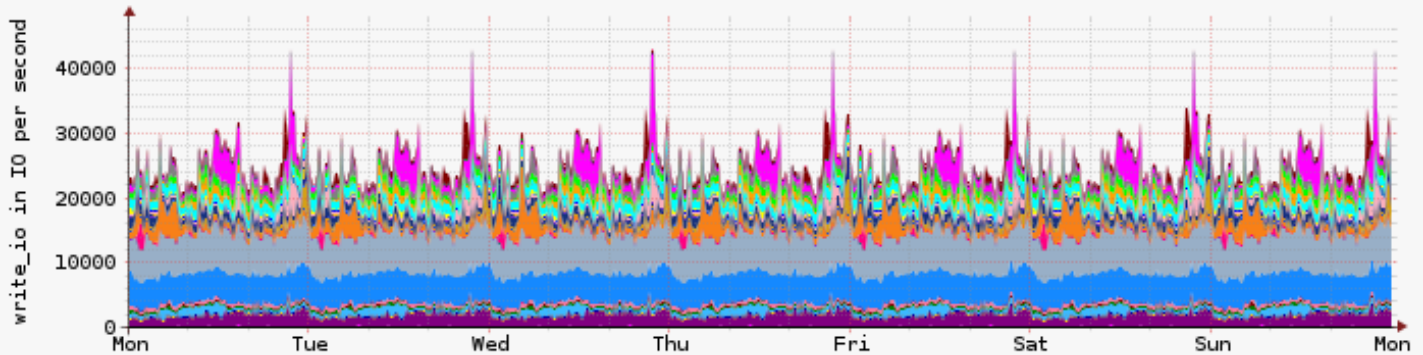


CUSTOM-GROUPS

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custom-group : VOLUME : aggregated: VMAX-all : 00:00:00 14.05.2018 - 00:00:00 21.05.2018

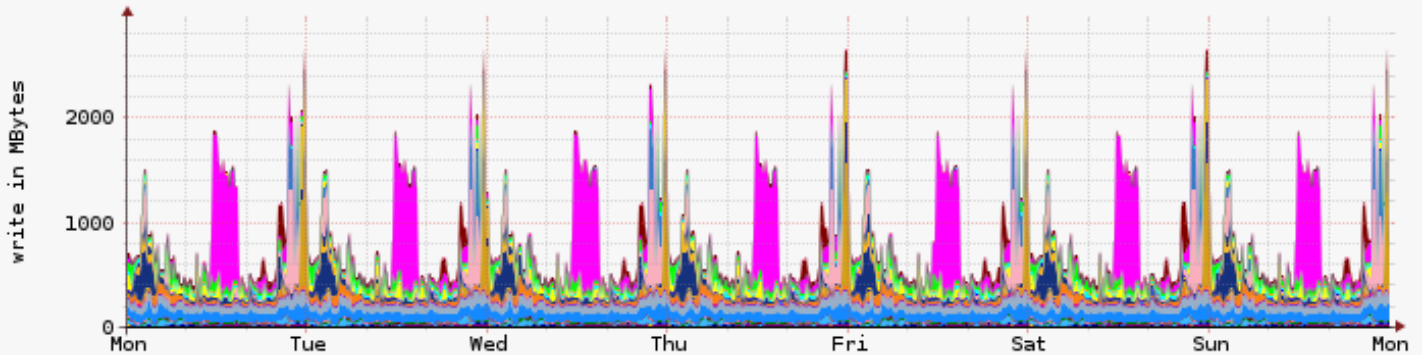


write_io [IOPS]	Avg	Max	Avg
AIX01	2	10	0
AIX03	2	30	0
DB01	0	0	0
DSM01	0	2	49
DSM03	1837	3113	129
ESXi1	184	281	709
EXCHANGE	290	602	86
HP02	0	0	492
MIG01	1	1	13
ORA03	0	6	1
ORACLE02	0	0	0
SUN02	0	0	0
SUN04	0	0	16
SVC02	6087	7514	43
SVC04	5	17	1
TEST01	0	0	0
TMS02	0	0	180
ZFS01	1476	8870	166
ZFS03	0	0	524
DB01_vg01	98	154	124
DB01_vg03	0	0	51
DB01_vg05	0	0	840
DB02_vg01	156	506	77
DB02_vg03	0	4	27
DB02_vg05	1	73	756
ESXi1_vg04	92	1549	1
EXCHANGE	102	246	0
MIG01	75	331	228
ORA3	1374	2058	687
ORACLE02	726	1925	793
TEST01	1478	13474	238
TSM02_vg01	34	49	4
TSM02_vg04	2	13	16
VG02	599	7586	3
vmware02	149	269	3
AIX02			0
AIX04			0
DB02			0
DSM02			49
DSM04			129
ESXi2			709
HP01			86
HP03			492
MIG02			13
ORACLE01			1
SUN01			0
SUN03			16
SVC01			4562
SVC03			43
SVC05			1
TEST02			0
TSM1			180
ZFS02			166
DB01			524
DB01_vg02			124
DB01_vg04			51
DB02			840
DB02_vg02			77
DB02_vg04			27
ESXi1			756
ESXi2			1
EXCHANGE_vg04sn			0
MIG02			228
ORACLE01			687
SUN04			793
TSM02			238
TSM02_vg02			4
TSM1			16
vmware01			3
vmware03			3

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custom-group : VOLUME : aggregated: VMAX-all : 00:00:00 14.05.2018 - 00:00:00 21.05.2018

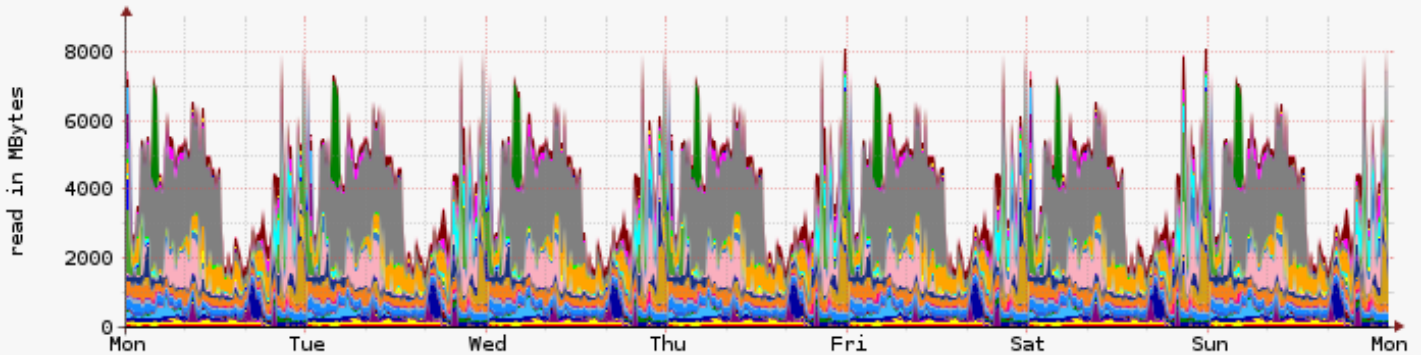


write [MB]	Avg	Max		Avg
AIX01	0.0	0.2	AIX02	0.0
AIX03	0.0	0.5	AIX04	0.0
DB01	0.0	0.0	DB02	0.0
DSM01	0.0	0.0	DSM02	2.3
DSM03	22.0	34.5	DSM04	0.7
ESXi1	4.4	8.0	ESXi2	18.4
EXCHANGE	9.2	37.5	HP01	1.5
HP02	0.0	0.0	HP03	6.3
MIG01	0.0	0.0	MIG02	0.1
ORA03	0.0	0.1	ORACLE01	0.0
ORACLE02	0.0	0.0	SUN01	0.0
SUN02	0.0	0.0	SUN03	0.2
SUN04	0.0	0.0	SVC01	93.7
SVC02	74.5	157.5	SVC03	19.5
SVC04	0.1	0.6	SVC05	0.0
TEST01	0.0	0.0	TEST02	0.0
TMS02	0.0	0.0	TSM1	1.6
ZFS01	33.6	162.0	ZFS02	4.6
ZFS03	0.0	0.0	DB01	43.5
DB01_vg01	1.4	7.5	DB01_vg02	9.1
DB01_vg03	0.0	0.0	DB01_vg04	19.8
DB01_vg05	0.0	0.0	DB02	53.7
DB02_vg01	4.6	14.6	DB02_vg02	11.7
DB02_vg03	0.0	0.4	DB02_vg04	9.7
DB02_vg05	0.0	1.7	ESXi1	65.8
ESXi1_vg04	30.8	624.3	ESXi2	0.0
EXCHANGE	1.2	6.2	EXCHANGE_vg04sn	0.0
MIG01	1.3	30.4	MIG02	31.4
ORA3	24.1	53.2	ORACLE01	10.9
ORACLE02	37.7	154.9	SUN04	28.1
TEST01	186.6	1405.6	TSM02	1.9
TSM02_vg01	0.8	1.1	TSM02_vg02	0.0
TSM02_vg04	0.0	2.2	TSM1	0.1
VG02	32.2	469.5	vmware01	0.0
vmware02	7.1	14.1	vmware03	0.0

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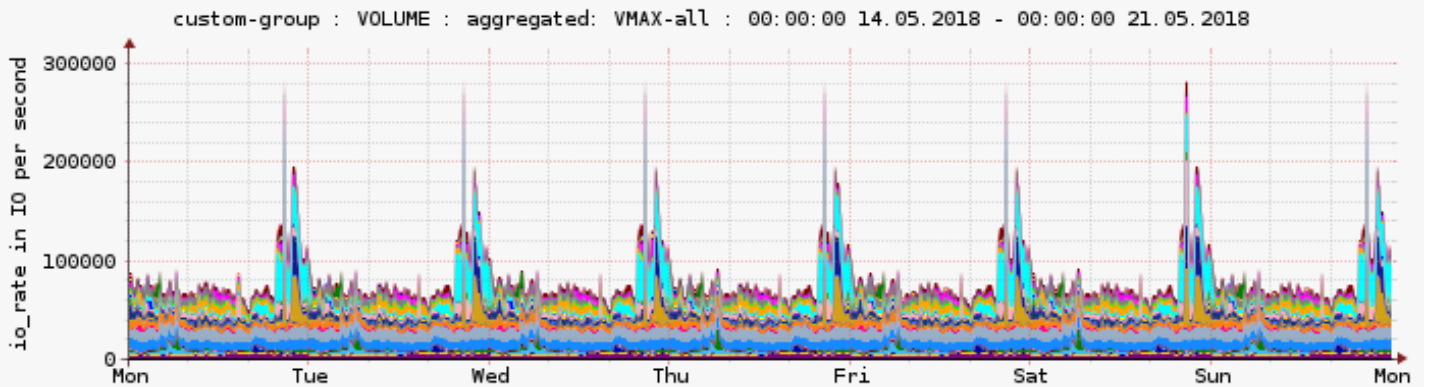
custom-group : VOLUME : aggregated: VMAX-all : 00:00:00 14.05.2018 - 00:00:00 21.05.2018



read [MB]	Avg	Max	Avg
AIX01	64.4	108.1	0.0
AIX03	64.5	111.5	0.0
DB01	0.0	0.0	0.0
DSM01	0.0	1.7	9.2
DSM03	73.6	623.5	15.1
ESXi1	140.8	1072.2	58.0
EXCHANGE	31.0	213.9	12.5
HP02	0.0	0.0	5.6
MIG01	0.0	0.0	0.1
ORA03	0.0	1.7	0.0
ORACLE02	0.0	0.0	0.0
SUN02	0.0	0.0	71.2
SUN04	0.0	0.0	141.8
SVC02	80.7	172.2	19.9
SVC04	0.0	2.3	0.7
TEST01	0.0	0.0	0.0
TMS02	0.0	0.0	25.3
ZFS01	248.1	501.6	4.8
ZFS03	0.0	0.0	135.3
DB01_vg01	11.0	19.0	50.3
DB01_vg03	0.0	0.0	24.0
DB01_vg05	0.0	0.0	113.8
DB02_vg01	18.3	150.9	4.0
DB02_vg03	0.0	2.1	15.9
DB02_vg05	0.1	3.9	346.5
ESXi1_vg04	88.9	1155.5	200.8
EXCHANGE	1.8	15.4	0.0
MIG01	25.1	885.8	41.9
ORA3	146.5	968.3	289.6
ORACLE02	29.7	204.9	1241.2
TEST01	114.0	607.6	50.2
TSM02_vg01	22.4	103.9	2.3
TSM02_vg04	23.9	917.3	121.3
VG02	266.9	1066.3	0.0
vmware02	15.3	271.9	0.0
AIX02			0.0
AIX04			0.0
DB02			0.0
DSM02			9.2
DSM04			15.1
ESXi2			58.0
HP01			12.5
HP03			5.6
MIG02			0.1
ORACLE01			0.0
SUN01			0.0
SUN03			71.2
SVC01			141.8
SVC03			19.9
SVC05			0.7
TEST02			0.0
TSM1			25.3
ZFS02			4.8
DB01			135.3
DB01_vg02			50.3
DB01_vg04			24.0
DB02			113.8
DB02_vg02			4.0
DB02_vg04			15.9
ESXi1			346.5
ESXi2			200.8
EXCHANGE_vg04sn			0.0
MIG02			41.9
ORACLE01			289.6
SUN04			1241.2
TSM02			50.2
TSM02_vg02			2.3
TSM1			121.3
vmware01			0.0
vmware03			0.0

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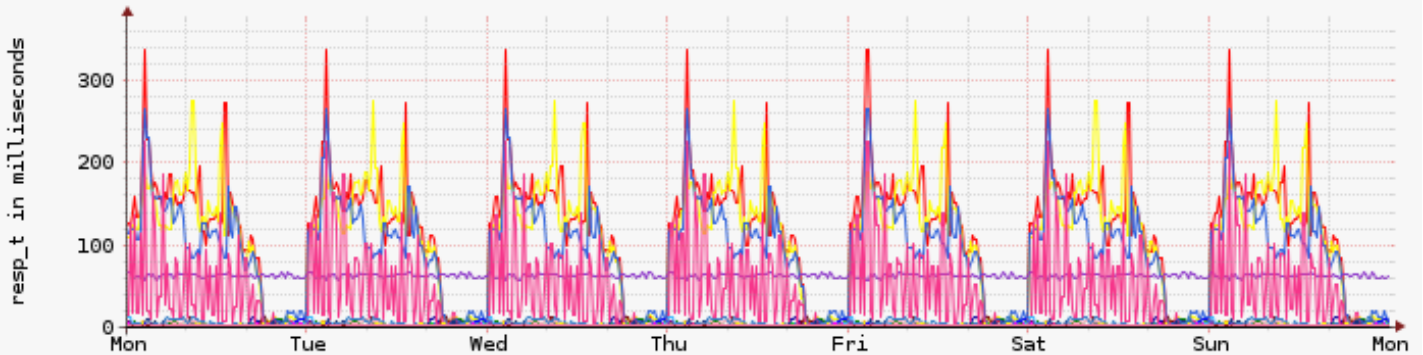


io_rate [IOPS]	Avg	Max	Avg
AIX01	275	543	0
AIX03	378	934	0
DB01	0	0	0
DSM01	2	47	102
DSM03	3588	5696	1728
ESXi1	888	6459	1558
EXCHANGE	1371	21213	572
HP02	0	0	584
MIG01	1	1	13
ORA03	2	61	3
ORACLE02	0	0	0
SUN02	0	0	538
SUN04	0	0	8858
SVC02	11129	14184	159
SVC04	5	66	42
TEST01	0	0	0
TMS02	0	0	720
ZFS01	5132	12127	402
ZFS03	0	0	4387
DB01_vg01	739	1277	2246
DB01_vg03	0	0	165
DB01_vg05	0	0	3031
DB02_vg01	853	2599	337
DB02_vg03	2	125	195
DB02_vg05	4	292	4950
ESXi1_vg04	655	6213	656
EXCHANGE	197	509	0
MIG01	396	7240	554
ORA3	9731	48625	4550
ORACLE02	1242	3830	4263
TEST01	2735	17041	990
TSM02_vg01	446	2618	146
TSM02_vg04	158	2040	633
VG02	2194	12776	4
vmware02	502	1820	3
AIX02			0
AIX04			0
DB02			0
DSM02			102
DSM04			1728
ESXi2			1558
HP01			572
HP03			584
MIG02			13
ORACLE01			3
SUN01			0
SUN03			538
SVC01			8858
SVC03			159
SVC05			42
TEST02			0
TSM1			720
ZFS02			402
DB01			4387
DB01_vg02			2246
DB01_vg04			165
DB02			3031
DB02_vg02			337
DB02_vg04			195
ESXi1			4950
ESXi2			656
EXCHANGE_vg04sn			0
MIG02			554
ORACLE01			4550
SUN04			4263
TSM02			990
TSM02_vg02			146
TSM1			633
vmware01			4
vmware03			3

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custom-group : VOLUME : aggregated: VMAX-all : 00:00:00 14.05.2018 - 00:00:00 21.05.2018

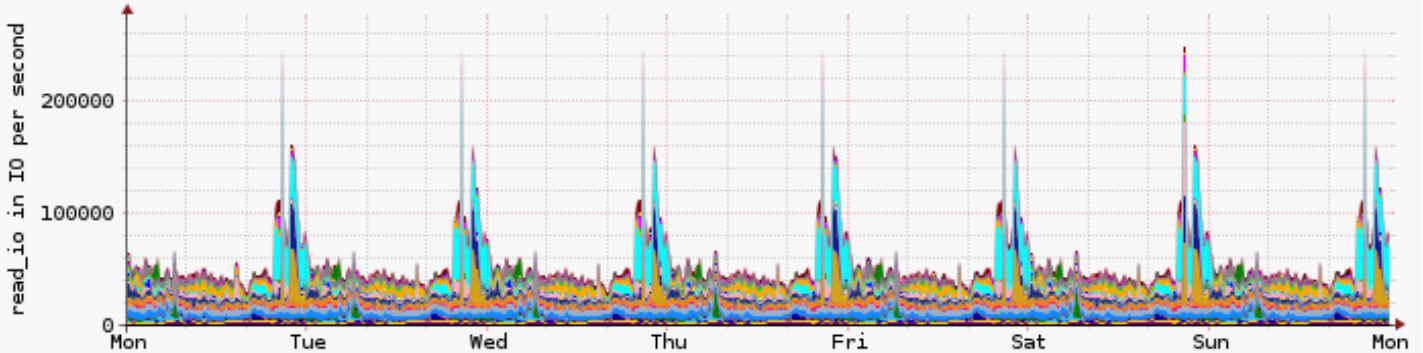


resp_t [ms]	Avg	Max		Avg
AIX01	112.4	338.2	AIX02	0.0
AIX03	107.9	275.6	AIX04	1.4
DB01	0.0	0.2	DB02	1.5
DSM01	2.1	5.6	DSM02	1.7
DSM03	1.3	2.3	DSM04	0.5
ESXi1	1.9	11.5	ESXi2	1.5
EXCHANGE	2.9	10.1	HP01	1.9
HP02	0.4	3.3	HP03	0.7
MIG01	1.0	1.3	MIG02	0.5
ORA03	1.4	5.3	ORACLE01	1.2
ORACLE02	0.0	0.1	SUN01	0.0
SUN02	0.0	0.1	SUN03	93.4
SUN04	0.0	0.1	SVC01	1.1
SVC02	1.8	2.5	SVC03	62.6
SVC04	0.5	2.3	SVC05	43.1
TEST01	0.0	0.0	TEST02	0.0
TMS02	0.1	0.6	TSM1	1.0
ZFS01	1.7	3.7	ZFS02	1.9
ZFS03	0.0	0.0	DB01	0.6
DB01_vg01	0.2	0.4	DB01_vg02	0.5
DB01_vg03	0.0	0.0	DB01_vg04	0.3
DB01_vg05	0.0	0.0	DB02	2.2
DB02_vg01	1.3	2.6	DB02_vg02	0.9
DB02_vg03	0.0	1.1	DB02_vg04	1.9
DB02_vg05	0.0	1.7	ESXi1	2.8
ESXi1_vg04	4.8	12.8	ESXi2	0.4
EXCHANGE	1.0	1.9	EXCHANGE_vg04sn	0.0
MIG01	1.6	8.8	MIG02	2.1
ORA3	1.3	2.8	ORACLE01	1.4
ORACLE02	1.8	2.9	SUN04	2.2
TEST01	1.9	4.8	TSM02	0.7
TSM02_vg01	0.5	1.3	TSM02_vg02	0.4
TSM02_vg04	1.0	13.4	TSM1	0.4
VG02	2.0	3.5	vmware01	0.3
vmware02	2.2	3.2	vmware03	0.3

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custom-group : VOLUME : aggregated: VMAX-all : 00:00:00 14.05.2018 - 00:00:00 21.05.2018

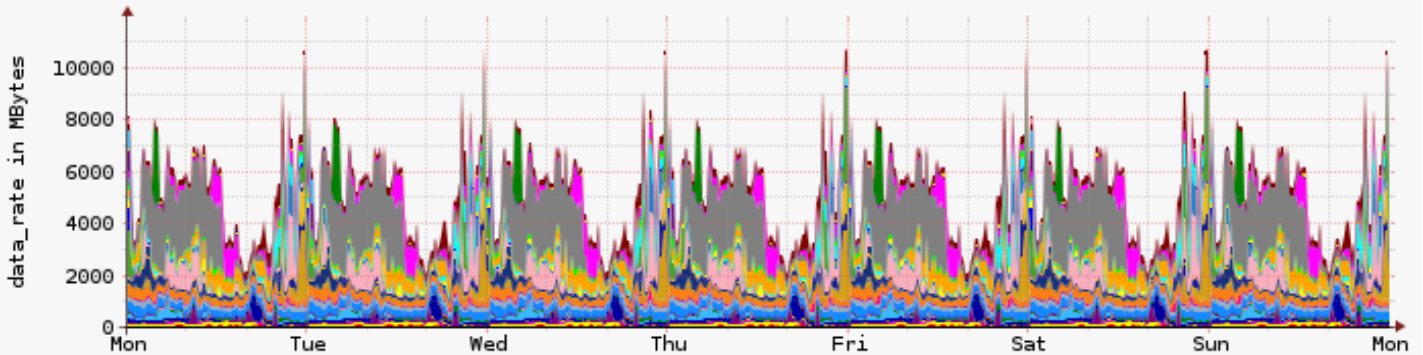


read_io [IOPS]	Avg	Max		Avg
AIX01	273	541	AIX02	0
AIX03	376	930	AIX04	0
DB01	0	0	DB02	0
DSM01	1	45	DSM02	53
DSM03	1751	3535	DSM04	1599
ESXi1	704	6224	ESXi2	850
EXCHANGE	1082	20951	HP01	486
HP02	0	0	HP03	92
MIG01	0	0	MIG02	0
ORA03	1	55	ORACLE01	2
ORACLE02	0	0	SUN01	0
SUN02	0	0	SUN03	522
SUN04	0	0	SVC01	4296
SVC02	5043	7139	SVC03	116
SVC04	1	49	SVC05	41
TEST01	0	0	TEST02	0
TMS02	0	0	TSM1	540
ZFS01	3656	6781	ZFS02	236
ZFS03	0	0	DB01	3862
DB01_vg01	641	1166	DB01_vg02	2123
DB01_vg03	0	0	DB01_vg04	114
DB01_vg05	0	0	DB02	2191
DB02_vg01	698	2420	DB02_vg02	260
DB02_vg03	2	121	DB02_vg04	169
DB02_vg05	3	219	ESXi1	4194
ESXi1_vg04	562	5451	ESXi2	656
EXCHANGE	95	320	EXCHANGE_vg04sn	0
MIG01	321	7031	MIG02	325
ORA3	8357	47215	ORACLE01	3863
ORACLE02	516	2745	SUN04	3469
TEST01	1258	14996	TSM02	752
TSM02_vg01	411	2574	TSM02_vg02	142
TSM02_vg04	155	2037	TSM1	617
VG02	1596	10274	vmware01	0
vmware02	354	1659	vmware03	0

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custom-group : VOLUME : aggregated: VMAX-all : 00:00:00 14.05.2018 - 00:00:00 21.05.2018



data_rate [MB]	Avg	Max	Avg
AIX01	64.4	108.1	0.0
AIX03	64.5	111.5	0.0
DB01	0.0	0.0	0.0
DSM01	0.0	1.7	11.4
DSM03	95.6	646.3	15.8
ESXi1	145.2	1078.1	76.4
EXCHANGE	40.3	222.7	14.0
HP02	0.0	0.0	11.9
MIG01	0.0	0.0	0.3
ORA03	0.0	1.8	0.0
ORACLE02	0.0	0.0	0.0
SUN02	0.0	0.0	71.4
SUN04	0.0	0.0	235.5
SVC02	155.2	258.2	39.3
SVC04	0.1	2.9	0.7
TEST01	0.0	0.0	0.0
TMS02	0.0	0.0	26.9
ZFS01	281.7	518.2	9.4
ZFS03	0.0	0.0	178.9
DB01_vg01	12.4	26.2	59.4
DB01_vg03	0.0	0.0	43.8
DB01_vg05	0.0	0.0	167.6
DB02_vg01	22.9	155.1	15.7
DB02_vg03	0.0	2.5	25.5
DB02_vg05	0.1	5.6	412.3
ESXi1_vg04	119.6	1731.6	200.8
EXCHANGE	3.0	16.5	0.0
MIG01	26.4	886.3	73.4
ORA3	170.5	992.1	300.5
ORACLE02	67.4	359.8	1269.3
TEST01	300.6	1410.5	52.0
TSM02_vg01	23.2	104.8	2.4
TSM02_vg04	24.0	917.4	121.4
VG02	299.0	1418.0	0.0
vmware02	22.4	280.0	0.0
AIX02			0.0
AIX04			0.0
DB02			0.0
DSM02			11.4
DSM04			15.8
ESXi2			76.4
HP01			14.0
HP03			11.9
MIG02			0.3
ORACLE01			0.0
SUN01			0.0
SUN03			71.4
SVC01			235.5
SVC03			39.3
SVC05			0.7
TEST02			0.0
TSM1			26.9
ZFS02			9.4
DB01			178.9
DB01_vg02			59.4
DB01_vg04			43.8
DB02			167.6
DB02_vg02			15.7
DB02_vg04			25.5
ESXi1			412.3
ESXi2			200.8
EXCHANGE_vg04sn			0.0
MIG02			73.4
ORACLE01			300.5
SUN04			1269.3
TSM02			52.0
TSM02_vg02			2.4
TSM1			121.4
vmware01			0.0
vmware03			0.0