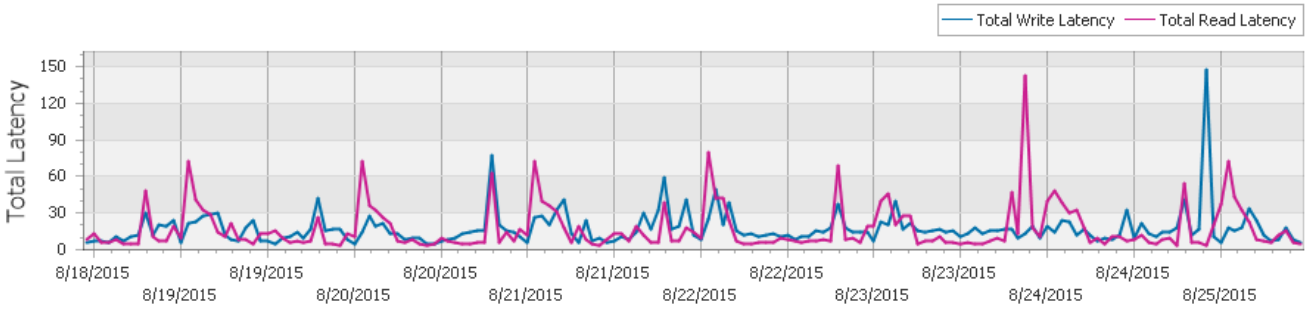
Output Summary		Output Summary	
Throughput	263.40 MB/s	Average IO size	Read: 218.57 KB / Write: 39.97 KB
IOPS	1400 at 99%	Latency	142 ms Reads and 147 ms Writes
Read/Write Ratio	48% / 52%	Average Queue Depth	2.01
Total Local Capacity	7.82 TB	Peak/Min CPU	20% / 0%
Free Local Capacity	7.75 TB (99%)	Peak/Min Memory	9.23 GB / 7.55 GB
Used Local Capacity	65.00 GB (1%)	Peak/Min Memory In Use	25.38 GB / 23.71 GB

Sockets	Cores	Description
2	8	Intel(R) Xeon(R) CPU X5570 @ 2.93GHz









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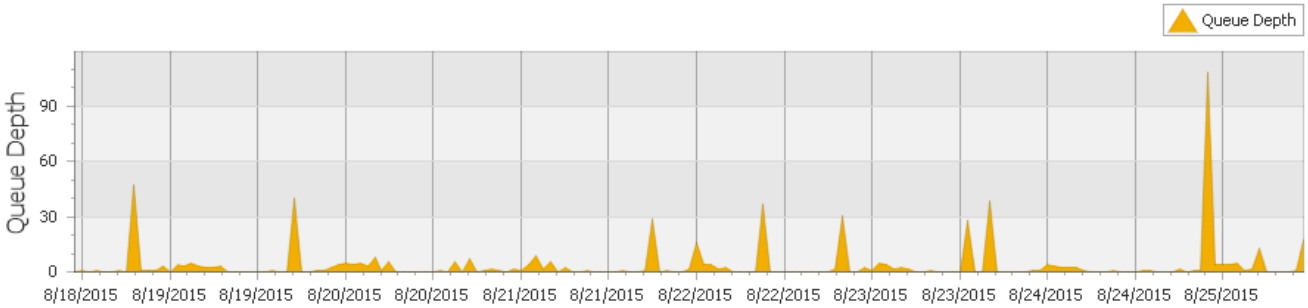

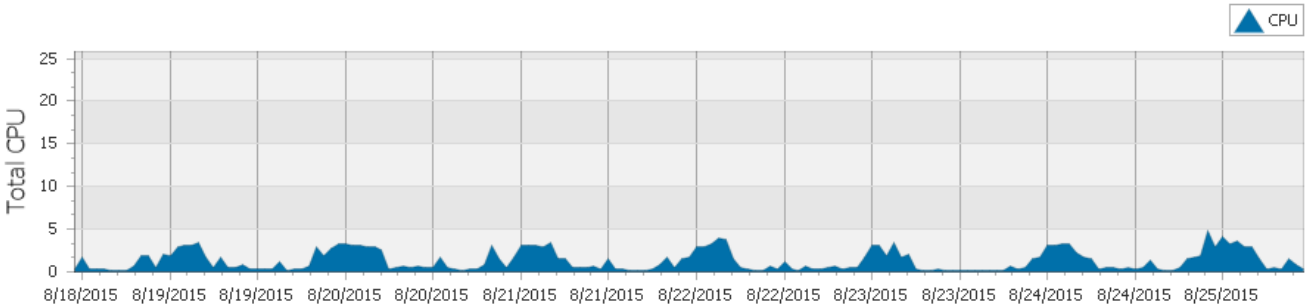

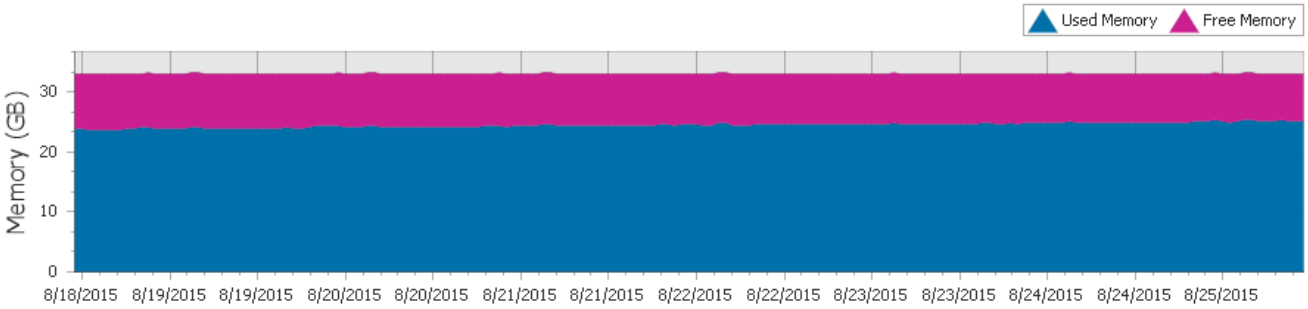

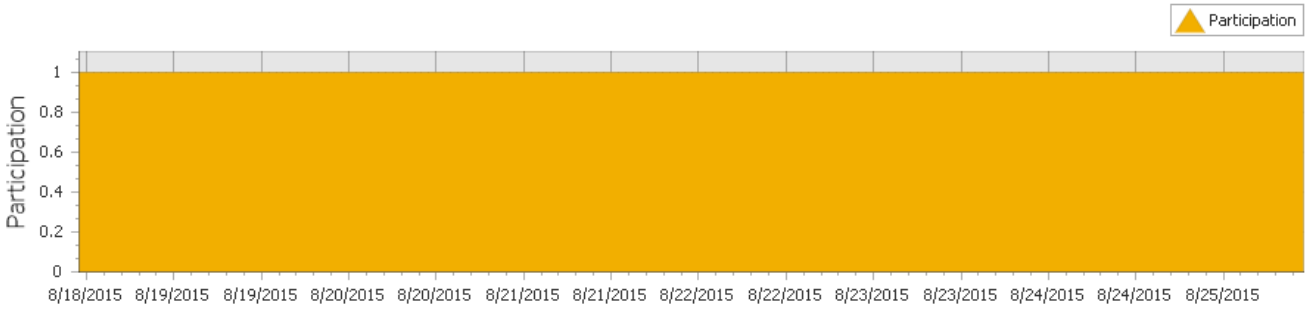

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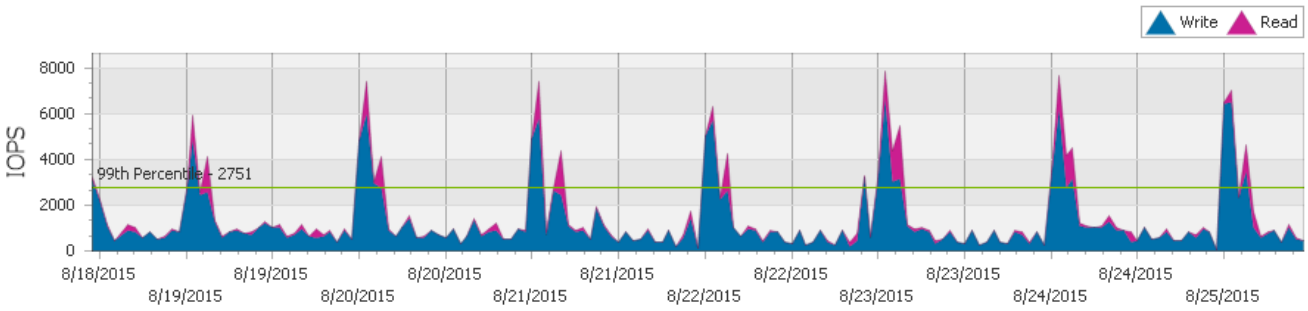
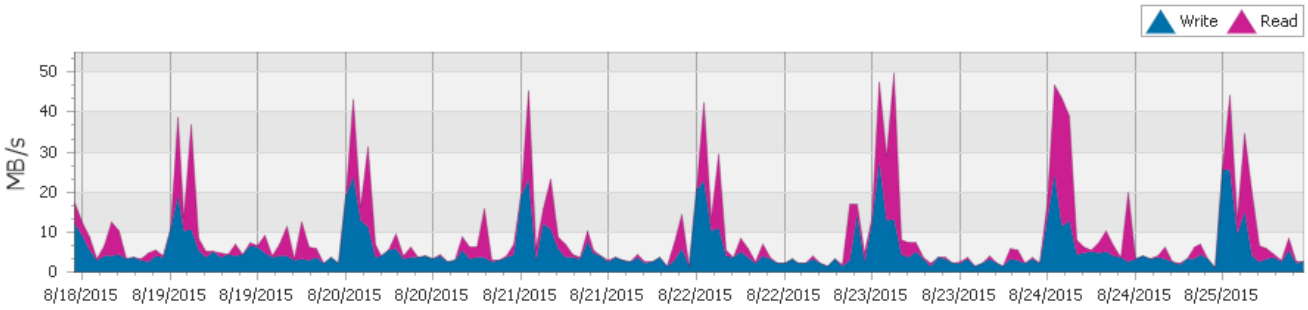
Individual Server Report: live-dmz-ftp1

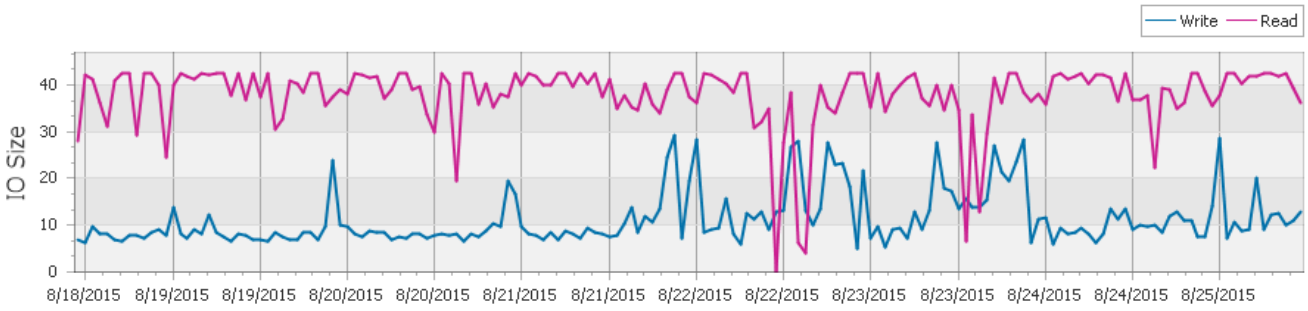
Operating System	CentOS release 6.5 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

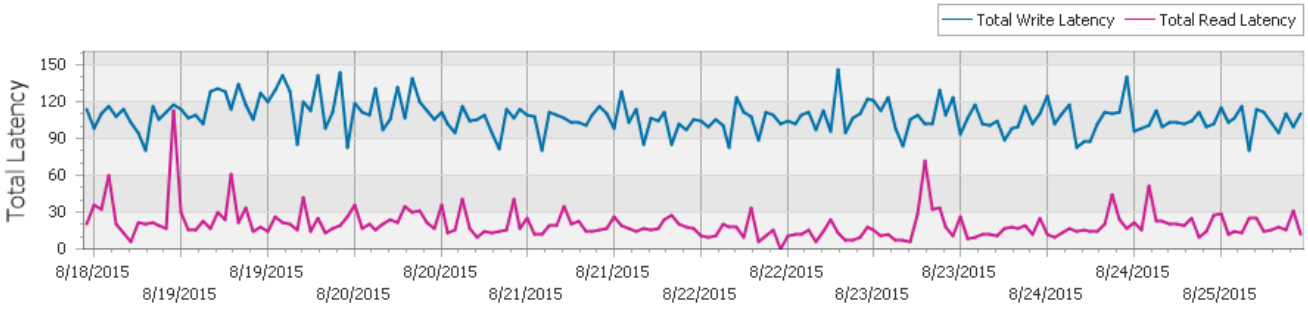
Output Summary		Output Summary	
Throughput	38.20 MB/s	Average IO size	Read: 23.84 KB / Write: 4.58 KB
IOPS	2751 at 99%	Latency	113 ms Reads and 146 ms Writes
Read/Write Ratio	10% / 90%	Average Queue Depth	47.64
Total Local Capacity	4.00 TB	Peak/Min CPU	41% / 0%
Free Local Capacity	3.15 TB (79%)	Peak/Min Memory	3.58 GB / 0.06 GB
Used Local Capacity	876.00 GB (21%)	Peak/Min Memory In Use	12.48 GB / 8.95 GB

Sockets	Cores	Description
4	4	Intel(R) Xeon(R) CPU X5660 @ 2.80GHz









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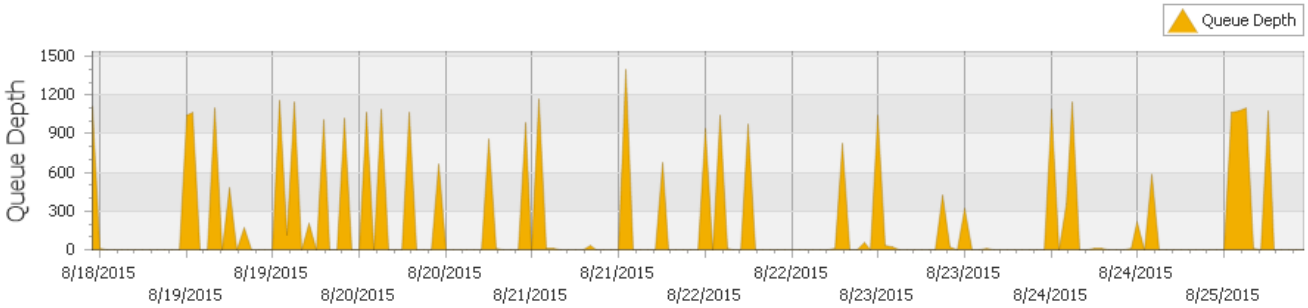

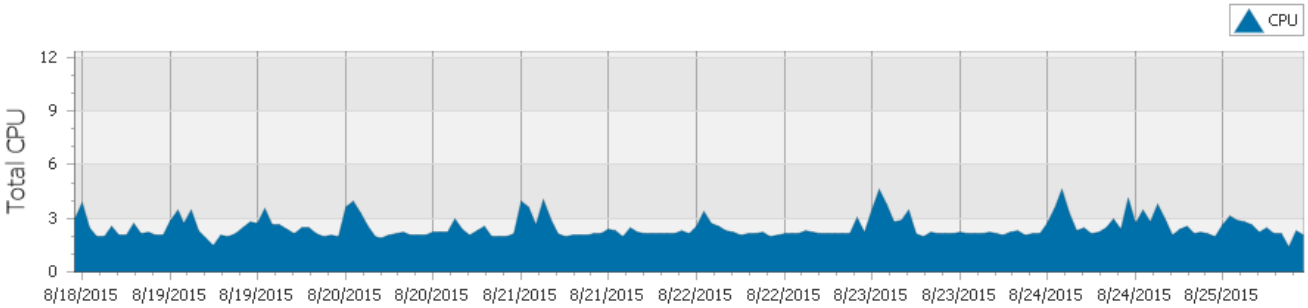

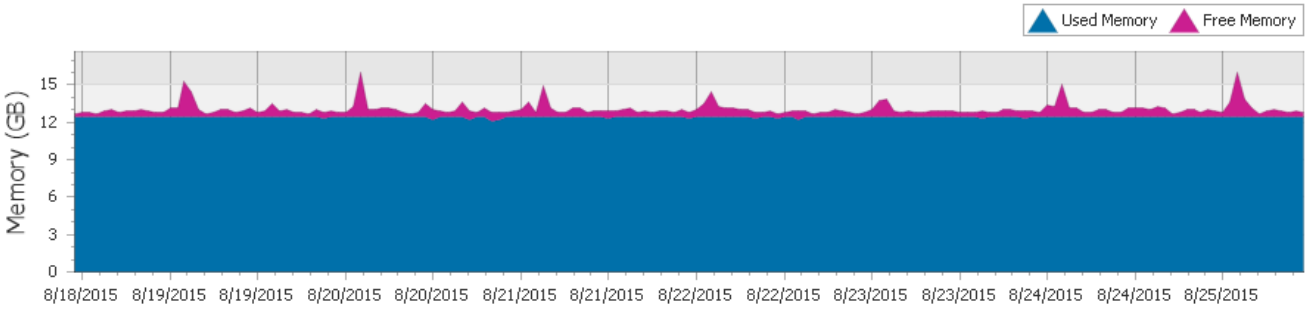

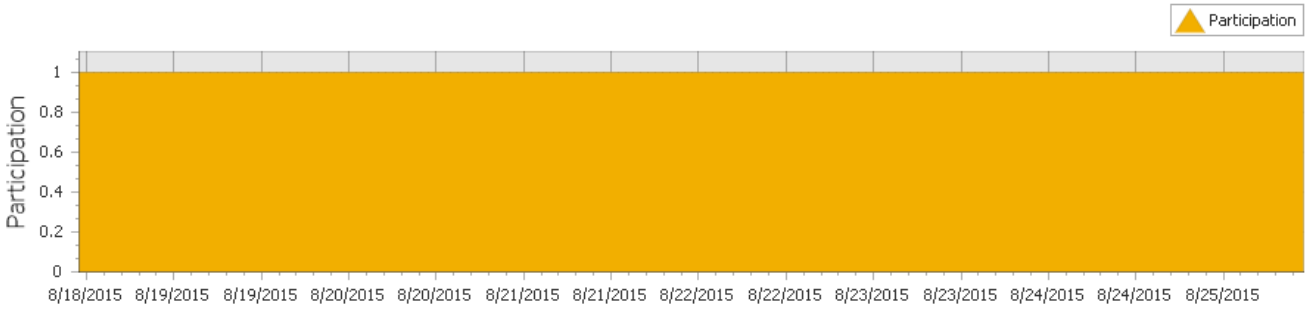

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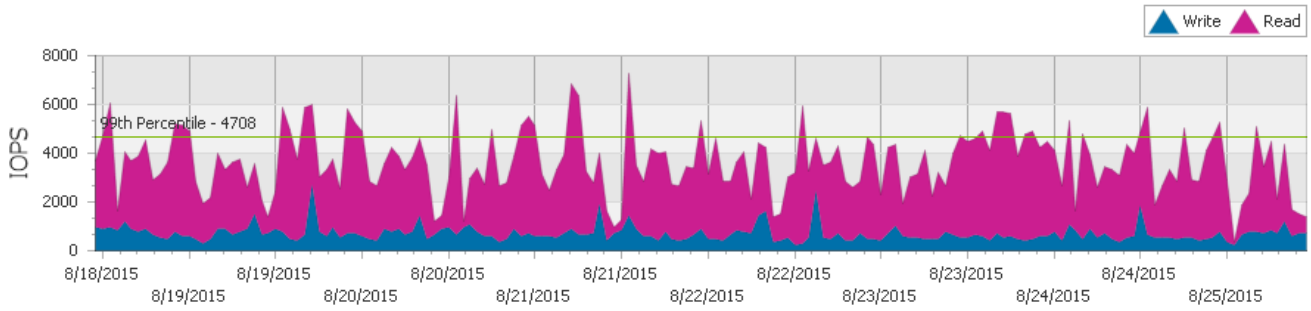
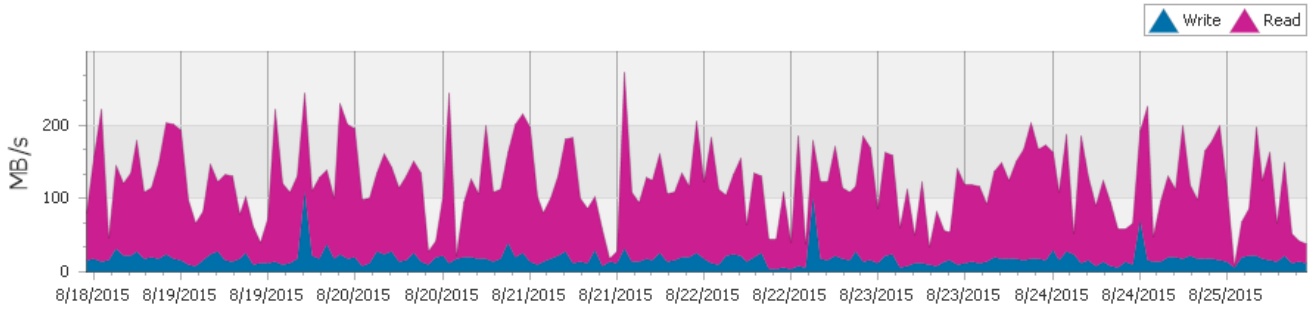
Individual Server Report: dwh.intern.mercateo.com

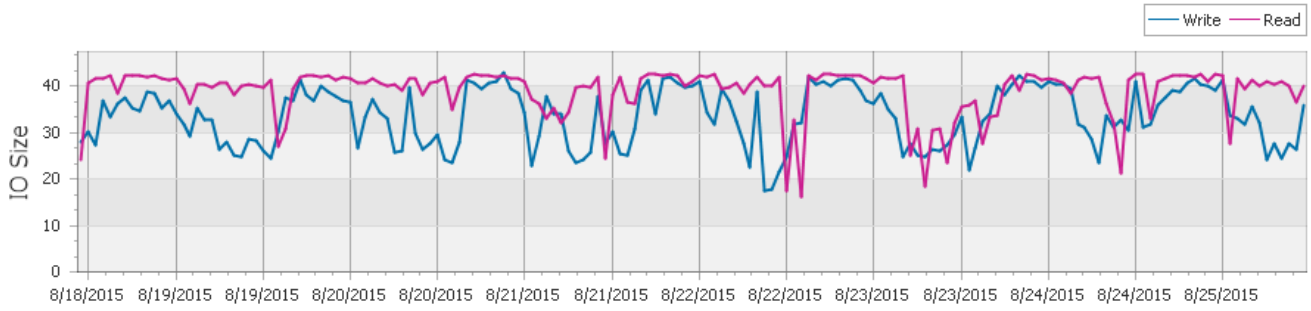
Operating System	CentOS release 6.5 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

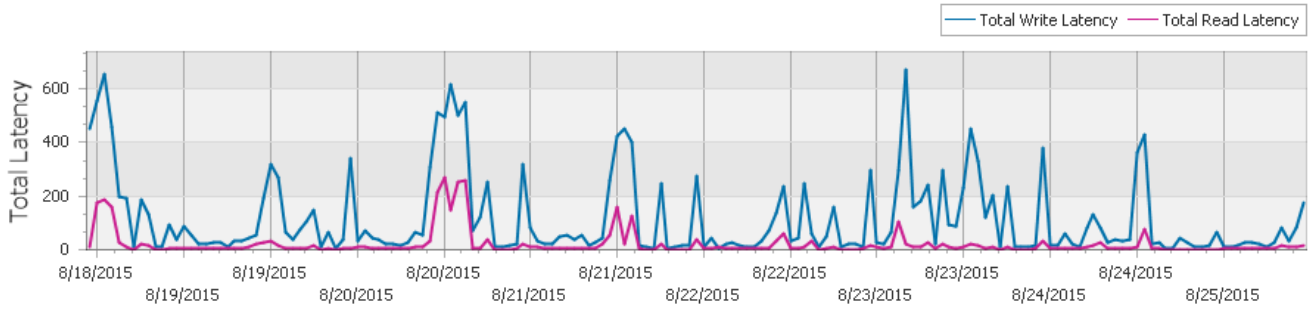
Output Summary		Output Summary	
Throughput	241.60 MB/s	Average IO size	Read: 31.56 KB / Write: 28.35 KB
IOPS	4708 at 99%	Latency	268 ms Reads and 672 ms Writes
Read/Write Ratio	88% / 12%	Average Queue Depth	10.27
Total Local Capacity	4.40 TB	Peak/Min CPU	82% / 0%
Free Local Capacity	1.32 TB (30%)	Peak/Min Memory	16.44 GB / 0.38 GB
Used Local Capacity	3.08 TB (70%)	Peak/Min Memory In Use	86.70 GB / 70.64 GB

Sockets	Cores	Description
8	8	Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz









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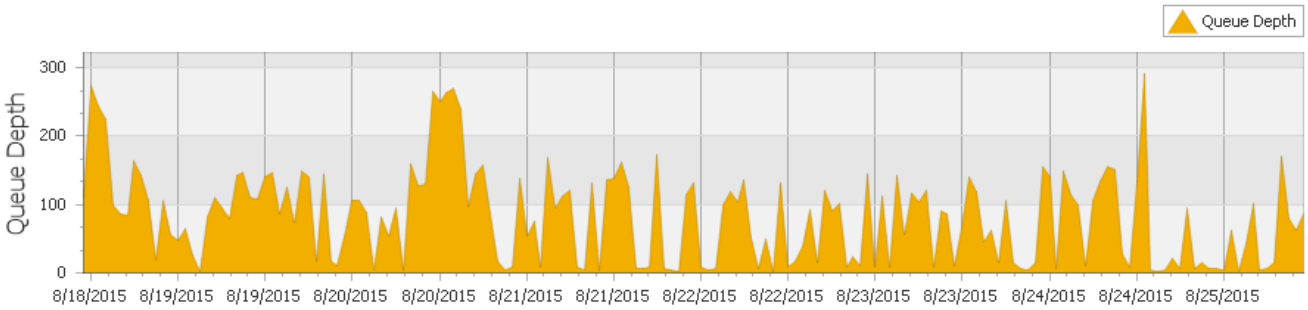

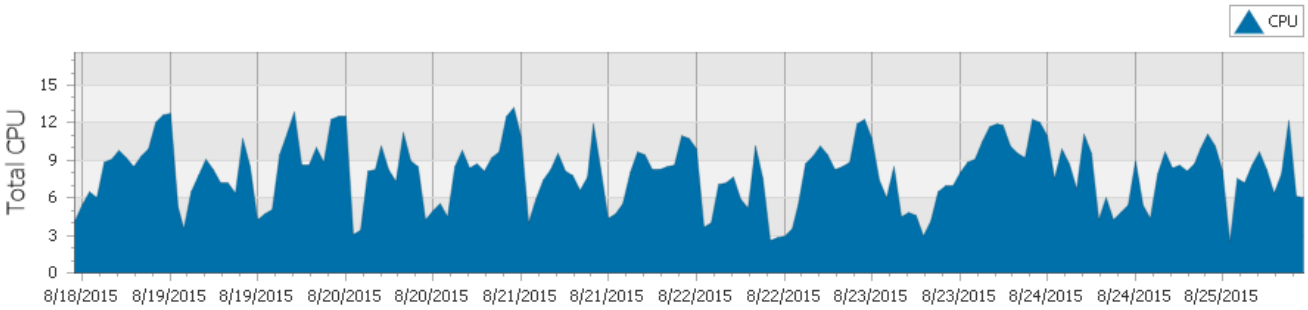

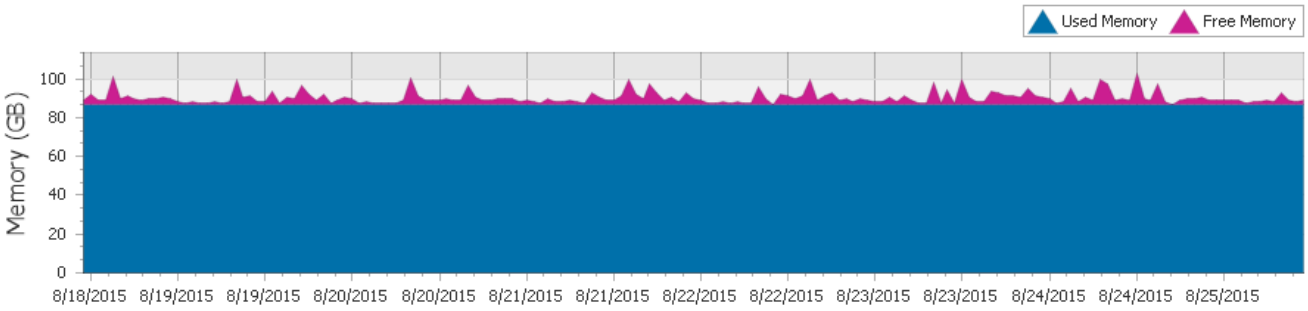

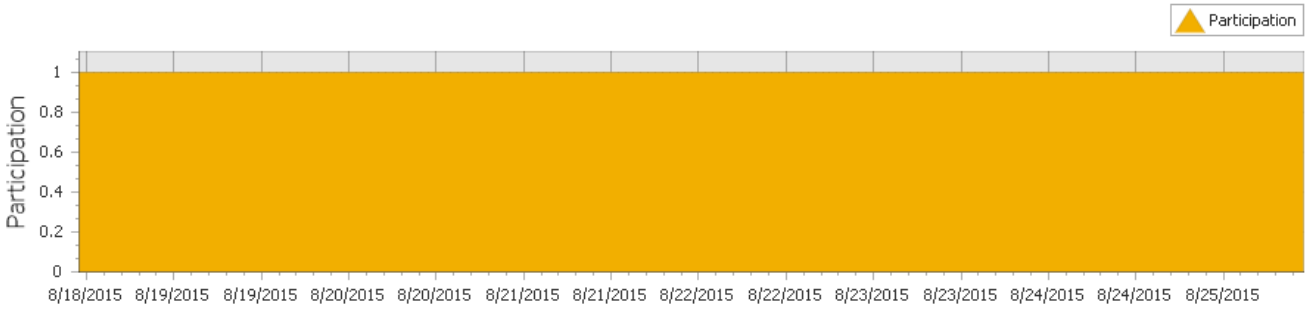

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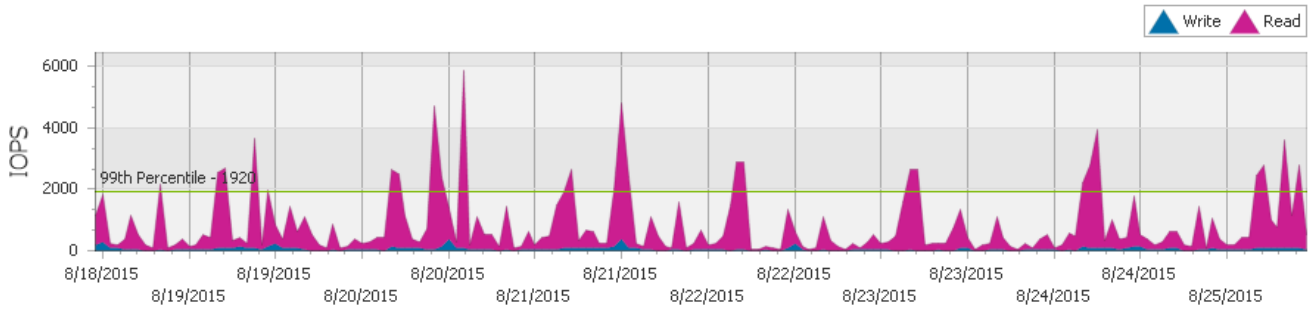
Individual Server Report: sapprd-node2

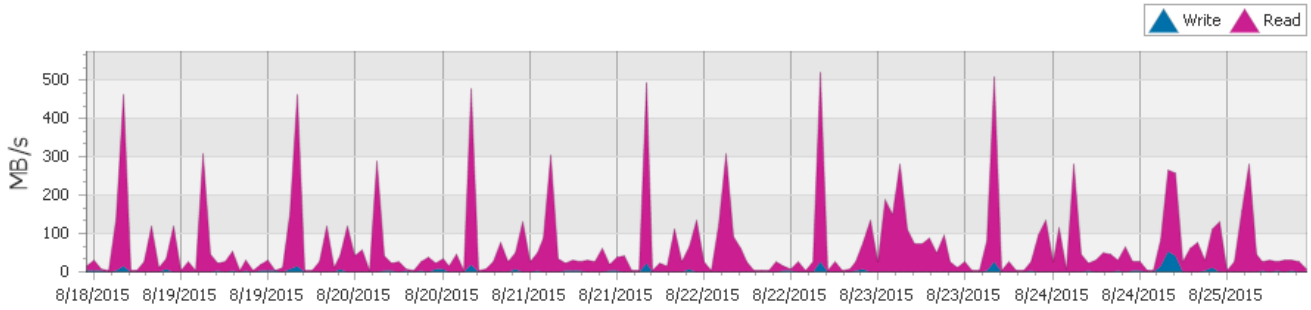
Operating System	SUSE Linux Enterprise Server 11 (x86_64)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

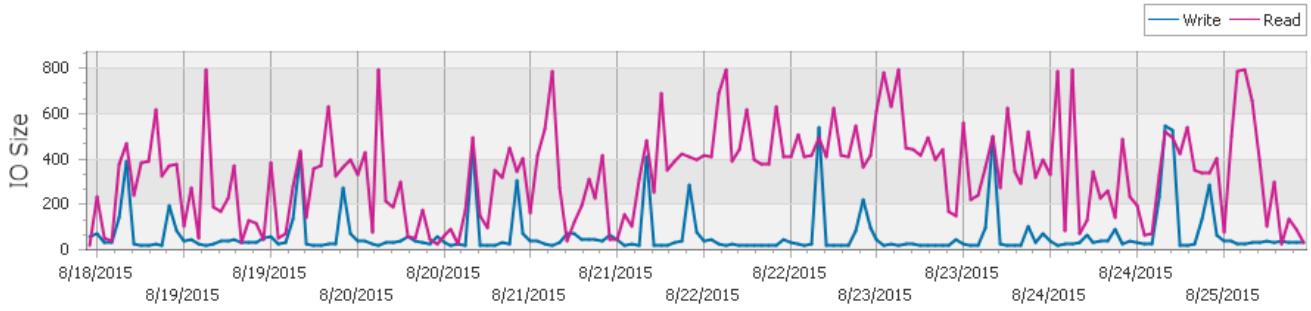
Output Summary

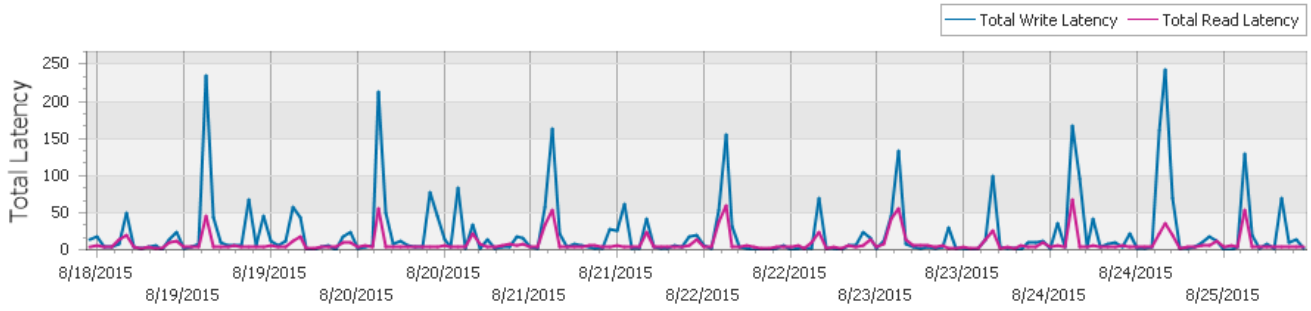
Throughput	498.00 MB/s	Average IO size	Read: 160.17 KB / Write: 84.89 KB
IOPS	1920 at 99%	Latency	69 ms Reads and 242 ms Writes
Read/Write Ratio	96% / 4%	Average Queue Depth	5.51
Total Local Capacity	3.73 TB	Peak/Min CPU	47% / 0%
Free Local Capacity	2.22 TB (60%)	Peak/Min Memory	20.71 GB / 0.21 GB
Used Local Capacity	1.51 TB (40%)	Peak/Min Memory In Use	49.21 GB / 28.70 GB

Sockets	Cores	Description
2	12	Intel(R) Xeon(R) CPU X5660 @ 2.80GHz









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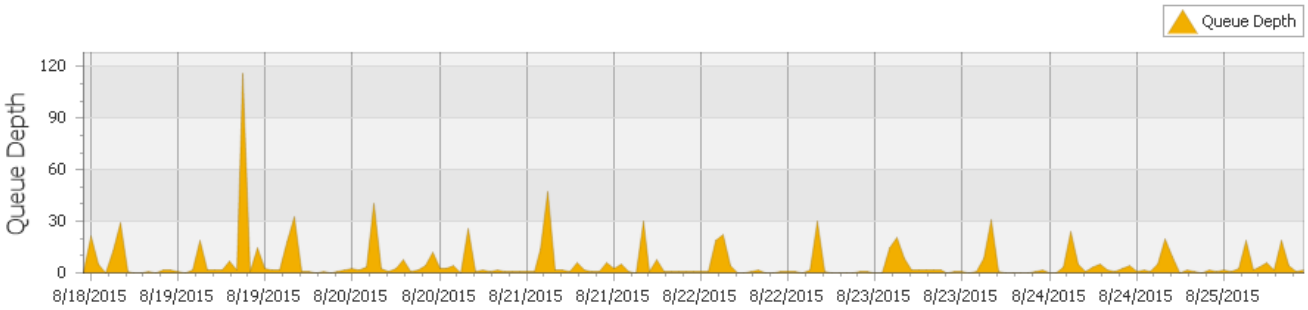

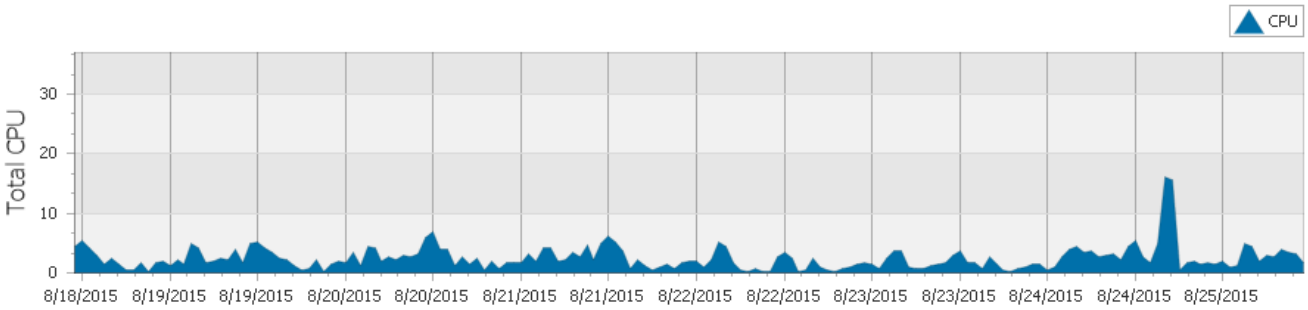

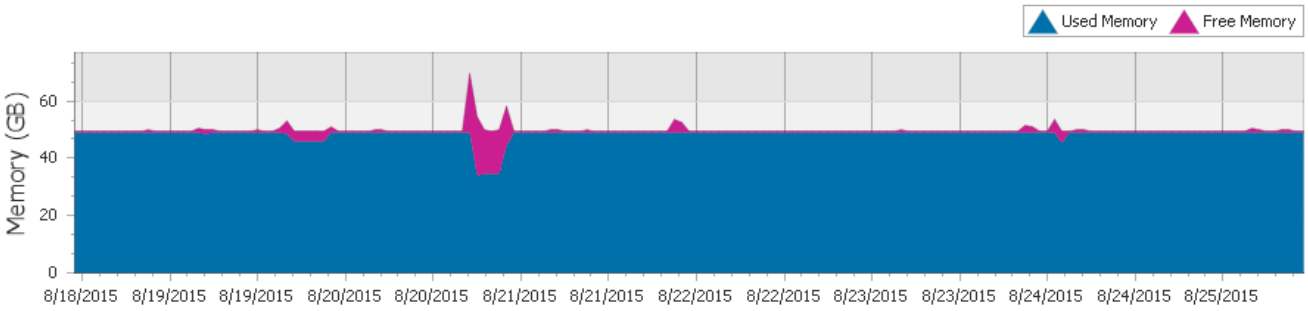

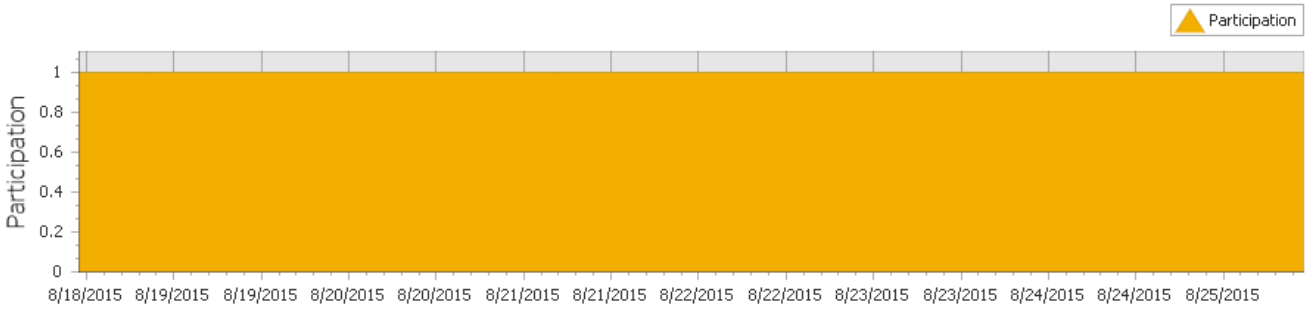

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Individual Server Report: pre-live-sap

Operating System	SUSE Linux Enterprise Server 11 (x86_64)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

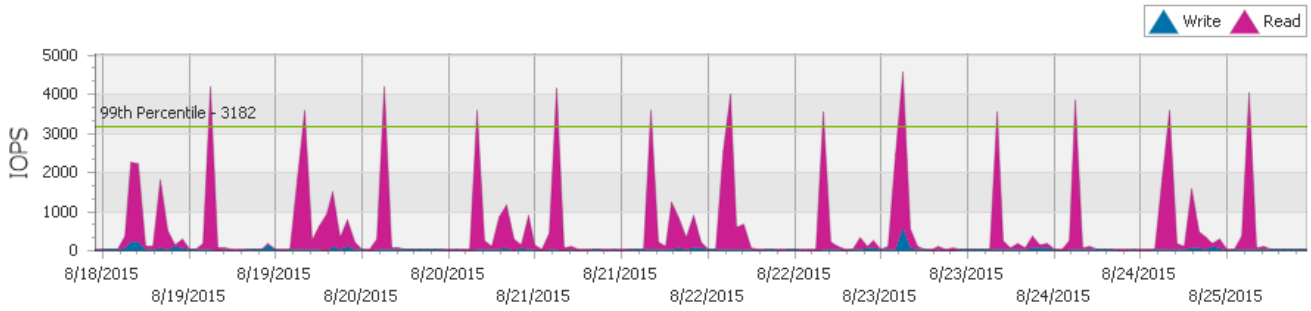
Output Summary

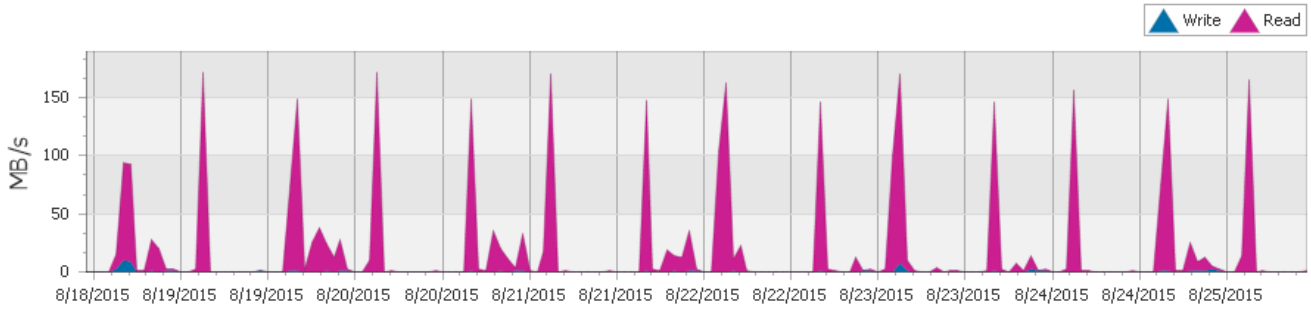
Throughput	172.10 MB/s
IOPS	3182 at 99%
Read/Write Ratio	97% / 3%
Total Local Capacity	549.00 GB
Free Local Capacity	246.00 GB (45%)
Used Local Capacity	303.00 GB (55%)

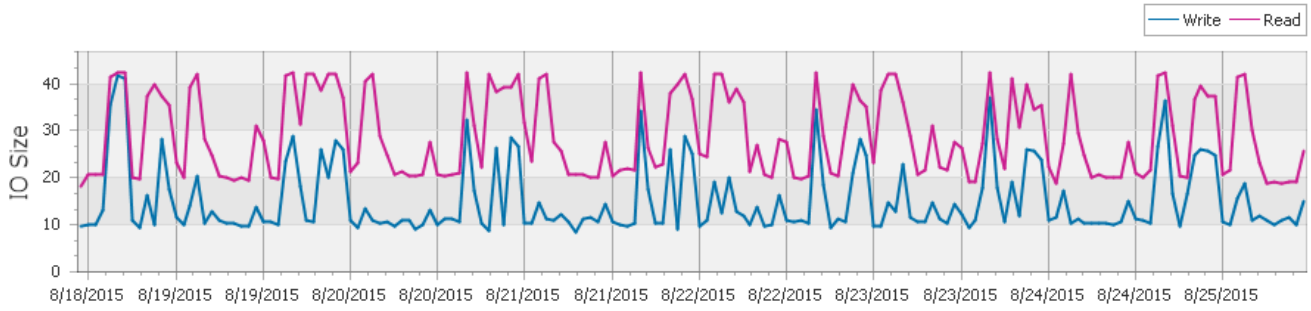
Output Summary

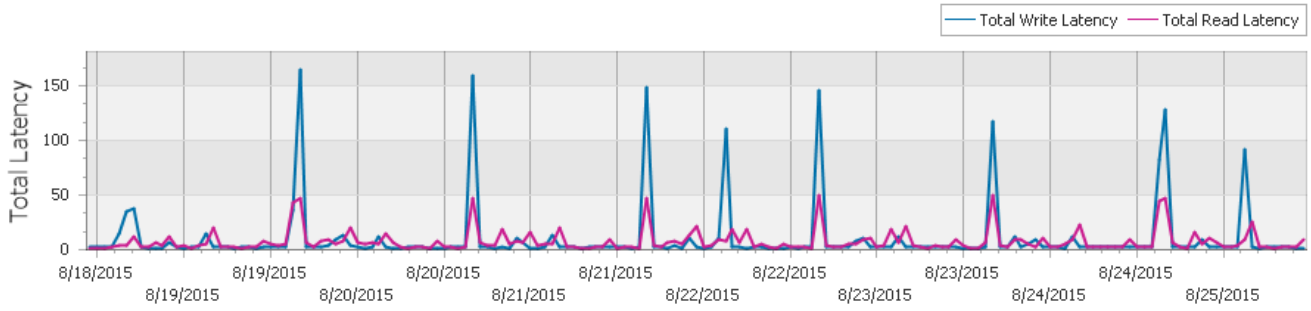
Average IO size	Read: 31.88 KB / Write: 14.14 KB
Latency	50 ms Reads and 165 ms Writes
Average Queue Depth	18.08
Peak/Min CPU	95% / 50%
Peak/Min Memory	0.80 GB / 0.10 GB
Peak/Min Memory In Use	20.89 GB / 20.19 GB

Sockets	Cores	Description
4	4	Intel(R) Xeon(R) CPU E5345 @ 2.33GHz









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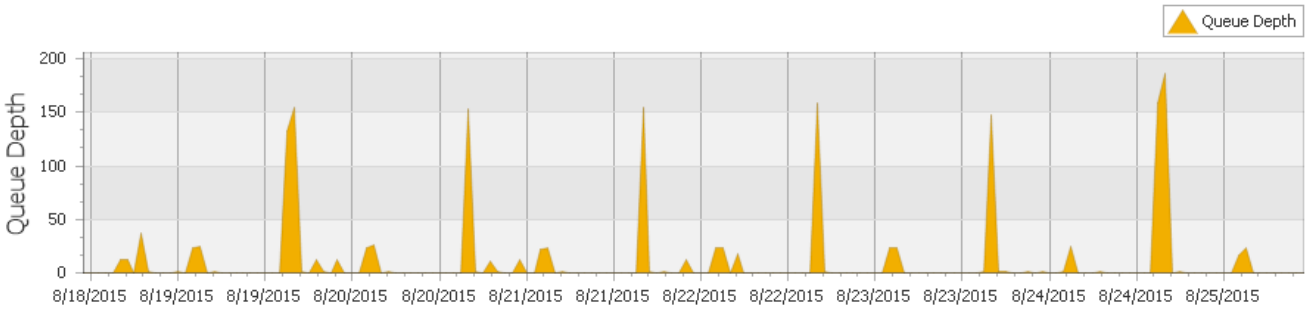

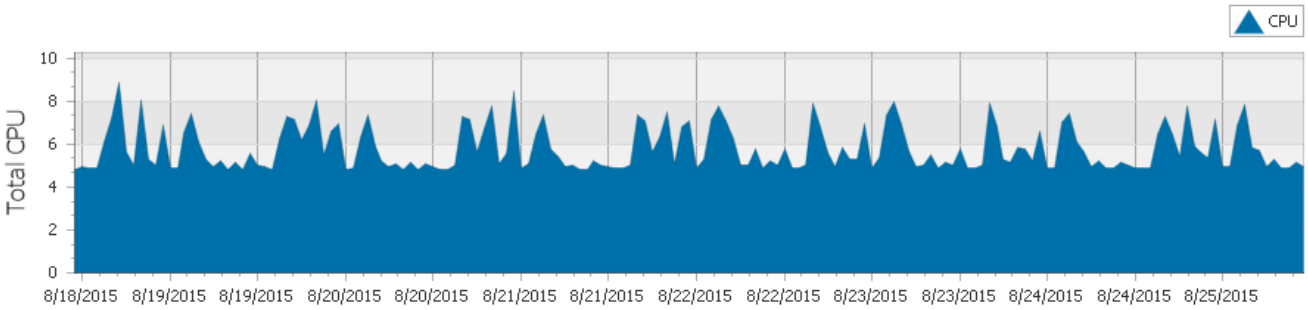

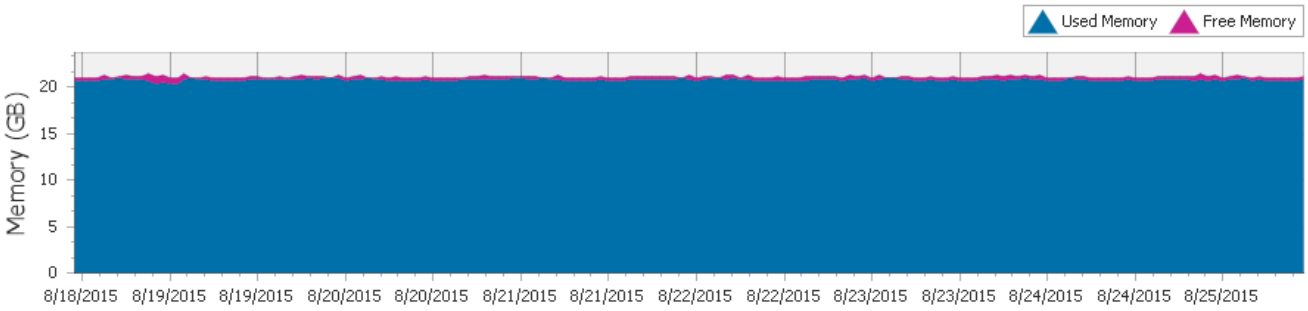

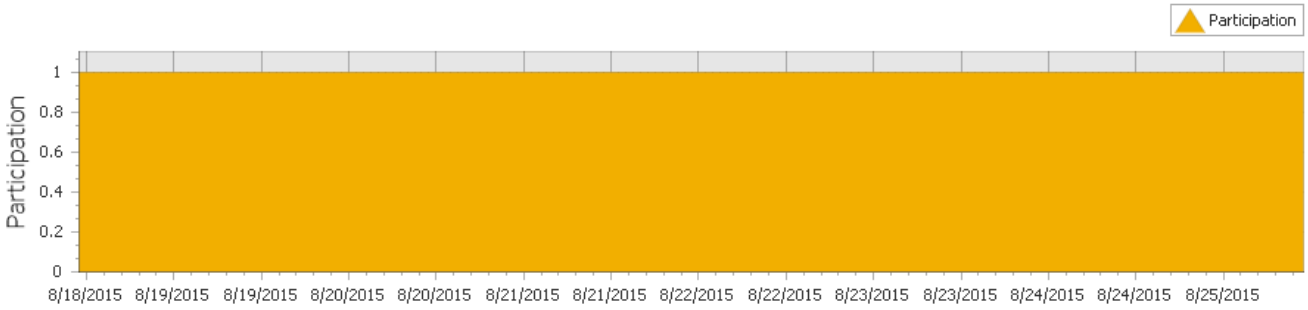

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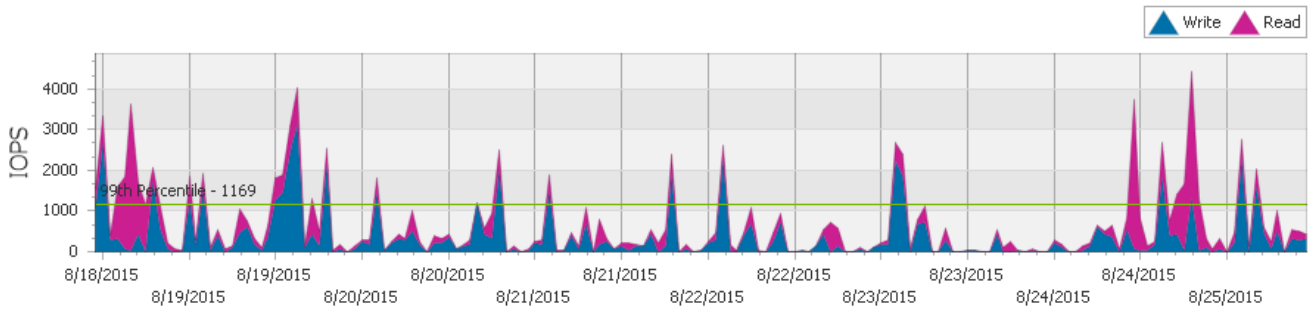
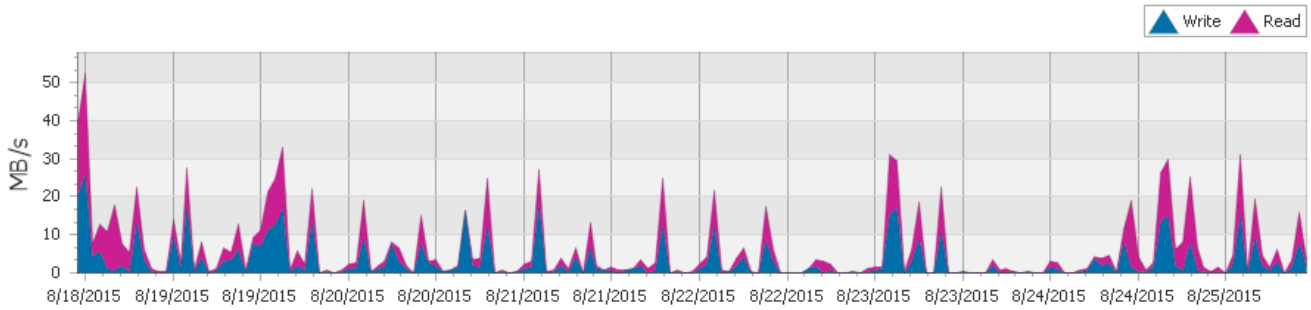
Individual Server Report: picture2

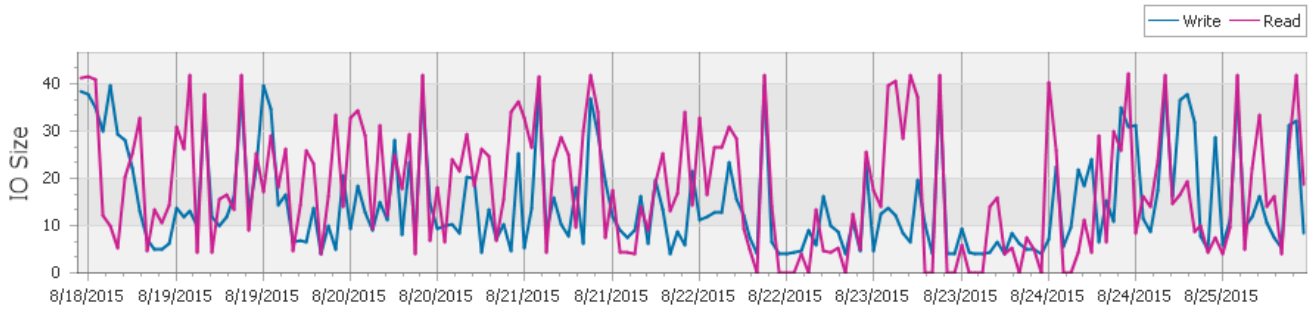
Operating System	CentOS release 6.5 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

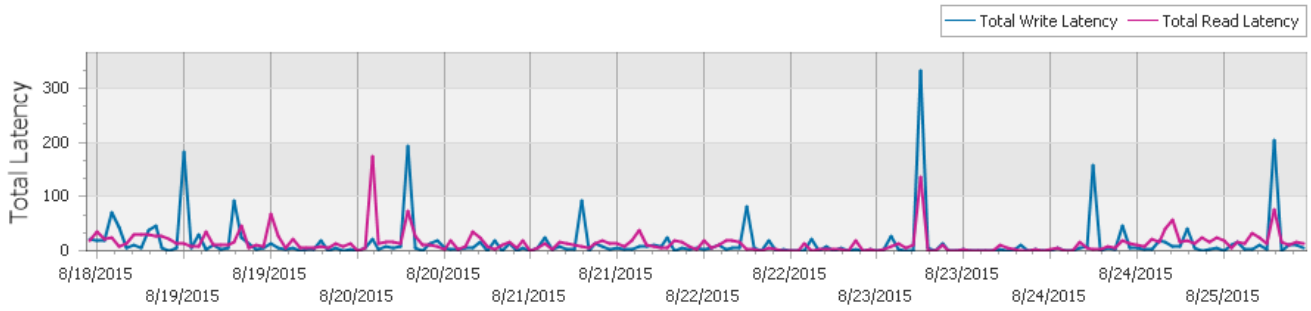
Output Summary		Output Summary	
Throughput	52.60 MB/s	Average IO size	Read: 10.56 KB / Write: 11.23 KB
IOPS	1169 at 99%	Latency	175 ms Reads and 332 ms Writes
Read/Write Ratio	59% / 41%	Average Queue Depth	4.71
Total Local Capacity	4.64 TB	Peak/Min CPU	13% / 0%
Free Local Capacity	2.12 TB (46%)	Peak/Min Memory	4.55 GB / 0.09 GB
Used Local Capacity	2.51 TB (54%)	Peak/Min Memory In Use	19.81 GB / 15.35 GB

Sockets	Cores	Description
8	8	Intel(R) Xeon(R) CPU X5550 @ 2.67GHz









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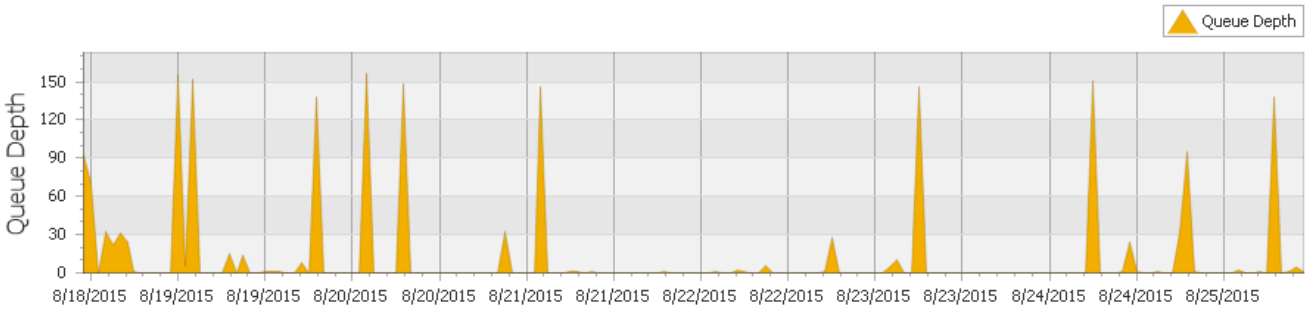

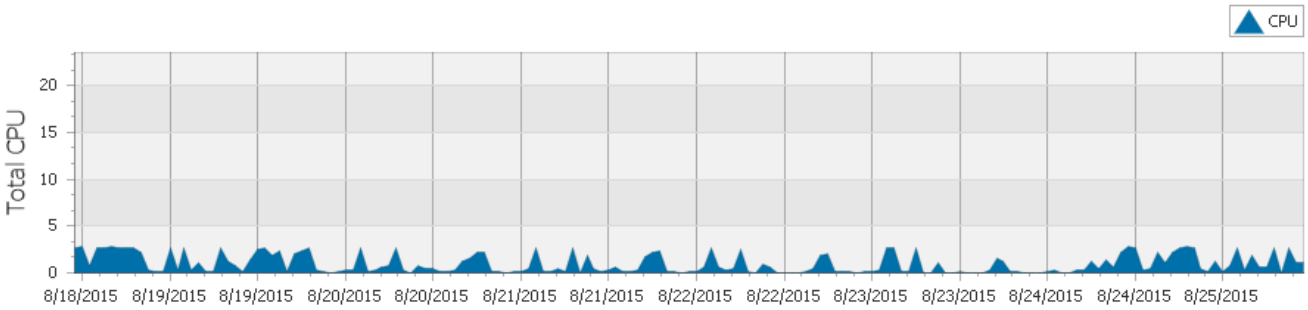

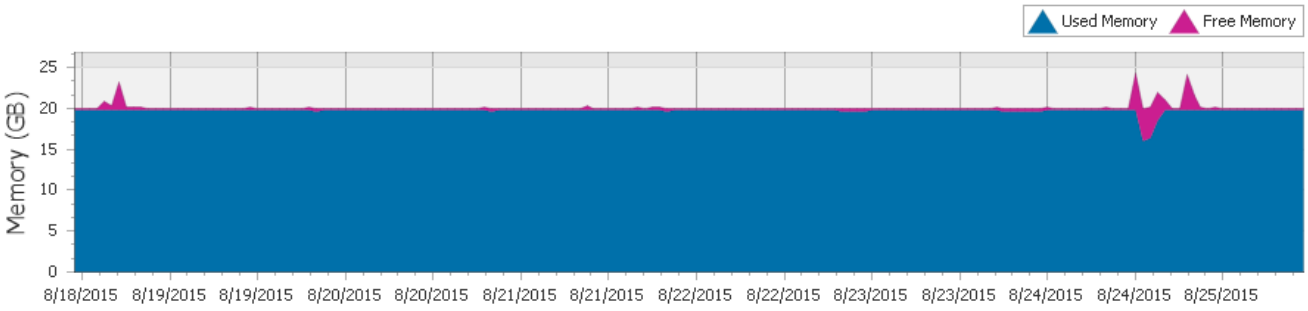

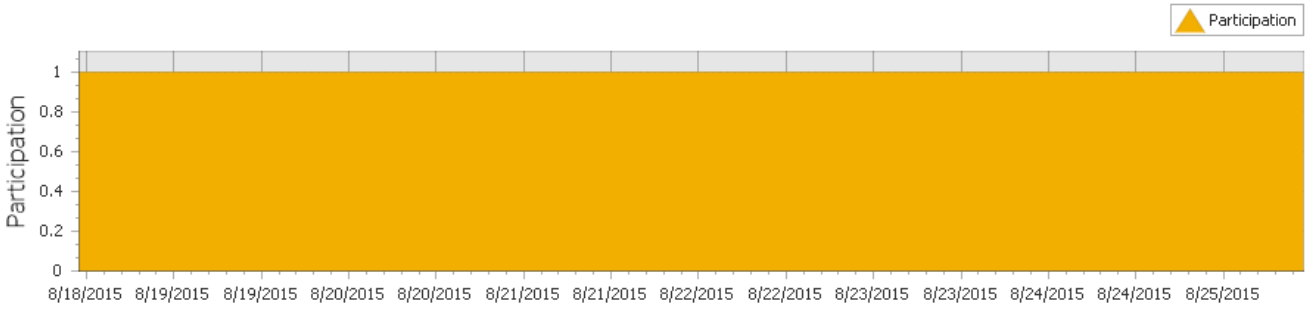

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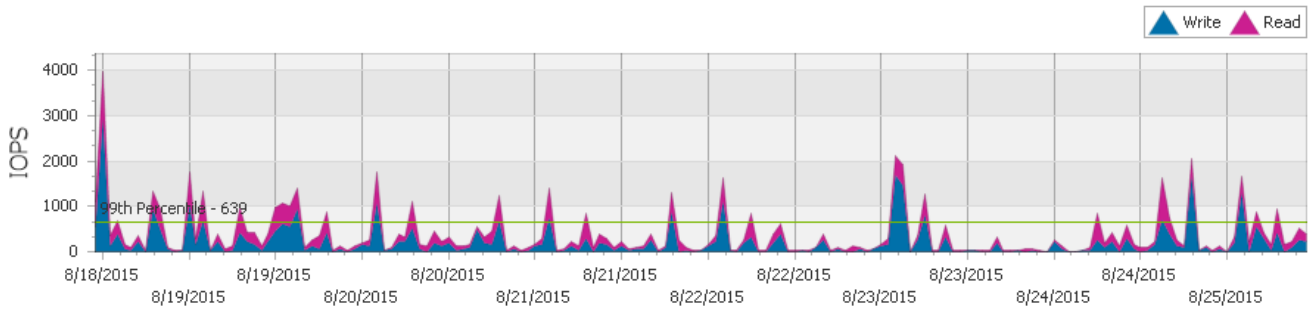
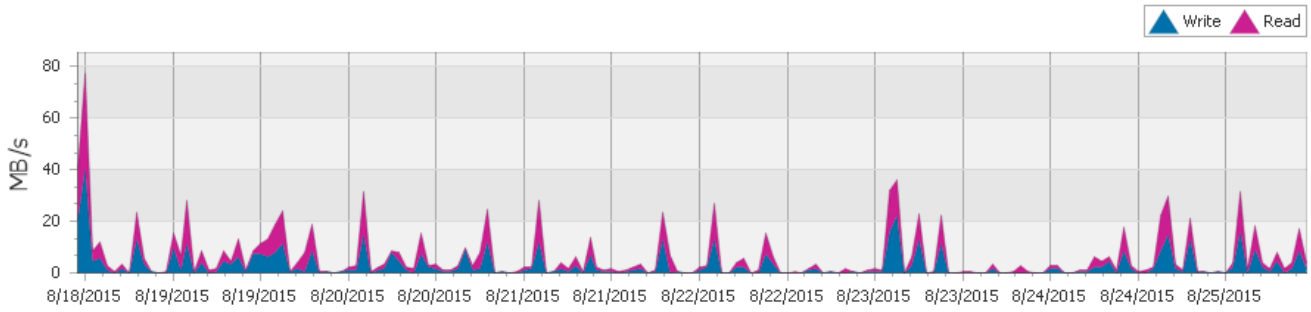
Individual Server Report: picture1

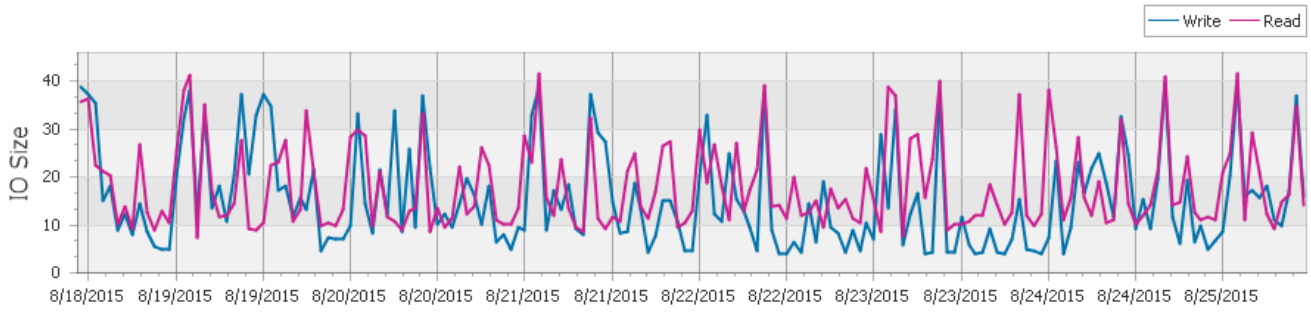
Operating System	CentOS release 6.5 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

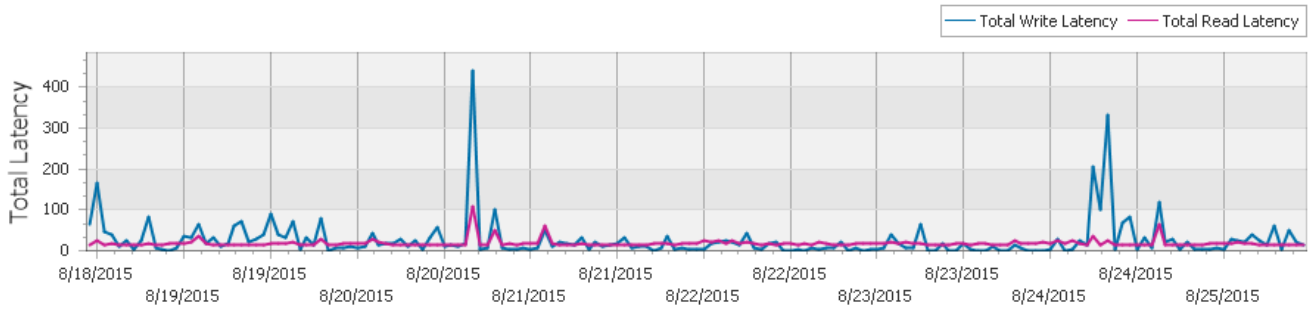
Output Summary		Output Summary	
Throughput	77.60 MB/s	Average IO size	Read: 11.54 KB / Write: 11.42 KB
IOPS	639 at 99%	Latency	107 ms Reads and 440 ms Writes
Read/Write Ratio	53% / 47%	Average Queue Depth	3.48
Total Local Capacity	4.64 TB	Peak/Min CPU	17% / 0%
Free Local Capacity	2.13 TB (46%)	Peak/Min Memory	0.87 GB / 0.09 GB
Used Local Capacity	2.50 TB (54%)	Peak/Min Memory In Use	19.81 GB / 19.04 GB

Sockets	Cores	Description
8	8	Intel(R) Xeon(R) CPU X5550 @ 2.67GHz









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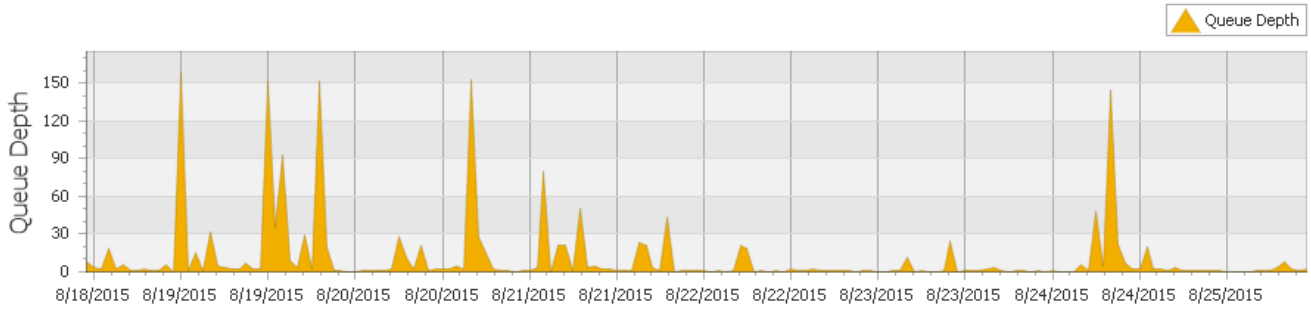

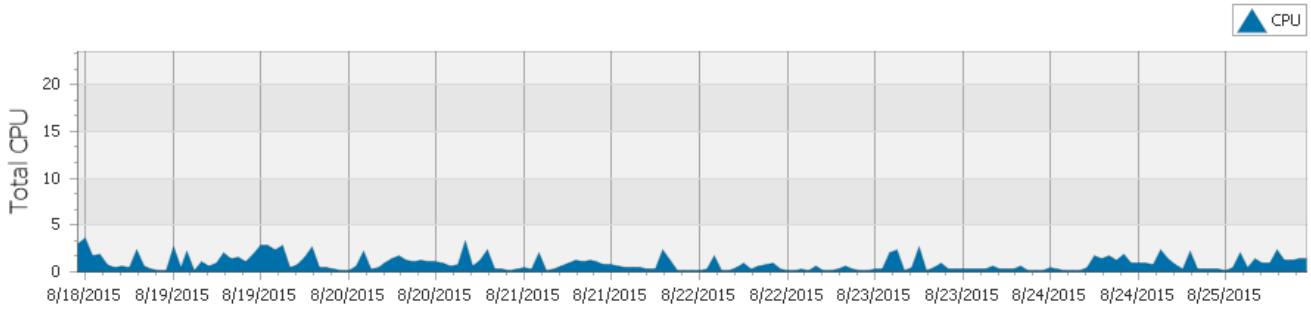

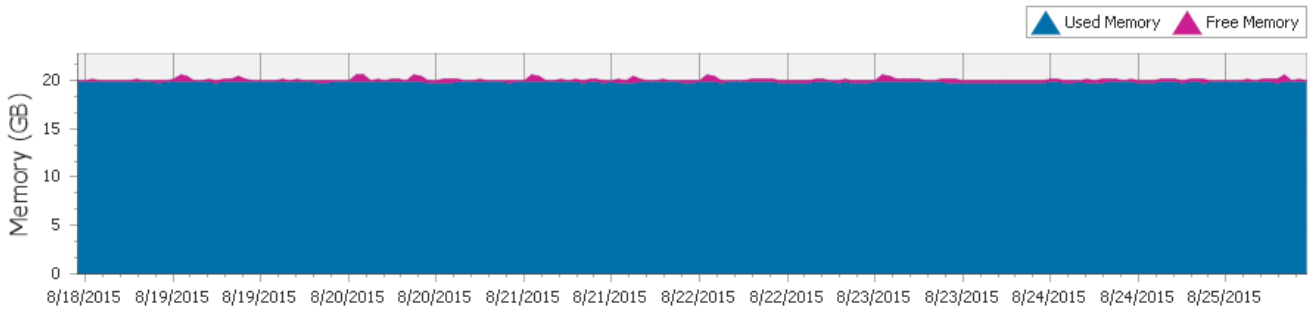

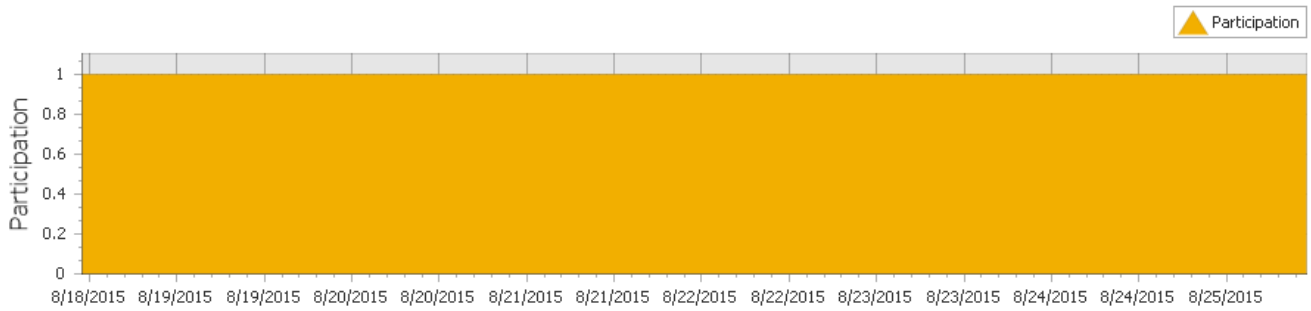

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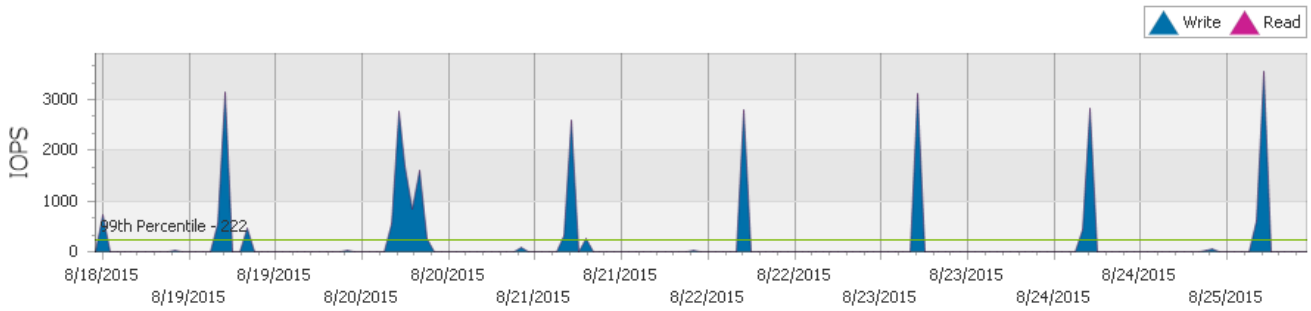
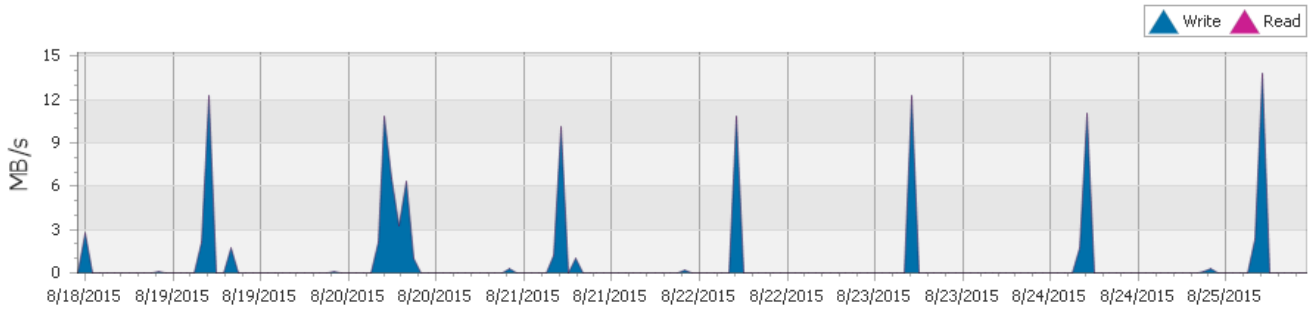
Individual Server Report: analytic-dwh

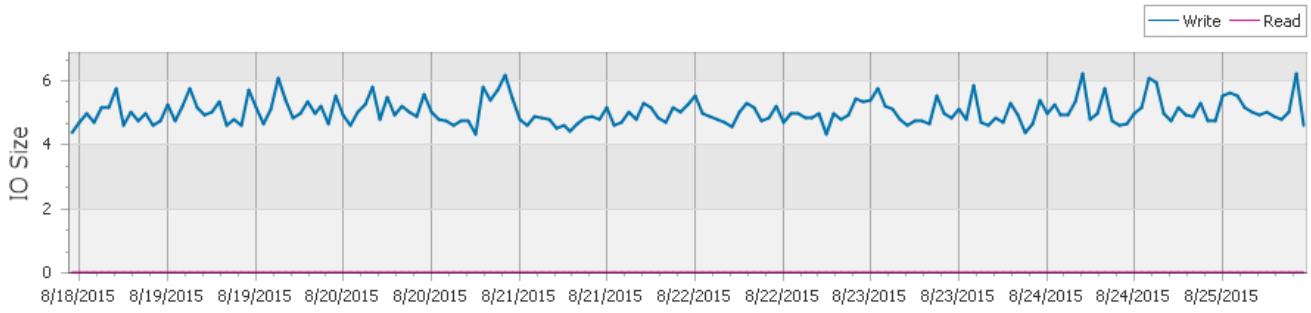
Operating System	CentOS release 6.5 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

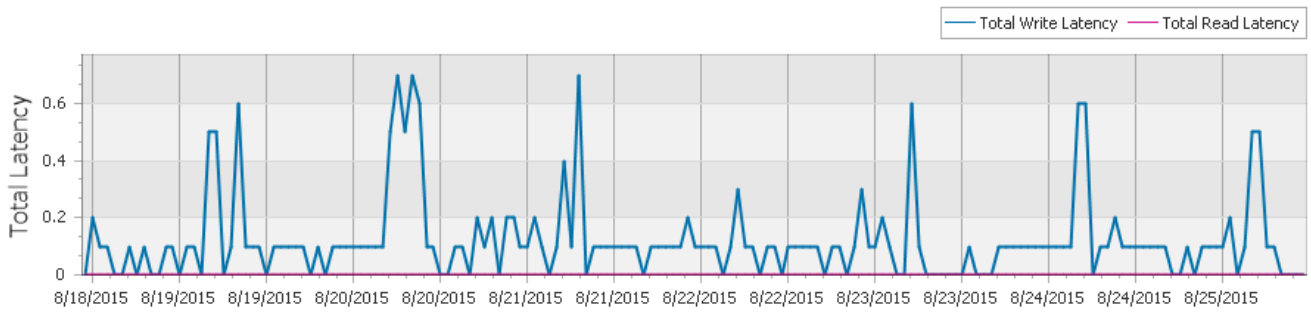
Output Summary		Output Summary	
Throughput	13.90 MB/s	Average IO size	Read: 0 KB / Write: 4.07 KB
IOPS	222 at 99%	Latency	0 ms Reads and 1 ms Writes
Read/Write Ratio	0% / 100%	Average Queue Depth	0.00
Total Local Capacity	931.00 GB	Peak/Min CPU	7% / 0%
Free Local Capacity	897.00 GB (96%)	Peak/Min Memory	71.16 GB / 67.84 GB
Used Local Capacity	34.00 GB (4%)	Peak/Min Memory In Use	64.28 GB / 60.96 GB

Sockets	Cores	Description
2	16	Intel(R) Xeon(R) CPU E5-2690 0 @ 2.90GHz









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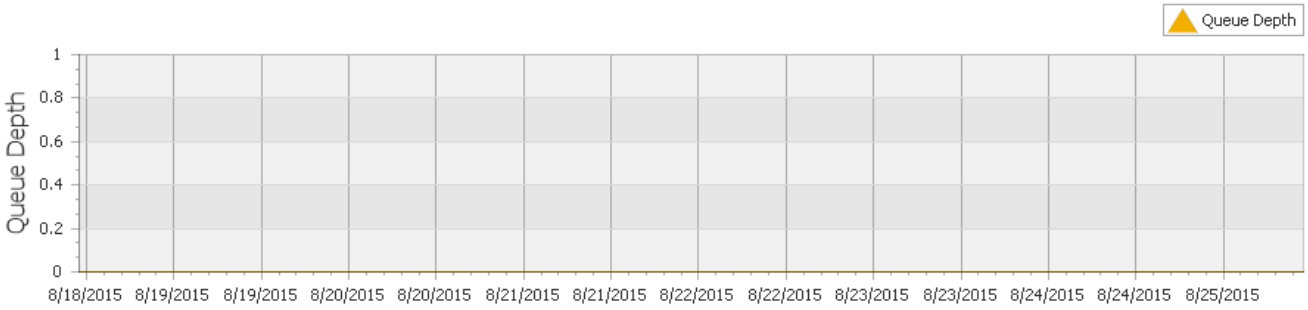

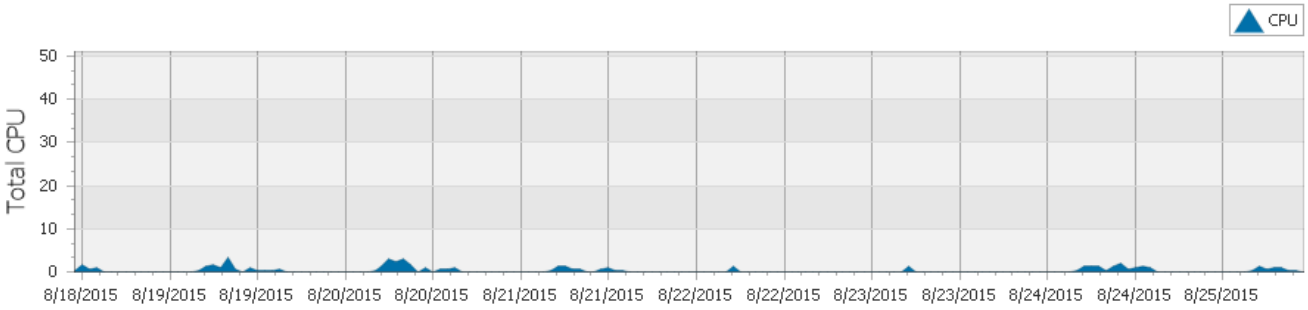

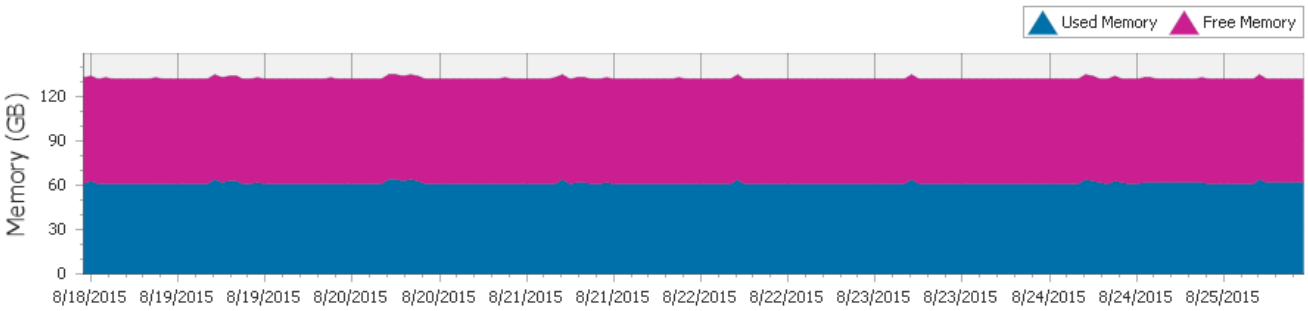

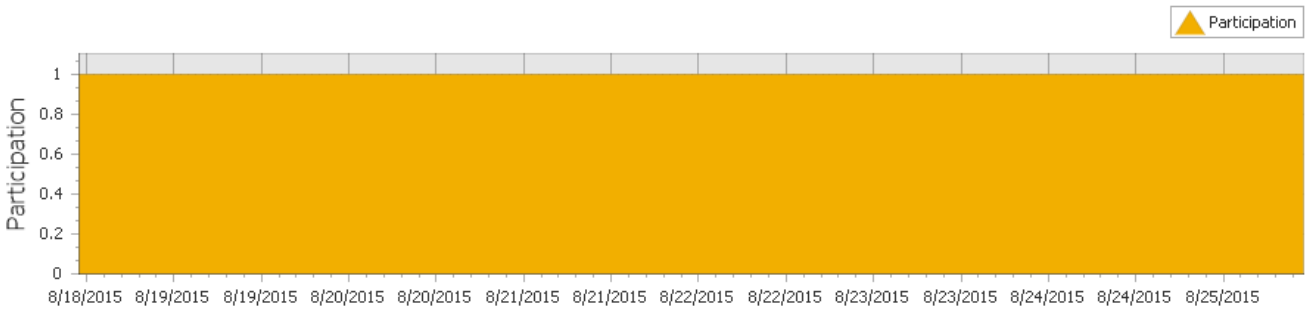

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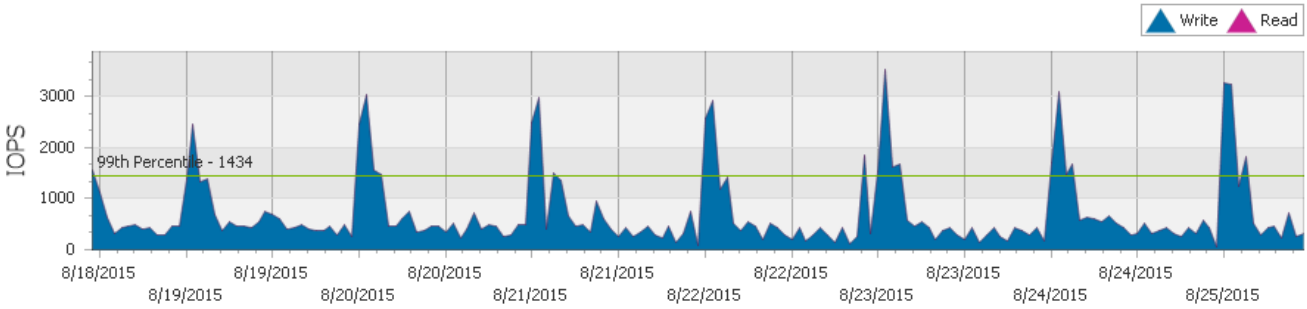
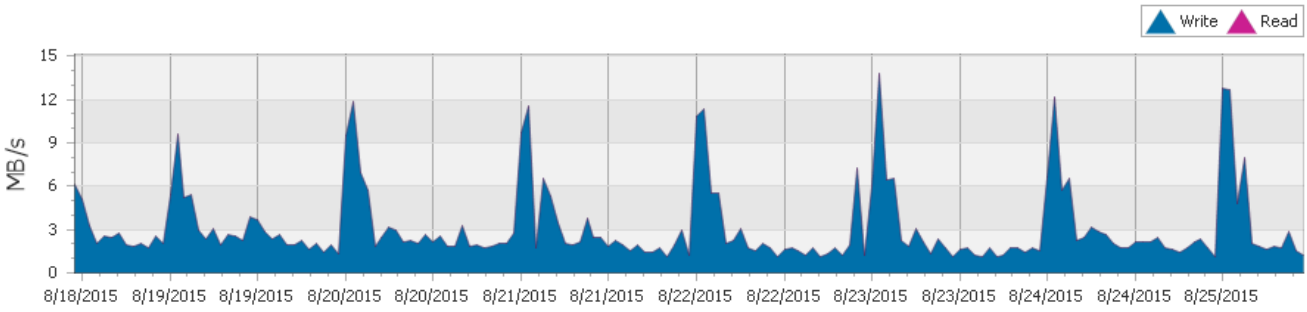
Individual Server Report: live-dmz-ftp2

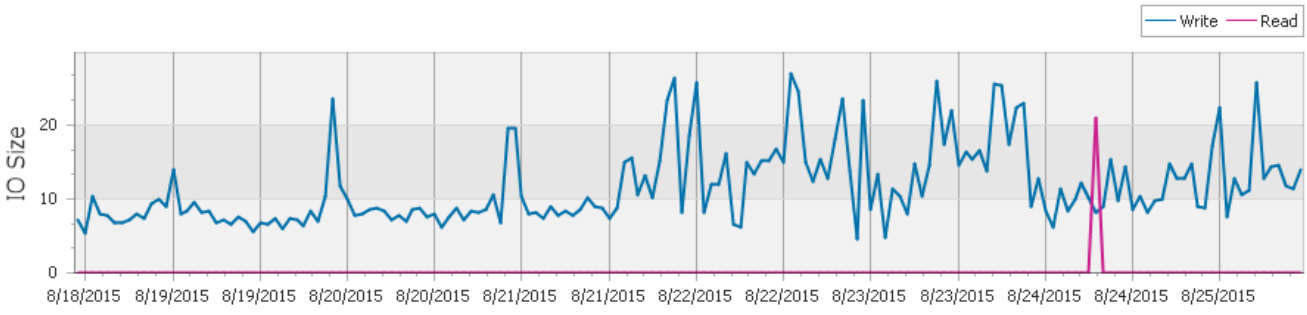
Operating System	CentOS release 6.5 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

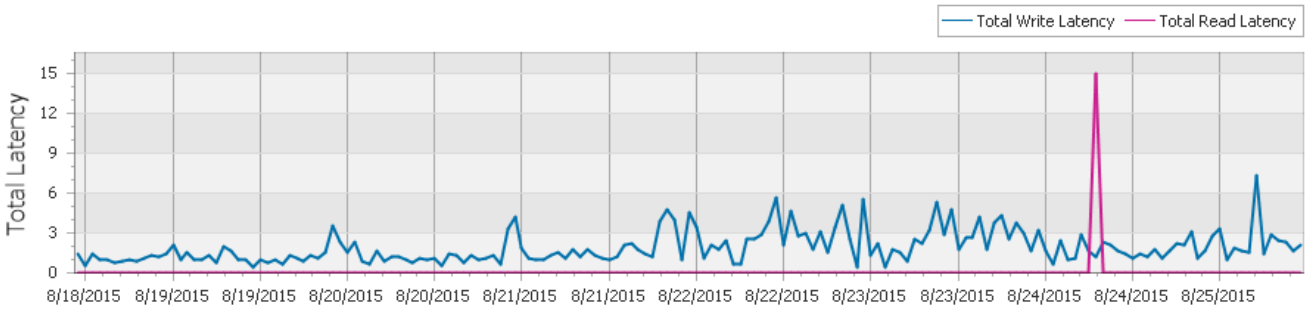
Output Summary		Output Summary	
Throughput	13.70 MB/s	Average IO size	Read: 0.04 KB / Write: 4.30 KB
IOPS	1434 at 99%	Latency	15 ms Reads and 7 ms Writes
Read/Write Ratio	0% / 100%	Average Queue Depth	0.12
Total Local Capacity	4.00 TB	Peak/Min CPU	13% / 1%
Free Local Capacity	4.00 TB (100%)	Peak/Min Memory	6.60 GB / 6.15 GB
Used Local Capacity	4.00 GB (0%)	Peak/Min Memory In Use	6.39 GB / 5.94 GB

Sockets	Cores	Description
4	4	Intel(R) Xeon(R) CPU X5660 @ 2.80GHz









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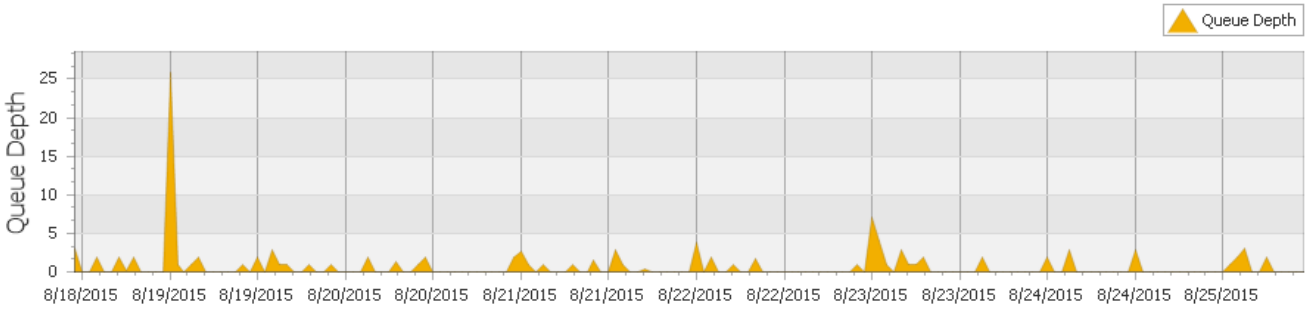

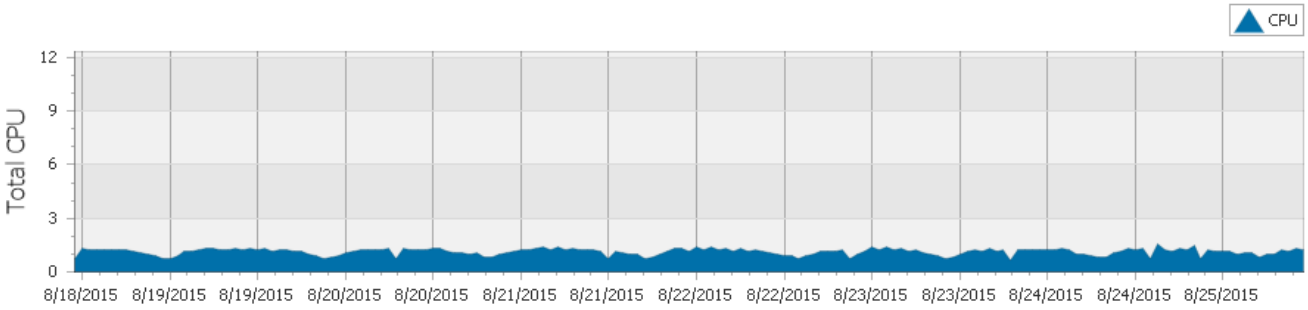

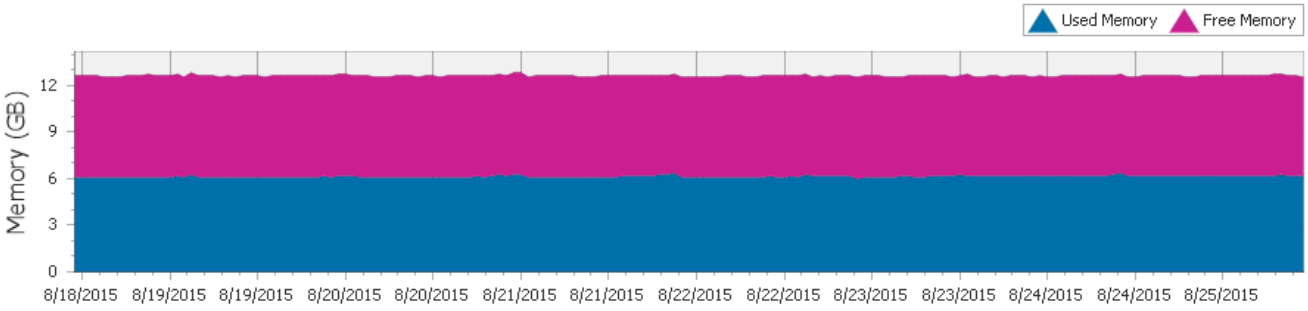

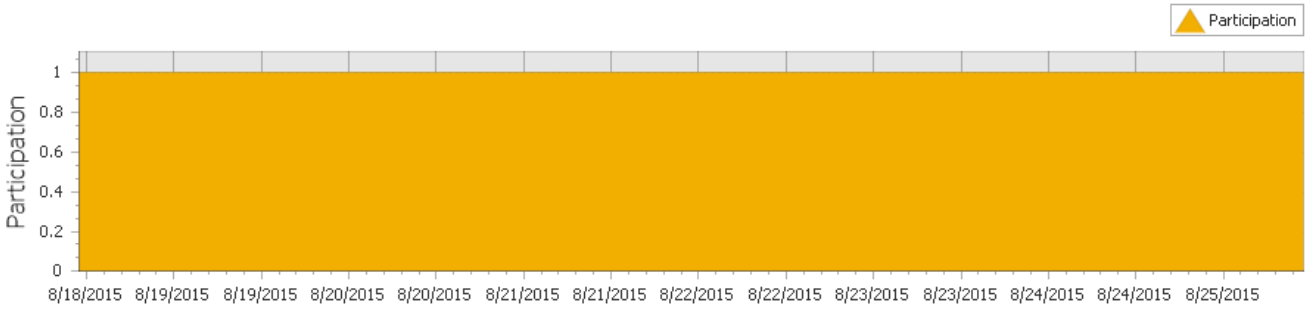

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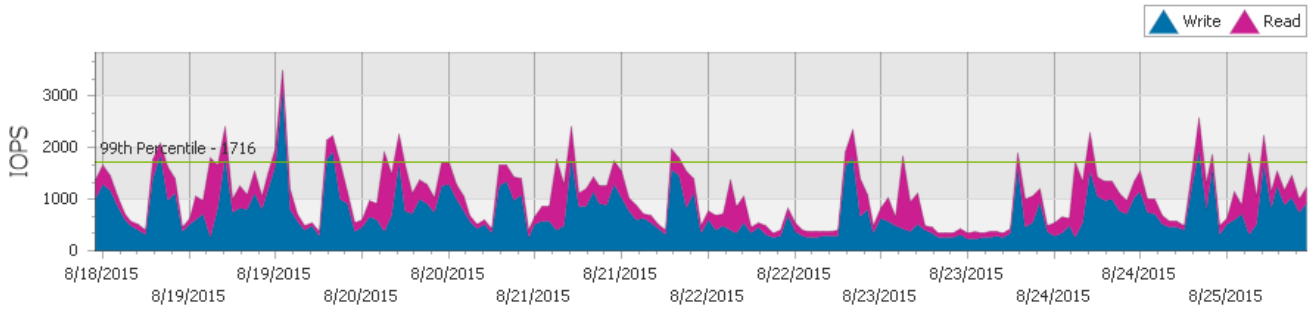
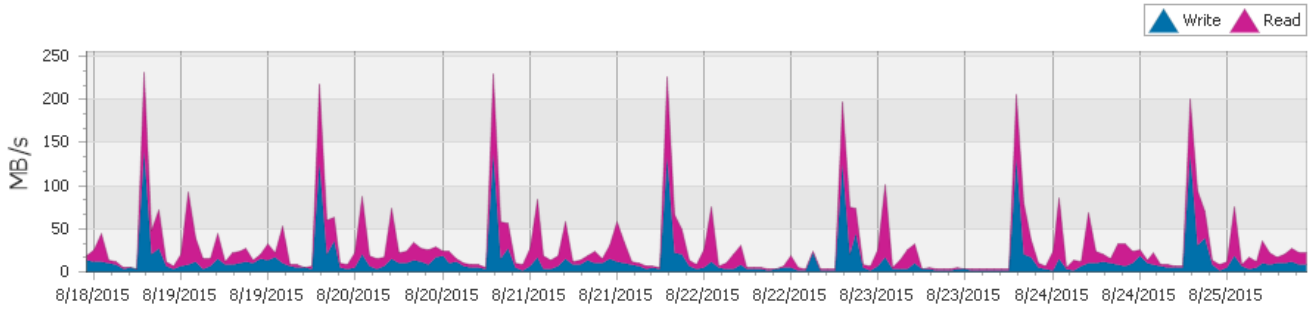
Individual Server Report: oranode2.intern.mercateo.com

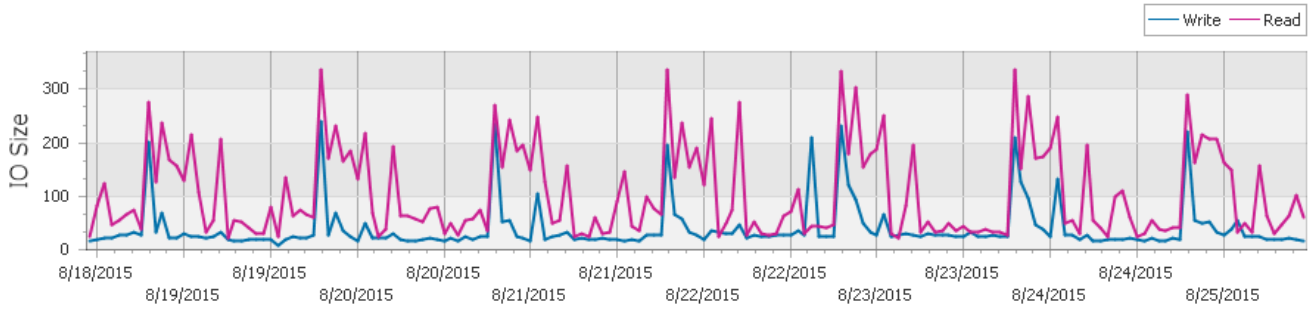
Operating System	Red Hat Enterprise Linux Server release 5.7 (Tikanga)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

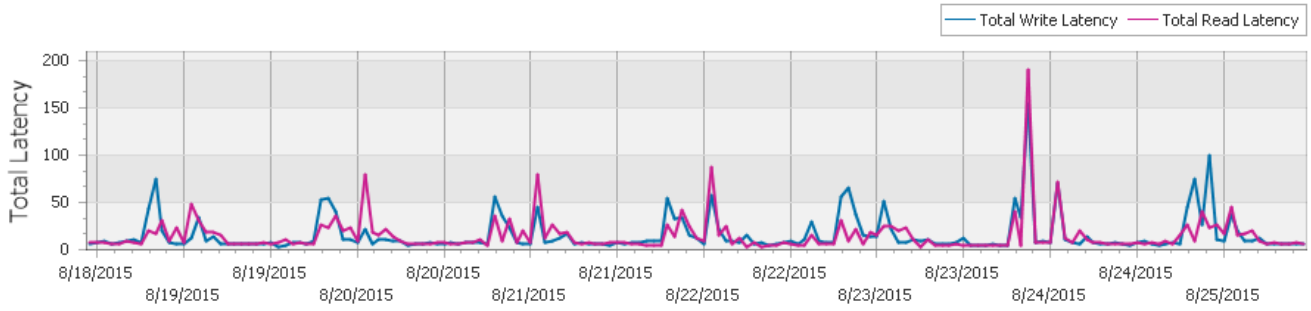
Output Summary		Output Summary	
Throughput	158.10 MB/s	Average IO size	Read: 31.33 KB / Write: 16.07 KB
IOPS	1716 at 99%	Latency	190 ms Reads and 154 ms Writes
Read/Write Ratio	21% / 79%	Average Queue Depth	1.51
Total Local Capacity	7.82 TB	Peak/Min CPU	22% / 0%
Free Local Capacity	7.76 TB (99%)	Peak/Min Memory	7.33 GB / 5.58 GB
Used Local Capacity	58.00 GB (1%)	Peak/Min Memory In Use	27.35 GB / 25.60 GB

Sockets	Cores	Description
2	8	Intel(R) Xeon(R) CPU X5570 @ 2.93GHz









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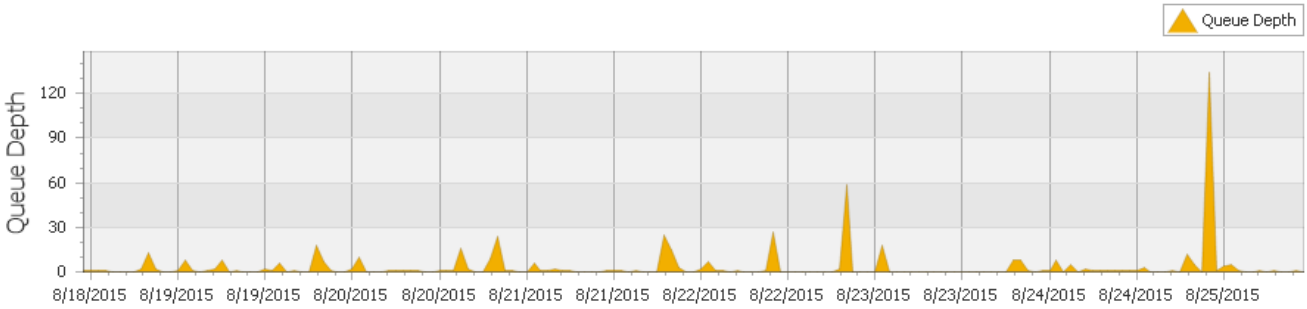

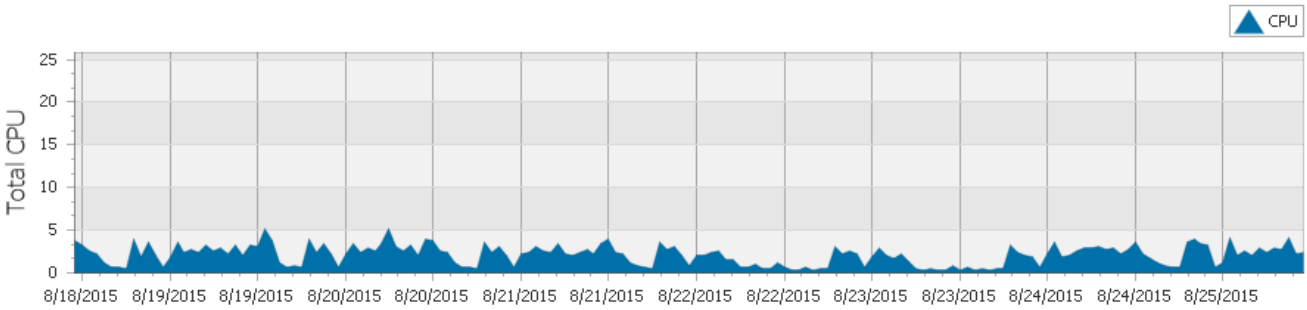

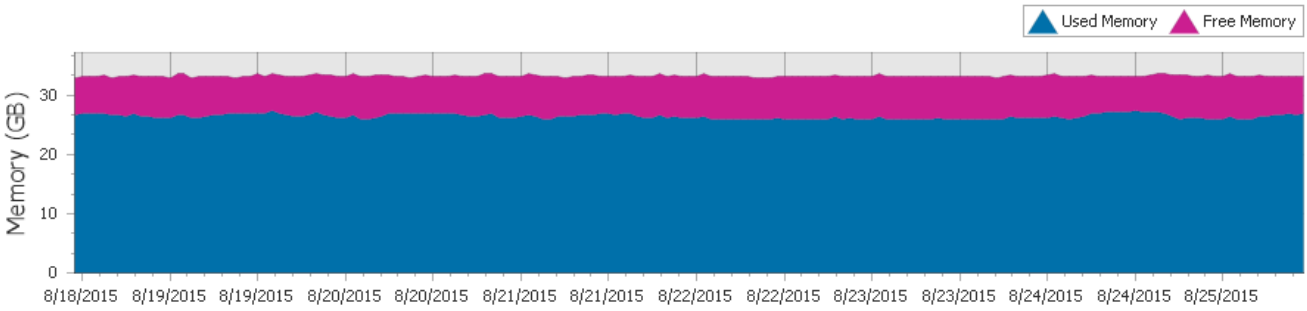

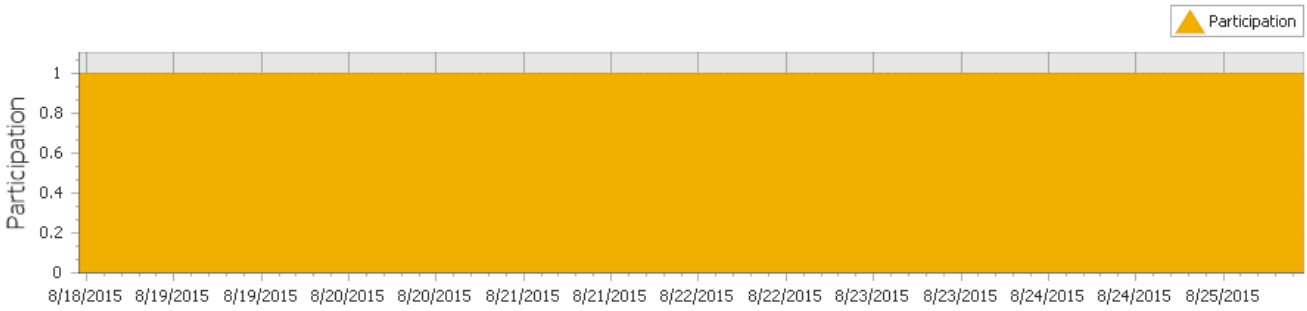

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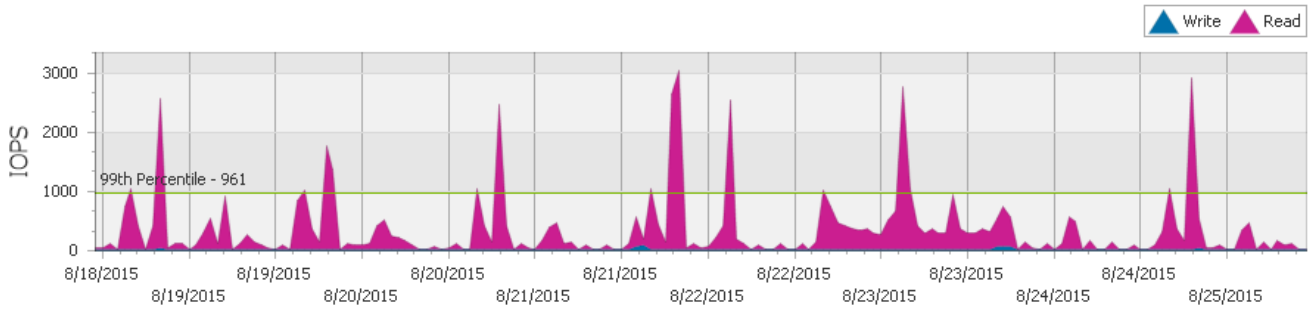
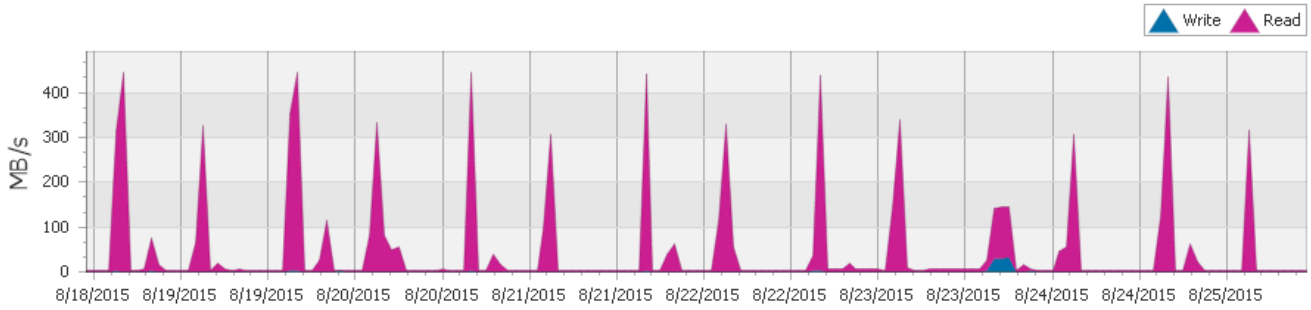
Individual Server Report: sapqas

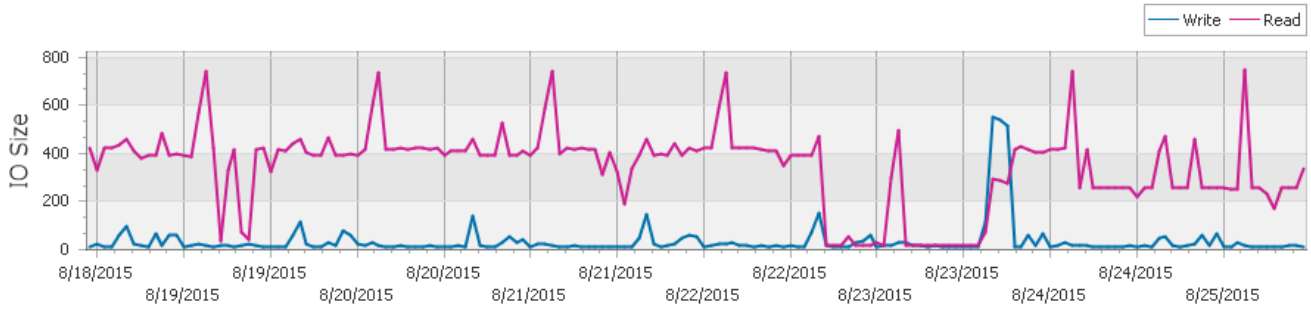
Operating System	SUSE Linux Enterprise Server 11 (x86_64)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

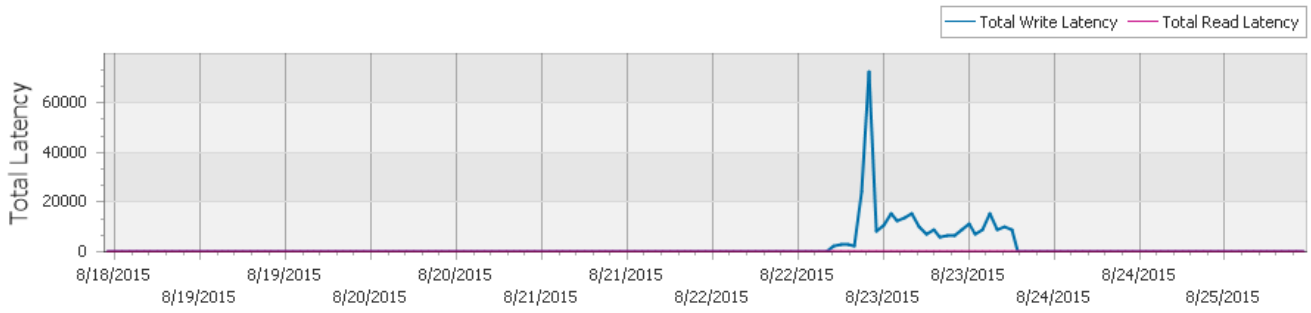
Output Summary		Output Summary	
Throughput	445.10 MB/s	Average IO size	Read: 347.80 KB / Write: 71.10 KB
IOPS	961 at 99%	Latency	52 ms Reads and 72521 ms Writes
Read/Write Ratio	97% / 3%	Average Queue Depth	23.36
Total Local Capacity	2.82 TB	Peak/Min CPU	37% / 0%
Free Local Capacity	1.11 TB (39%)	Peak/Min Memory	6.38 GB / 0.19 GB
Used Local Capacity	1.71 TB (61%)	Peak/Min Memory In Use	49.22 GB / 43.03 GB

Sockets	Cores	Description
2	12	Intel(R) Xeon(R) CPU X5660 @ 2.80GHz









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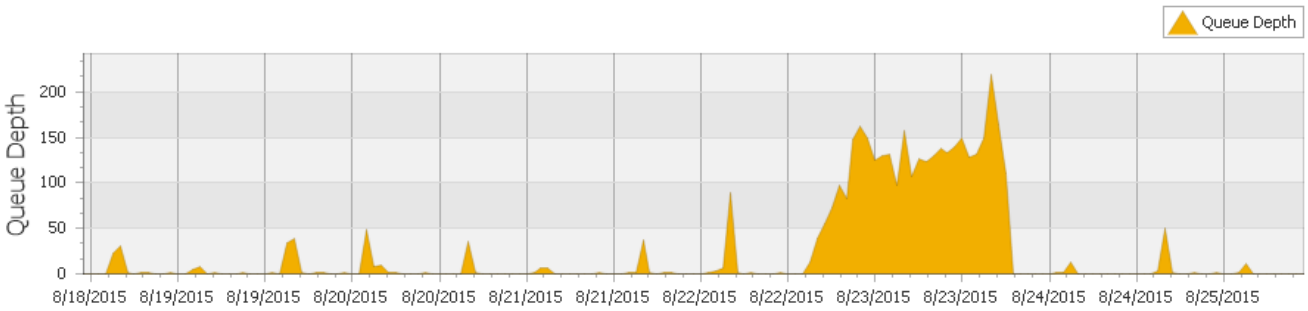

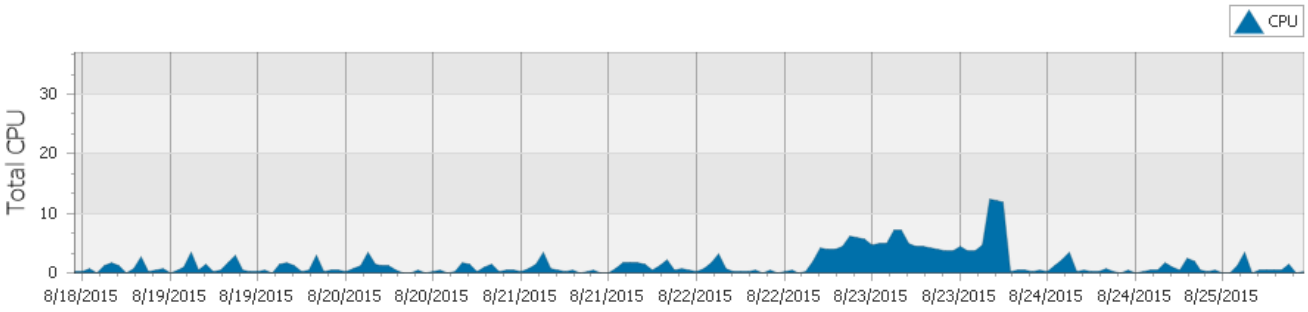

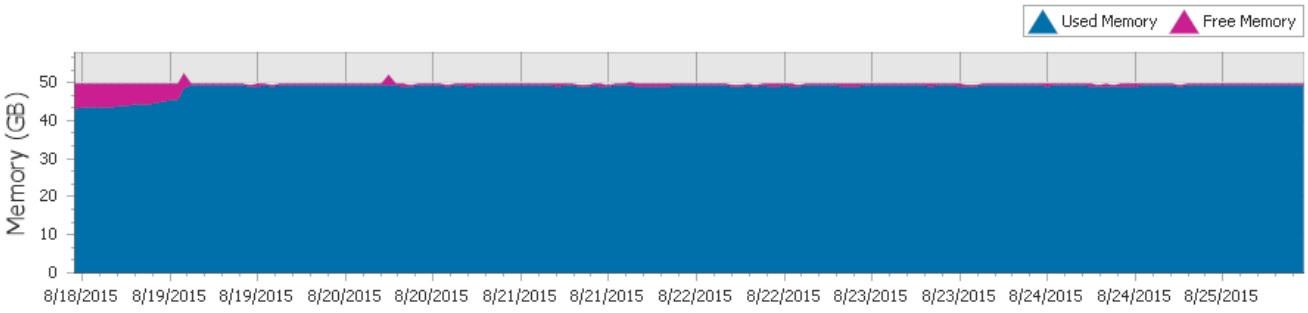

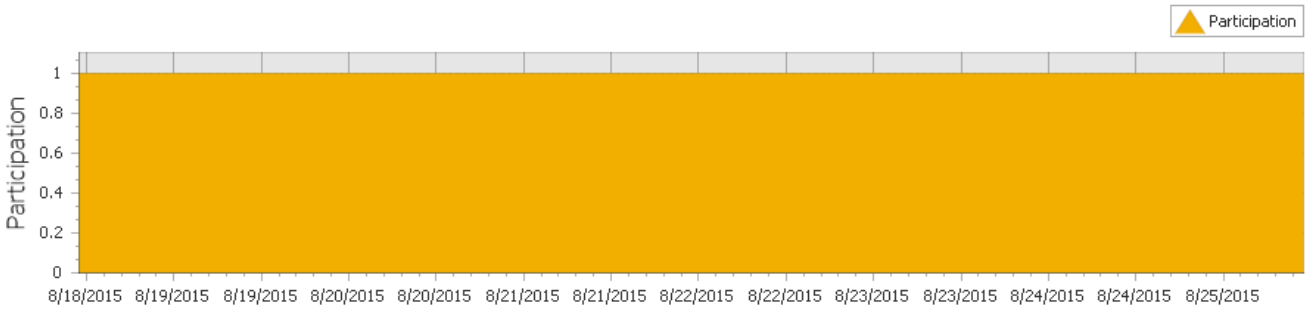

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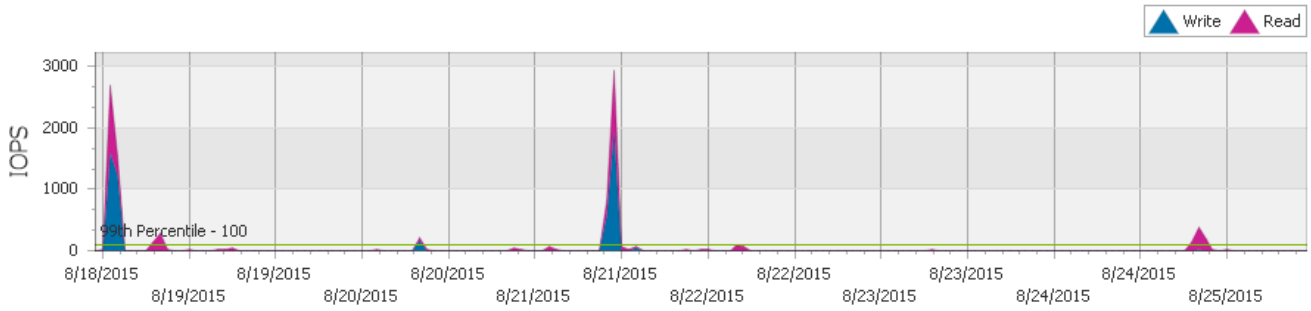
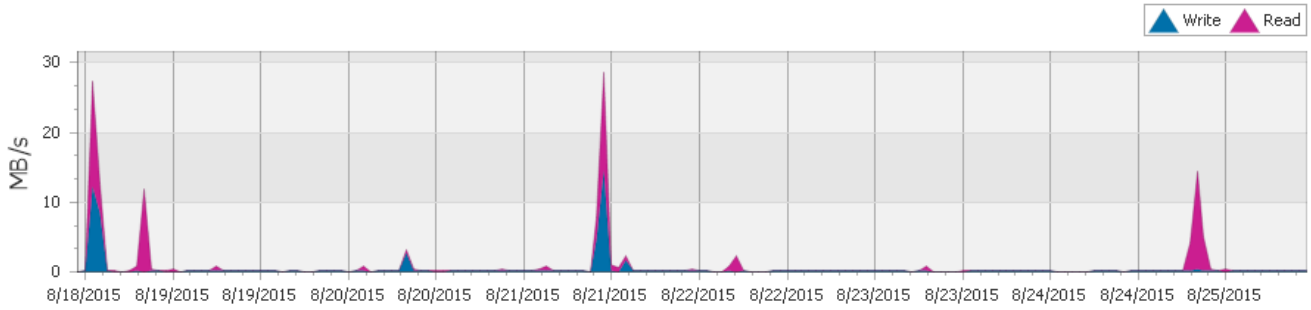
Individual Server Report: ber-pba01v

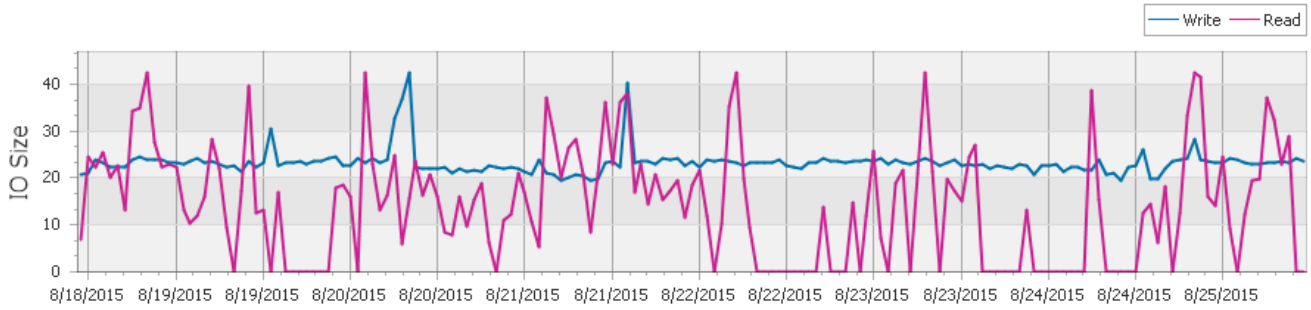
Operating System	CentOS release 6.6 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

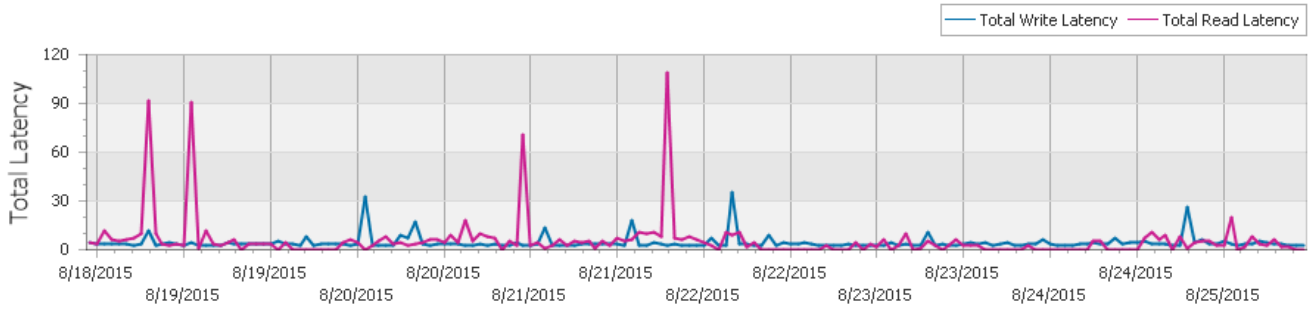
Output Summary		Output Summary	
Throughput	27.30 MB/s	Average IO size	Read: 8.34 KB / Write: 18.57 KB
IOPS	100 at 99%	Latency	109 ms Reads and 35 ms Writes
Read/Write Ratio	38% / 62%	Average Queue Depth	0.28
Total Local Capacity	40.00 GB	Peak/Min CPU	99% / 0%
Free Local Capacity	26.00 GB (65%)	Peak/Min Memory	17.69 GB / 0.14 GB
Used Local Capacity	14.00 GB (35%)	Peak/Min Memory In Use	18.21 GB / 0.66 GB

Sockets	Cores	Description
8	8	Intel(R) Xeon(R) CPU E5-2650 v3 @ 2.30GHz









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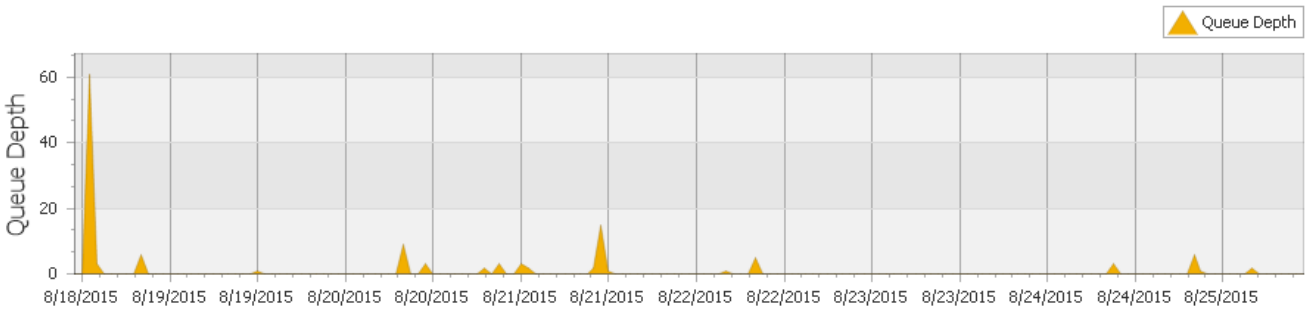

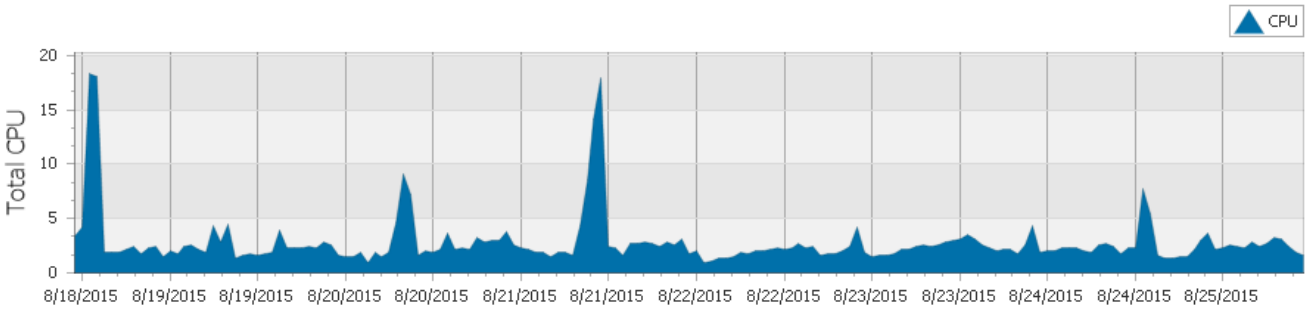

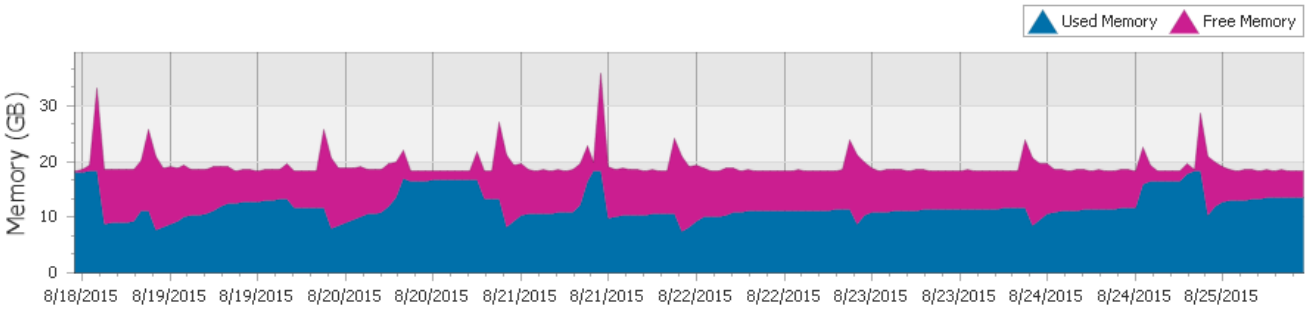

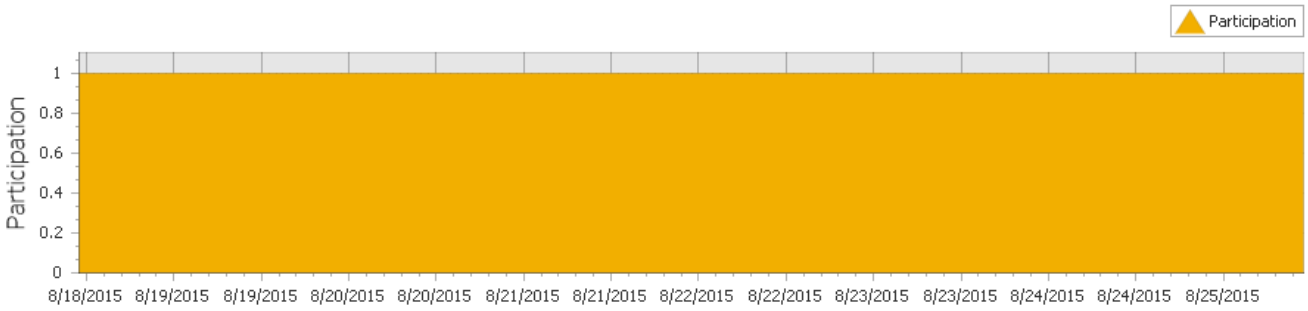

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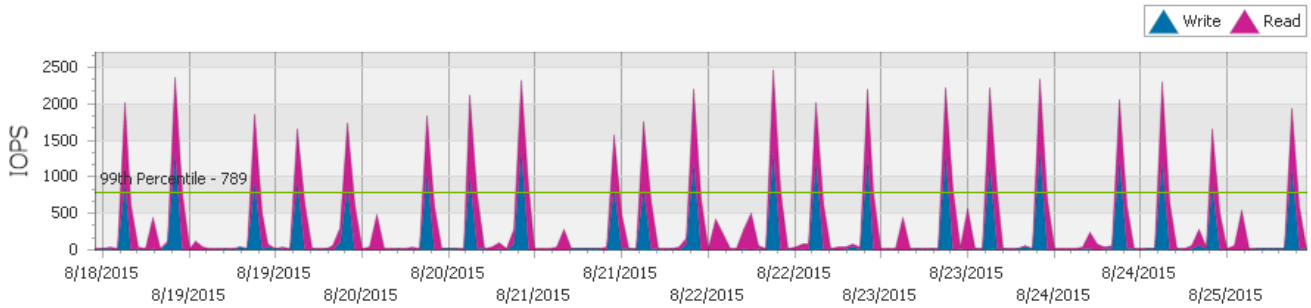
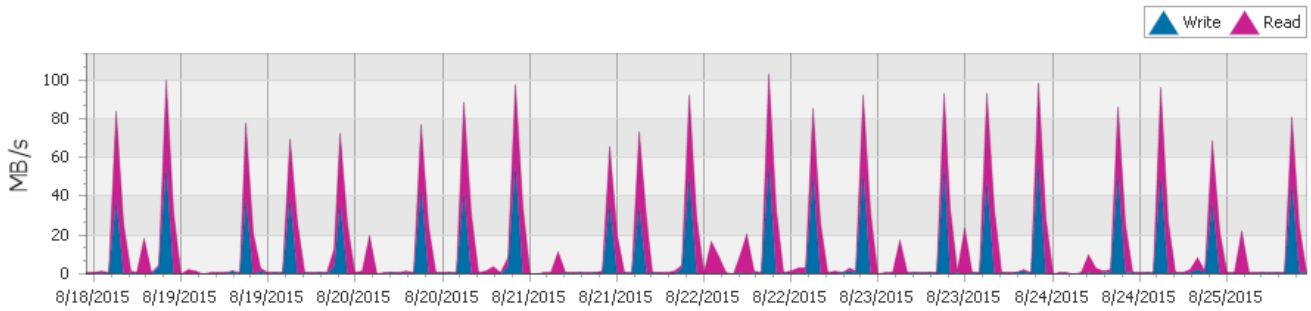
Individual Server Report: apache2

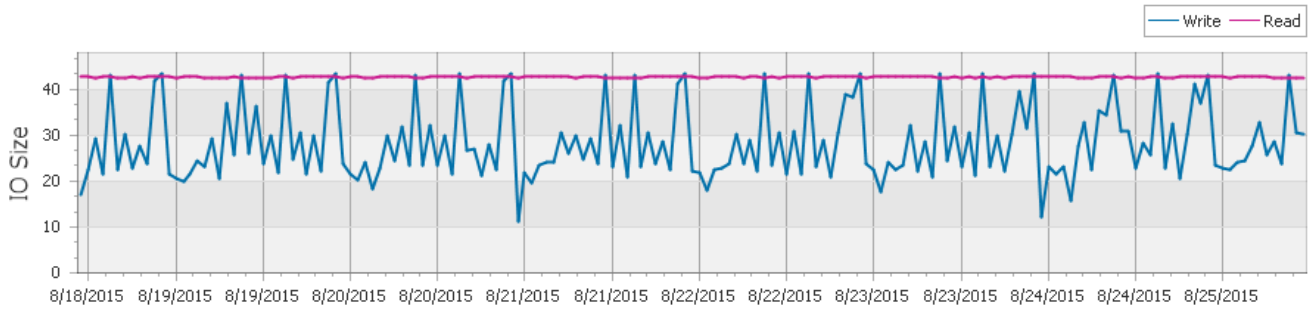
Operating System	CentOS release 6.6 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

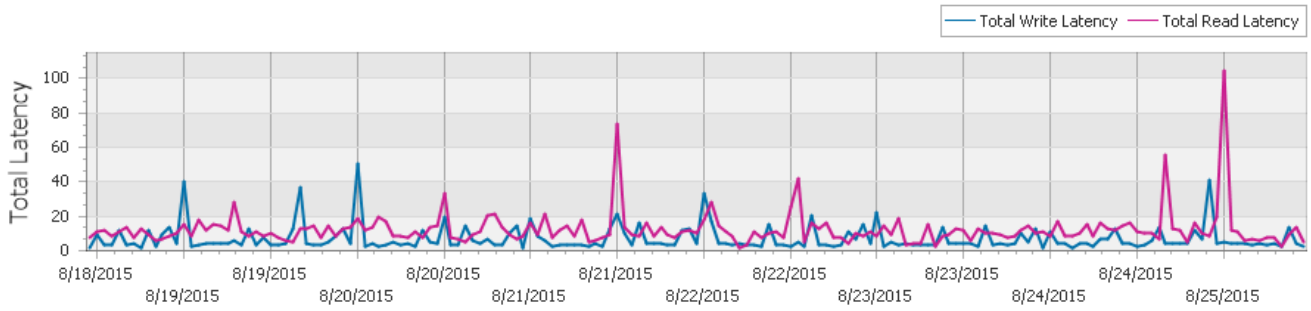
Output Summary		Output Summary	
Throughput	103.20 MB/s	Average IO size	Read: 38.67 KB / Write: 18.81 KB
IOPS	789 at 99%	Latency	105 ms Reads and 50 ms Writes
Read/Write Ratio	69% / 31%	Average Queue Depth	1.23
Total Local Capacity	40.00 GB	Peak/Min CPU	55% / 2%
Free Local Capacity	13.00 GB (33%)	Peak/Min Memory	5.91 GB / 0.06 GB
Used Local Capacity	27.00 GB (68%)	Peak/Min Memory In Use	12.09 GB / 6.24 GB

Sockets	Cores	Description
1	1	Intel(R) Xeon(R) CPU X5560 @ 2.80GHz









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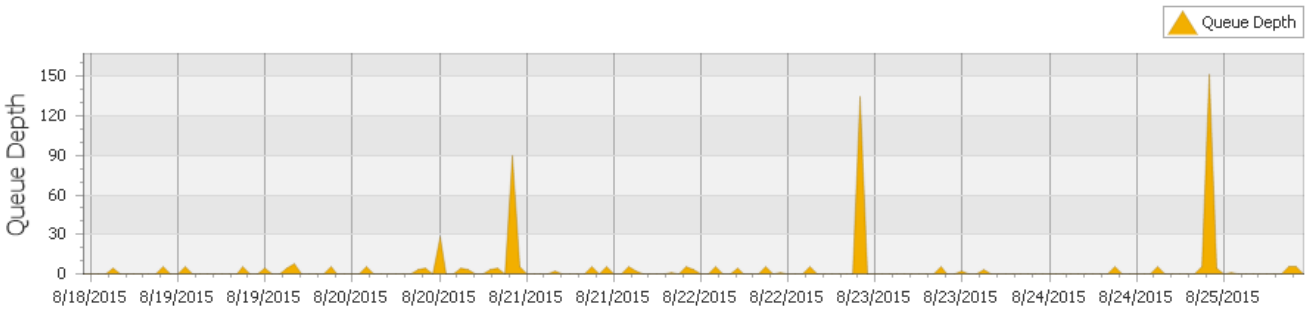

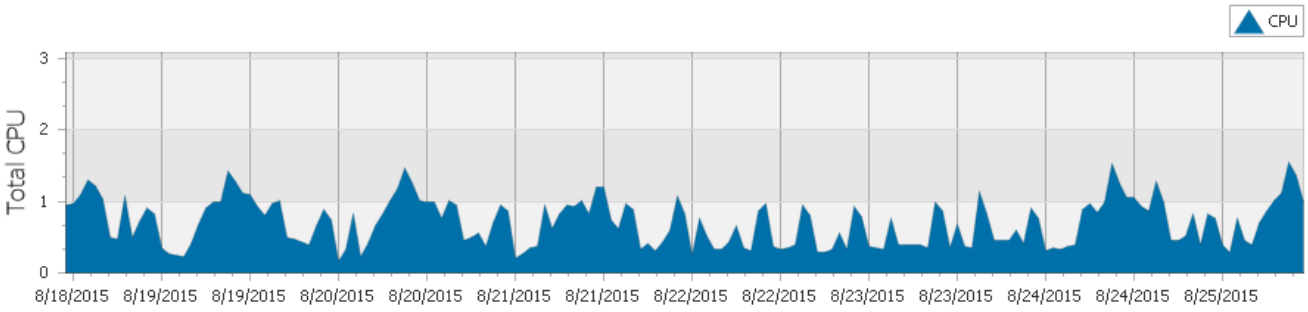

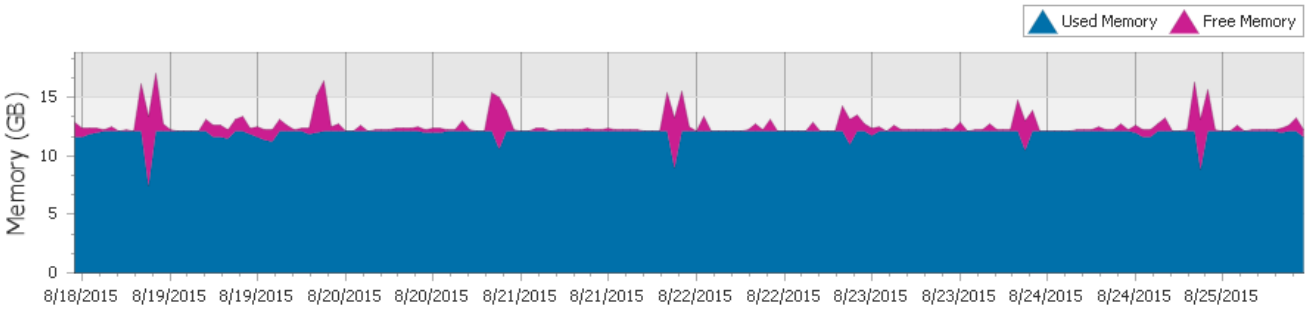

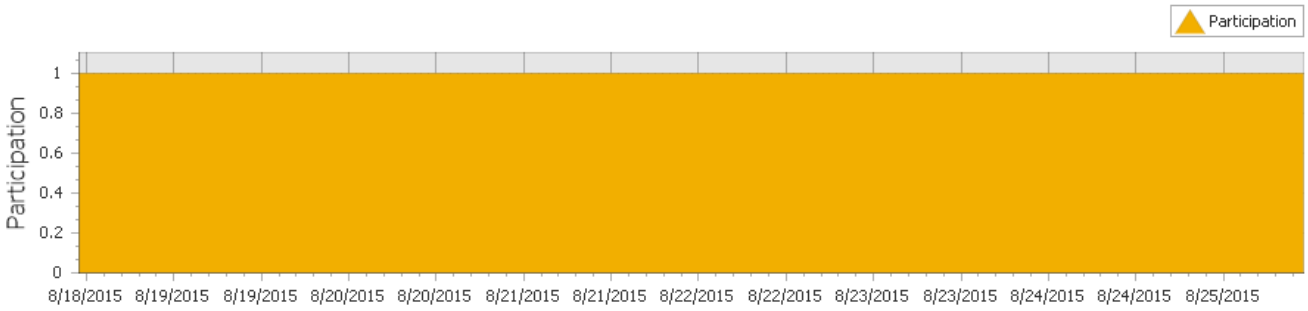

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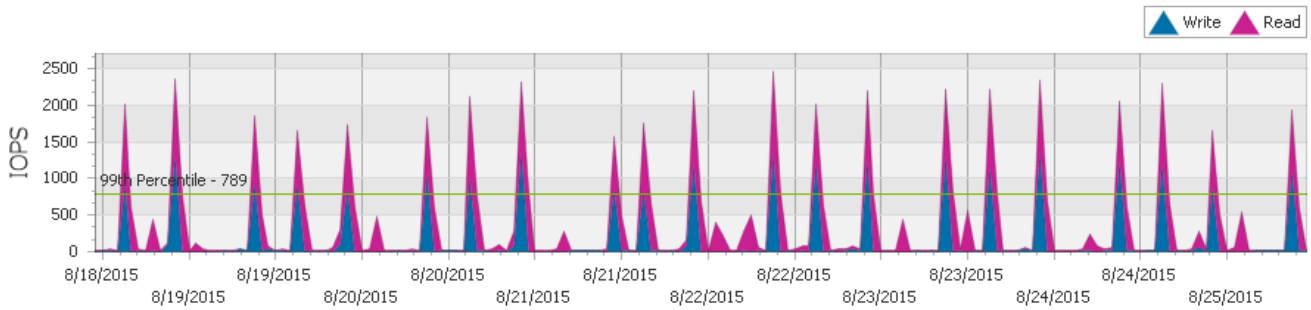
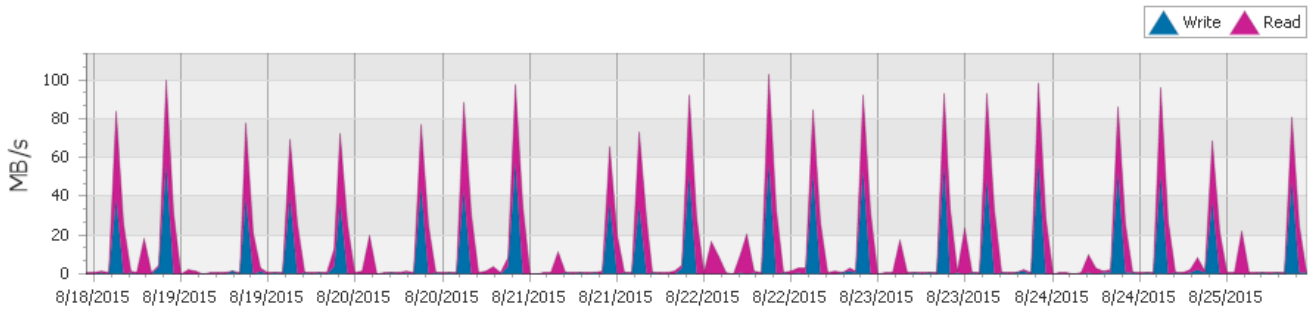
Individual Server Report: apache2.1

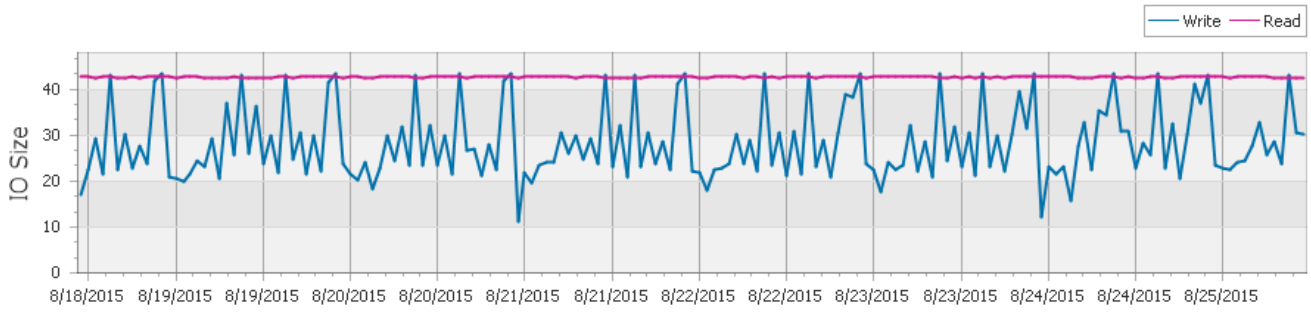
Operating System	CentOS release 6.6 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

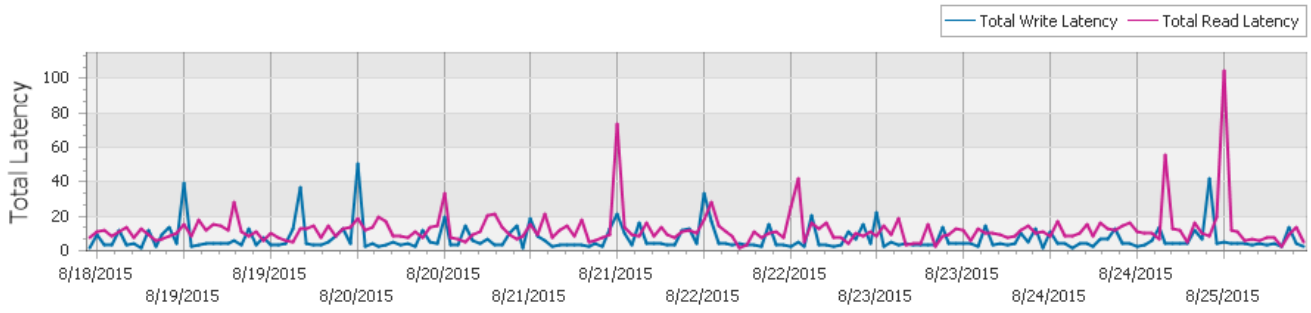
Output Summary		Output Summary	
Throughput	103.20 MB/s	Average IO size	Read: 38.67 KB / Write: 18.81 KB
IOPS	789 at 99%	Latency	105 ms Reads and 50 ms Writes
Read/Write Ratio	69% / 31%	Average Queue Depth	1.88
Total Local Capacity	40.00 GB	Peak/Min CPU	55% / 2%
Free Local Capacity	13.00 GB (33%)	Peak/Min Memory	5.92 GB / 0.06 GB
Used Local Capacity	27.00 GB (68%)	Peak/Min Memory In Use	12.09 GB / 6.23 GB

Sockets	Cores	Description
1	1	Intel(R) Xeon(R) CPU X5560 @ 2.80GHz









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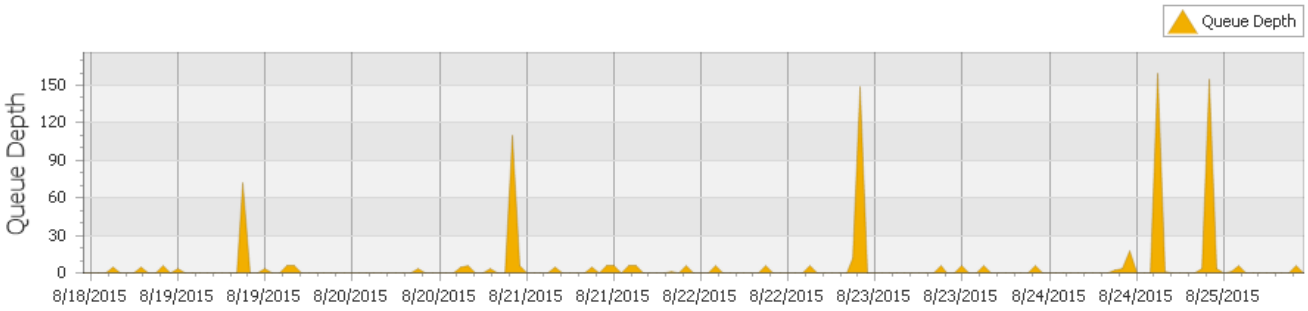

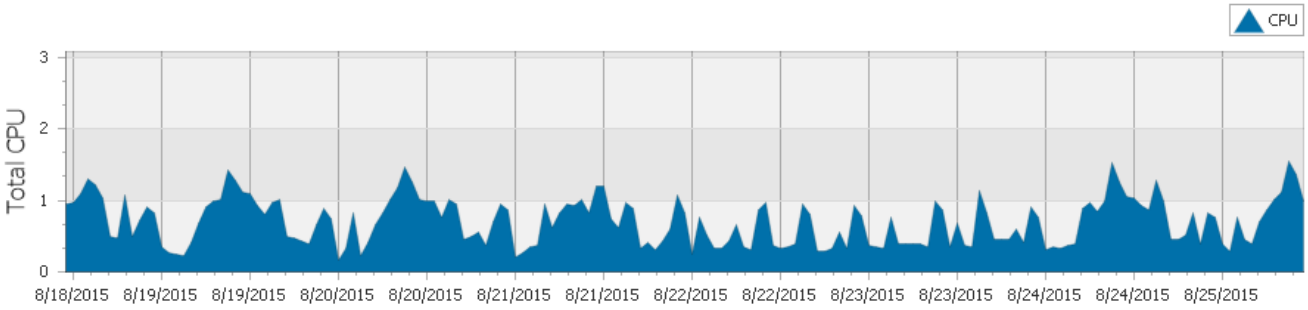

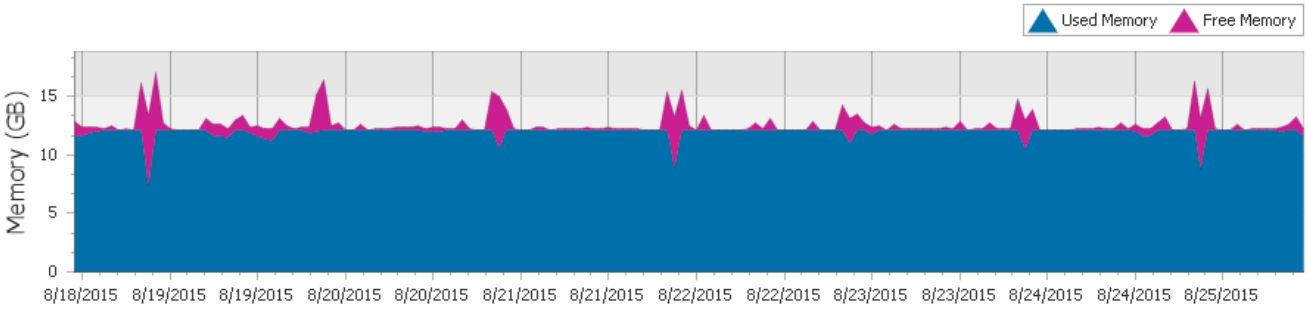

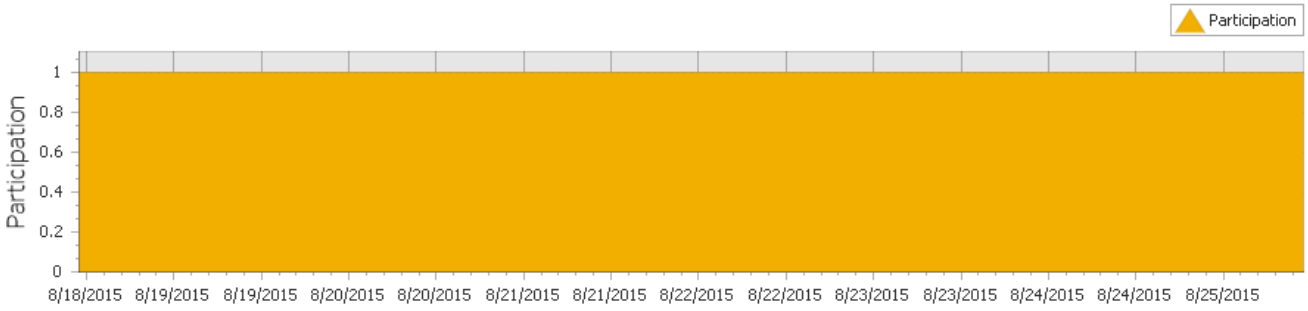

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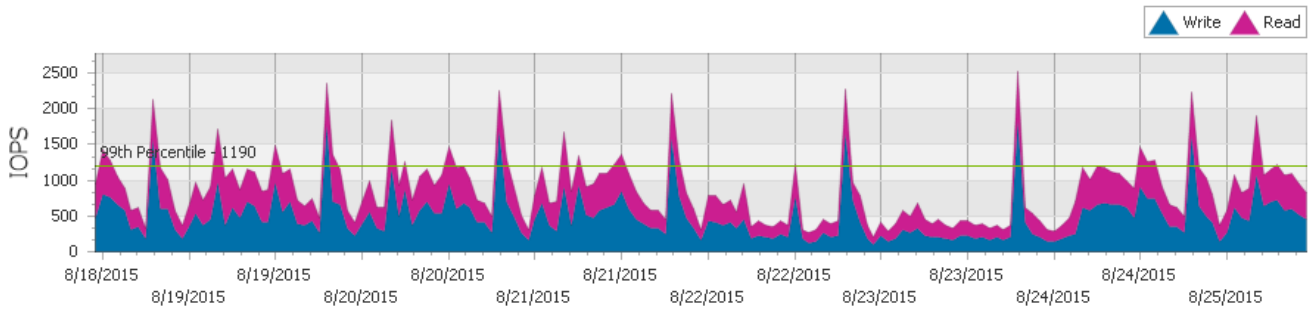
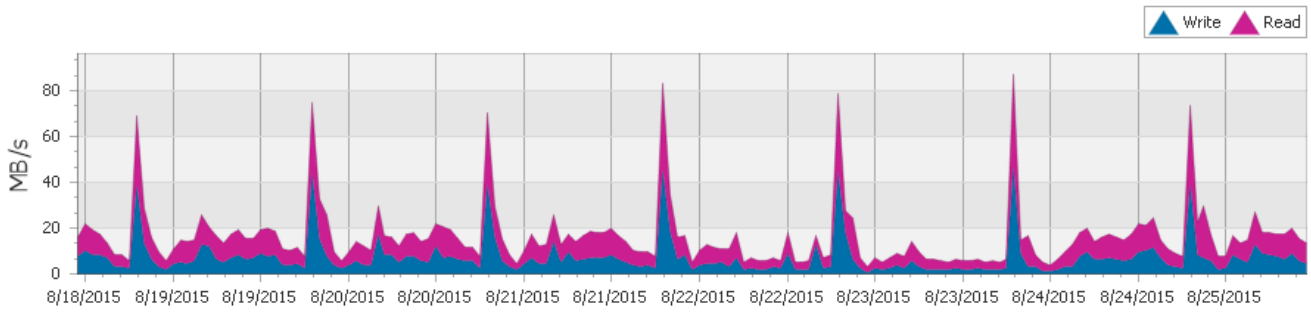
Individual Server Report: oranode5.intern.mercateo.com

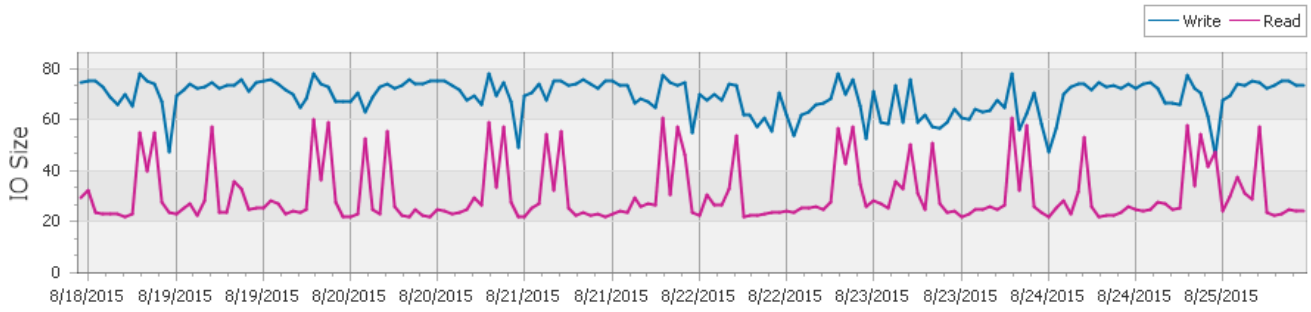
Operating System	Red Hat Enterprise Linux Server release 5.8 (Tikanga)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

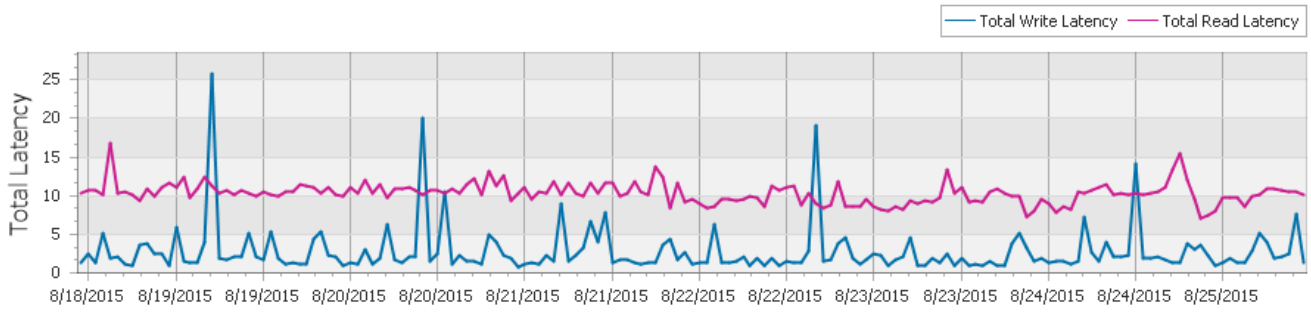
Output Summary		Output Summary	
Throughput	83.30 MB/s	Average IO size	Read: 23.89 KB / Write: 13.45 KB
IOPS	1190 at 99%	Latency	17 ms Reads and 26 ms Writes
Read/Write Ratio	43% / 57%	Average Queue Depth	0.99
Total Local Capacity	5.46 TB	Peak/Min CPU	45% / 0%
Free Local Capacity	3.49 TB (64%)	Peak/Min Memory	16.26 GB / 12.53 GB
Used Local Capacity	1.96 TB (36%)	Peak/Min Memory In Use	20.48 GB / 16.75 GB

Sockets	Cores	Description
2	8	Intel(R) Xeon(R) CPU E5345 @ 2.33GHz









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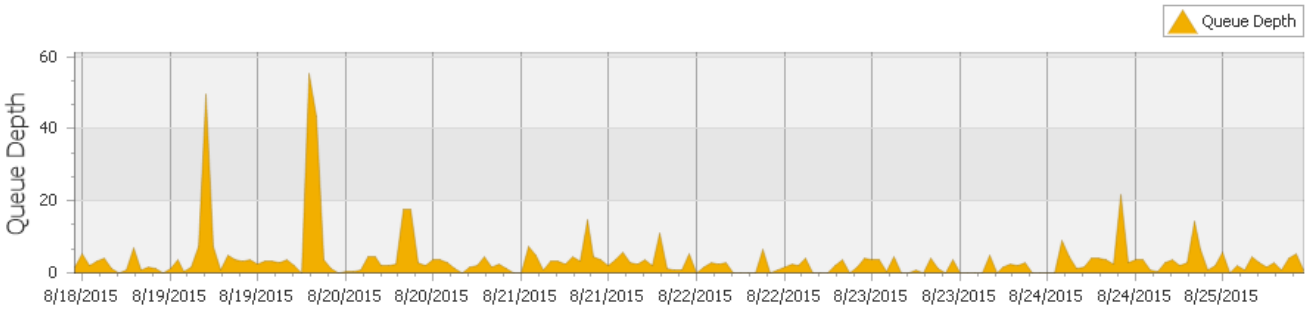

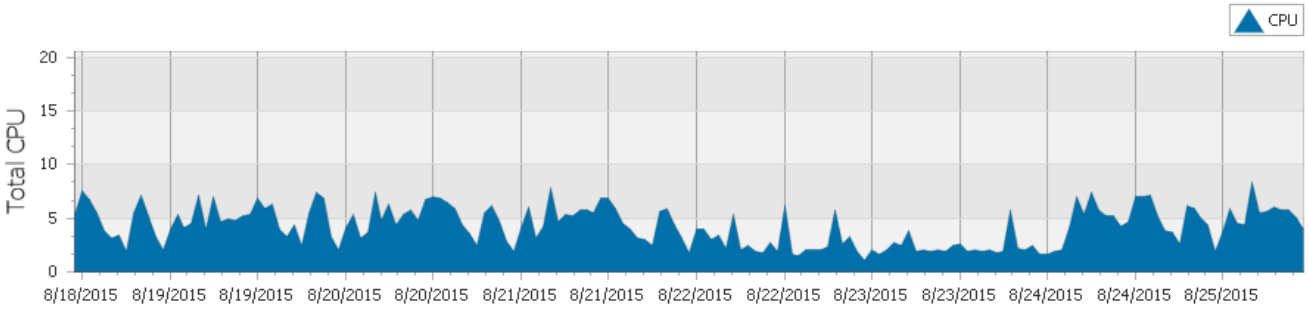

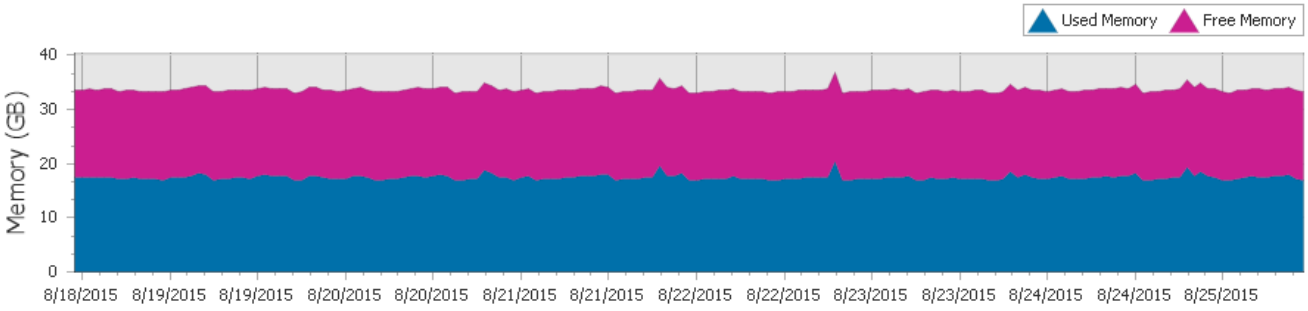

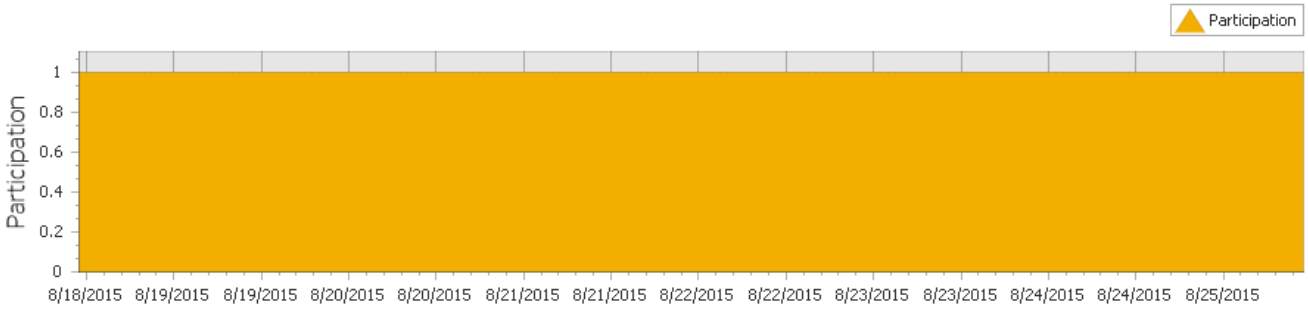

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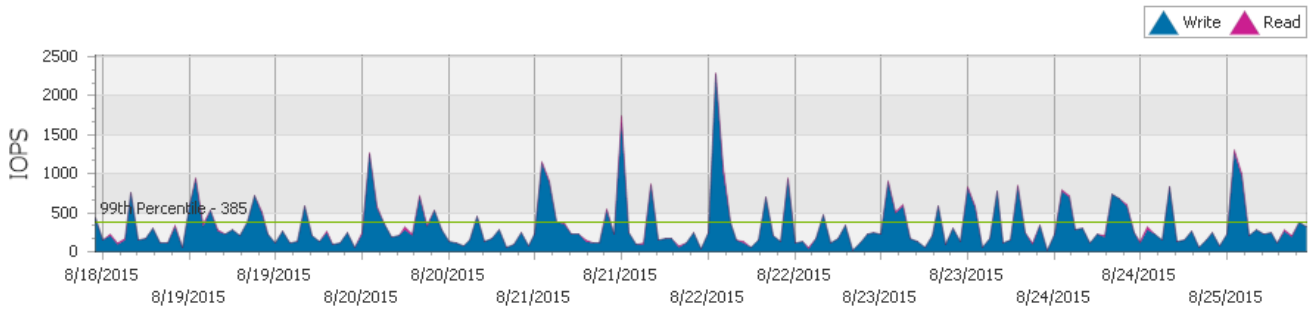
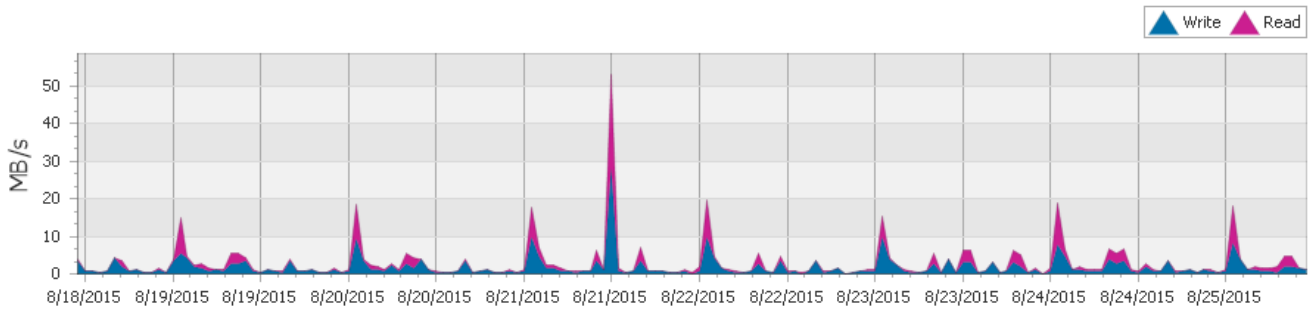
Individual Server Report: franklin12

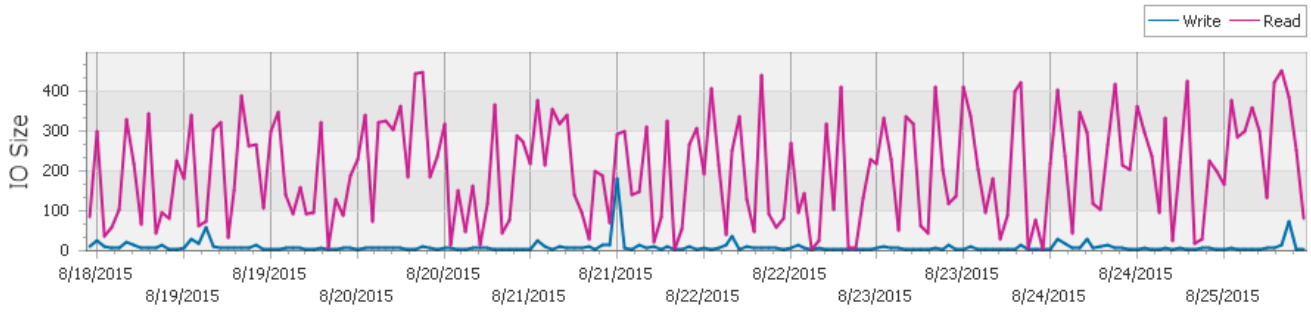
Operating System	openSUSE 11.4 (x86_64)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

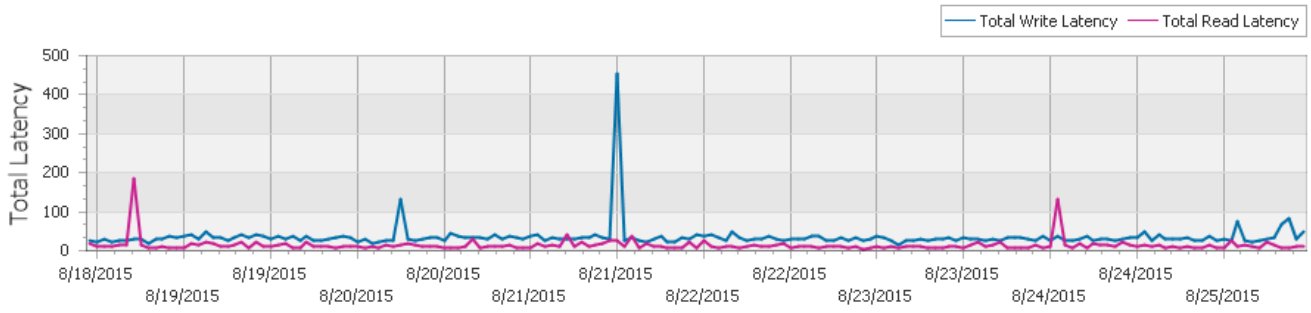
Output Summary		Output Summary	
Throughput	38.10 MB/s	Average IO size	Read: 65.58 KB / Write: 5.10 KB
IOPS	385 at 99%	Latency	186 ms Reads and 455 ms Writes
Read/Write Ratio	1% / 99%	Average Queue Depth	2.22
Total Local Capacity	419.00 GB	Peak/Min CPU	28% / 0%
Free Local Capacity	341.00 GB (81%)	Peak/Min Memory	18.47 GB / 0.08 GB
Used Local Capacity	78.00 GB (19%)	Peak/Min Memory In Use	24.66 GB / 6.26 GB

Sockets	Cores	Description
2	12	Intel(R) Xeon(R) CPU X5650 @ 2.67GHz









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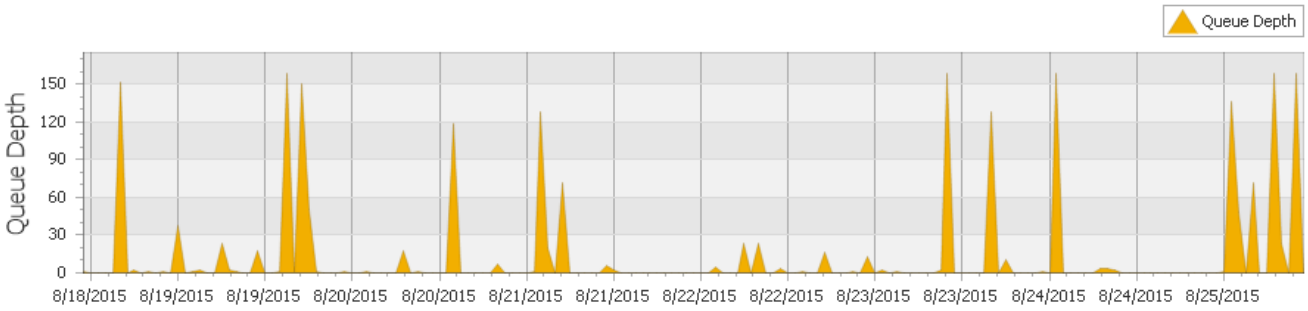

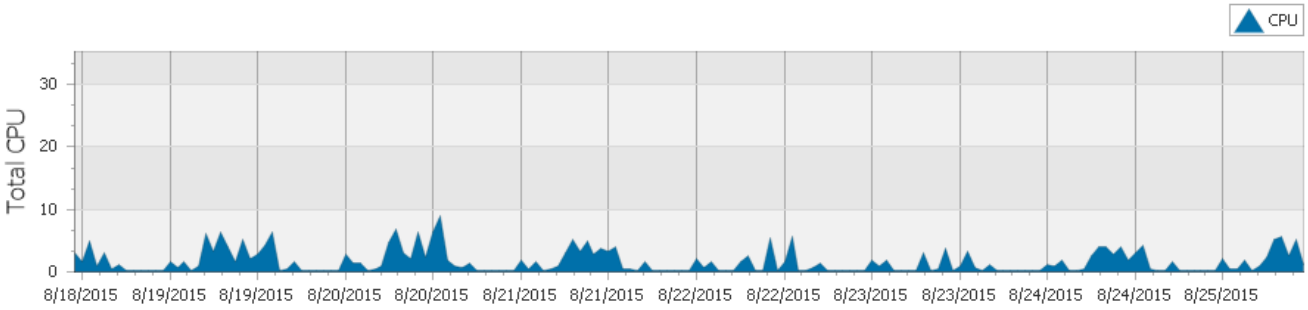

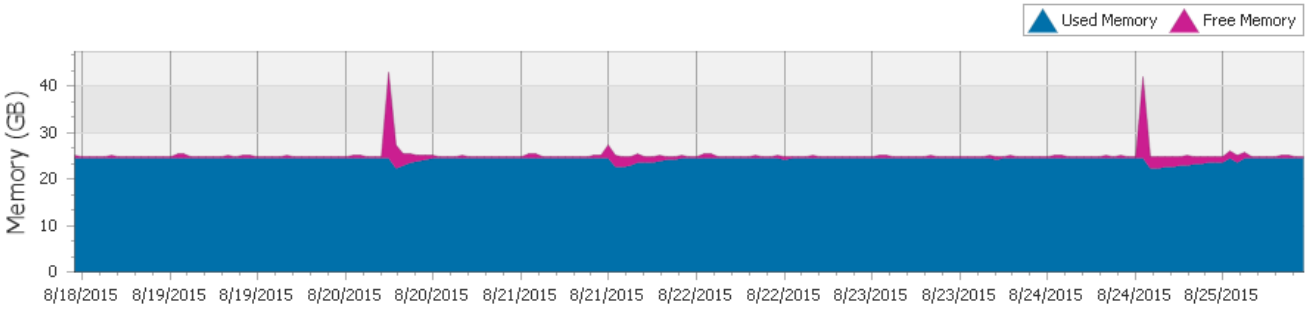

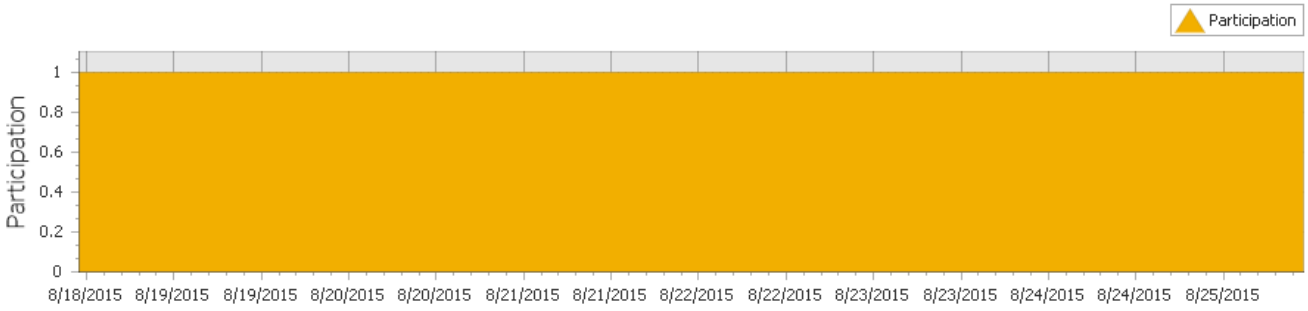

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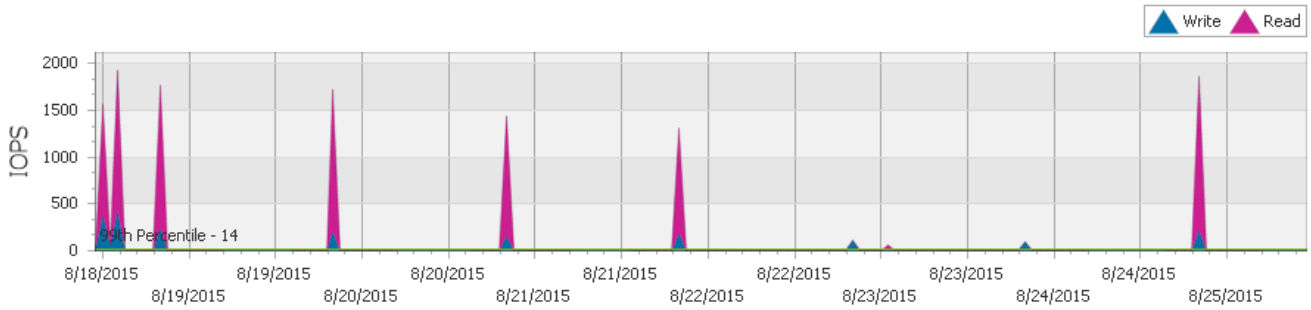
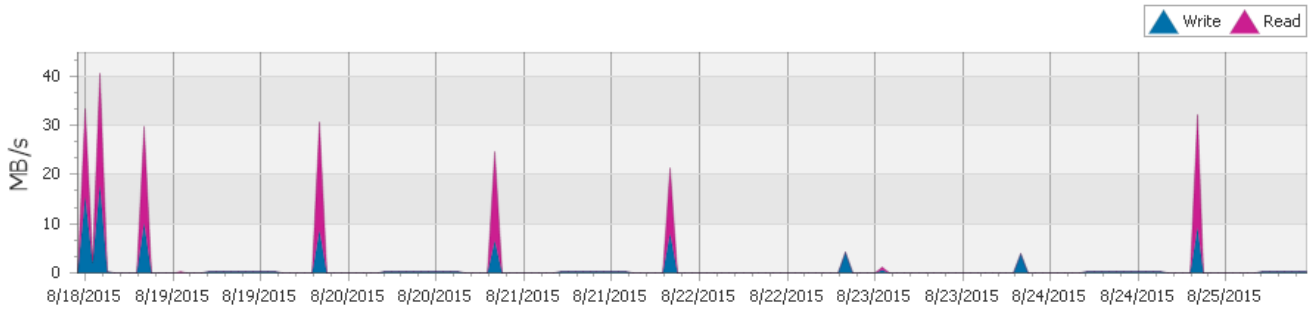
Individual Server Report: live-dmz-front1

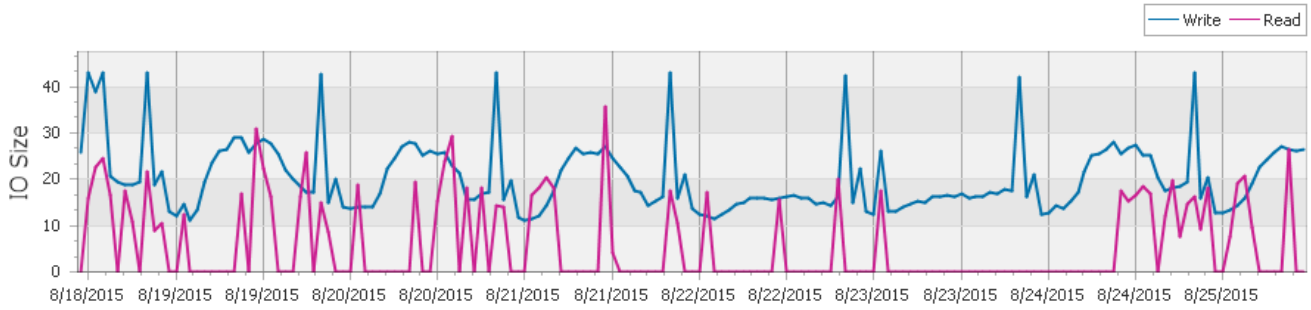
Operating System	CentOS release 6.6 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

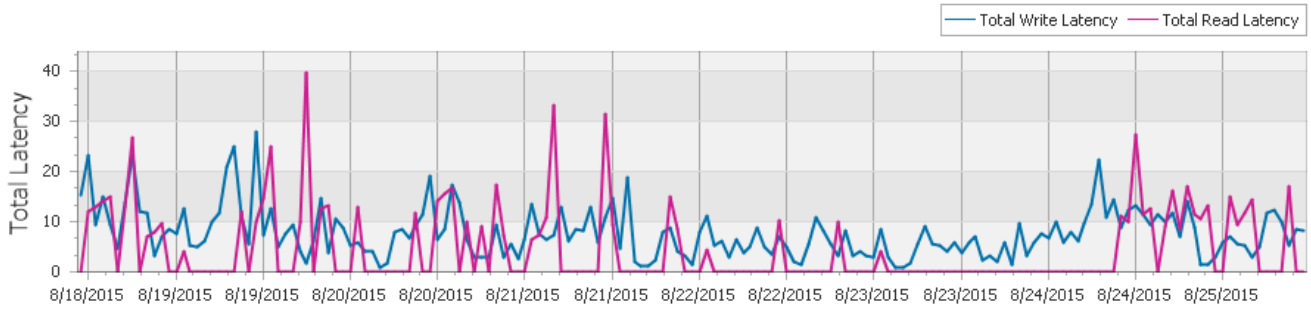
Output Summary		Output Summary	
Throughput	40.70 MB/s	Average IO size	Read: 1.84 KB / Write: 25.61 KB
IOPS	14 at 99%	Latency	40 ms Reads and 28 ms Writes
Read/Write Ratio	61% / 39%	Average Queue Depth	0.03
Total Local Capacity	32.00 GB	Peak/Min CPU	26% / 0%
Free Local Capacity	16.00 GB (50%)	Peak/Min Memory	7.31 GB / 0.06 GB
Used Local Capacity	16.00 GB (50%)	Peak/Min Memory In Use	12.09 GB / 4.84 GB

Sockets	Cores	Description
1	1	Intel(R) Xeon(R) CPU X5660 @ 2.80GHz









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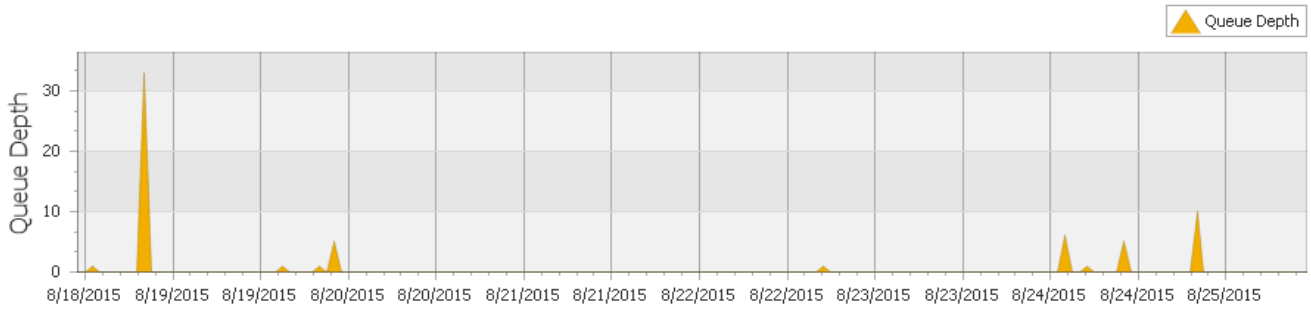

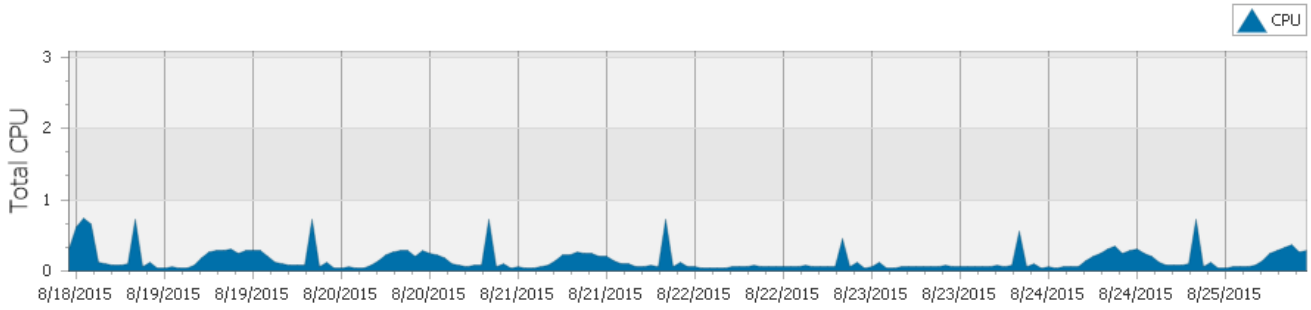

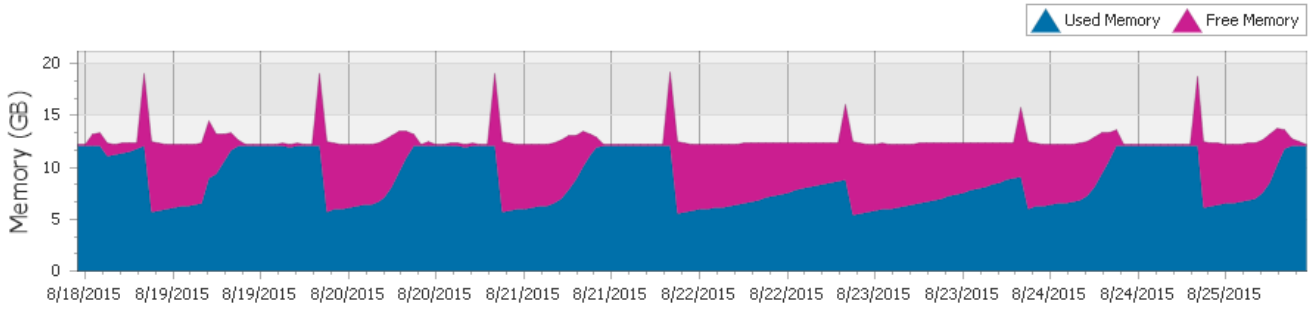

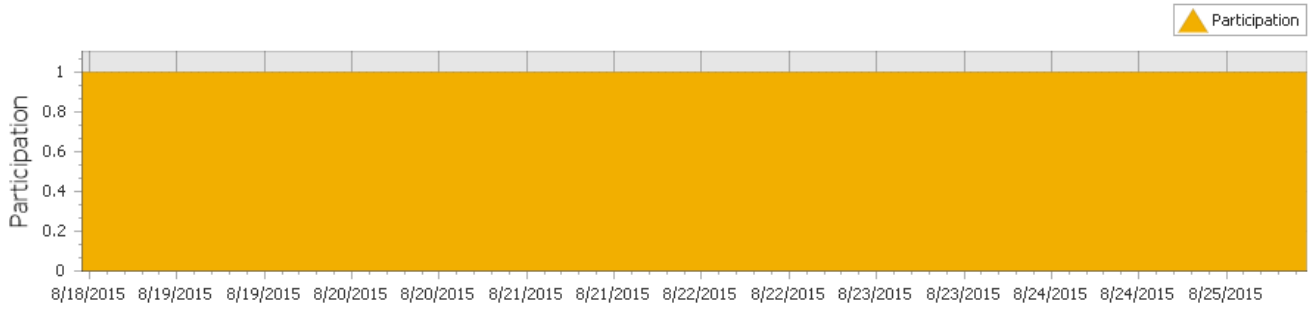

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Individual Server Report: sapcon1

Operating System	SUSE Linux Enterprise Server 11 (x86_64)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

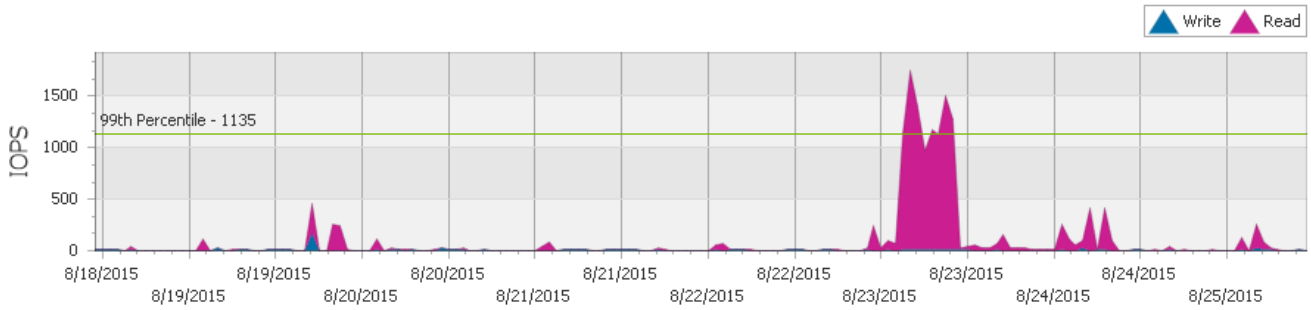
Output Summary

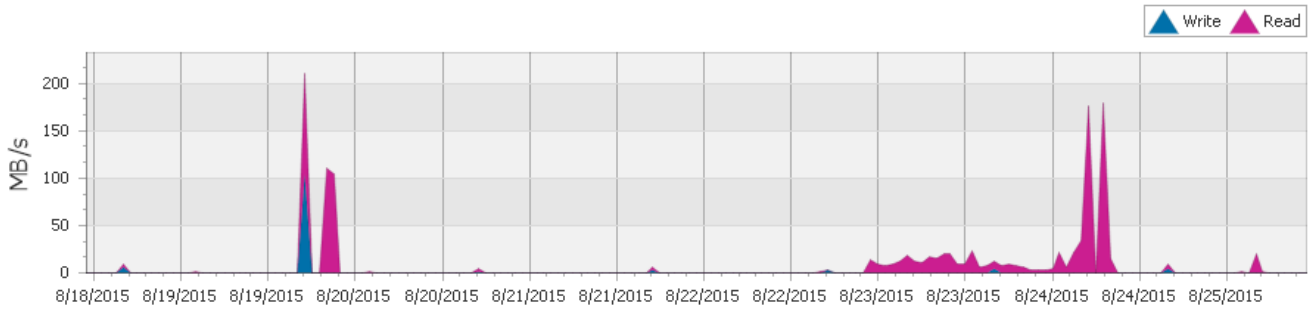
Throughput	211.20 MB/s
IOPS	1135 at 99%
Read/Write Ratio	97% / 3%
Total Local Capacity	2.05 TB
Free Local Capacity	1.18 TB (58%)
Used Local Capacity	890.00 GB (42%)

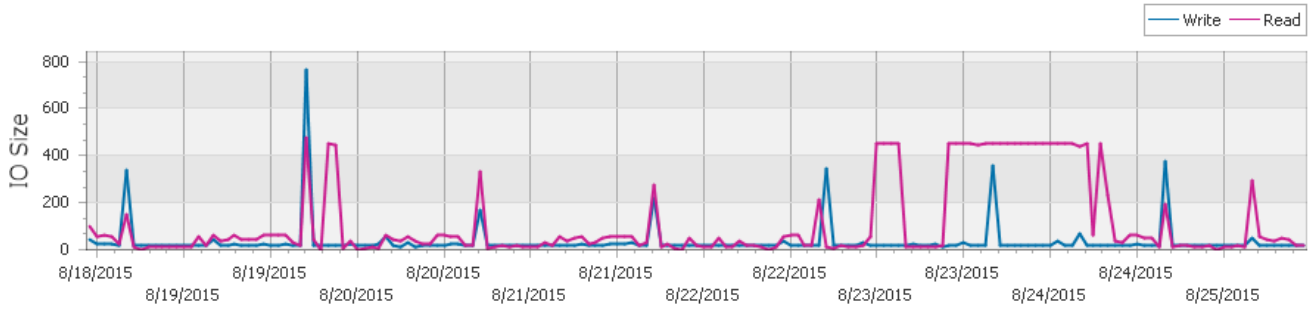
Output Summary

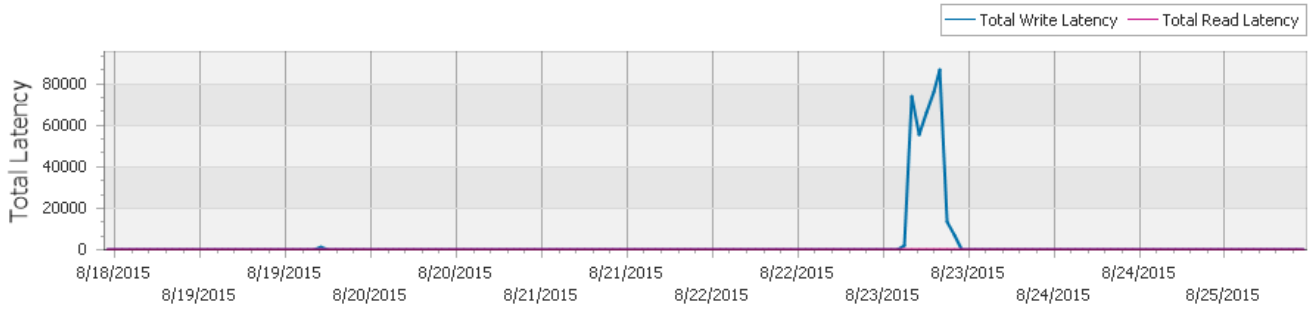
Average IO size	Read: 209.56 KB / Write: 44.77 KB
Latency	98 ms Reads and 86742 ms Writes
Average Queue Depth	42.11
Peak/Min CPU	45% / 0%
Peak/Min Memory	1.81 GB / 0.19 GB
Peak/Min Memory In Use	24.41 GB / 22.78 GB

Sockets	Cores	Description
2	12	Intel(R) Xeon(R) CPU X5650 @ 2.67GHz









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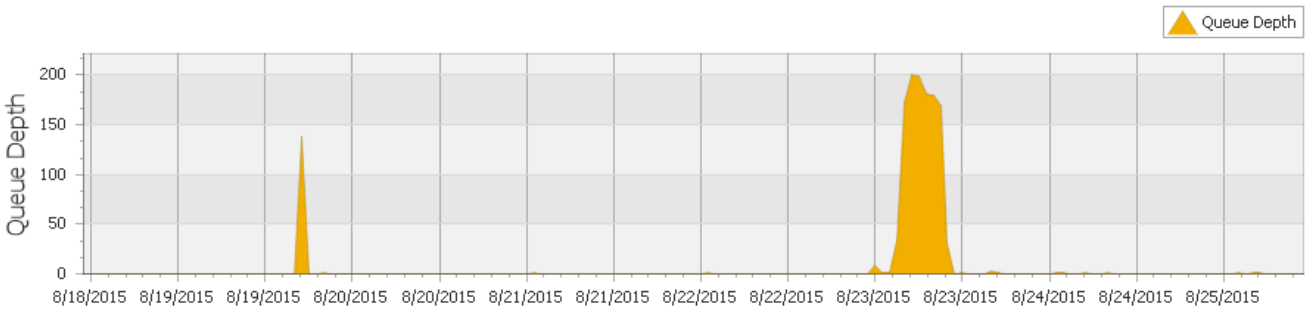

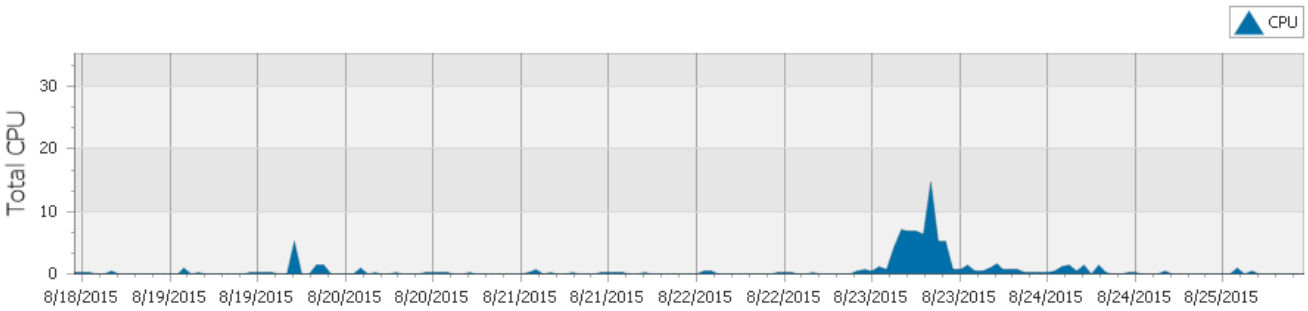

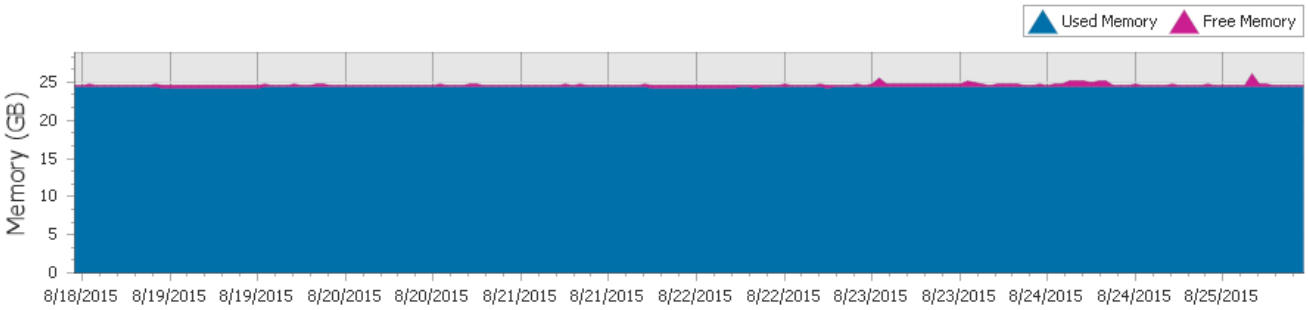

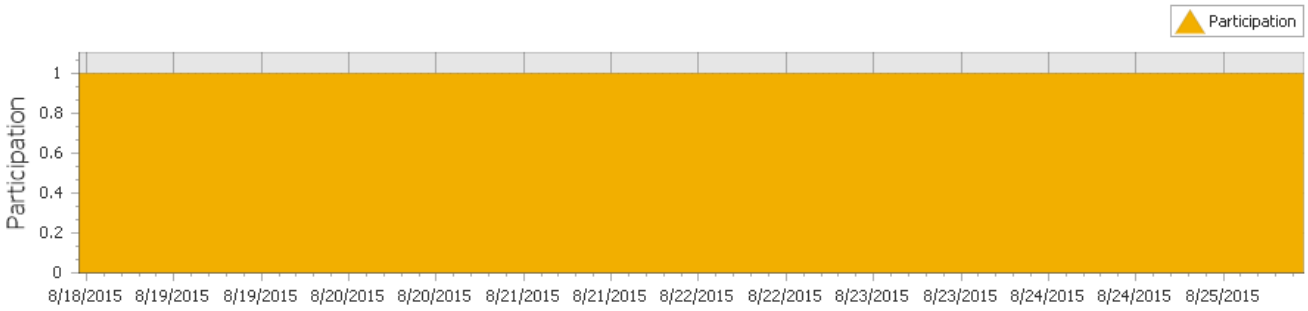

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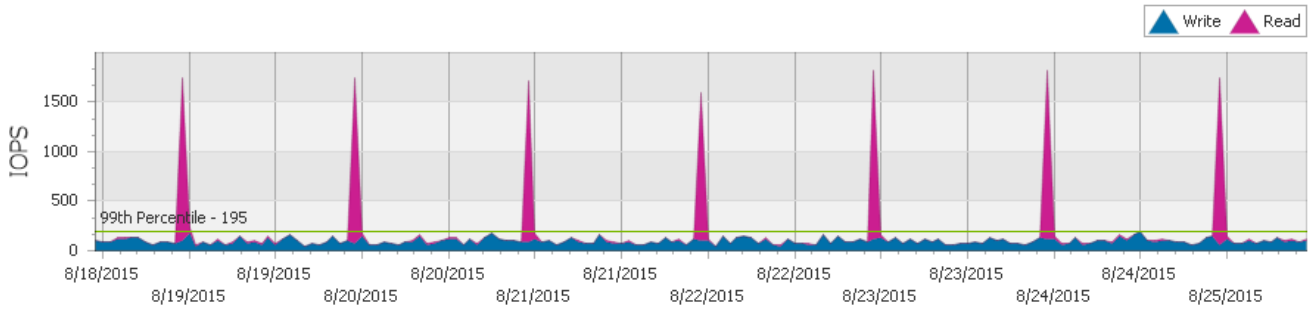
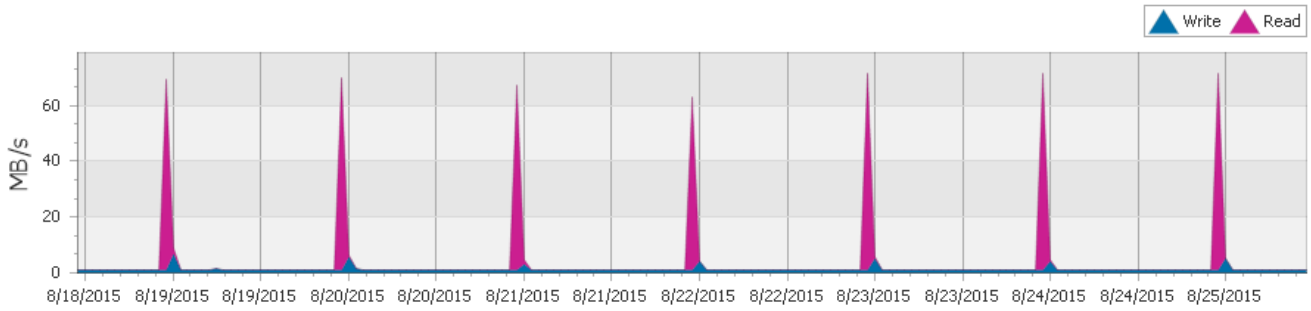
Individual Server Report: piwik2.intern.mercateo.com

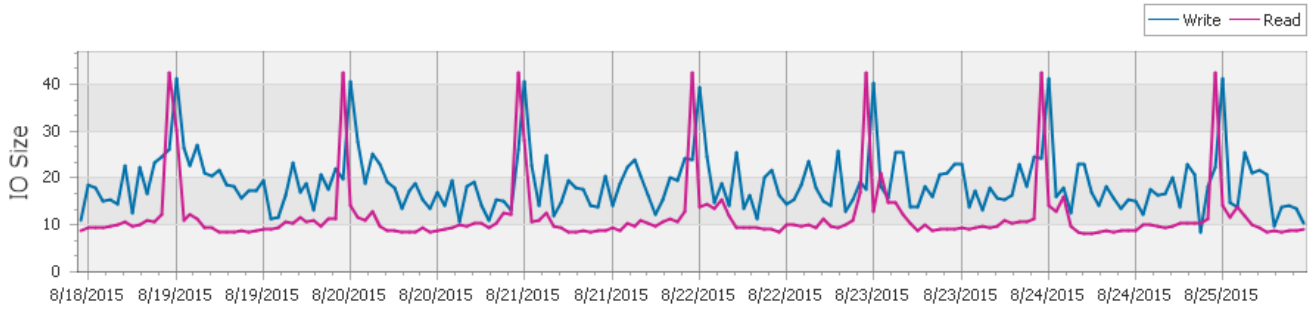
Operating System	CentOS release 6.3 (Final)
Time Recorded	7 Day(s), 0 Hour(s), 0 Minute(s), 8/18/2015 - 8/25/2015

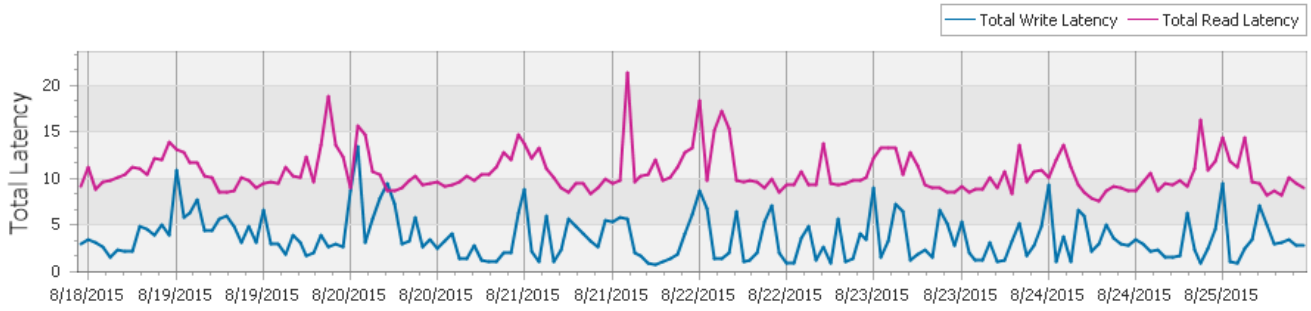
Output Summary		Output Summary	
Throughput	70.70 MB/s	Average IO size	Read: 9.34 KB / Write: 12.85 KB
IOPS	195 at 99%	Latency	22 ms Reads and 13 ms Writes
Read/Write Ratio	50% / 50%	Average Queue Depth	0.17
Total Local Capacity	128.00 GB	Peak/Min CPU	25% / 0%
Free Local Capacity	37.00 GB (29%)	Peak/Min Memory	1.37 GB / 0.04 GB
Used Local Capacity	91.00 GB (71%)	Peak/Min Memory In Use	7.99 GB / 6.66 GB

Sockets	Cores	Description
4	4	Intel(R) Xeon(R) CPU X5660 @ 2.80GHz









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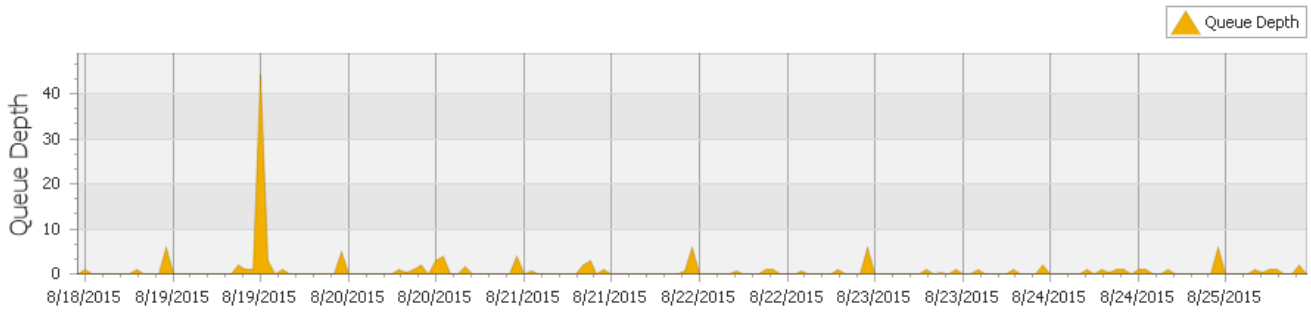

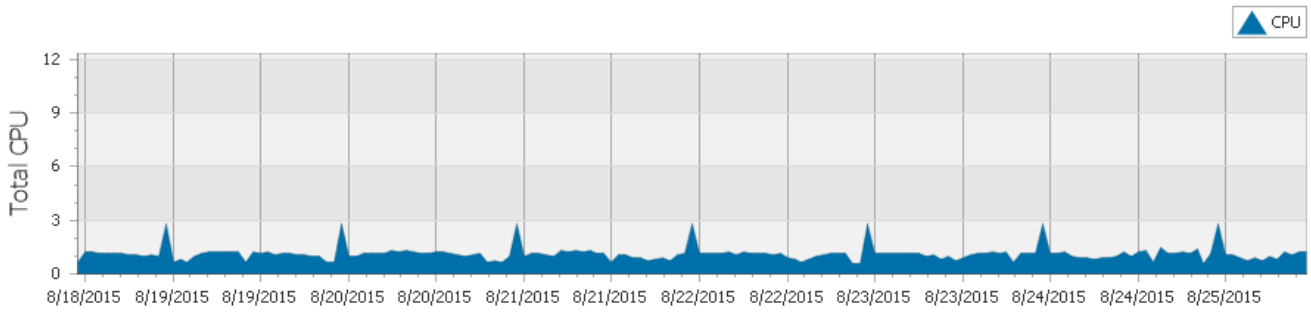

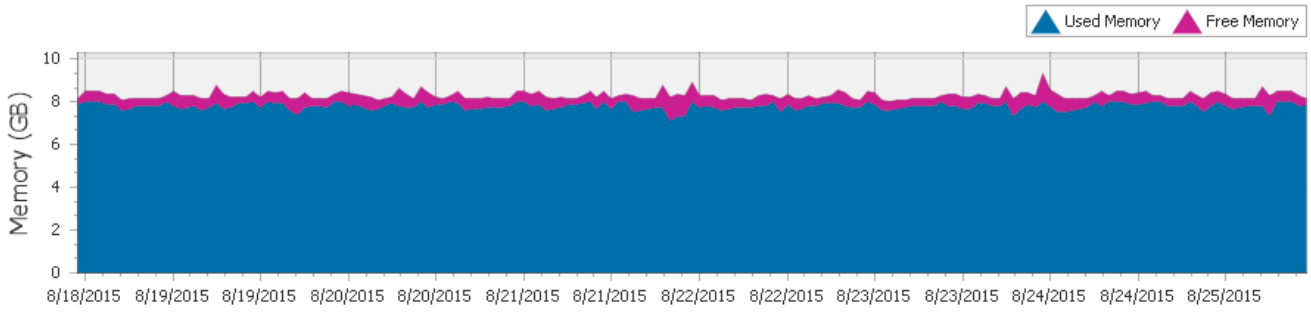

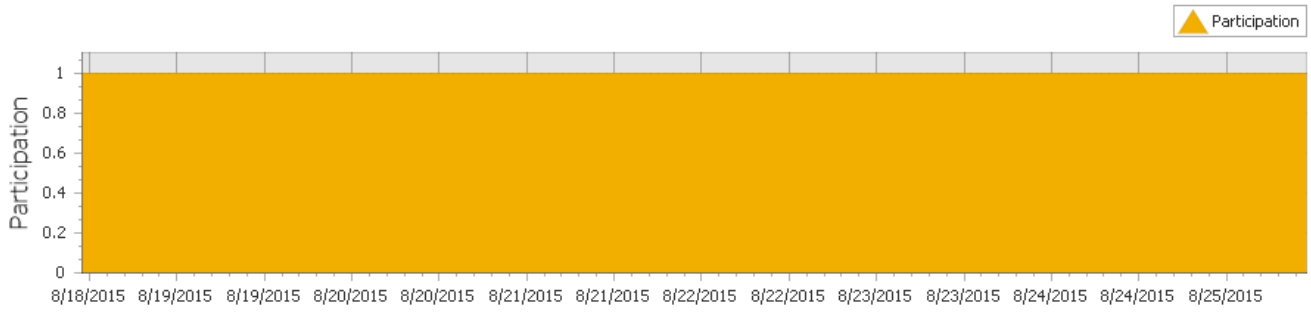

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Individual Local Disk Report: cciss!c0d0

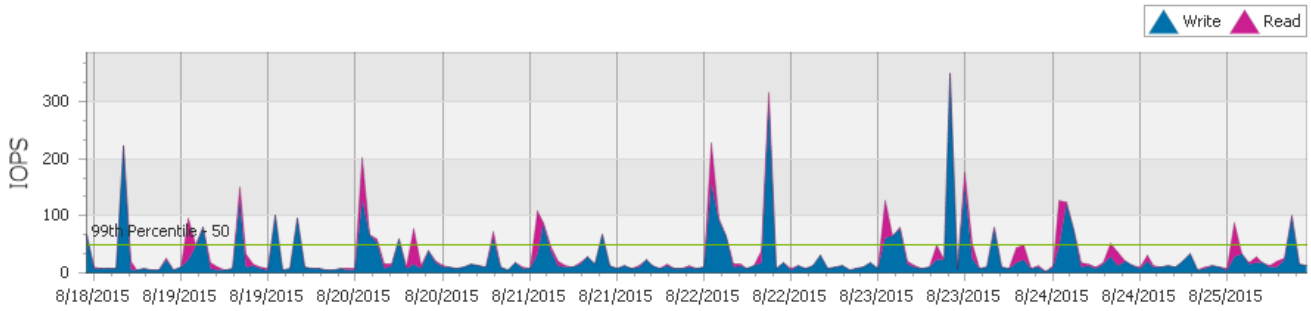
Server Name	franklin14.intern.mercateo.com
Server Operating System	CentOS release 6.5 (Final)

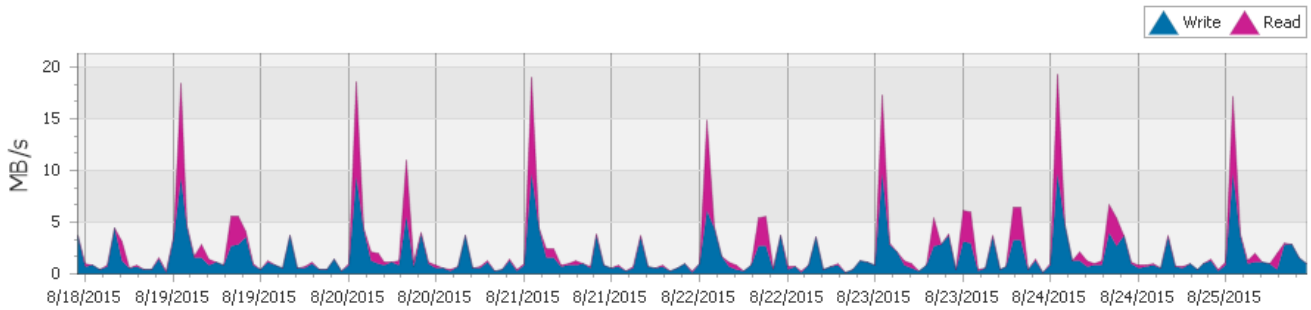
Capacity Information

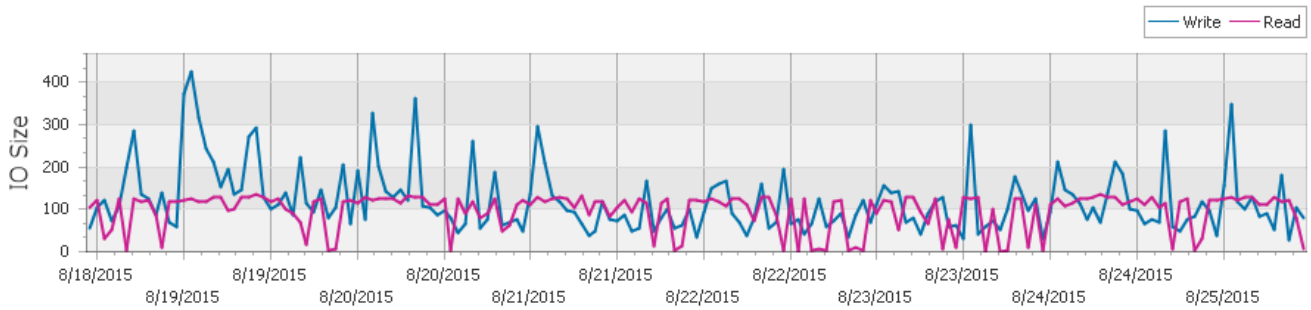
Total Local Capacity	137.00 GB
Free Local Capacity	47.00 GB (34%)
Used Local Capacity	90.00 GB (66%)

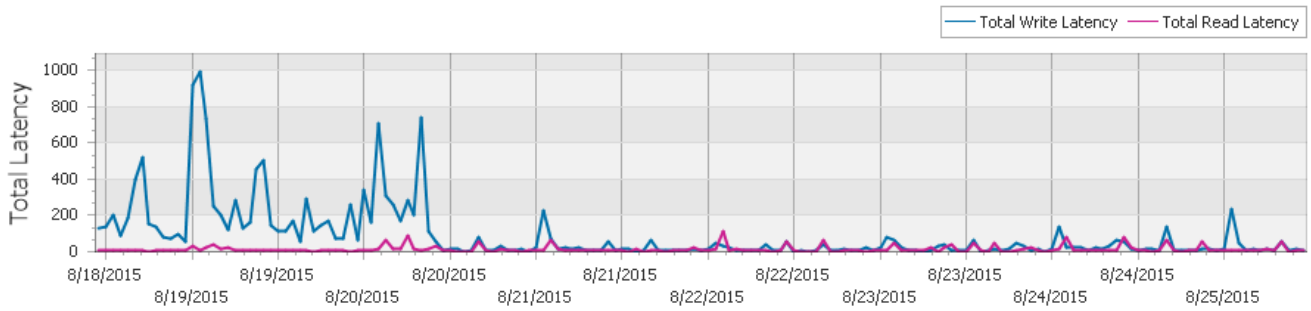
Performance Information

Peak Throughput	19.00 MB/s
Latency	114 ms reads and 994 ms writes
IOPS	11 at 95%, 50 at 99% and 350 at peak
Read/Write Ratio	12% / 88%
Average IO Size	Read: 40.06 KB / Write: 74.70 KB









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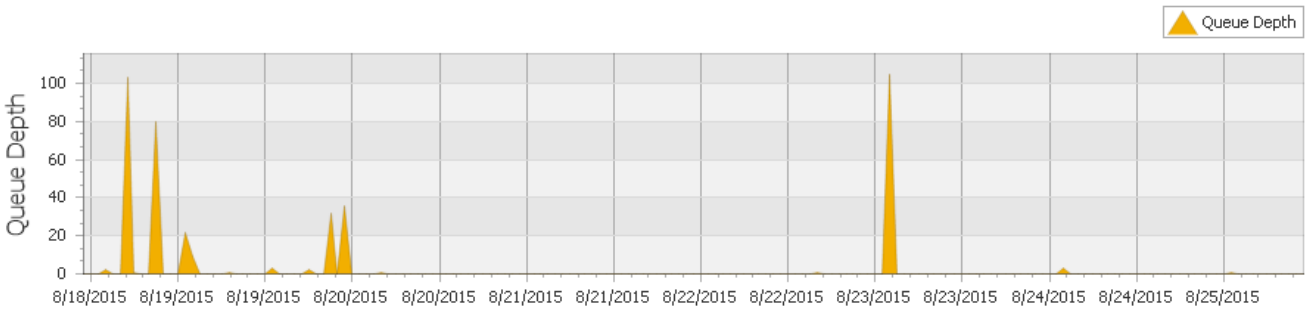

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Individual Local Disk Report: cciss!c0d0

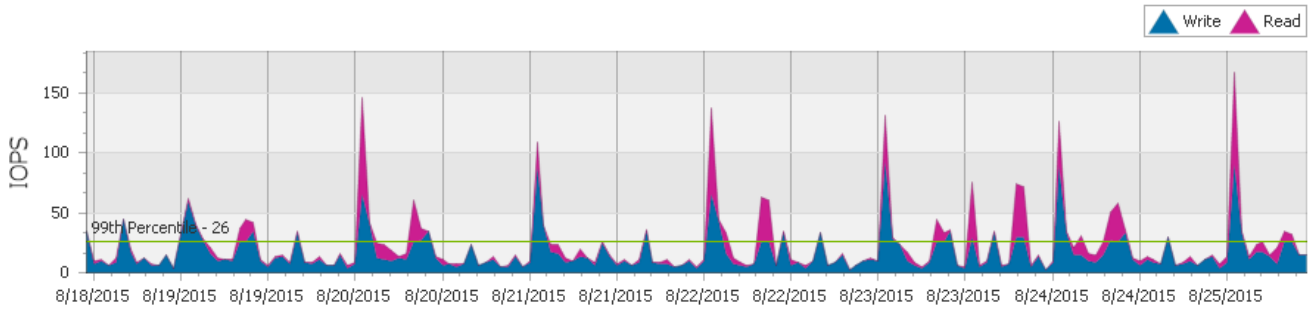
Server Name	franklin35
Server Operating System	openSUSE 11.2 (x86_64)

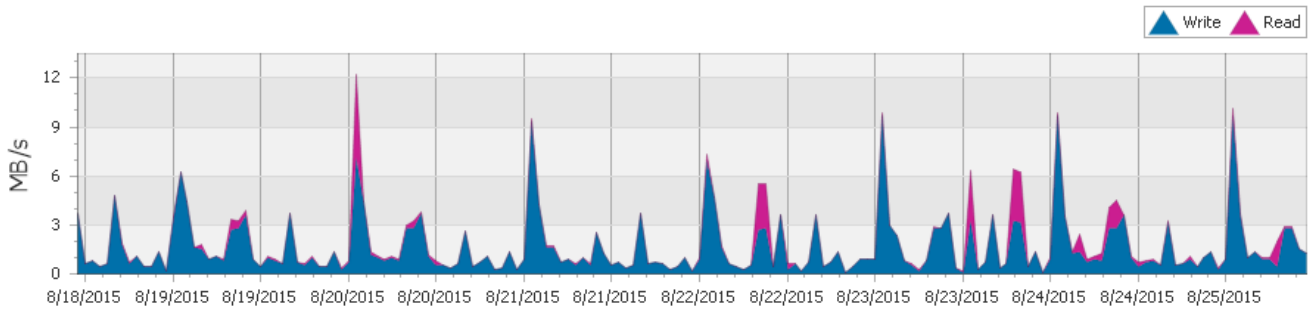
Capacity Information

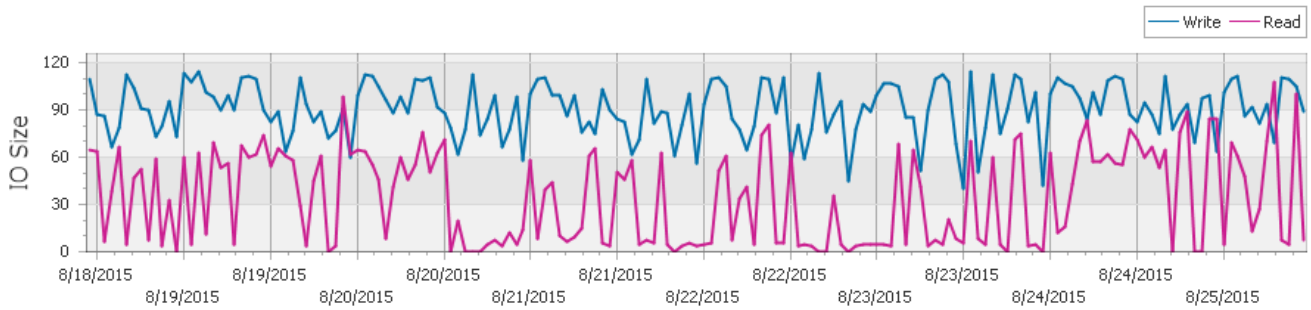
Total Local Capacity	419.00 GB
Free Local Capacity	330.00 GB (79%)
Used Local Capacity	89.00 GB (21%)

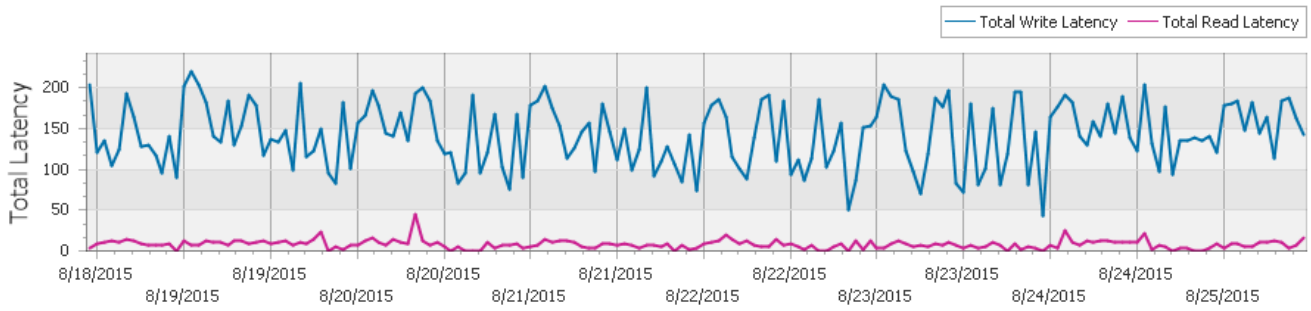
Performance Information

Peak Throughput	9.80 MB/s
Latency	46 ms reads and 220 ms writes
IOPS	11 at 95%, 26 at 99% and 137 at peak
Read/Write Ratio	17% / 83%
Average IO Size	Read: 9.30 KB / Write: 86.17 KB









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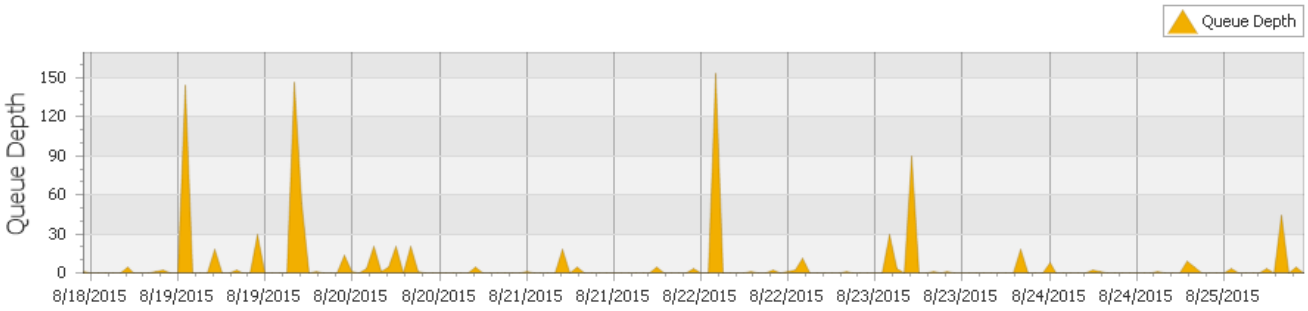

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Individual Local Disk Report: cciss!c0d0

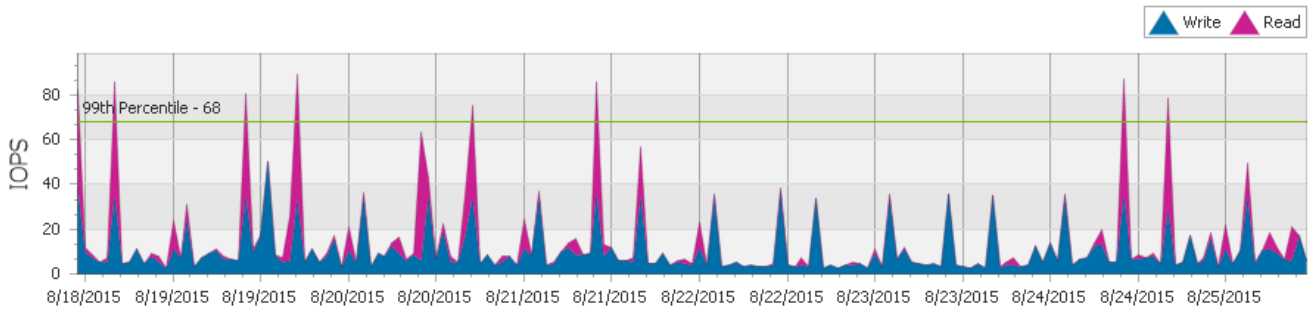
Server Name	adama8
Server Operating System	openSUSE 11.2 (x86_64)

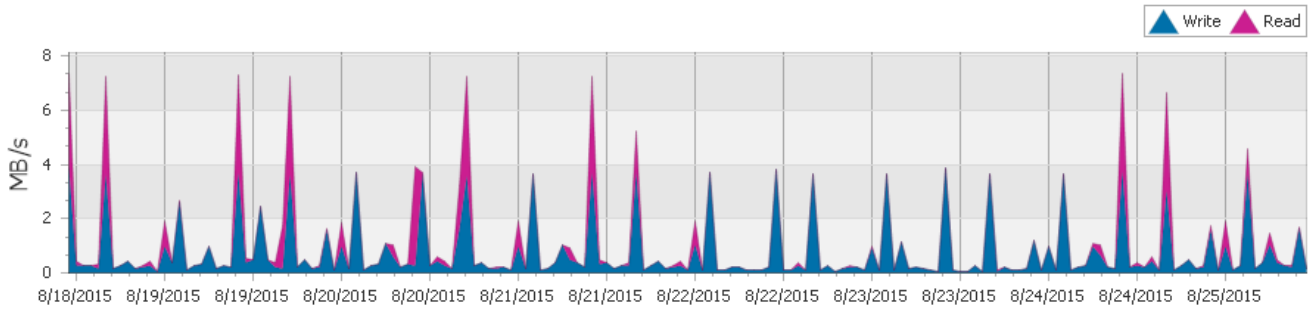
Capacity Information

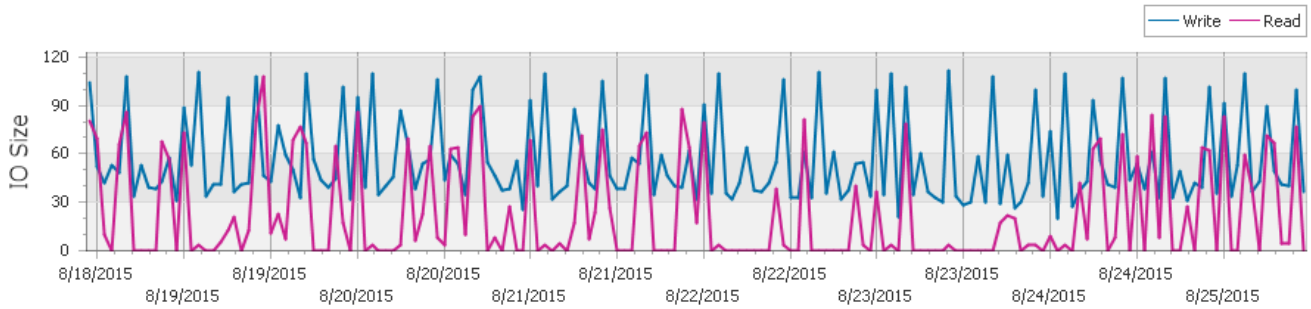
Total Local Capacity	100.00 GB
Free Local Capacity	61.00 GB (61%)
Used Local Capacity	39.00 GB (39%)

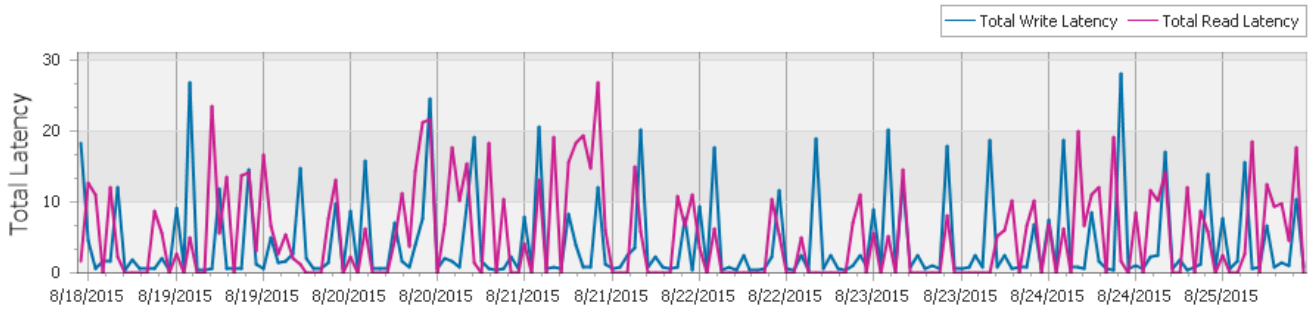
Performance Information

Peak Throughput	7.40 MB/s
Latency	27 ms reads and 39 ms writes
IOPS	6 at 95%, 19 at 99% and 90 at peak
Read/Write Ratio	19% / 81%
Average IO Size	Read: 9.78 KB / Write: 40.70 KB









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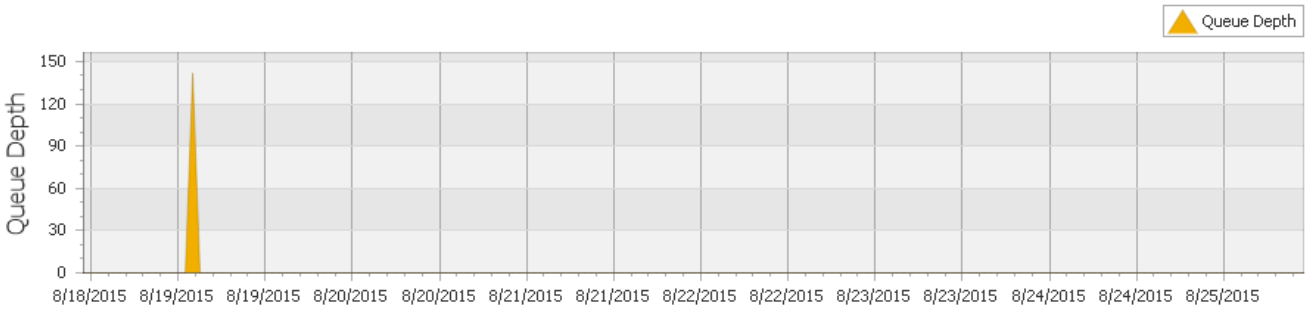

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Individual Local Disk Report: cciss!c0d0

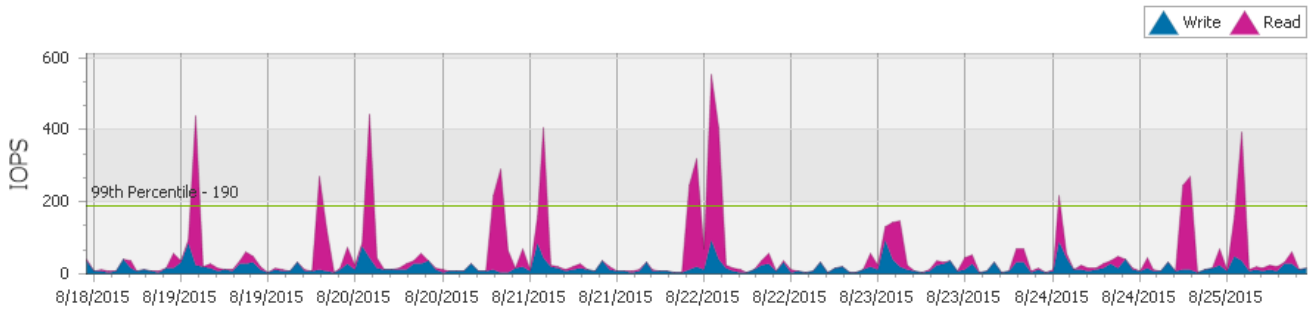
Server Name	franklin23
Server Operating System	openSUSE 11.2 (x86_64)

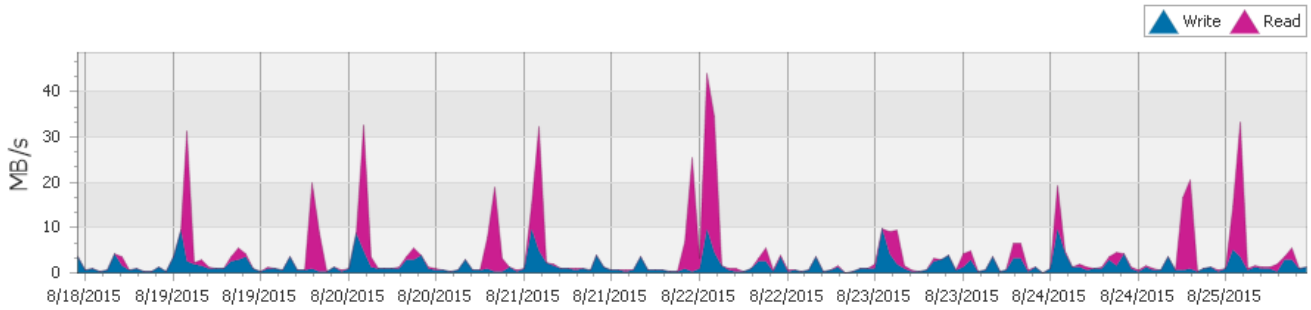
Capacity Information

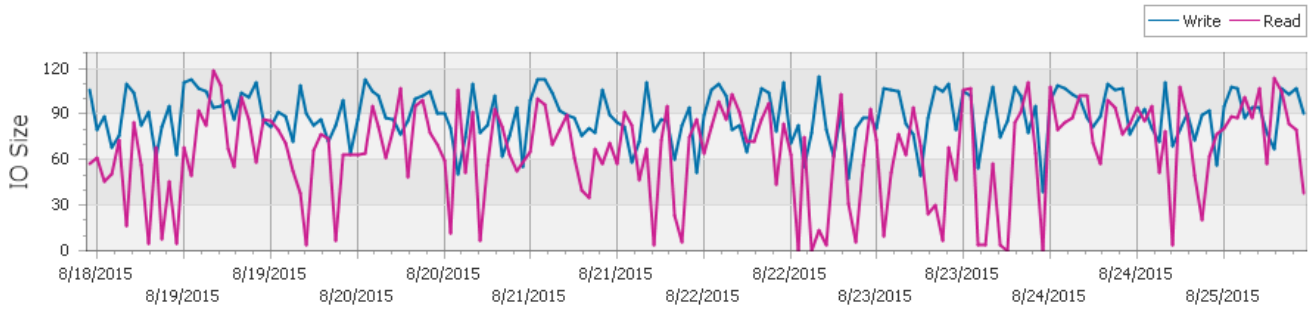
Total Local Capacity	137.00 GB
Free Local Capacity	50.00 GB (36%)
Used Local Capacity	87.00 GB (64%)

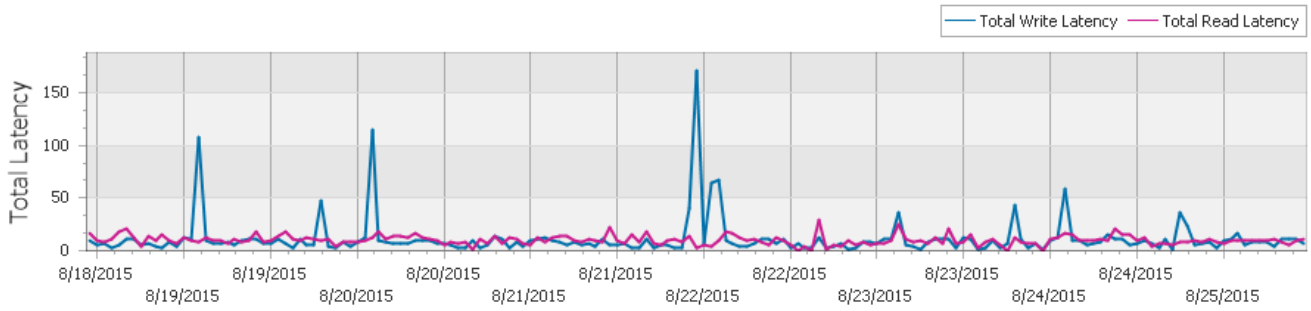
Performance Information

Peak Throughput	34.50 MB/s
Latency	30 ms reads and 171 ms writes
IOPS	28 at 95%, 190 at 99% and 464 at peak
Read/Write Ratio	83% / 17%
Average IO Size	Read: 39.28 KB / Write: 62.35 KB









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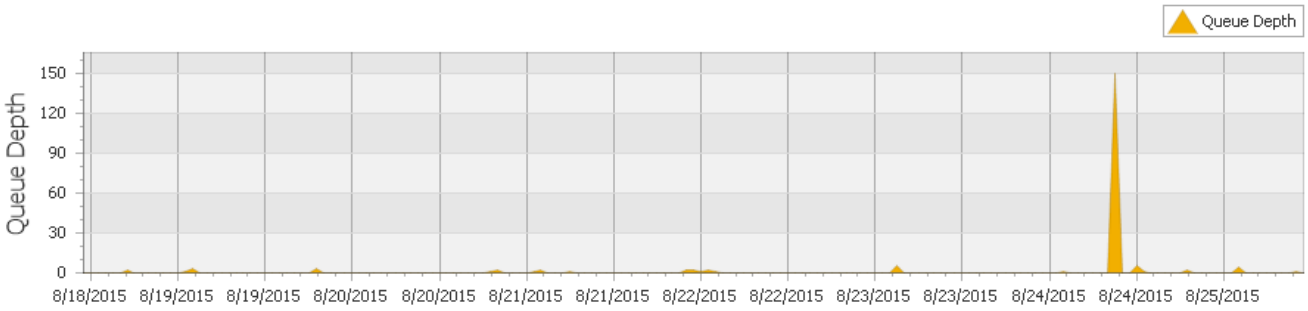

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Individual Local Disk Report: cciss!c0d0

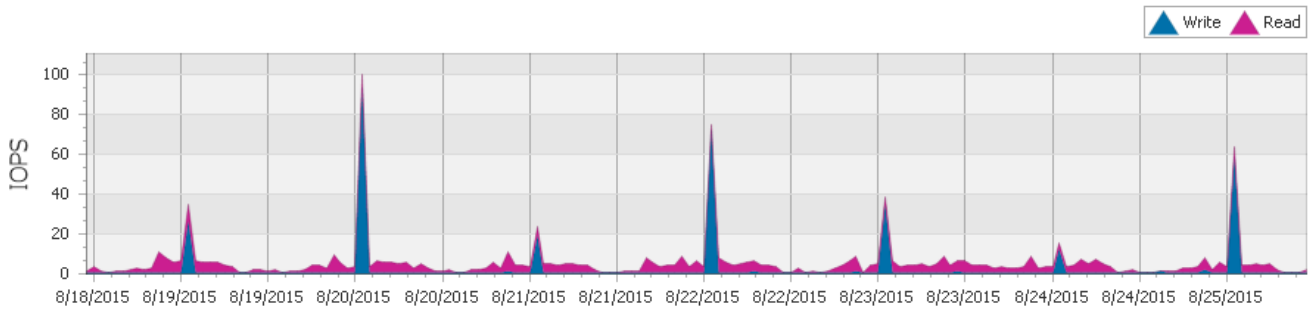
Server Name	frodo
Server Operating System	openSUSE 11.3 (x86_64)

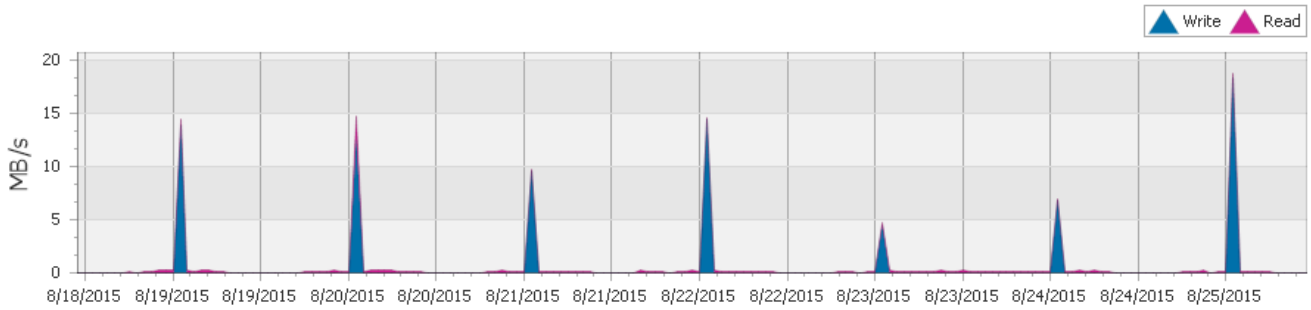
Capacity Information

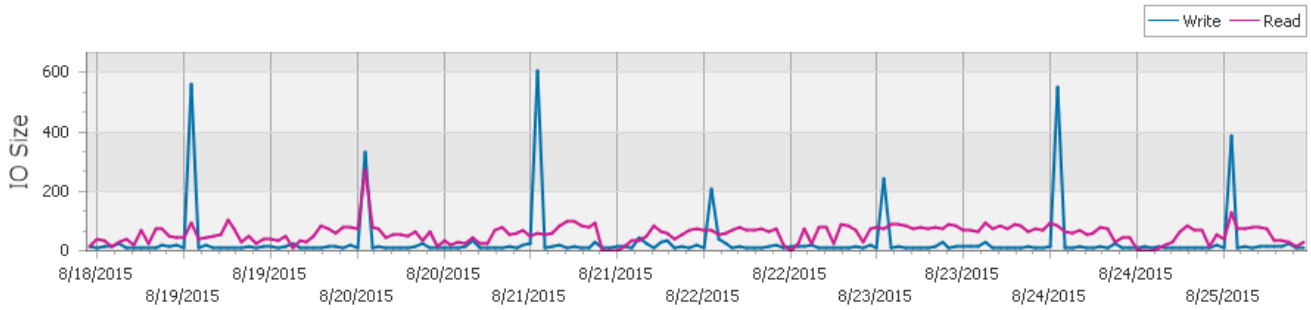
Total Local Capacity	32.00 GB
Free Local Capacity	22.00 GB (69%)
Used Local Capacity	10.00 GB (31%)

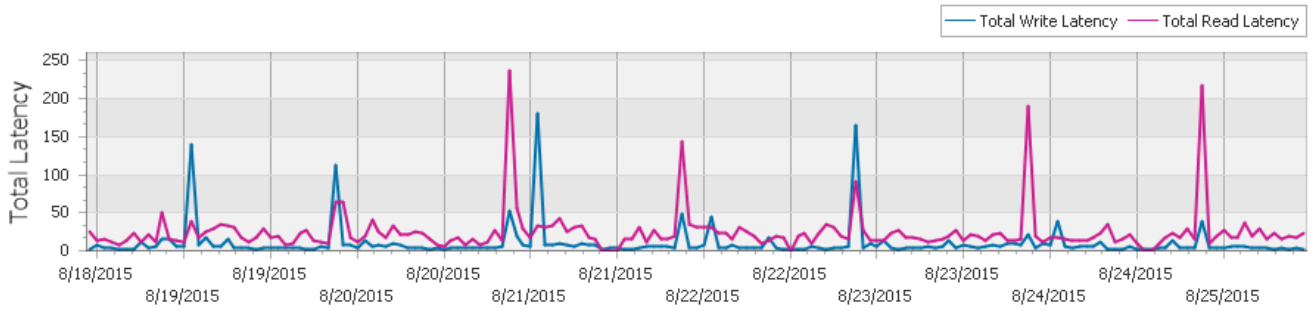
Performance Information

Peak Throughput	18.70 MB/s
Latency	156 ms reads and 605 ms writes
IOPS	4 at 95%, 6 at 99% and 101 at peak
Read/Write Ratio	73% / 27%
Average IO Size	Read: 43.62 KB / Write: 18.78 KB









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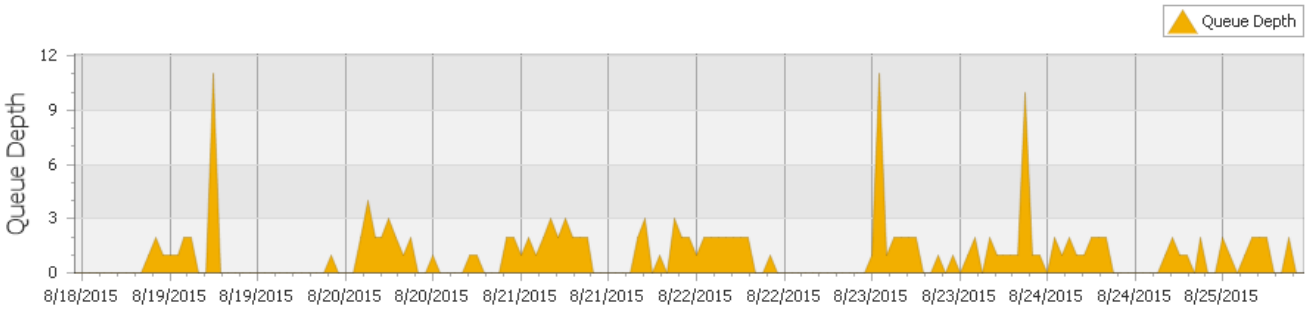

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Individual Local Disk Report: cciss!c0d0

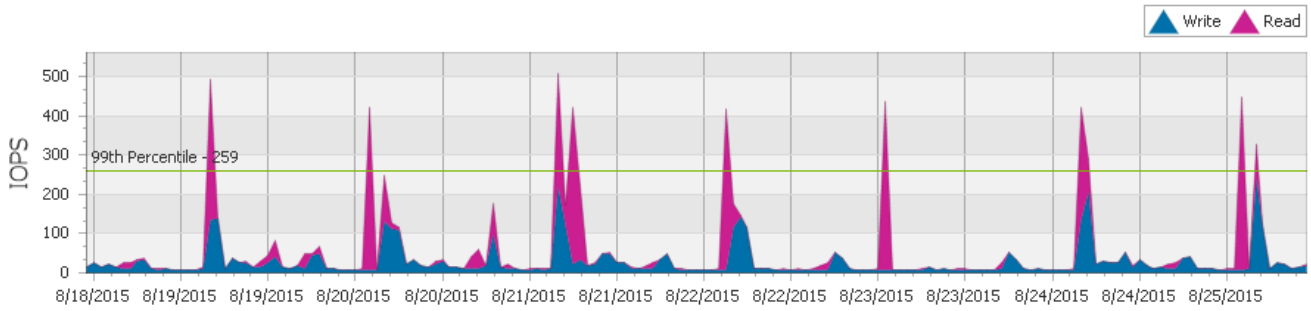
Server Name	adama5
Server Operating System	openSUSE 11.2 (x86_64)

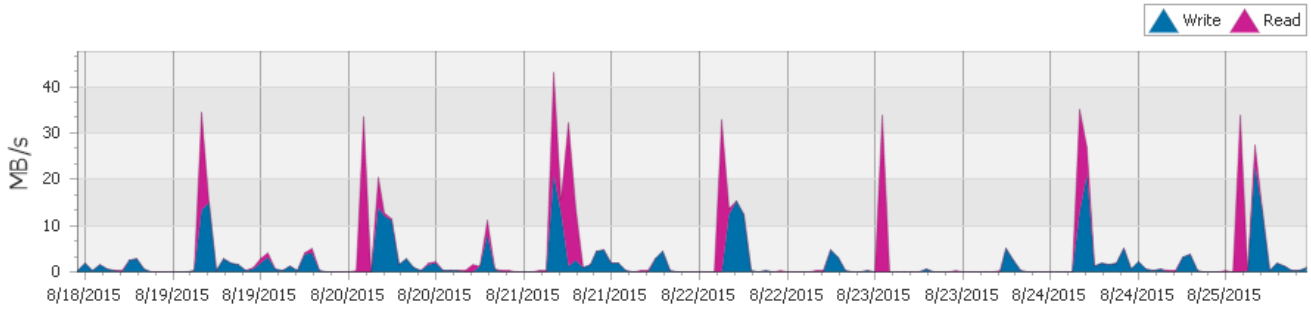
Capacity Information

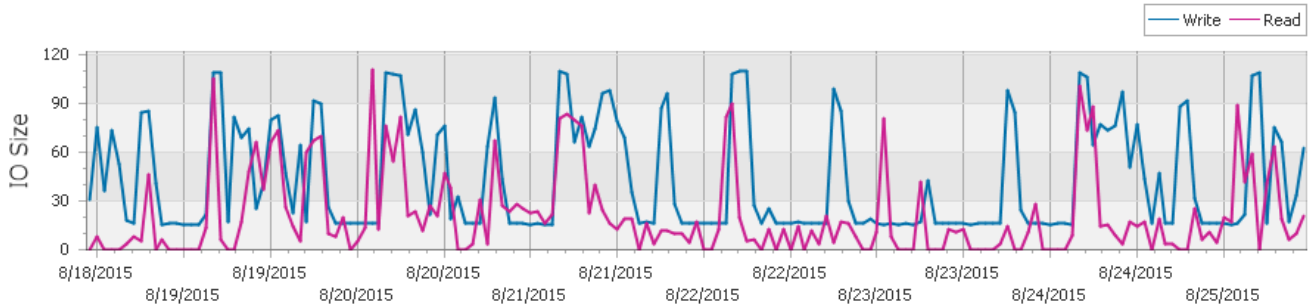
Total Local Capacity	137.00 GB
Free Local Capacity	125.00 GB (91%)
Used Local Capacity	12.00 GB (9%)

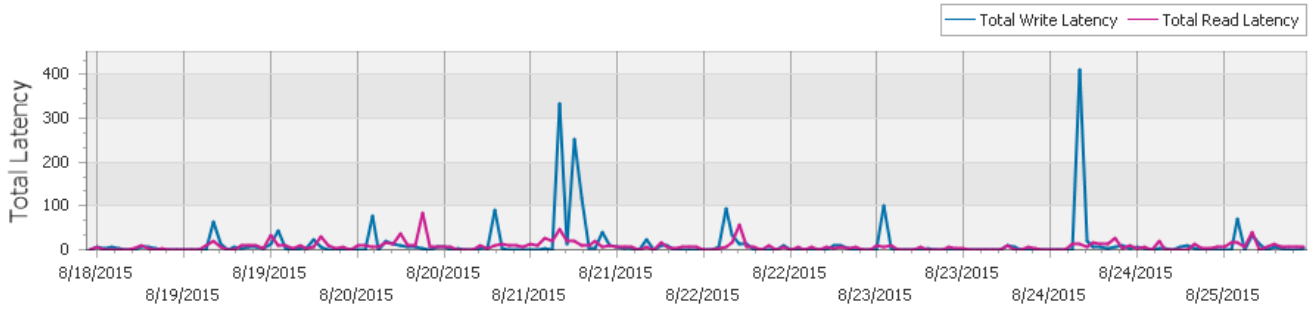
Performance Information

Peak Throughput	33.90 MB/s
Latency	84 ms reads and 455 ms writes
IOPS	25 at 95%, 106 at 99% and 445 at peak
Read/Write Ratio	28% / 72%
Average IO Size	Read: 12.43 KB / Write: 68.48 KB









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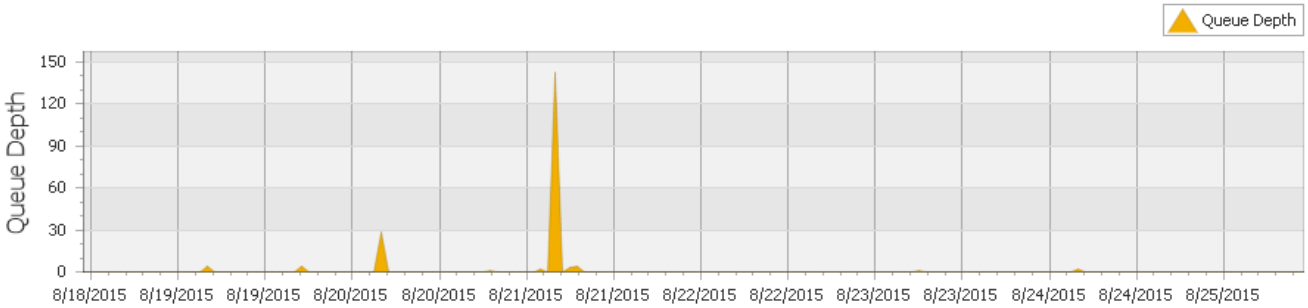

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Individual Local Disk Report: cciss!c0d0

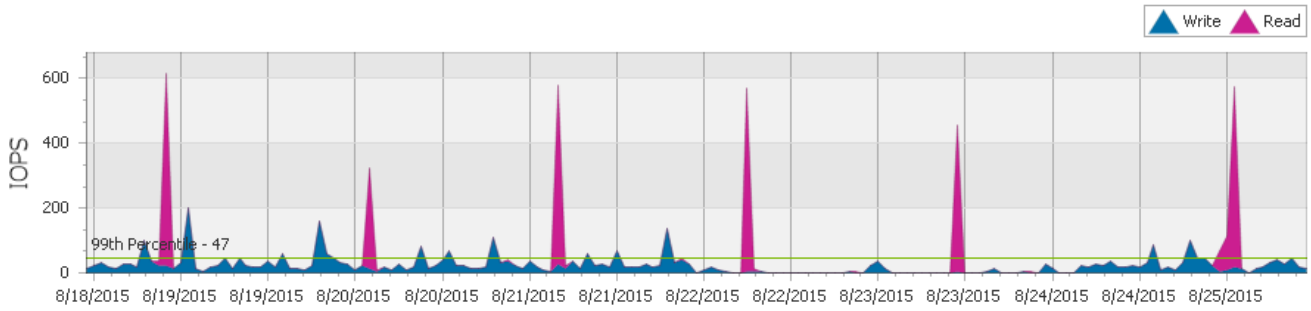
Server Name	red-b
Server Operating System	openSUSE 11.3 (x86_64)

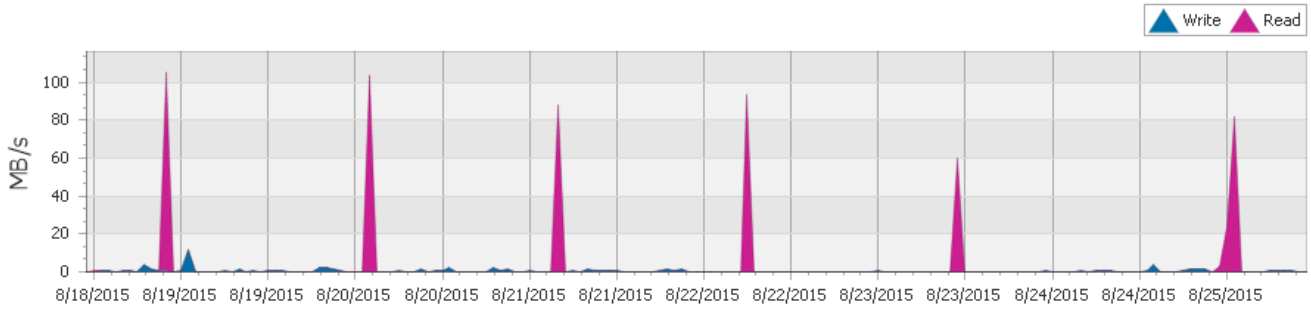
Capacity Information

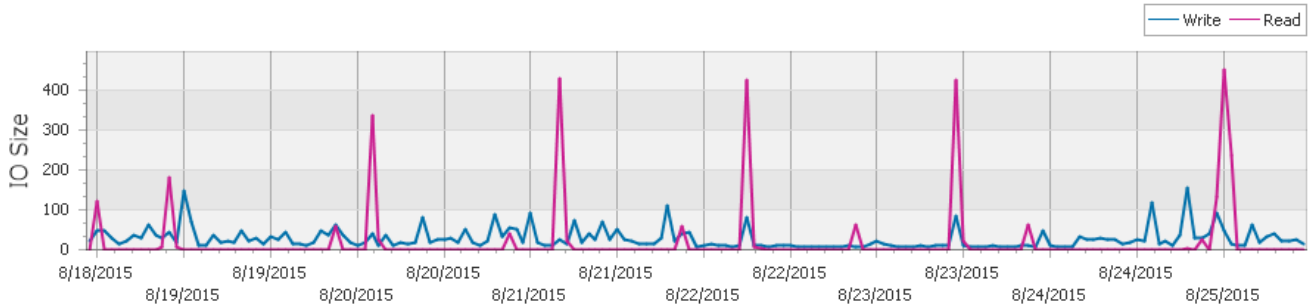
Total Local Capacity	3.18 TB
Free Local Capacity	2.42 TB (76%)
Used Local Capacity	784.00 GB (24%)

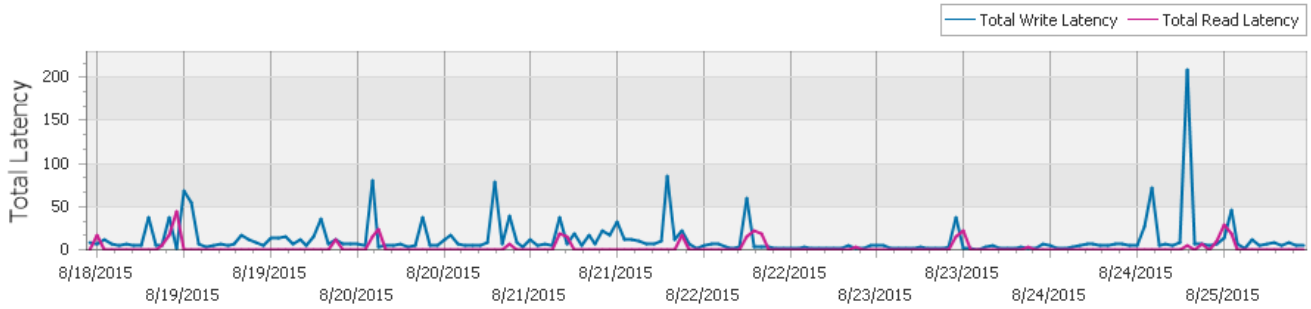
Performance Information

Peak Throughput	105.10 MB/s
Latency	44 ms reads and 209 ms writes
IOPS	19 at 95%, 47 at 99% and 596 at peak
Read/Write Ratio	35% / 65%
Average IO Size	Read: 10.50 KB / Write: 19.23 KB









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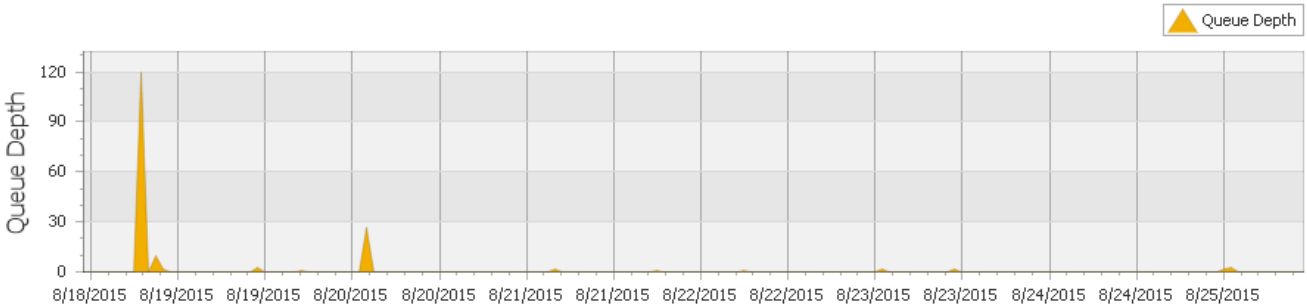

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Individual Local Disk Report: cciss!c0d0

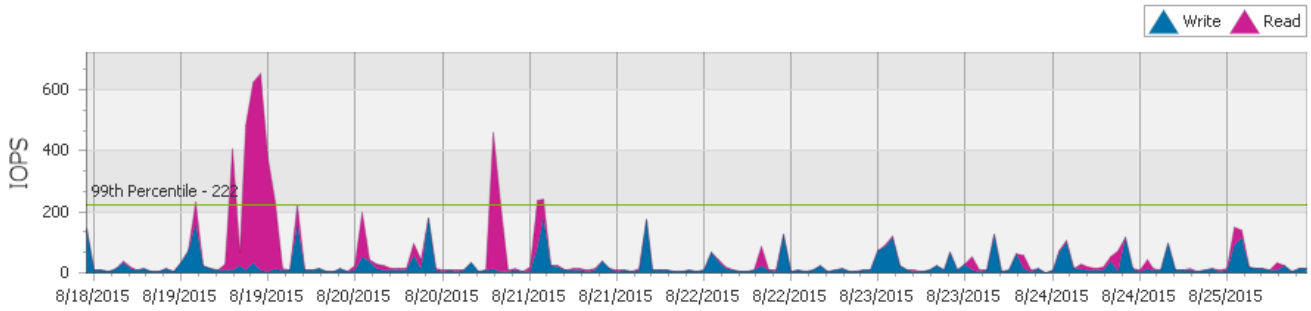
Server Name	franklin33
Server Operating System	openSUSE 11.2 (x86_64)

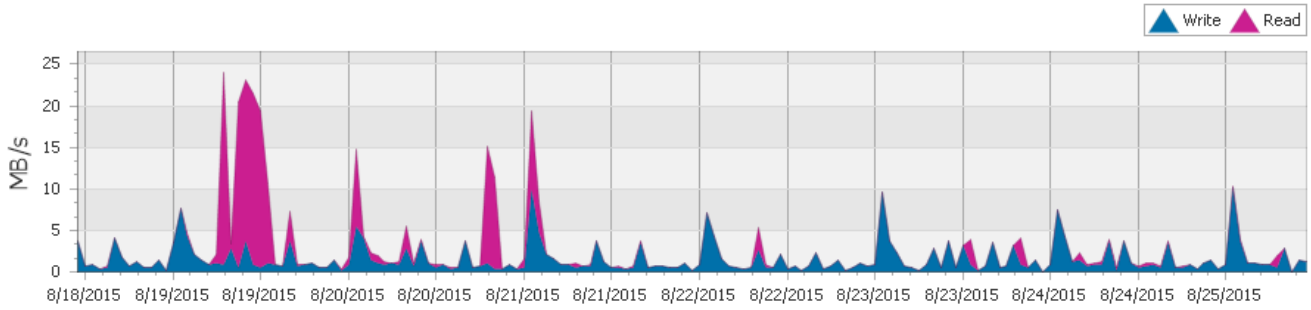
Capacity Information

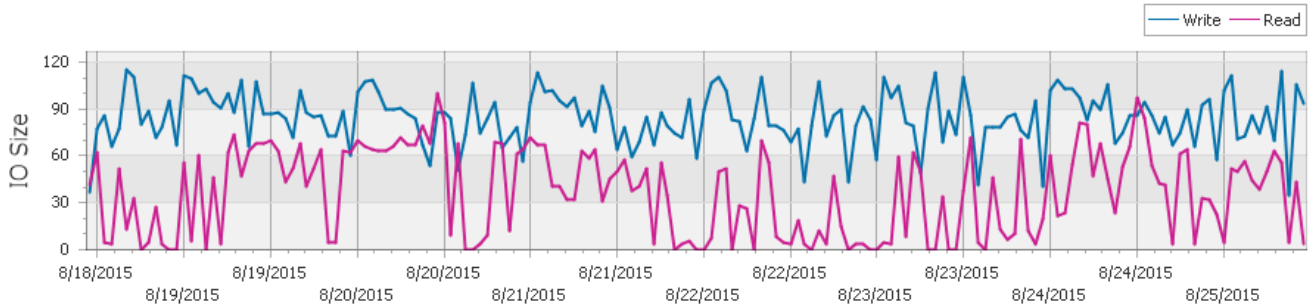
Total Local Capacity	419.00 GB
Free Local Capacity	325.00 GB (78%)
Used Local Capacity	94.00 GB (22%)

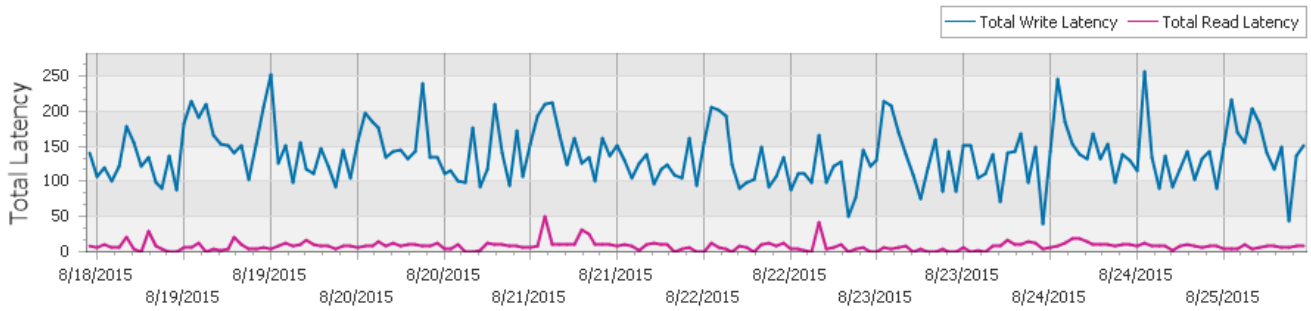
Performance Information

Peak Throughput	23.20 MB/s
Latency	50 ms reads and 256 ms writes
IOPS	15 at 95%, 222 at 99% and 648 at peak
Read/Write Ratio	82% / 18%
Average IO Size	Read: 24.50 KB / Write: 65.17 KB









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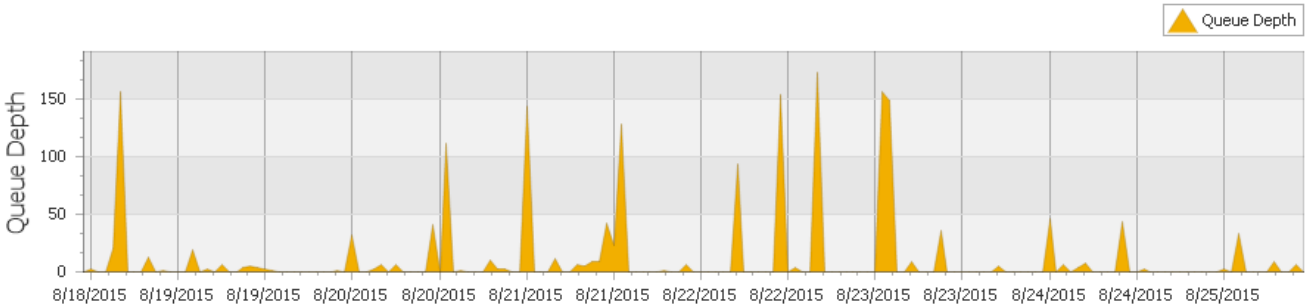

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Individual Local Disk Report: cciss!c0d0

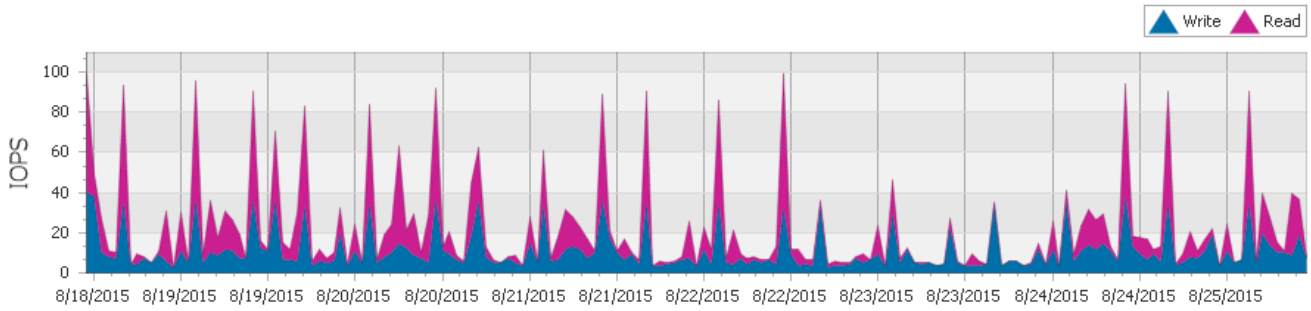
Server Name	adama09
Server Operating System	openSUSE 11.2 (x86_64)

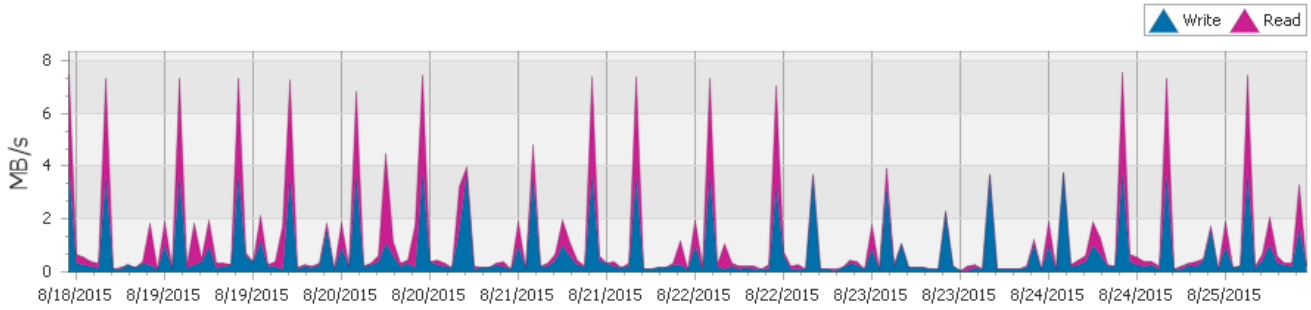
Capacity Information

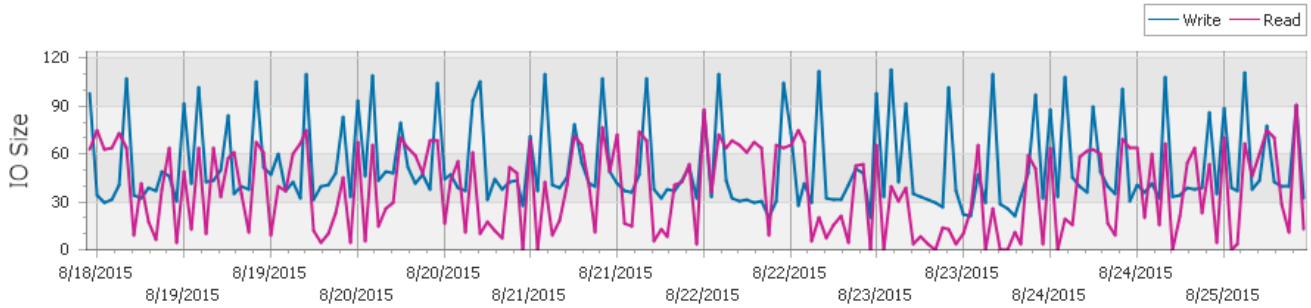
Total Local Capacity	100.00 GB
Free Local Capacity	17.00 GB (17%)
Used Local Capacity	83.00 GB (83%)

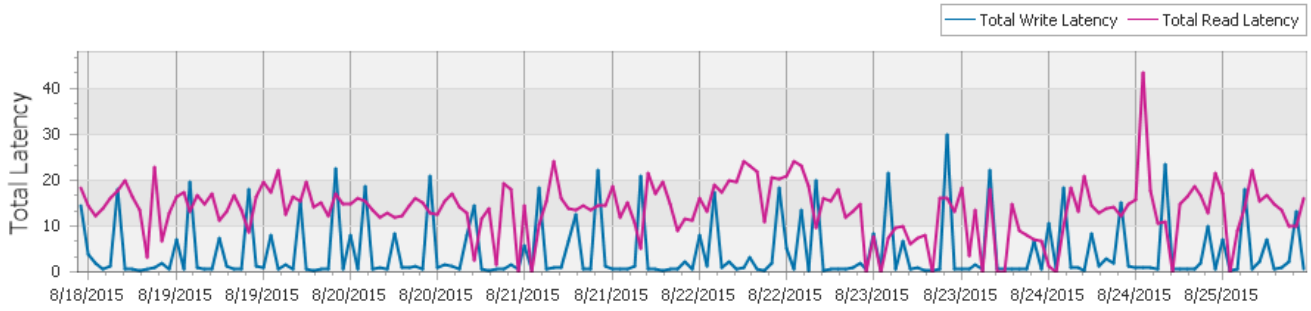
Performance Information

Peak Throughput	7.60 MB/s
Latency	24 ms reads and 237 ms writes
IOPS	11 at 95%, 29 at 99% and 100 at peak
Read/Write Ratio	44% / 56%
Average IO Size	Read: 26.18 KB / Write: 36.22 KB









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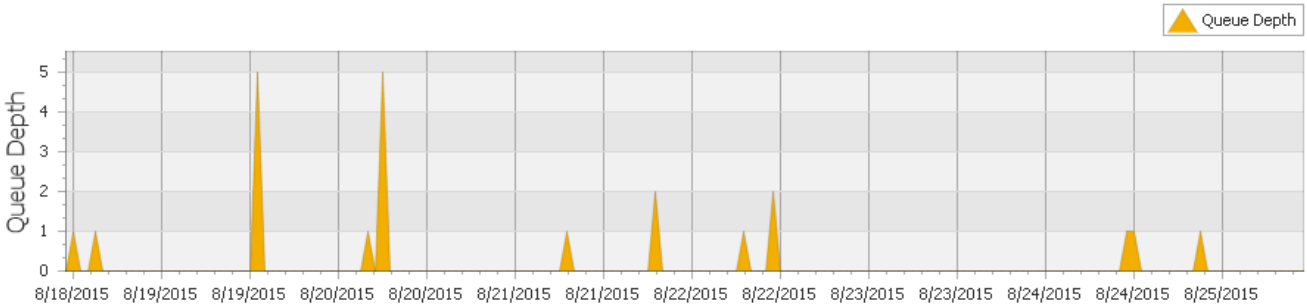

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Individual Local Disk Report: cciss!c0d0

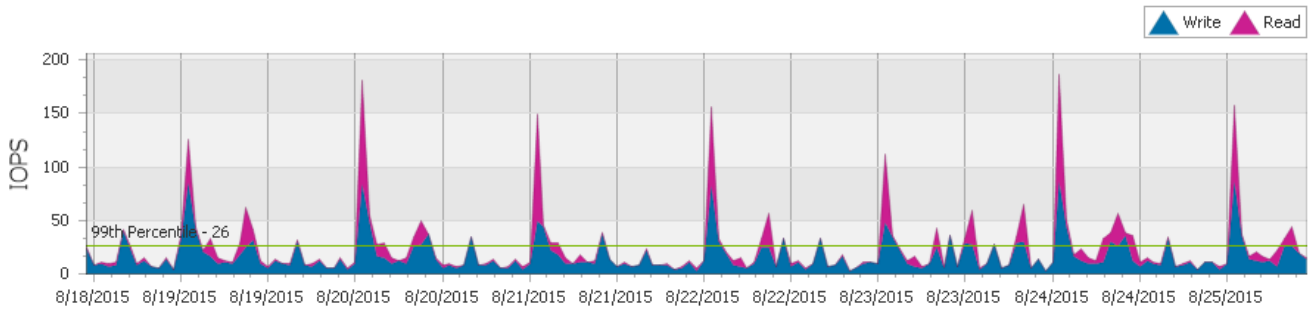
Server Name	franklin13
Server Operating System	openSUSE 11.2 (x86_64)

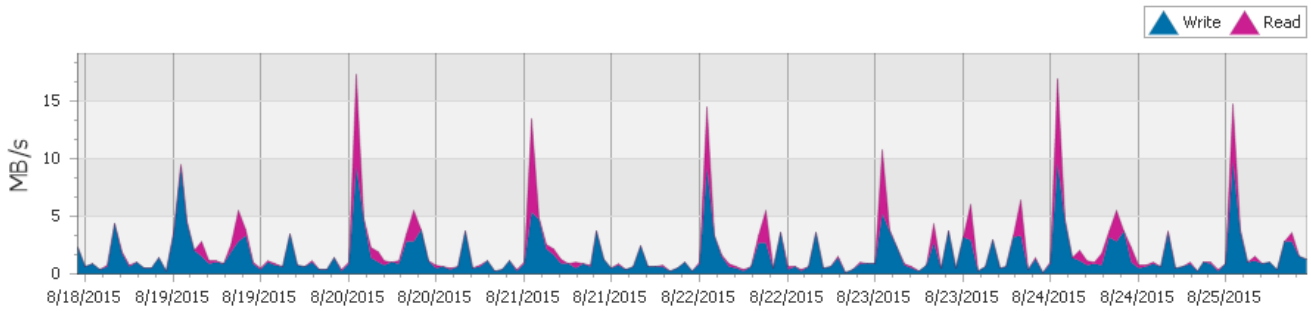
Capacity Information

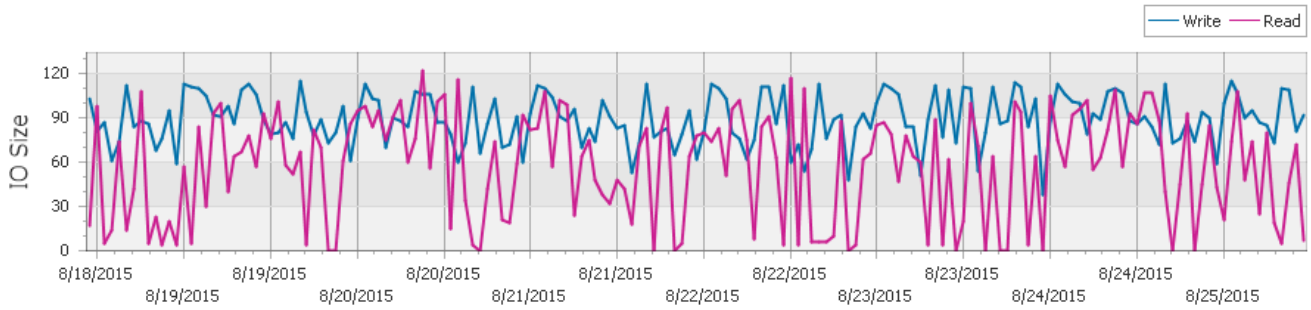
Total Local Capacity	137.00 GB
Free Local Capacity	46.00 GB (34%)
Used Local Capacity	91.00 GB (66%)

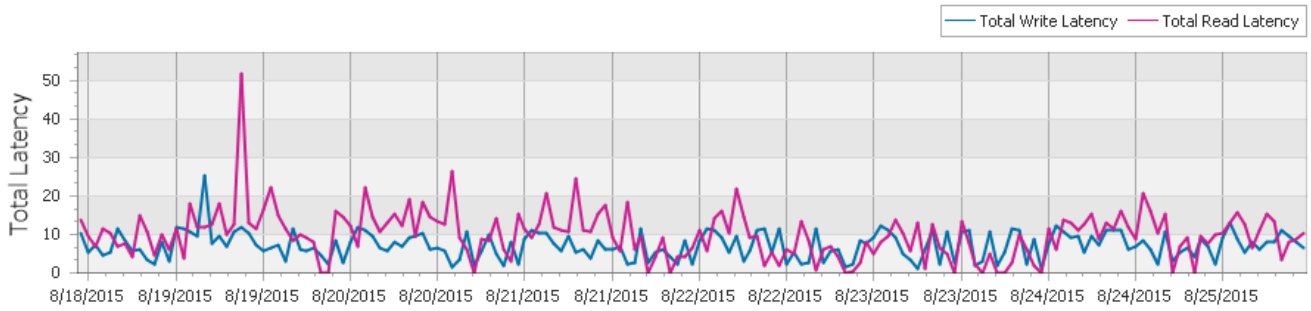
Performance Information

Peak Throughput	17.40 MB/s
Latency	52 ms reads and 25 ms writes
IOPS	11 at 95%, 26 at 99% and 187 at peak
Read/Write Ratio	18% / 82%
Average IO Size	Read: 17.88 KB / Write: 85.58 KB









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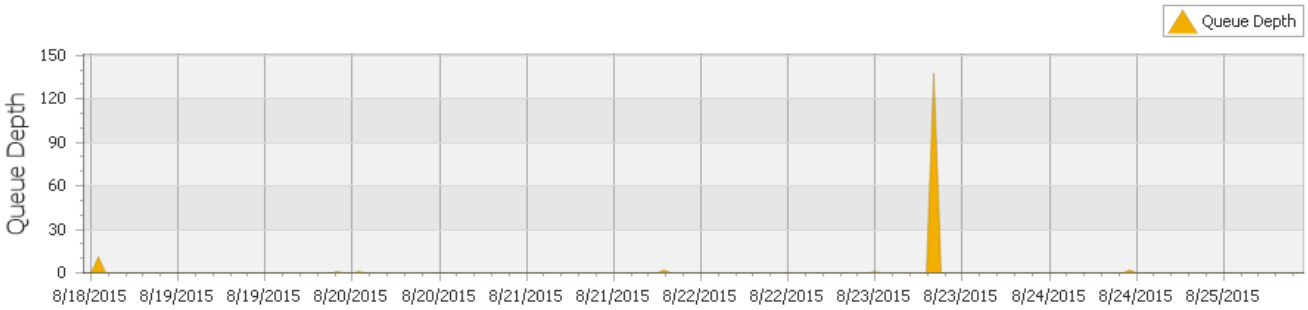

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Individual Local Disk Report: cciss!c0d0

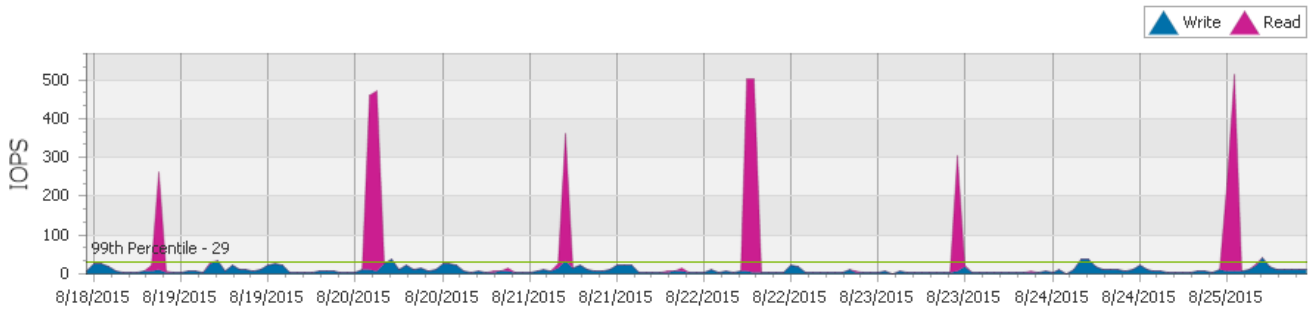
Server Name	red-a-new
Server Operating System	openSUSE 11.3 (x86_64)

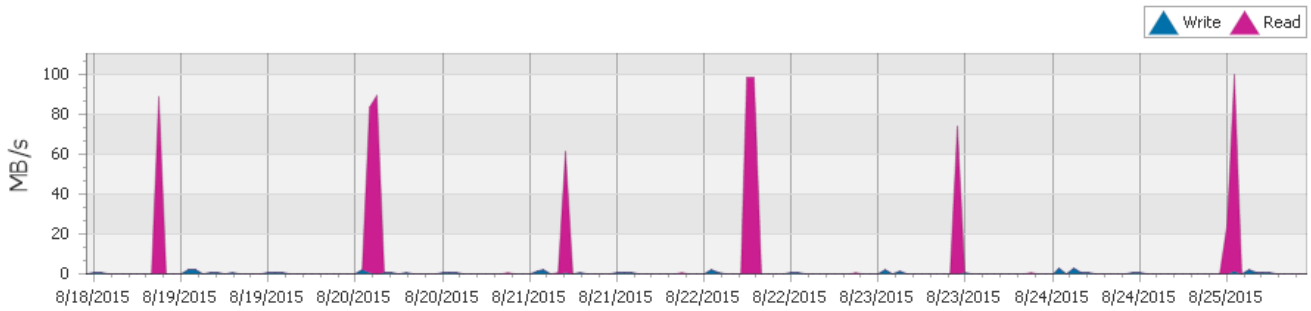
Capacity Information

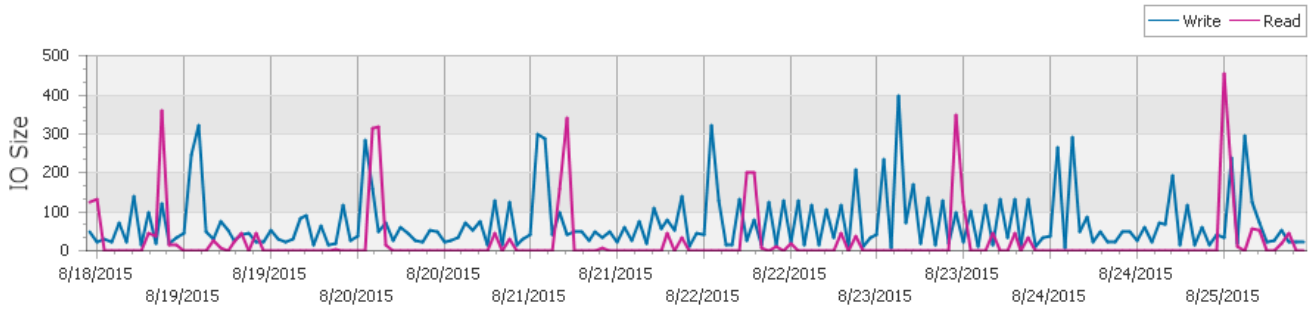
Total Local Capacity	3.18 TB
Free Local Capacity	2.42 TB (76%)
Used Local Capacity	786.00 GB (24%)

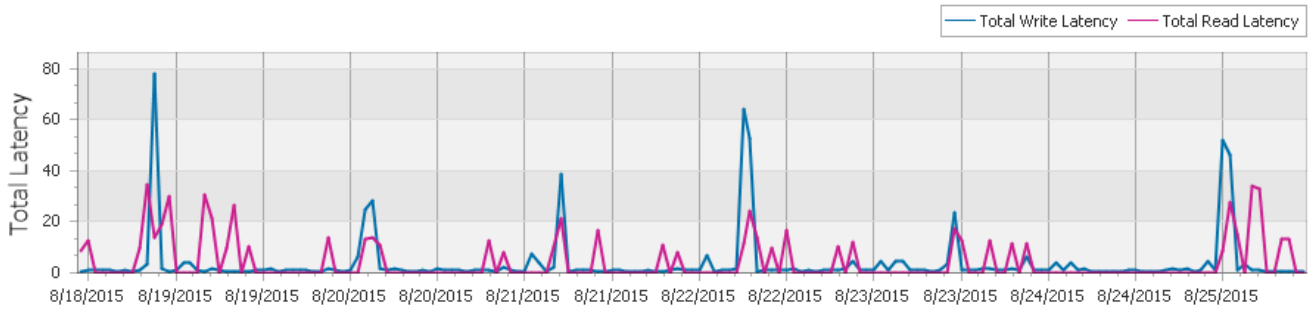
Performance Information

Peak Throughput	98.60 MB/s
Latency	35 ms reads and 78 ms writes
IOPS	12 at 95%, 29 at 99% and 508 at peak
Read/Write Ratio	51% / 49%
Average IO Size	Read: 14.37 KB / Write: 27.86 KB









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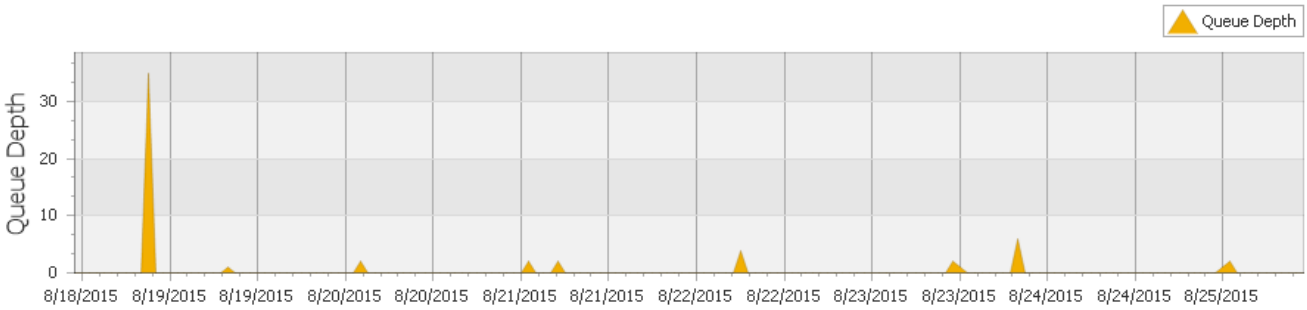

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Individual Local Disk Report: cciss!c0d0

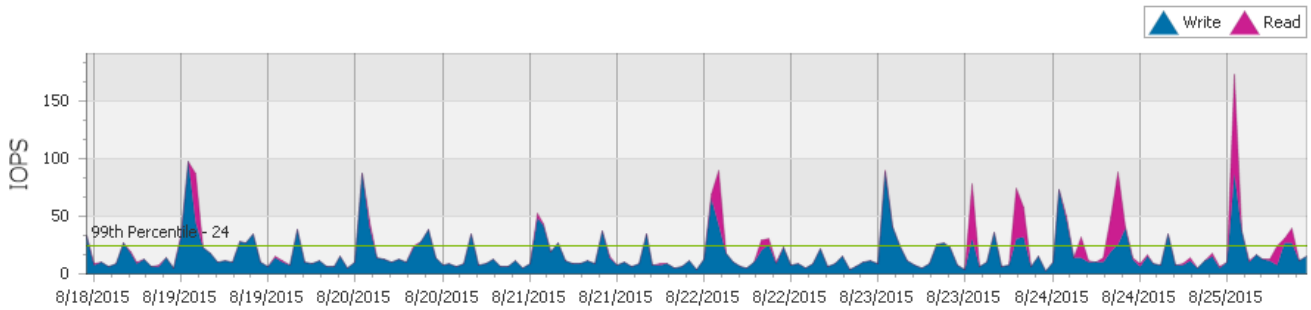
Server Name	franklin31
Server Operating System	openSUSE 11.2 (x86_64)

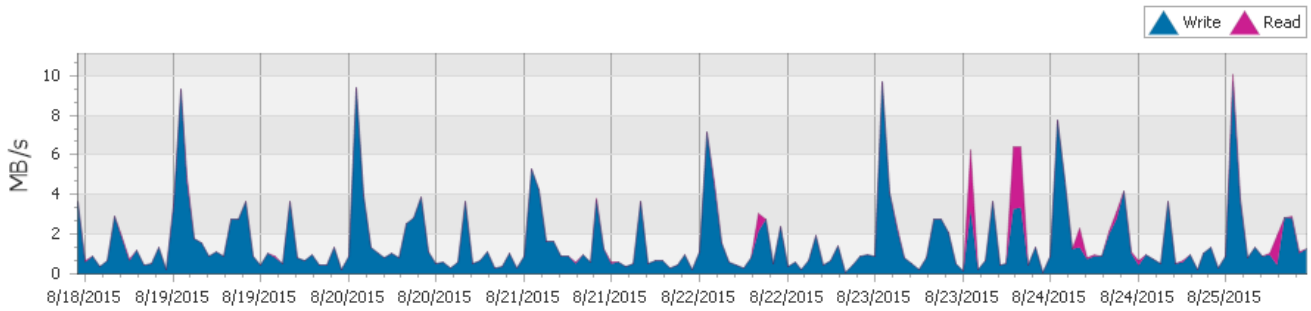
Capacity Information

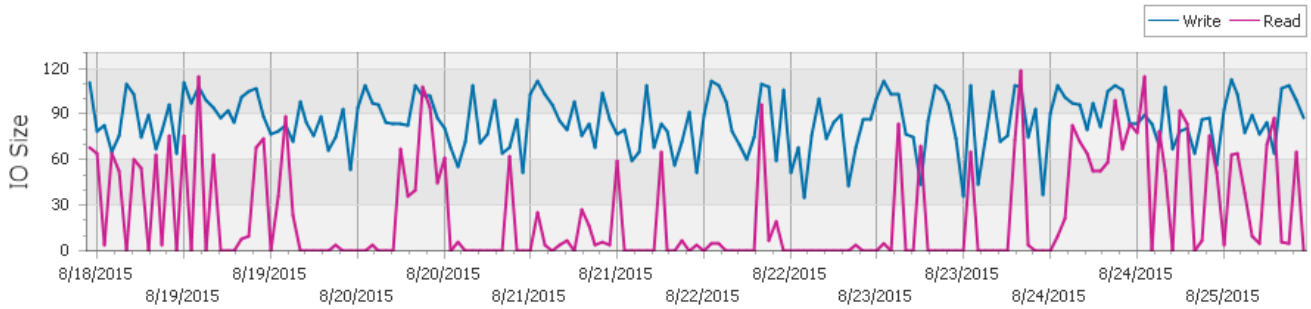
Total Local Capacity	137.00 GB
Free Local Capacity	46.00 GB (34%)
Used Local Capacity	91.00 GB (66%)

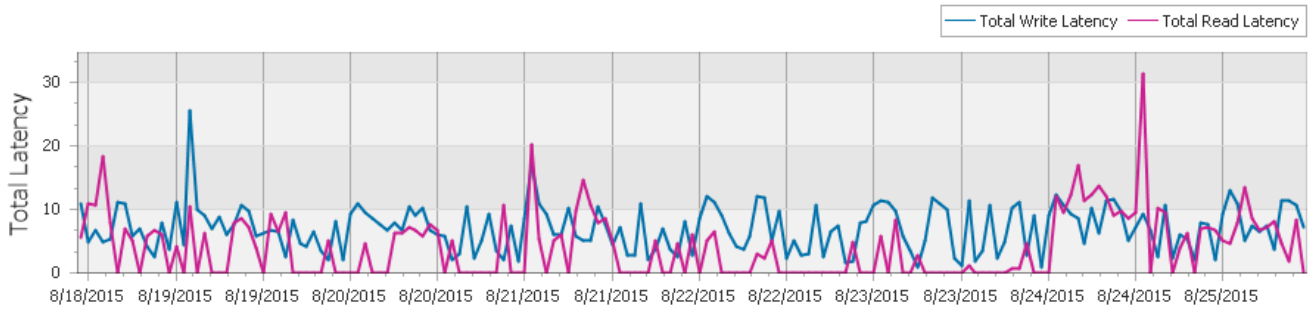
Performance Information

Peak Throughput	10.10 MB/s
Latency	32 ms reads and 26 ms writes
IOPS	10 at 95%, 24 at 99% and 174 at peak
Read/Write Ratio	8% / 92%
Average IO Size	Read: 3.54 KB / Write: 83.90 KB









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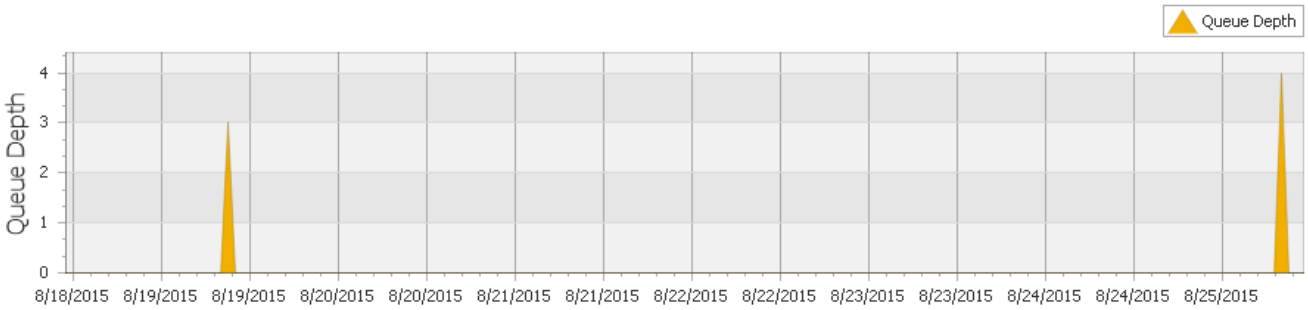

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Individual Local Disk Report: cciss!c0d0

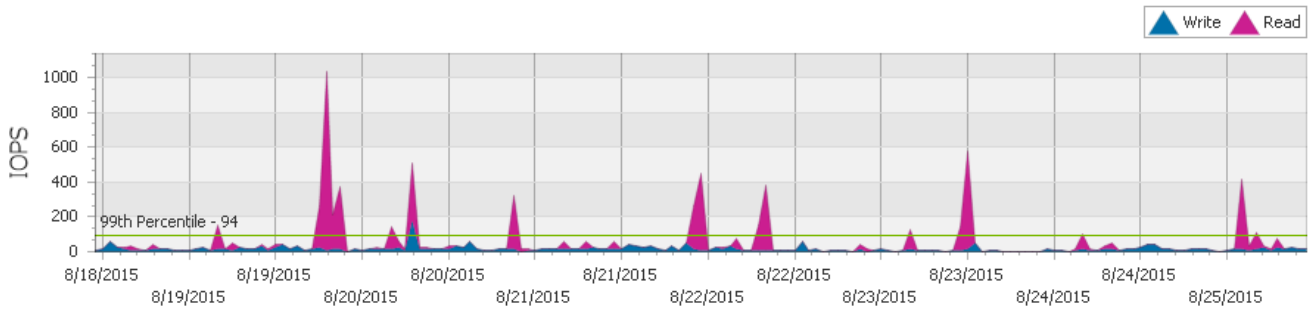
Server Name	interface
Server Operating System	5.0.4

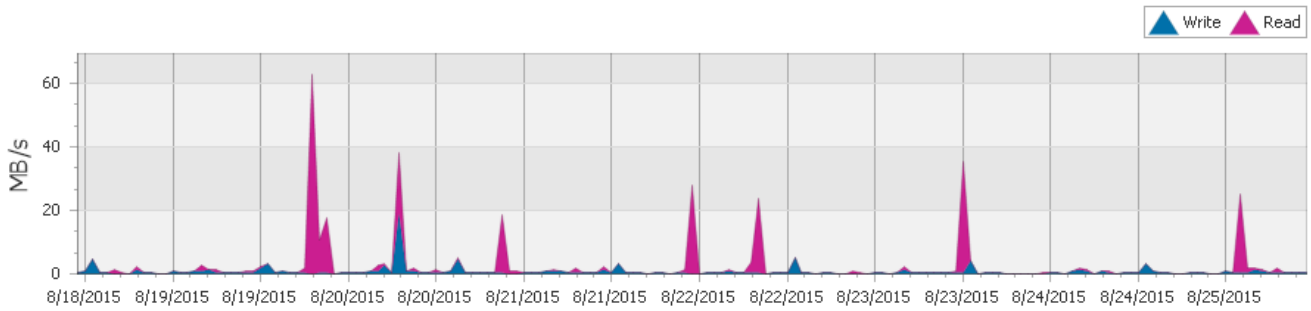
Capacity Information

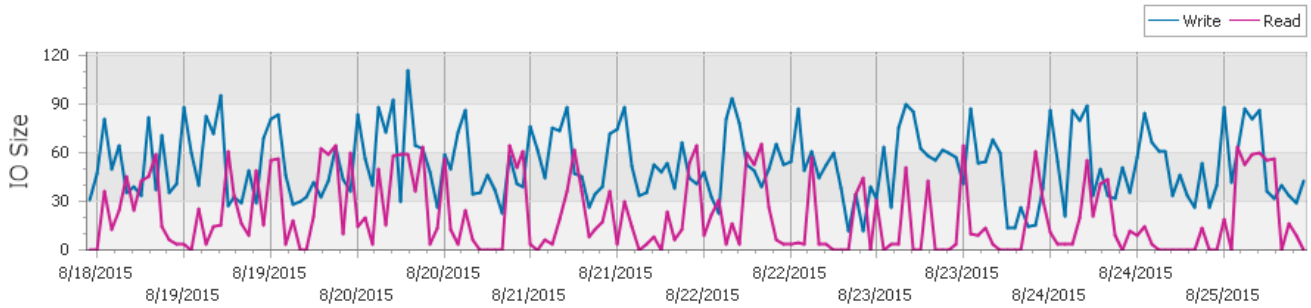
Total Local Capacity	137.00 GB
Free Local Capacity	59.00 GB (43%)
Used Local Capacity	78.00 GB (57%)

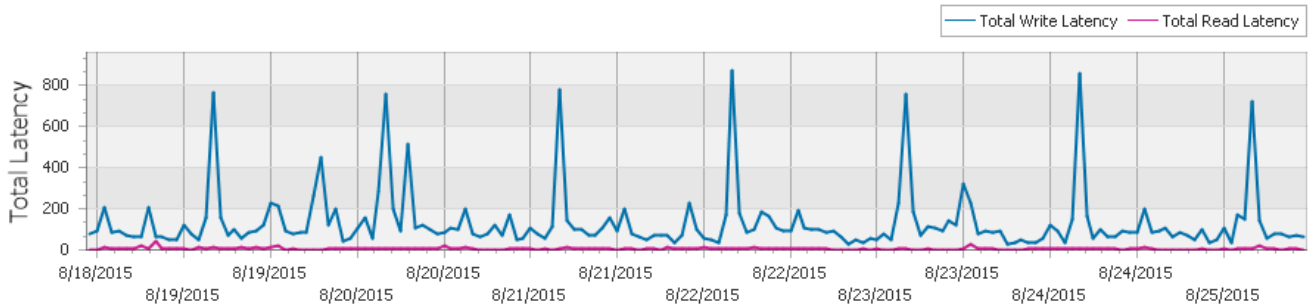
Performance Information

Peak Throughput	62.80 MB/s
Latency	43 ms reads and 874 ms writes
IOPS	16 at 95%, 94 at 99% and 1025 at peak
Read/Write Ratio	67% / 33%
Average IO Size	Read: 12.52 KB / Write: 26.22 KB









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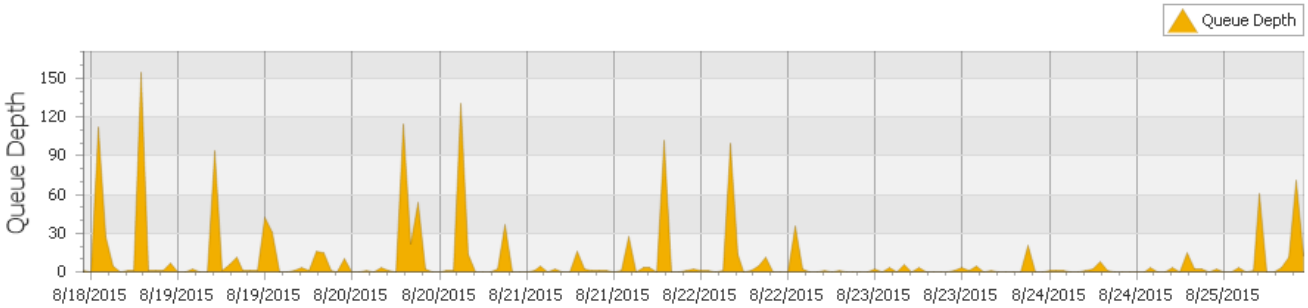

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Individual Local Disk Report: cciss!c0d0

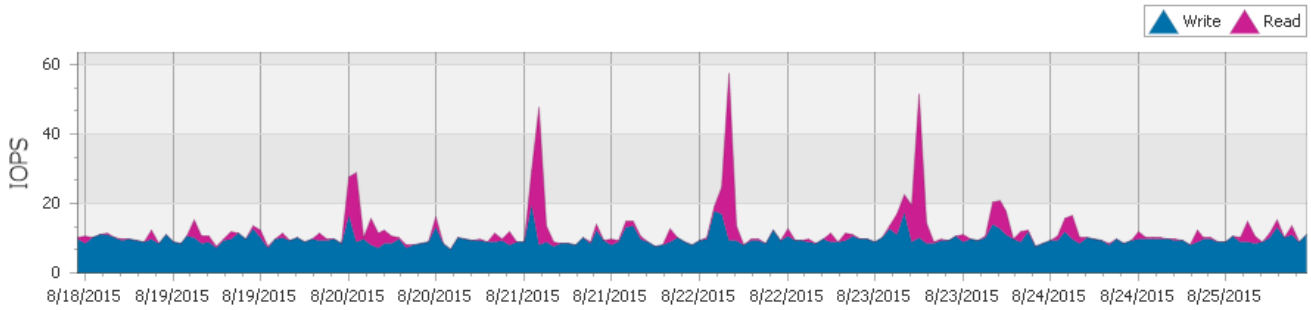
Server Name	sapqas
Server Operating System	SUSE Linux Enterprise Server 11 (x86_64)

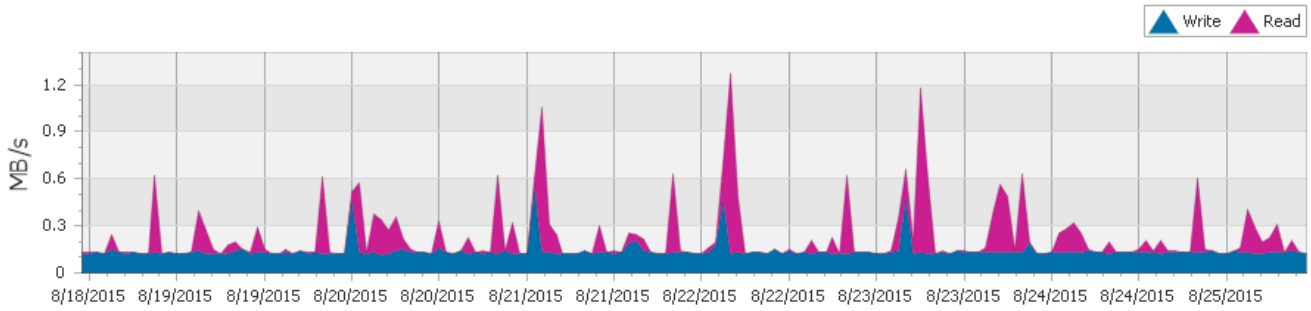
Capacity Information

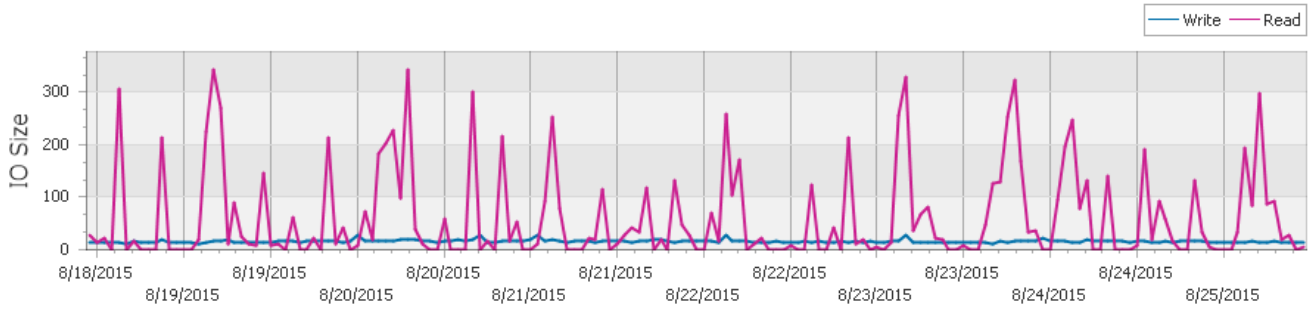
Total Local Capacity	838.00 GB
Free Local Capacity	414.00 GB (49%)
Used Local Capacity	424.00 GB (51%)

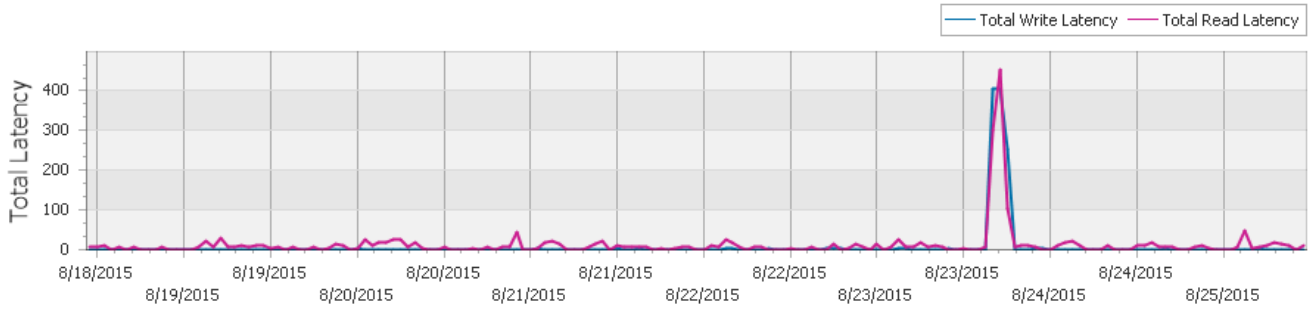
Performance Information

Peak Throughput	1.20 MB/s
Latency	52 ms reads and 72521 ms writes
IOPS	9 at 95%, 13 at 99% and 54 at peak
Read/Write Ratio	19% / 81%
Average IO Size	Read: 20.55 KB / Write: 11.43 KB









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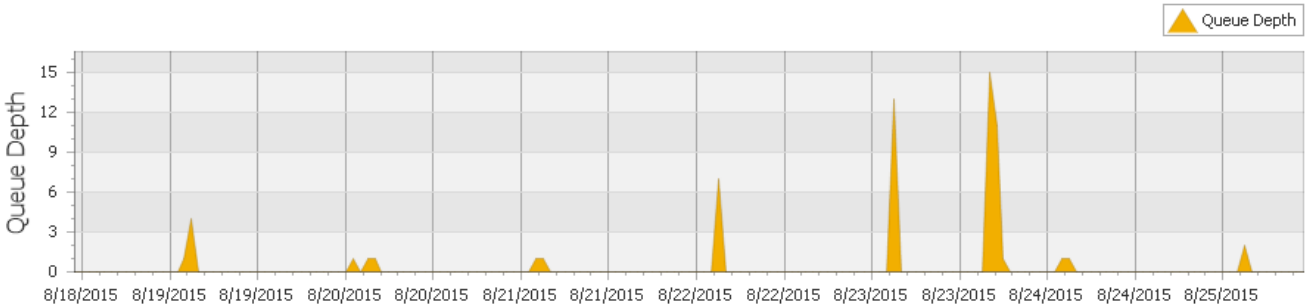

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Individual Local Disk Report: cciss!c0d0

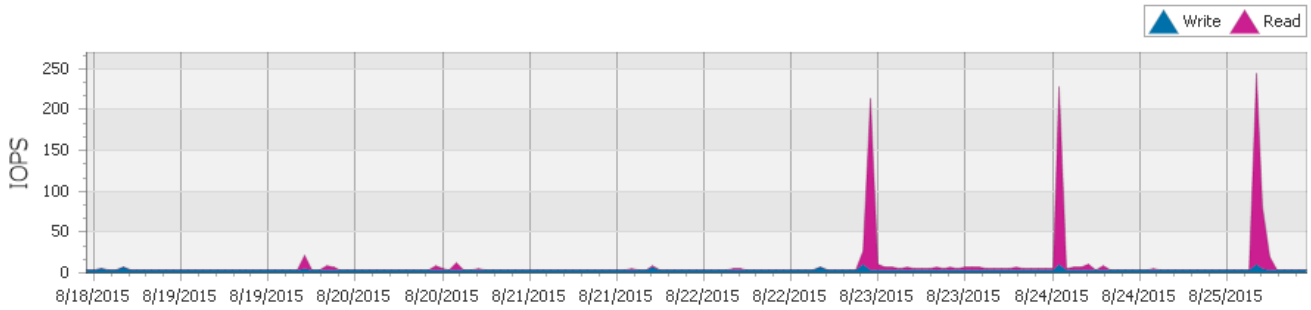
Server Name	sapcon1
Server Operating System	SUSE Linux Enterprise Server 11 (x86_64)

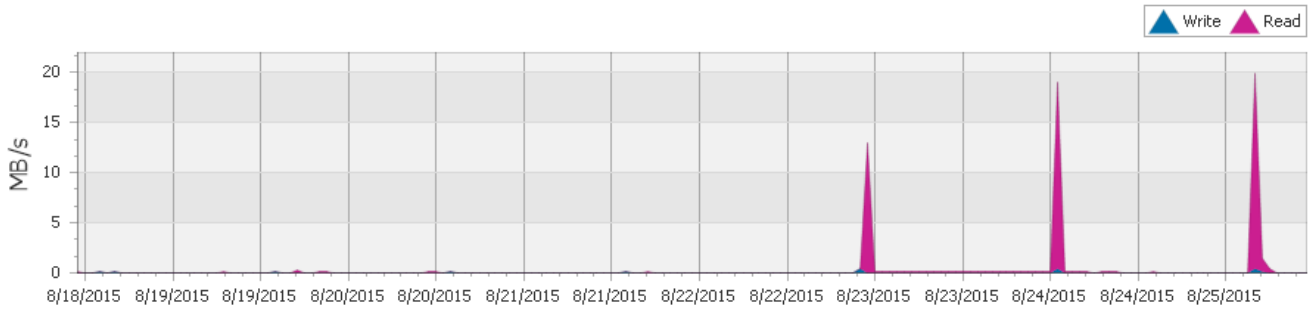
Capacity Information

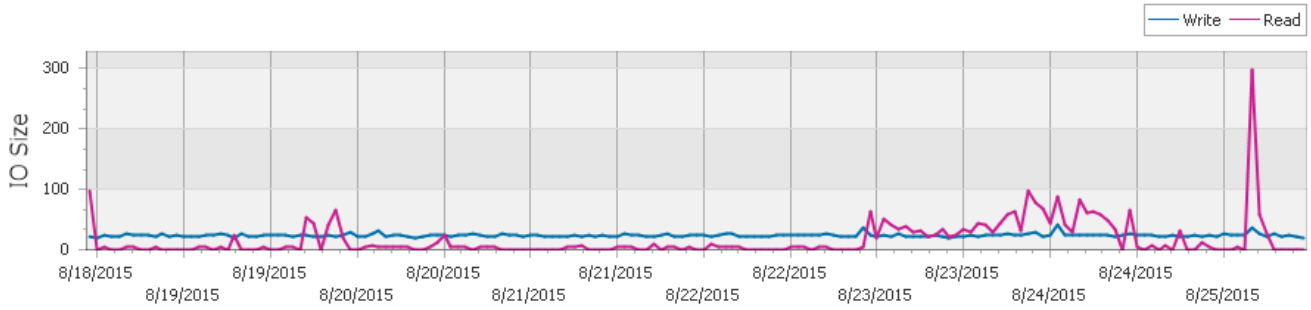
Total Local Capacity	419.00 GB
Free Local Capacity	410.00 GB (98%)
Used Local Capacity	9.00 GB (2%)

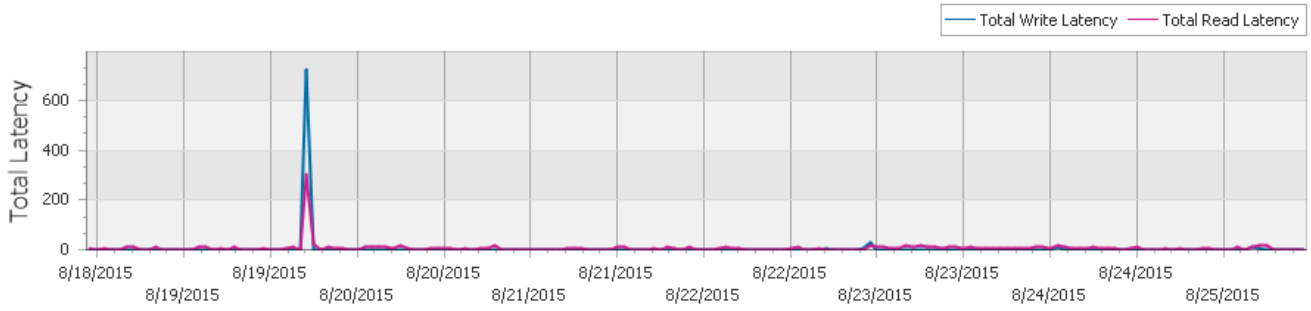
Performance Information

Peak Throughput	19.60 MB/s
Latency	98 ms reads and 86742 ms writes
IOPS	5 at 95%, 12 at 99% and 236 at peak
Read/Write Ratio	65% / 35%
Average IO Size	Read: 18.45 KB / Write: 18.10 KB









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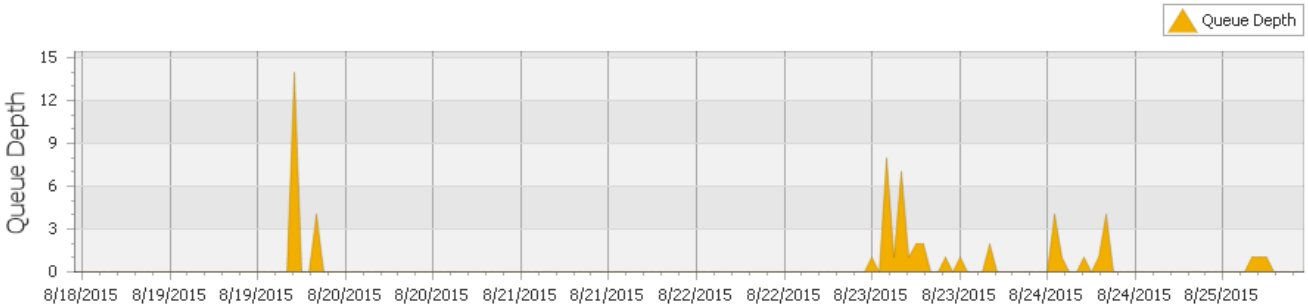

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Individual Local Disk Report: cciss!c0d0

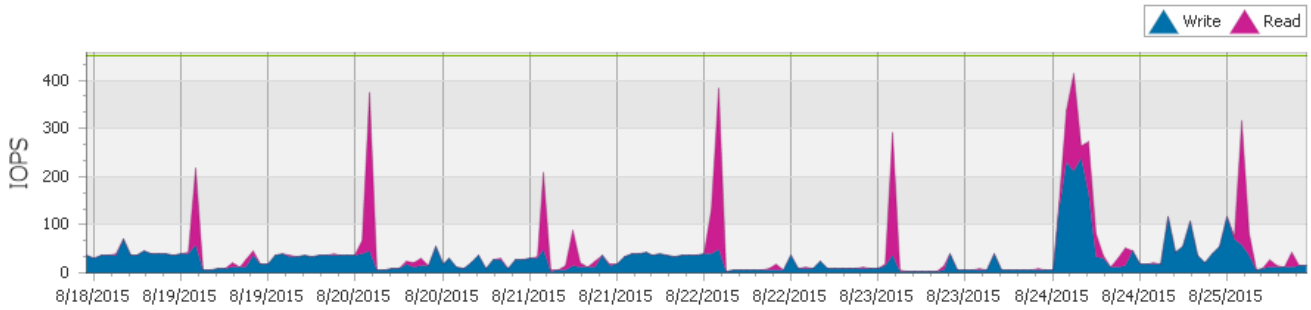
Server Name	adama10
Server Operating System	openSUSE 11.2 (x86_64)

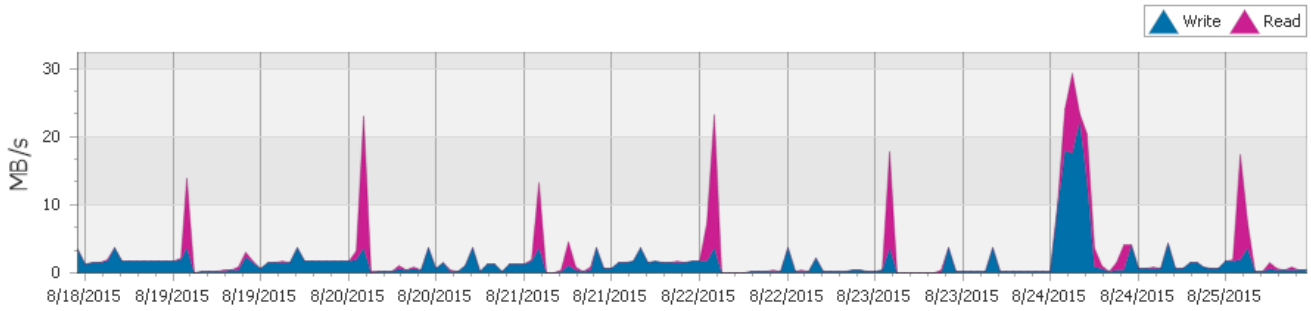
Capacity Information

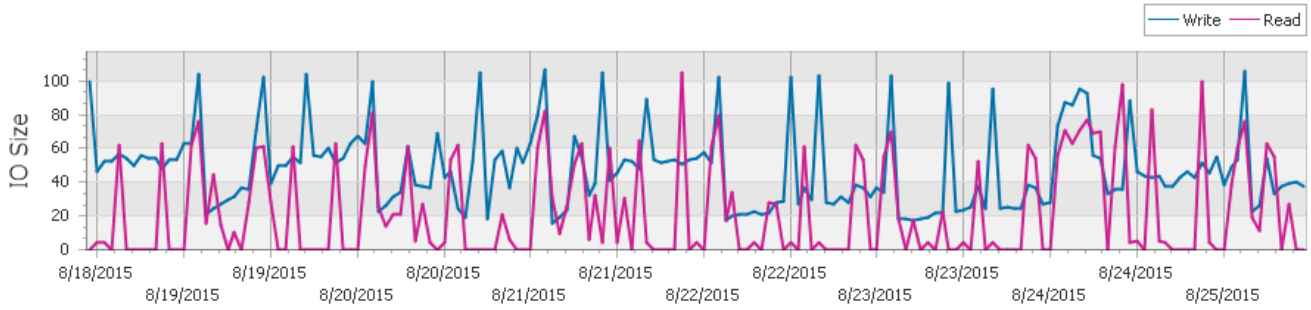
Total Local Capacity	137.00 GB
Free Local Capacity	122.00 GB (89%)
Used Local Capacity	15.00 GB (11%)

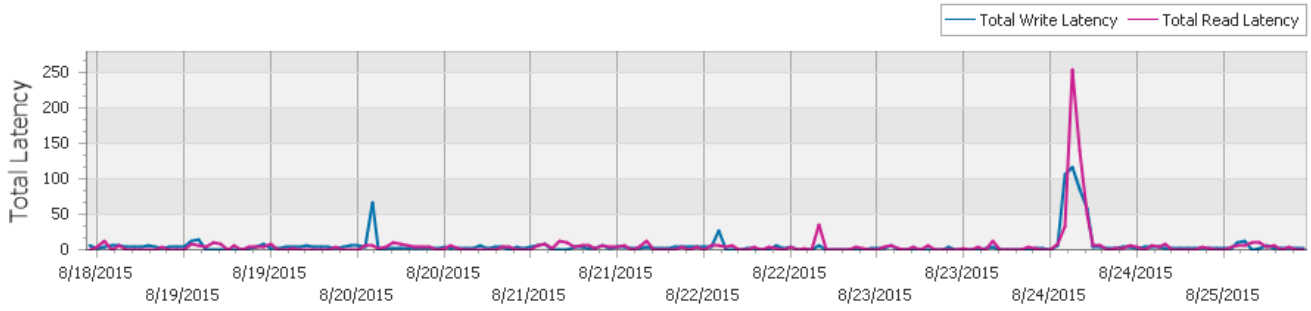
Performance Information

Peak Throughput	22.40 MB/s
Latency	112 ms reads and 399 ms writes
IOPS	37 at 95%, 141 at 99% and 378 at peak
Read/Write Ratio	25% / 75%
Average IO Size	Read: 14.60 KB / Write: 48.55 KB









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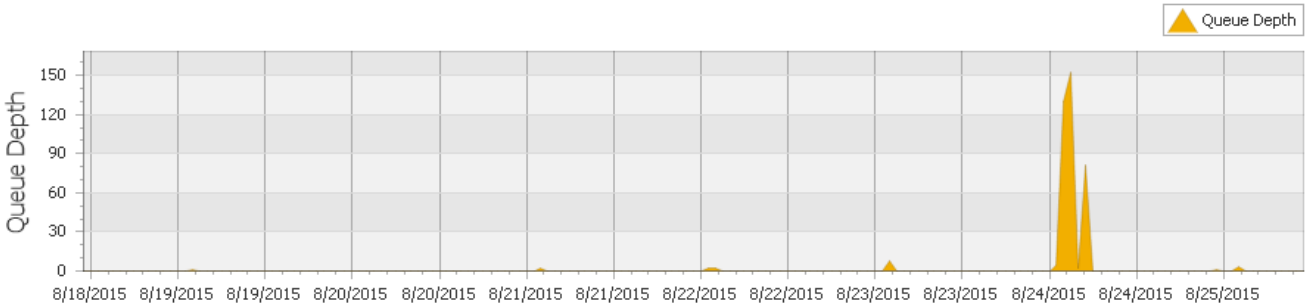

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Individual Local Disk Report: cciss!c0d0

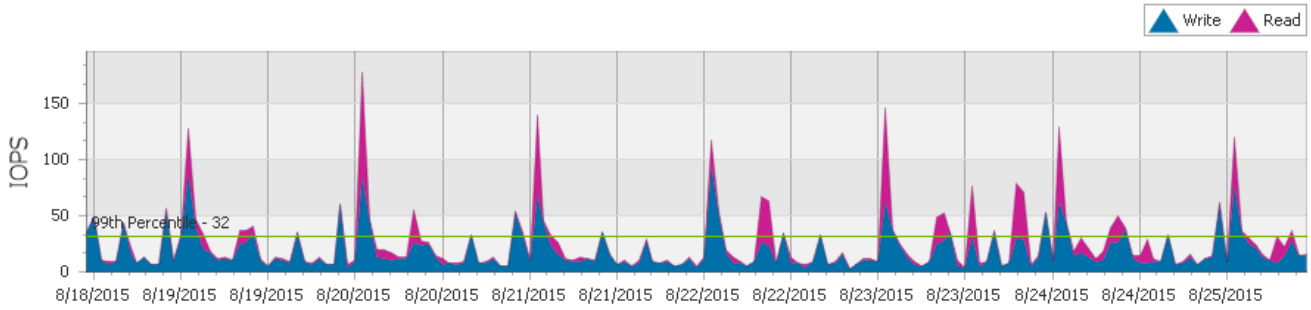
Server Name	franklin34
Server Operating System	openSUSE 11.2 (x86_64)

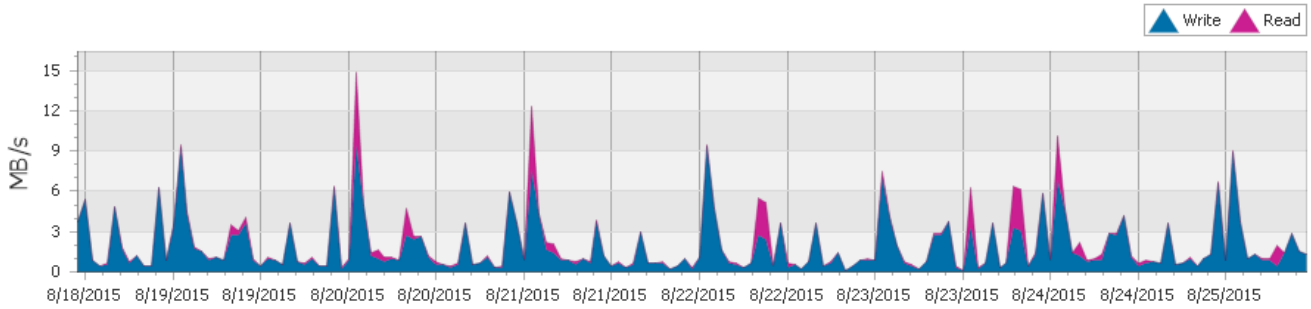
Capacity Information

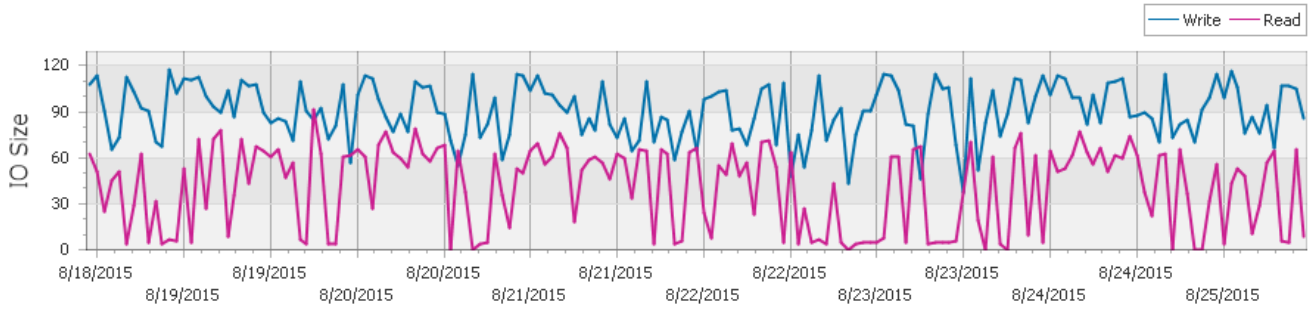
Total Local Capacity	419.00 GB
Free Local Capacity	329.00 GB (79%)
Used Local Capacity	90.00 GB (21%)

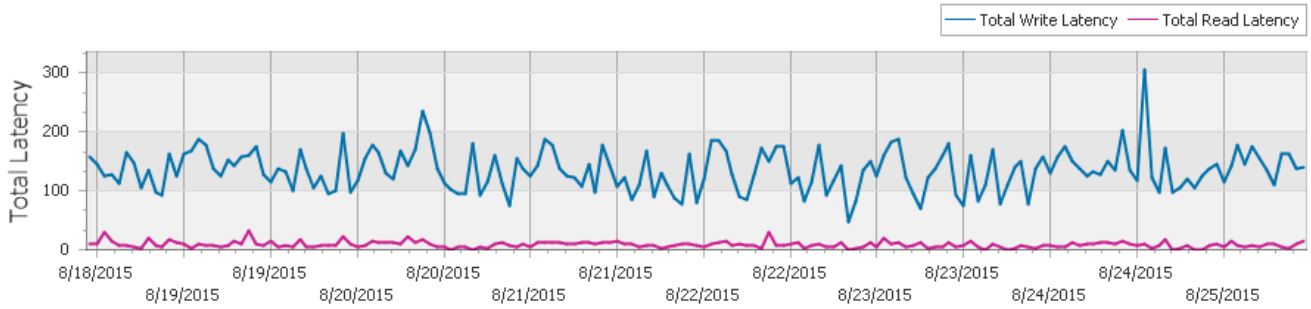
Performance Information

Peak Throughput	14.90 MB/s
Latency	33 ms reads and 306 ms writes
IOPS	11 at 95%, 32 at 99% and 178 at peak
Read/Write Ratio	16% / 84%
Average IO Size	Read: 12.48 KB / Write: 84.88 KB









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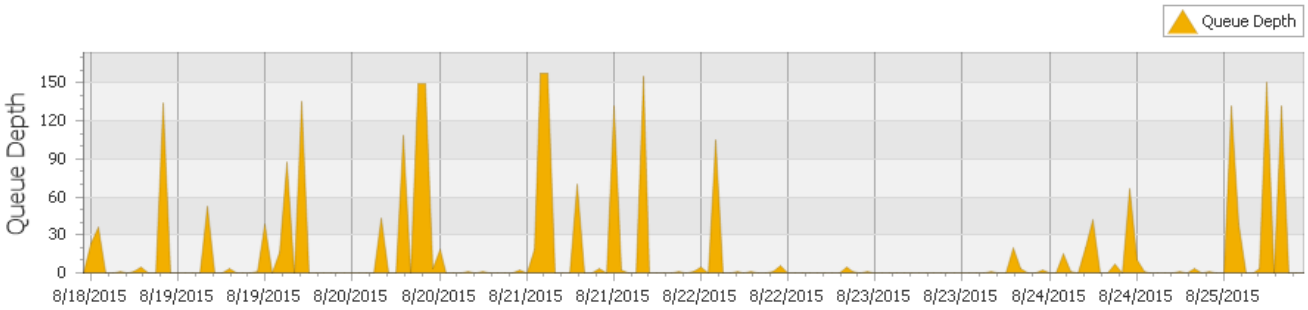

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Individual Local Disk Report: cciss!c0d0

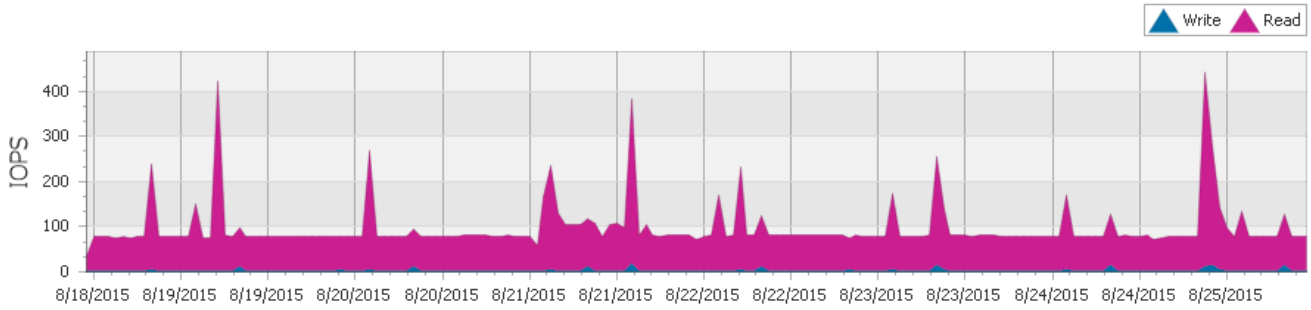
Server Name	oranode5.intern.mercateo.com
Server Operating System	Red Hat Enterprise Linux Server release 5.8 (Tikanga)

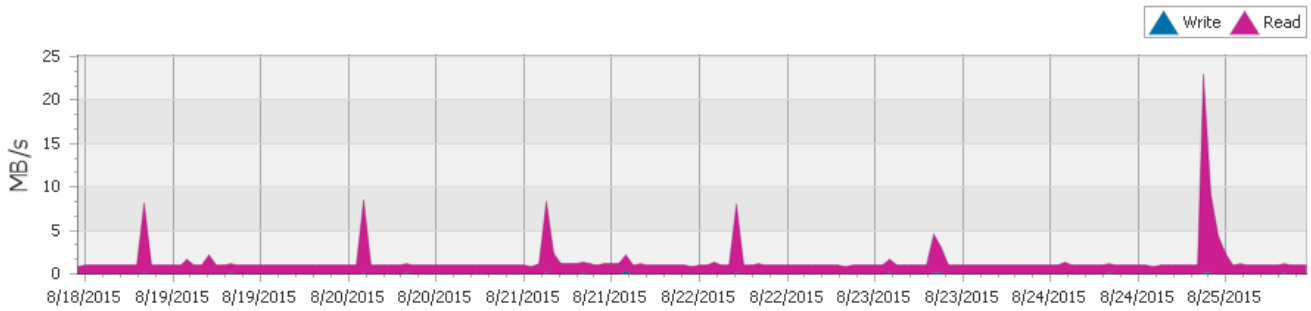
Capacity Information

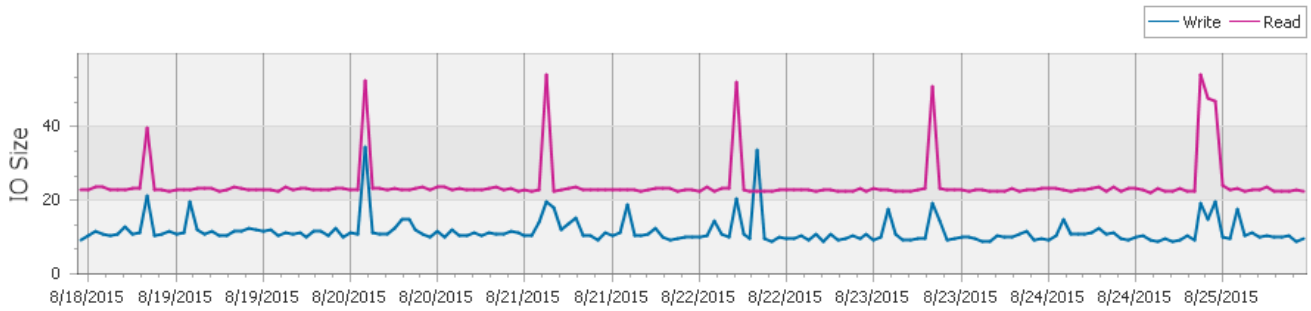
Total Local Capacity	279.00 GB
Free Local Capacity	261.00 GB (94%)
Used Local Capacity	18.00 GB (6%)

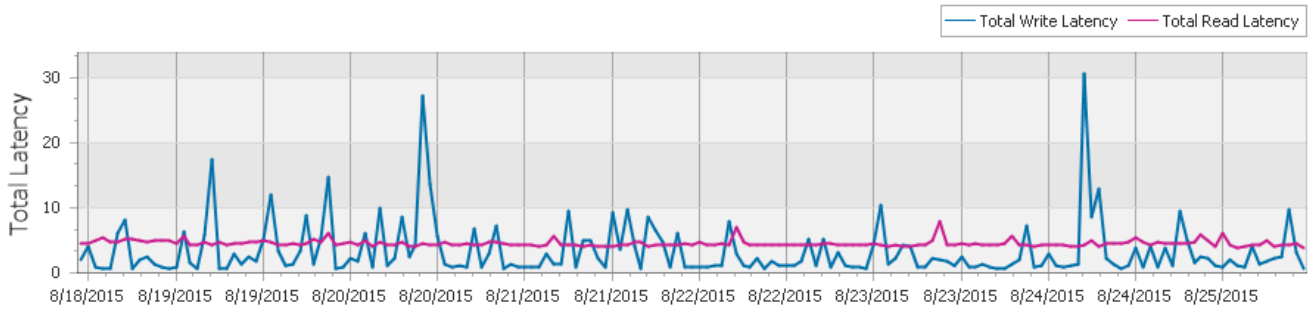
Performance Information

Peak Throughput	22.80 MB/s
Latency	17 ms reads and 26 ms writes
IOPS	74 at 95%, 114 at 99% and 432 at peak
Read/Write Ratio	96% / 4%
Average IO Size	Read: 18.59 KB / Write: 9.71 KB









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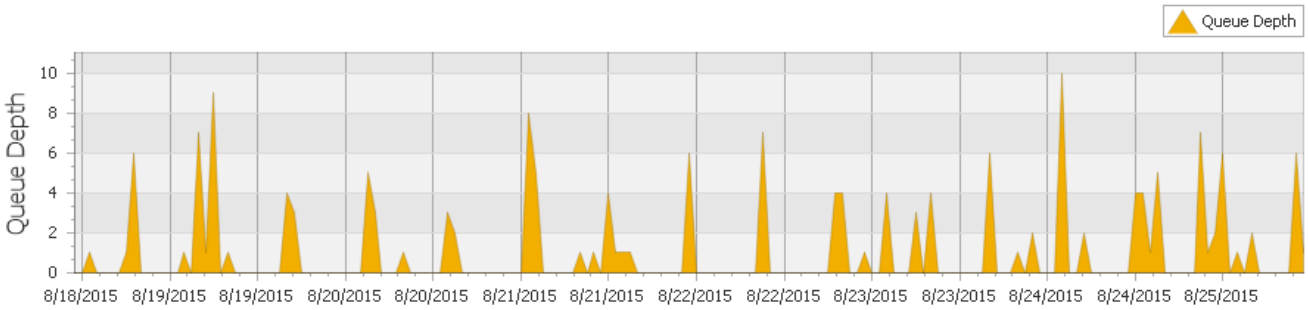

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Individual Local Disk Report: cciss!c0d0

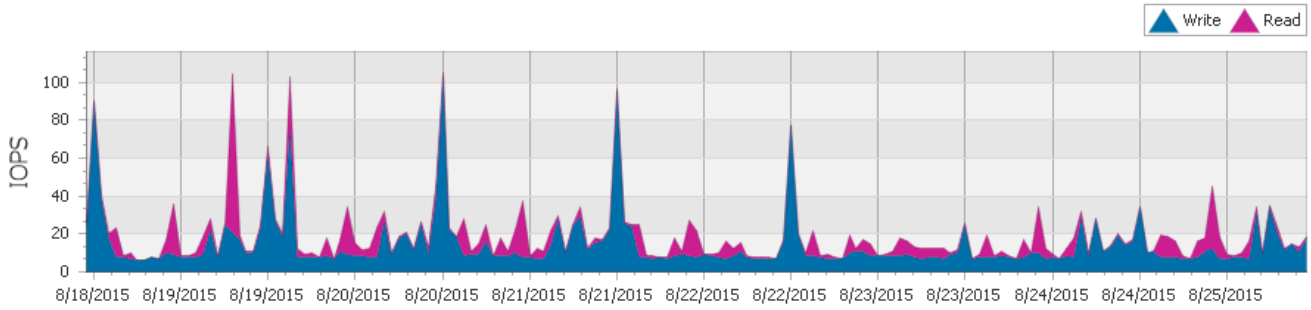
Server Name	sapprd-node2
Server Operating System	SUSE Linux Enterprise Server 11 (x86_64)

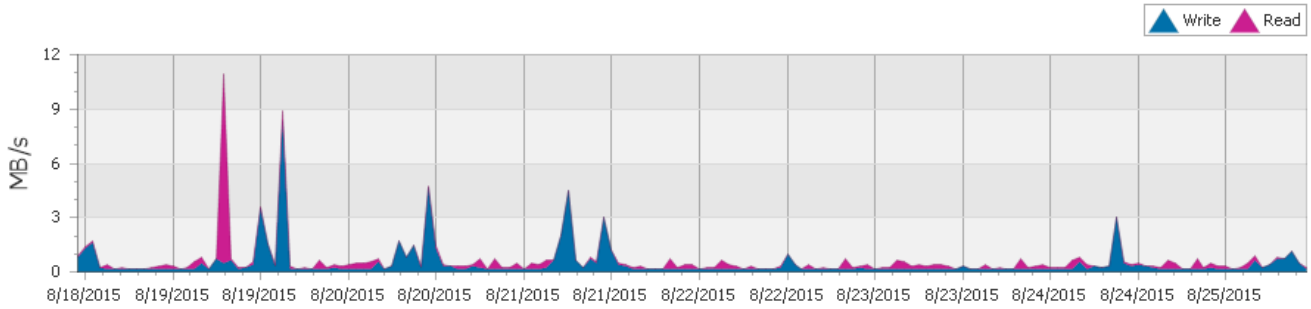
Capacity Information

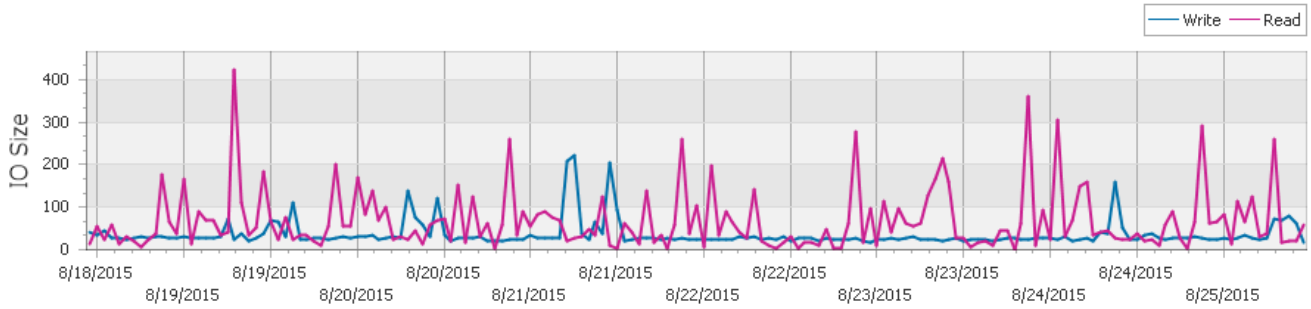
Total Local Capacity	838.00 GB
Free Local Capacity	588.00 GB (70%)
Used Local Capacity	250.00 GB (30%)

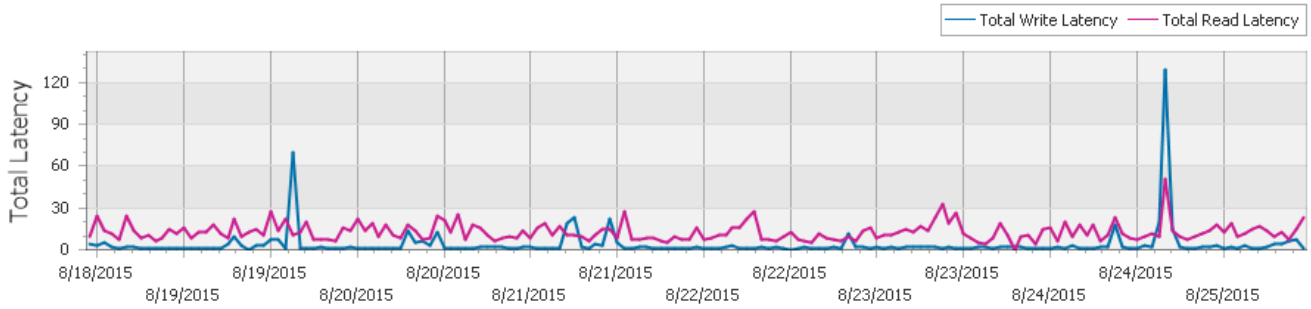
Performance Information

Peak Throughput	10.60 MB/s
Latency	69 ms reads and 242 ms writes
IOPS	17 at 95%, 25 at 99% and 105 at peak
Read/Write Ratio	14% / 86%
Average IO Size	Read: 14.25 KB / Write: 20.27 KB









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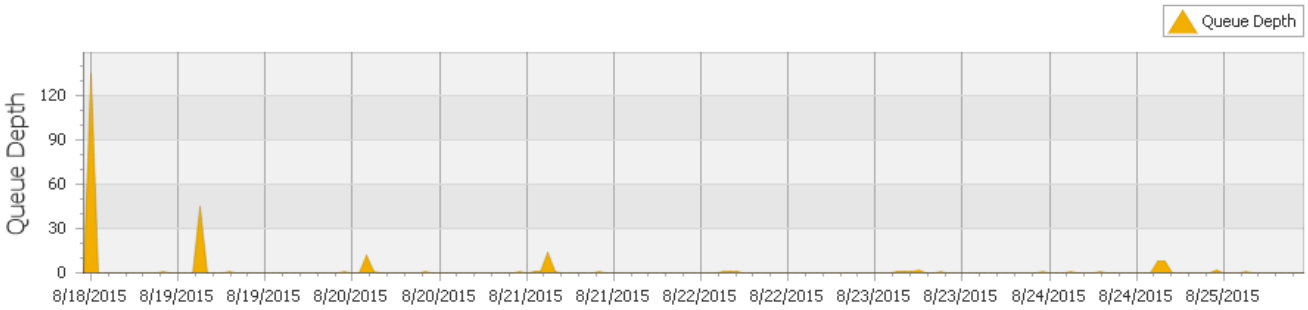

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Individual Local Disk Report: cciss!c0d0

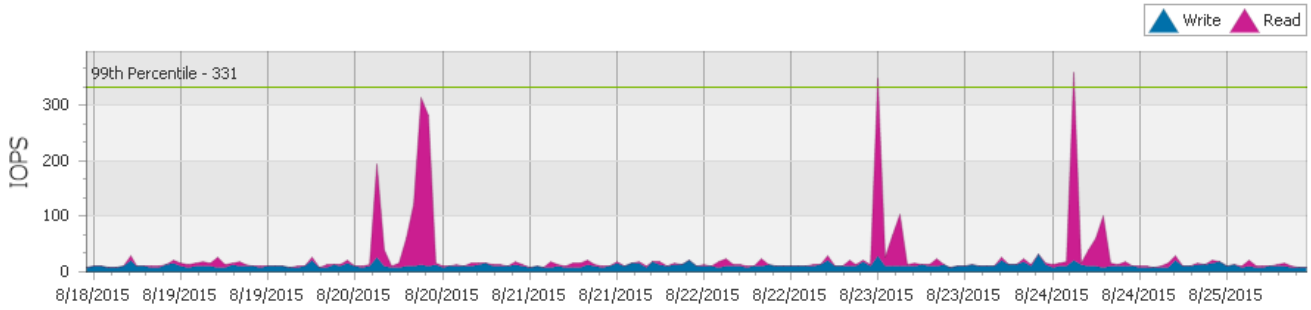
Server Name	saptst
Server Operating System	SUSE Linux Enterprise Server 11 (x86_64)

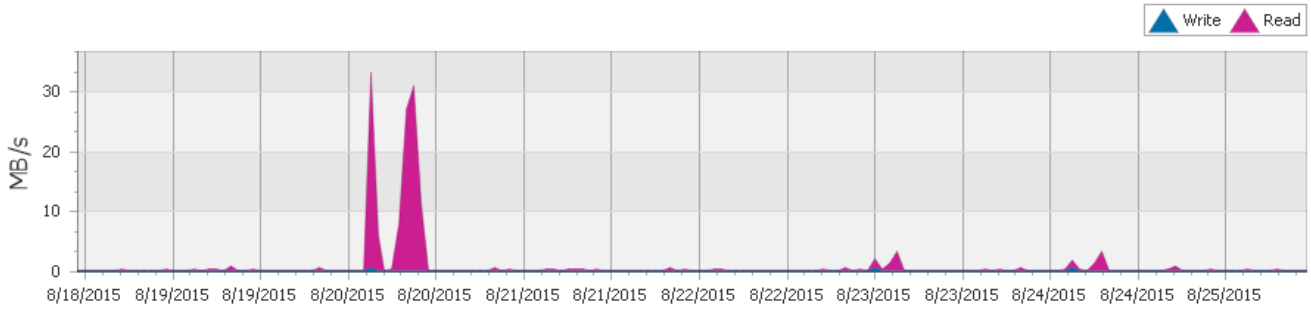
Capacity Information

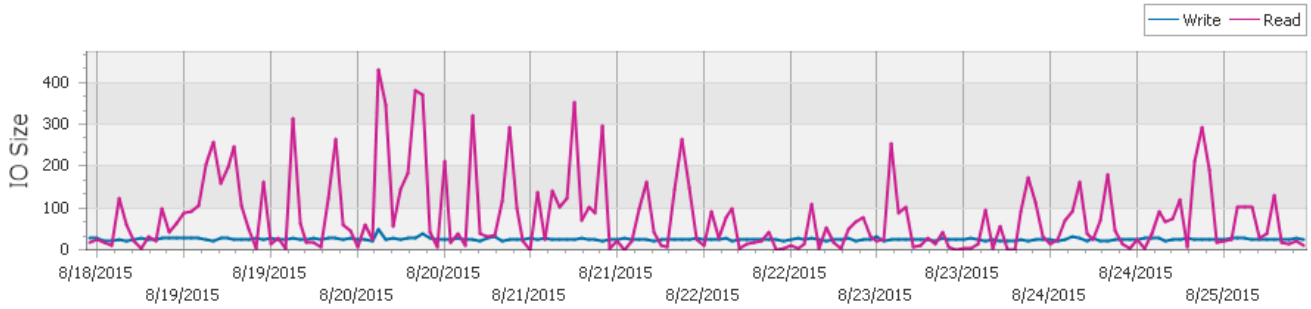
Total Local Capacity	137.00 GB
Free Local Capacity	60.00 GB (44%)
Used Local Capacity	77.00 GB (56%)

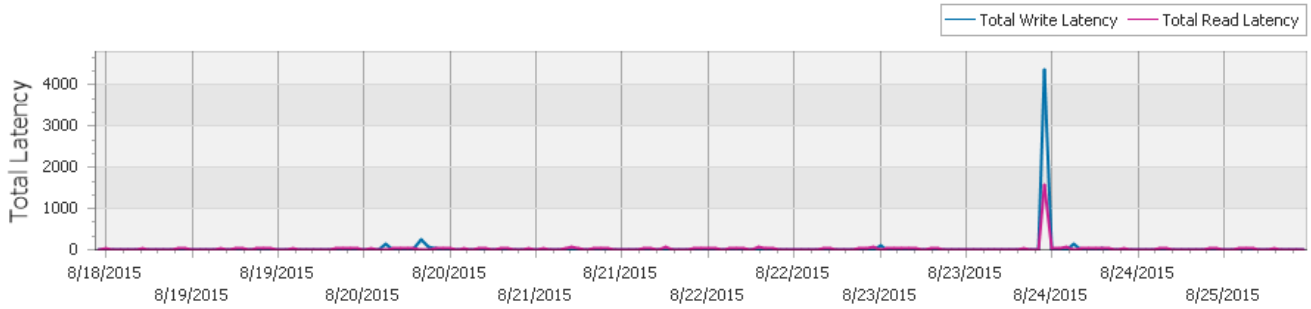
Performance Information

Peak Throughput	32.80 MB/s
Latency	183 ms reads and 1387 ms writes
IOPS	13 at 95%, 59 at 99% and 360 at peak
Read/Write Ratio	68% / 32%
Average IO Size	Read: 34.00 KB / Write: 17.09 KB









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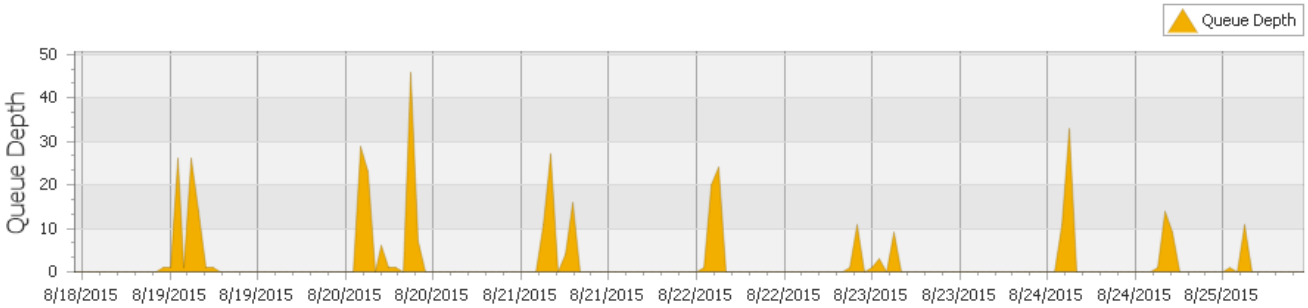

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Servers Recorded

Server Name(s)	Local Capacity	Free Capacity	Used Capacity	IOPS	MB/s	Read/Write Ratio
adama70	4.96 TB	1.65 TB	3.31 TB	15376	182	96% / 4%
oranode1.intern.mercateo.co...	7.82 TB	7.75 TB	65.00 GB	8051	263	48% / 52%
live-dmz-ftp1	4.00 TB	3.15 TB	876.00 GB	7186	38	10% / 90%
dwh.intern.mercateo.com	4.40 TB	1.32 TB	3.08 TB	6368	242	88% / 12%
sapprd-node2	3.73 TB	2.22 TB	1.51 TB	5837	498	96% / 4%
pre-live-sap	549.00 GB	246.00 GB	303.00 GB	4200	172	97% / 3%
picture2	4.64 TB	2.12 TB	2.51 TB	4040	53	59% / 41%
picture1	4.64 TB	2.13 TB	2.50 TB	3963	78	53% / 47%
analytic-dwh	931.00 GB	897.00 GB	34.00 GB	3547	14	0% / 100%
live-dmz-ftp2	4.00 TB	4.00 TB	4.00 GB	3519	14	0% / 100%
oranode2.intern.mercateo.co...	7.82 TB	7.76 TB	58.00 GB	3467	158	21% / 79%
sapqas	2.82 TB	1.11 TB	1.71 TB	3012	445	97% / 3%
ber-pba01v	40.00 GB	26.00 GB	14.00 GB	2862	27	38% / 62%
apache2	40.00 GB	13.00 GB	27.00 GB	2453	103	69% / 31%
apache2.1	40.00 GB	13.00 GB	27.00 GB	2453	103	69% / 31%
oranode5.intern.mercateo.co...	5.46 TB	3.49 TB	1.96 TB	2374	83	43% / 57%
franklin12	419.00 GB	341.00 GB	78.00 GB	2290	38	1% / 99%
live-dmz-front1	32.00 GB	16.00 GB	16.00 GB	1923	41	61% / 39%
sapcon1	2.05 TB	1.18 TB	890.00 GB	1746	211	97% / 3%
piwik2.intern.mercateo.com	128.00 GB	37.00 GB	91.00 GB	1700	71	50% / 50%
adama5	416.00 GB	270.00 GB	146.00 GB	1650	140	61% / 39%
corporate1.intern.mercateo....	32.00 GB	9.00 GB	23.00 GB	1576	18	45% / 55%
piwik1.intern.mercateo.com	128.00 GB	32.00 GB	96.00 GB	1571	23	83% / 17%
interface2	295.00 GB	85.00 GB	210.00 GB	1560	64	9% / 91%
adama72	4.96 TB	2.12 TB	2.83 TB	1399	99	40% / 60%
adama11	1.18 TB	1.02 TB	162.00 GB	1151	70	57% / 43%
saptst	1.77 TB	869.00 GB	944.00 GB	1046	194	84% / 16%
adama4	416.00 GB	259.00 GB	157.00 GB	1035	127	78% / 22%
interface	137.00 GB	59.00 GB	78.00 GB	1025	63	67% / 33%
ber-puppet01v.intern.mercat...	50.00 GB	34.00 GB	16.00 GB	1014	30	8% / 92%
mongodb03.intern.mercateo.c...	168.00 GB	51.00 GB	117.00 GB	986	40	96% / 4%
ber-tacacs01v	58.00 GB	36.00 GB	22.00 GB	855	35	58% / 42%
adama10	1.18 TB	1002.00 GB	203.00 GB	832	53	52% / 48%
adama09	12.69 TB	3.80 TB	8.89 TB	781	58	67% / 33%
franklin33	419.00 GB	325.00 GB	94.00 GB	648	23	82% / 18%
red-b	3.18 TB	2.42 TB	784.00 GB	596	105	35% / 65%
red-a-new	3.18 TB	2.42 TB	786.00 GB	508	99	51% / 49%
live-monitoring	28.00 GB	13.00 GB	15.00 GB	471	13	44% / 56%
live-monitoring.1	28.00 GB	13.00 GB	15.00 GB	471	13	44% / 56%
franklin23	137.00 GB	50.00 GB	87.00 GB	464	35	83% / 17%
frodo	5.91 TB	5.53 TB	386.00 GB	452	130	53% / 47%

Capacity shown only reports capacity that is local to the server. Shared Cluster Disk capacities are not shown in this table. IOPS shown are based on the 99th percentile IOPS for the individual server. As each server's individual 99th percentile may occur at different times than other servers, adding up the individual server 99th percentiles will not be the same as the summary aggregate 99th percentile IOPS for the entire report. The IOPS shown include any IO to shared cluster disks.

The Read and Write ratios shown represent the ratios during the top 10% of the server's IO activity as measured by IOPS.

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Servers Recorded Continued

Server Name(s)	Local Capacity	Free Capacity	Used Capacity	IOPS	MB/s	Read/Write Ratio
mongodb01	248.00 GB	131.00 GB	117.00 GB	450	9	17% / 83%
mongodb02	168.00 GB	50.00 GB	118.00 GB	438	9	17% / 83%
apache3	137.00 GB	114.00 GB	23.00 GB	369	66	64% / 36%
franklin14.intern.mercateo....	137.00 GB	47.00 GB	90.00 GB	350	19	12% / 88%
adama8	12.69 TB	3.80 TB	8.89 TB	340	30	32% / 68%
rdata	72.00 GB	37.00 GB	35.00 GB	338	14	9% / 91%
corporate2	80.00 GB	66.00 GB	14.00 GB	326	13	0% / 100%
ns5	72.00 GB	65.00 GB	7.00 GB	317	36	40% / 60%
franklin32	137.00 GB	59.00 GB	78.00 GB	271	10	3% / 97%
mini-live1	2.72 TB	1.29 TB	1.43 TB	266	12	23% / 77%
franklin13	137.00 GB	46.00 GB	91.00 GB	187	17	18% / 82%
franklin34	419.00 GB	329.00 GB	90.00 GB	178	15	16% / 84%
franklin31	137.00 GB	46.00 GB	91.00 GB	174	10	8% / 92%
live-nagios.intern.mercateo...	137.00 GB	72.00 GB	65.00 GB	150	2	1% / 99%
franklin35	419.00 GB	330.00 GB	89.00 GB	137	10	17% / 83%
jenkinsslave01	12.00 GB	10.00 GB	2.00 GB	28	1	10% / 90%
jenkinsmaster01	108.00 GB	103.00 GB	5.00 GB	22	0	0% / 100%
jenkinsslave02	16.00 GB	14.00 GB	2.00 GB	13	0	0% / 100%
dhcpd01	8.00 GB	6.00 GB	2.00 GB	12	0	0% / 100%
dhcpd02	8.00 GB	6.00 GB	2.00 GB	6	0	0% / 100%
live-dmz-front3	32.00 GB	29.00 GB	3.00 GB	6	0	1% / 99%
live-dmz-front2	32.00 GB	30.00 GB	2.00 GB	3	0	0% / 100%
live-dmz-front4	32.00 GB	29.00 GB	3.00 GB	3	0	0% / 100%

Capacity shown only reports capacity that is local to the server. Shared Cluster Disk capacities are not shown in this table. IOPS shown are based on the 99th percentile IOPS for the individual server. As each server's individual 99th percentile may occur at different times than other servers, adding up the individual server 99th percentiles will not be the same as the summary aggregate 99th percentile IOPS for the entire report. The IOPS shown include any IO to shared cluster disks.

The Read and Write ratios shown represent the ratios during the top 10% of the server's IO activity as measured by IOPS.

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Disks Recorded

Server Name(s)	Device Name	Local Capacity	Free Capacity	Used Capacity	95% IOPS	Read/Write Ratio
franklin14.intern.mercateo....	cciss!c0d0	137.00 GB	47.00 GB	90.00 GB	11	12% / 88%
franklin35	cciss!c0d0	419.00 GB	330.00 GB	89.00 GB	11	17% / 83%
adama8	cciss!c0d0	100.00 GB	61.00 GB	39.00 GB	6	19% / 81%
franklin23	cciss!c0d0	137.00 GB	50.00 GB	87.00 GB	28	83% / 17%
frodo	cciss!c0d0	32.00 GB	22.00 GB	10.00 GB	4	73% / 27%
adama5	cciss!c0d0	137.00 GB	125.00 GB	12.00 GB	25	28% / 72%
red-b	cciss!c0d0	3.18 TB	2.42 TB	784.00 GB	19	35% / 65%
franklin33	cciss!c0d0	419.00 GB	325.00 GB	94.00 GB	15	82% / 18%
adama09	cciss!c0d0	100.00 GB	17.00 GB	83.00 GB	11	44% / 56%
franklin13	cciss!c0d0	137.00 GB	46.00 GB	91.00 GB	11	18% / 82%
red-a-new	cciss!c0d0	3.18 TB	2.42 TB	786.00 GB	12	51% / 49%
franklin31	cciss!c0d0	137.00 GB	46.00 GB	91.00 GB	10	8% / 92%
interface	cciss!c0d0	137.00 GB	59.00 GB	78.00 GB	16	67% / 33%
sapqas	cciss!c0d0	838.00 GB	414.00 GB	424.00 GB	9	19% / 81%
sapcon1	cciss!c0d0	419.00 GB	410.00 GB	9.00 GB	5	65% / 35%
adama10	cciss!c0d0	137.00 GB	122.00 GB	15.00 GB	37	25% / 75%
franklin34	cciss!c0d0	419.00 GB	329.00 GB	90.00 GB	11	16% / 84%
oranode5.intern.mercateo.co...	cciss!c0d0	279.00 GB	261.00 GB	18.00 GB	74	96% / 4%
sapprd-node2	cciss!c0d0	838.00 GB	588.00 GB	250.00 GB	17	14% / 86%
saptst	cciss!c0d0	137.00 GB	60.00 GB	77.00 GB	13	68% / 32%
adama11	cciss!c0d0	137.00 GB	122.00 GB	15.00 GB	20	69% / 31%
live-nagios.intern.mercateo...	cciss!c0d0	137.00 GB	72.00 GB	65.00 GB	111	1% / 99%
sapprd-node2	cciss!c0d1	1.09 TB	333.00 GB	784.00 GB	792	98% / 2%
adama11	cciss!c0d1	137.00 GB	137.00 GB	0 GB	45	43% / 57%
oranode5.intern.mercateo.co...	cciss!c0d1	838.00 GB	187.00 GB	651.00 GB	234	48% / 52%
adama10	cciss!c0d1	137.00 GB	137.00 GB	0 GB	23	64% / 36%
sapcon1	cciss!c0d1	838.00 GB	376.00 GB	462.00 GB	10	99% / 1%
adama8	cciss!c0d1	5.31 TB	1.92 TB	3.39 TB	7	36% / 64%
saptst	cciss!c0d1	838.00 GB	413.00 GB	425.00 GB	221	87% / 13%
sapqas	cciss!c0d1	1.09 TB	324.00 GB	793.00 GB	382	99% / 1%
adama5	cciss!c0d1	279.00 GB	145.00 GB	134.00 GB	43	72% / 28%
adama09	cciss!c0d1	5.31 TB	1.96 TB	3.35 TB	13	57% / 43%
frodo	cciss!c0d1	3.15 TB	2.78 TB	376.00 GB	29	53% / 47%
oranode5.intern.mercateo.co...	cciss!c0d2	838.00 GB	180.00 GB	658.00 GB	223	30% / 70%
sapcon1	cciss!c0d2	838.00 GB	419.00 GB	419.00 GB	14	88% / 12%
sapqas	cciss!c0d2	931.00 GB	397.00 GB	534.00 GB	264	99% / 1%
adama10	cciss!c0d2	931.00 GB	743.00 GB	188.00 GB	0	0% / 100%
sapprd-node2	cciss!c0d2	1.82 TB	1.32 TB	508.00 GB	66	80% / 20%
adama11	cciss!c0d2	931.00 GB	784.00 GB	147.00 GB	0	100% / 0%
saptst	cciss!c0d2	838.00 GB	396.00 GB	442.00 GB	12	87% / 13%
oranode5.intern.mercateo.co...	cciss!c0d3	838.00 GB	154.00 GB	684.00 GB	190	42% / 58%

Capacity shown only reports capacity that is local to the disk. Shared Cluster Disk capacities are not shown in this table. IOPS shown are based on the 99th percentile IOPS for the individual disk. As each disks individual 99th percentile may occur at different times than other disks, adding up the individual disk 99th percentiles will not be the same as the summary aggregate 99th percentile IOPS for the entire report.

The Read and Write ratios shown represent the ratios during the top 10% of the disk's IO activity as measured by IOPS.

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Disks Recorded Continued

Server Name(s)	Device Name	Local Capacity	Free Capacity	Used Capacity	95% IOPS	Read/Write Ratio
adama09	cciss!c1d0	3.64 TB	486.00 GB	3.16 TB	4	95% / 5%
adama8	cciss!c1d0	3.64 TB	488.00 GB	3.16 TB	0	100% / 0%
adama8	cciss!c1d1	3.64 TB	1.35 TB	2.29 TB	0	100% / 0%
adama09	cciss!c1d1	3.64 TB	1.35 TB	2.29 TB	0	100% / 0%
live-dmz-ftp2	drbd0	1.99 TB	1.99 TB	0 GB	0	0% / 100%
live-dmz-ftp1	drbd0	1.99 TB	1.14 TB	868.00 GB	511	9% / 91%
ns5	hda	4.00 GB	4.00 GB	0 GB	0	0% / 100%
oranode5.intern.mercateo.co...	sda	2.73 TB	2.73 TB	0 GB	0	100% / 0%
franklin32	sda	137.00 GB	59.00 GB	78.00 GB	9	3% / 97%
frodo	sda	2.73 TB	2.73 TB	0 GB	0	0% / 100%
mini-live1	sda	1.36 TB	329.00 GB	1.04 TB	29	24% / 76%
ns5	sda	68.00 GB	61.00 GB	7.00 GB	8	40% / 60%
franklin12	sda	419.00 GB	341.00 GB	78.00 GB	210	1% / 99%
adama72	sda	419.00 GB	202.00 GB	217.00 GB	39	61% / 39%
oranode1.intern.mercateo.co...	sda	136.00 GB	71.00 GB	65.00 GB	28	0% / 100%
apache3	sda	137.00 GB	114.00 GB	23.00 GB	2	64% / 36%
adama4	sda	137.00 GB	132.00 GB	5.00 GB	17	34% / 66%
analytic-dwh	sda	931.00 GB	897.00 GB	34.00 GB	4	0% / 100%
oranode2.intern.mercateo.co...	sda	136.00 GB	78.00 GB	58.00 GB	39	1% / 99%
adama70	sda	419.00 GB	116.00 GB	303.00 GB	32	56% / 44%
oranode1.intern.mercateo.co...	sdb	136.00 GB	136.00 GB	0 GB	64	59% / 41%
oranode2.intern.mercateo.co...	sdb	136.00 GB	136.00 GB	0 GB	81	29% / 71%
adama70	sdb	4.55 TB	1.54 TB	3.01 TB	405	97% / 3%
mini-live1	sdb	929.00 GB	530.00 GB	399.00 GB	0	3% / 97%
adama4	sdb	279.00 GB	127.00 GB	152.00 GB	53	86% / 14%
adama72	sdb	4.55 TB	1.93 TB	2.62 TB	164	36% / 64%
oranode1.intern.mercateo.co...	sdc	136.00 GB	136.00 GB	0 GB	22	14% / 86%
oranode2.intern.mercateo.co...	sdc	136.00 GB	136.00 GB	0 GB	105	6% / 94%
mini-live1	sdc	465.00 GB	465.00 GB	0 GB	0	0% / 100%
oranode2.intern.mercateo.co...	sdd	136.00 GB	136.00 GB	0 GB	121	8% / 92%
oranode1.intern.mercateo.co...	sdd	136.00 GB	136.00 GB	0 GB	35	16% / 84%
oranode2.intern.mercateo.co...	sde	136.00 GB	136.00 GB	0 GB	8	43% / 57%
oranode1.intern.mercateo.co...	sde	136.00 GB	136.00 GB	0 GB	8	89% / 11%
oranode1.intern.mercateo.co...	sdf	136.00 GB	136.00 GB	0 GB	88	97% / 3%
oranode2.intern.mercateo.co...	sdf	136.00 GB	136.00 GB	0 GB	37	67% / 33%
oranode2.intern.mercateo.co...	sdg	136.00 GB	136.00 GB	0 GB	76	27% / 73%
oranode1.intern.mercateo.co...	sdg	136.00 GB	136.00 GB	0 GB	60	58% / 42%
oranode2.intern.mercateo.co...	sdh	931.00 GB	931.00 GB	0 GB	0	0% / 100%
oranode1.intern.mercateo.co...	sdh	419.00 GB	419.00 GB	0 GB	49	99% / 1%
oranode1.intern.mercateo.co...	sdi	931.00 GB	931.00 GB	0 GB	0	100% / 0%

Capacity shown only reports capacity that is local to the disk. Shared Cluster Disk capacities are not shown in this table. IOPS shown are based on the 99th percentile IOPS for the individual disk. As each disks individual 99th percentile may occur at different times than other disks, adding up the individual disk 99th percentiles will not be the same as the summary aggregate 99th percentile IOPS for the entire report.

The Read and Write ratios shown represent the ratios during the top 10% of the disk's IO activity as measured by IOPS.

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Disks Recorded Continued

Server Name(s)	Device Name	Local Capacity	Free Capacity	Used Capacity	95% IOPS	Read/Write Ratio
oranode2.intern.mercateo.co...	sdi	931.00 GB	931.00 GB	0 GB	8	75% / 25%
oranode2.intern.mercateo.co...	sdj	419.00 GB	419.00 GB	0 GB	62	76% / 24%
oranode1.intern.mercateo.co...	sdj	931.00 GB	931.00 GB	0 GB	82	94% / 6%
oranode1.intern.mercateo.co...	sdk	419.00 GB	419.00 GB	0 GB	61	97% / 3%
oranode2.intern.mercateo.co...	sdk	419.00 GB	419.00 GB	0 GB	15	53% / 47%
oranode2.intern.mercateo.co...	sdl	136.00 GB	136.00 GB	0 GB	64	10% / 90%
oranode1.intern.mercateo.co...	sdl	419.00 GB	419.00 GB	0 GB	49	99% / 1%
oranode1.intern.mercateo.co...	sdm	136.00 GB	136.00 GB	0 GB	31	35% / 65%
oranode2.intern.mercateo.co...	sdm	136.00 GB	136.00 GB	0 GB	105	5% / 95%
oranode1.intern.mercateo.co...	sdn	136.00 GB	136.00 GB	0 GB	22	13% / 87%
oranode2.intern.mercateo.co...	sdn	136.00 GB	136.00 GB	0 GB	121	8% / 92%
oranode1.intern.mercateo.co...	sdo	136.00 GB	136.00 GB	0 GB	34	16% / 84%
oranode2.intern.mercateo.co...	sdo	136.00 GB	136.00 GB	0 GB	8	43% / 57%
oranode2.intern.mercateo.co...	sdp	136.00 GB	136.00 GB	0 GB	37	68% / 32%
oranode1.intern.mercateo.co...	sdp	136.00 GB	136.00 GB	0 GB	8	89% / 11%
oranode1.intern.mercateo.co...	sdq	136.00 GB	136.00 GB	0 GB	87	97% / 3%
oranode2.intern.mercateo.co...	sdq	136.00 GB	136.00 GB	0 GB	63	9% / 91%
oranode1.intern.mercateo.co...	sdr	136.00 GB	136.00 GB	0 GB	26	27% / 73%
oranode2.intern.mercateo.co...	sdr	931.00 GB	931.00 GB	0 GB	0	0% / 100%
oranode1.intern.mercateo.co...	sds	419.00 GB	419.00 GB	0 GB	49	99% / 1%
oranode2.intern.mercateo.co...	sds	931.00 GB	931.00 GB	0 GB	8	75% / 25%
oranode1.intern.mercateo.co...	sdt	931.00 GB	931.00 GB	0 GB	0	100% / 0%
oranode2.intern.mercateo.co...	sdt	419.00 GB	419.00 GB	0 GB	62	76% / 24%
oranode1.intern.mercateo.co...	sdu	931.00 GB	931.00 GB	0 GB	82	94% / 6%
oranode2.intern.mercateo.co...	sdu	419.00 GB	419.00 GB	0 GB	16	52% / 48%
oranode1.intern.mercateo.co...	sdv	419.00 GB	419.00 GB	0 GB	60	97% / 3%
oranode2.intern.mercateo.co...	sdv	419.00 GB	419.00 GB	0 GB	14	54% / 46%
oranode1.intern.mercateo.co...	sdw	419.00 GB	419.00 GB	0 GB	49	99% / 1%
oranode2.intern.mercateo.co...	sdw	419.00 GB	419.00 GB	0 GB	14	54% / 46%
live-dmz-front2	xvda	32.00 GB	30.00 GB	2.00 GB	1	0% / 100%
ber-pba01v	xvda	40.00 GB	26.00 GB	14.00 GB	7	38% / 62%
corporate2	xvda	16.00 GB	11.00 GB	5.00 GB	36	0% / 100%
mongodb01	xvda	8.00 GB	5.00 GB	3.00 GB	1	44% / 56%
piwik2.intern.mercateo.com	xvda	8.00 GB	5.00 GB	3.00 GB	46	0% / 100%
live-monitoring.1	xvda	8.00 GB	4.00 GB	4.00 GB	2	67% / 33%
live-monitoring	xvda	8.00 GB	4.00 GB	4.00 GB	2	67% / 33%
dhcpd02	xvda	8.00 GB	6.00 GB	2.00 GB	2	0% / 100%
ber-tacacs01v	xvda	8.00 GB	6.00 GB	2.00 GB	1	51% / 49%
apache2	xvda	40.00 GB	13.00 GB	27.00 GB	97	69% / 31%
live-dmz-ftp1	xvda	20.00 GB	12.00 GB	8.00 GB	37	30% / 70%

Capacity shown only reports capacity that is local to the disk. Shared Cluster Disk capacities are not shown in this table. IOPS shown are based on the 99th percentile IOPS for the individual disk. As each disks individual 99th percentile may occur at different times than other disks, adding up the individual disk 99th percentiles will not be the same as the summary aggregate 99th percentile IOPS for the entire report.

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Disks Recorded Continued

Server Name(s)	Device Name	Local Capacity	Free Capacity	Used Capacity	95% IOPS	Read/Write Ratio
mongodb02	xvda	8.00 GB	5.00 GB	3.00 GB	1	41% / 59%
live-dmz-front3	xvda	32.00 GB	29.00 GB	3.00 GB	1	1% / 99%
live-dmz-ftp2	xvda	20.00 GB	16.00 GB	4.00 GB	38	0% / 100%
jenkinsslave01	xvda	8.00 GB	6.00 GB	2.00 GB	5	7% / 93%
piwik1.intern.mercateo.com	xvda	8.00 GB	5.00 GB	3.00 GB	45	5% / 95%
ber-puppet01v.intern.mercat...	xvda	20.00 GB	15.00 GB	5.00 GB	2	19% / 81%
live-dmz-front4	xvda	32.00 GB	29.00 GB	3.00 GB	1	0% / 100%
pre-live-sap	xvda	20.00 GB	20.00 GB	0 GB	0	75% / 25%
dwh.intern.mercateo.com	xvda	20.00 GB	9.00 GB	11.00 GB	5	90% / 10%
picture1	xvda	20.00 GB	17.00 GB	3.00 GB	4	56% / 44%
live-dmz-front1	xvda	32.00 GB	16.00 GB	16.00 GB	13	61% / 39%
jenkinsmaster01	xvda	8.00 GB	3.00 GB	5.00 GB	12	0% / 100%
apache2.1	xvda	40.00 GB	13.00 GB	27.00 GB	96	69% / 31%
interface2	xvda	20.00 GB	9.00 GB	11.00 GB	2	68% / 32%
mongodb03.intern.mercateo.c...	xvda	8.00 GB	5.00 GB	3.00 GB	3	73% / 27%
dhcpd01	xvda	8.00 GB	6.00 GB	2.00 GB	7	0% / 100%
picture2	xvda	20.00 GB	16.00 GB	4.00 GB	3	48% / 52%
jenkinsslave02	xvda	12.00 GB	10.00 GB	2.00 GB	4	0% / 100%
rdata	xvda	12.00 GB	4.00 GB	8.00 GB	1	6% / 94%
corporate1.intern.mercateo....	xvda	32.00 GB	9.00 GB	23.00 GB	66	45% / 55%
rdata	xvdb	60.00 GB	33.00 GB	27.00 GB	4	9% / 91%
interface2	xvdb	275.00 GB	76.00 GB	199.00 GB	31	2% / 98%
pre-live-sap	xvdb	450.00 GB	186.00 GB	264.00 GB	561	97% / 3%
picture2	xvdb	1.99 TB	1.28 TB	728.00 GB	2	48% / 52%
jenkinsslave02	xvdb	4.00 GB	4.00 GB	0 GB	0	0% / 100%
piwik2.intern.mercateo.com	xvdb	120.00 GB	32.00 GB	88.00 GB	34	71% / 29%
live-monitoring	xvdb	20.00 GB	9.00 GB	11.00 GB	33	40% / 60%
live-monitoring.1	xvdb	20.00 GB	9.00 GB	11.00 GB	33	40% / 60%
ber-tacacs01v	xvdb	50.00 GB	30.00 GB	20.00 GB	4	59% / 41%
jenkinsslave01	xvdb	4.00 GB	4.00 GB	0 GB	0	60% / 40%
piwik1.intern.mercateo.com	xvdb	120.00 GB	27.00 GB	93.00 GB	285	86% / 14%
mongodb01	xvdb	60.00 GB	60.00 GB	0 GB	0	0% / 100%
corporate2	xvdb	64.00 GB	55.00 GB	9.00 GB	0	0% / 100%
picture1	xvdb	1.99 TB	1.29 TB	718.00 GB	3	40% / 60%
jenkinsmaster01	xvdb	100.00 GB	100.00 GB	0 GB	0	0% / 100%
live-dmz-ftp2	xvdb	1.99 TB	1.99 TB	0 GB	450	0% / 100%
ber-puppet01v.intern.mercat...	xvdb	30.00 GB	19.00 GB	11.00 GB	26	8% / 92%
live-dmz-ftp1	xvdb	1.99 TB	1.99 TB	0 GB	428	11% / 89%
dwh.intern.mercateo.com	xvdb	1.51 TB	310.00 GB	1.21 TB	2280	88% / 12%
pre-live-sap	xvdc	79.00 GB	40.00 GB	39.00 GB	1	60% / 40%

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The Read and Write ratios shown represent the ratios during the top 10% of the disk's IO activity as measured by IOPS.

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Disks Recorded Continued

Server Name(s)	Device Name	Local Capacity	Free Capacity	Used Capacity	95% IOPS	Read/Write Ratio
dwh.intern.mercateo.com	xvdc	1.99 TB	431.00 GB	1.57 TB	2022	95% / 5%
picture1	xvdc	1.99 TB	676.00 GB	1.33 TB	94	57% / 43%
mongodb03.intern.mercateo.c...	xvdc	160.00 GB	46.00 GB	114.00 GB	345	97% / 3%
picture2	xvdc	1.99 TB	676.00 GB	1.33 TB	124	51% / 49%
mongodb01	xvdc	180.00 GB	66.00 GB	114.00 GB	140	17% / 83%
picture2	xvde	650.00 GB	171.00 GB	479.00 GB	0	100% / 0%
picture1	xvde	650.00 GB	171.00 GB	479.00 GB	4	100% / 0%
dwh.intern.mercateo.com	xvde	900.00 GB	603.00 GB	297.00 GB	497	100% / 0%
mongodb02	xvde	160.00 GB	45.00 GB	115.00 GB	143	17% / 83%

Capacity shown only reports capacity that is local to the disk. Shared Cluster Disk capacities are not shown in this table. IOPS shown are based on the 99th percentile IOPS for the individual disk. As each disks individual 99th percentile may occur at different times than other disks, adding up the individual disk 99th percentiles will not be the same as the summary aggregate 99th percentile IOPS for the entire report.

The Read and Write ratios shown represent the ratios during the top 10% of the disk's IO activity as measured by IOPS.

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Definitions

CPU:

The CPU shown in the individual server reports measures the utilization of the CPU as a percentage of the total available CPU clock cycles. When shown in the aggregate summary, the CPU aggregate represents the sum of the clock cycles utilized.

IO Transfer Size:

This unit of measure records the average payload size of a given set of read or write operations. The average IO transfer size may be used to describe the nature of the IO workload and is an important factor in understanding the character of an IO workload.

IOPS:

DPACK monitors the read and write operations at the block storage layer of the host operating system. IOPS are the Input / Output Operations per Second performed by a physical server host or a virtual machine.

Latency:

The average time required for the host to complete an IO operation is measured as its average latency. DPACK monitors latency at the host level. Like queue depth, the host's latency will differ from latency reported by external storage arrays, and individual disks within RAID sets. Intermittent spikes in latency should not be a matter of concern. Also, average latency reported in DPACK is only accurate when the sustained IOPS are over 100 IOs per second. High latencies reported during very low periods of IOPS should be discounted and often can be attributed to counter skew factors associated with the latency calculation. Latency is an important factor when investigating a storage solution that is demonstrating known problems at the application layer. Most applications will not tolerate abnormally high levels of latency on a sustained basis.

MB/s:

Megabytes per second represents the average rate of read and write IO transfers in terms of payload size per second. This measures the IO throughput of a given system and is an important factor in sizing storage network bandwidth requirements.

Memory:

The memory shown in the individual server reports measures the total available (free) and used memory for the server. When shown in the aggregate summary, the total memory shown represents the aggregate memory usage (and free memory) of all servers in the report.

Participation:

This simple chart shows the number of servers that were monitored for the given sampling period. If the connection between DPACK and a server was lost, the participation chart will show a drop during the period when the server was out of communication with DPACK.

Queue Depth (QD):

The number of outstanding IO operations that are the host is processing at any given time is the queue depth. DPACK monitors queue depth at the host level. Host level queue depth will differ from the queue depth reported by external storage arrays, and individual disks within RAID sets. Storage devices tend to perform faster when queue depths are higher. However, high queue depths can also lead to higher than acceptable latencies.

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