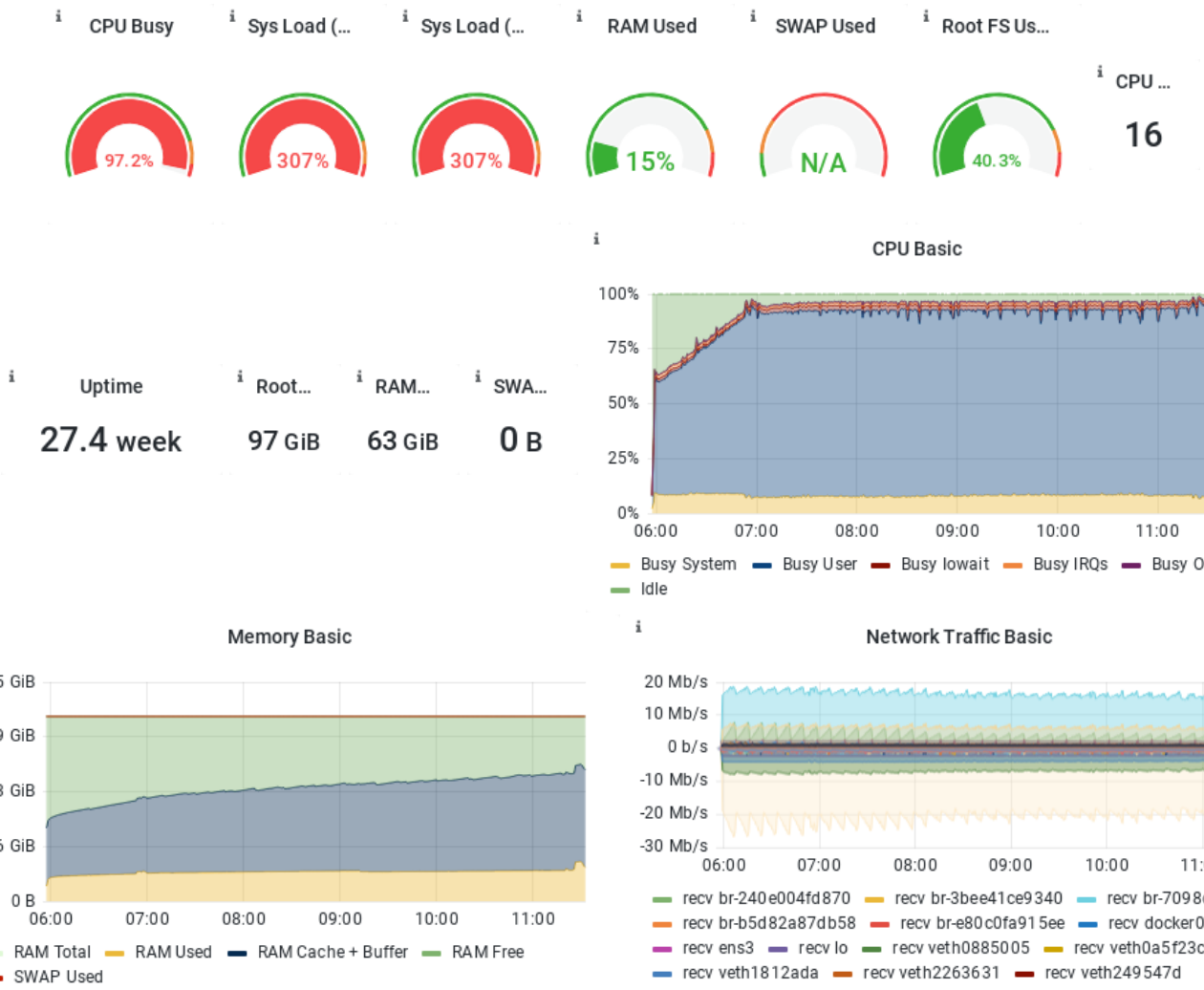
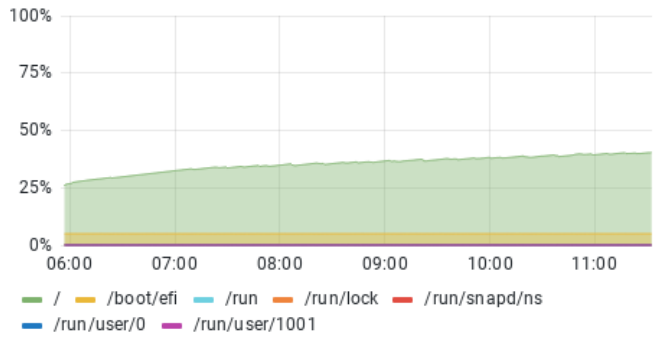
Host Metrics

The dashboard visualizes host metrics collected by node_exporter. (based on: https://grafana.com/grafana/dashboards/1860)

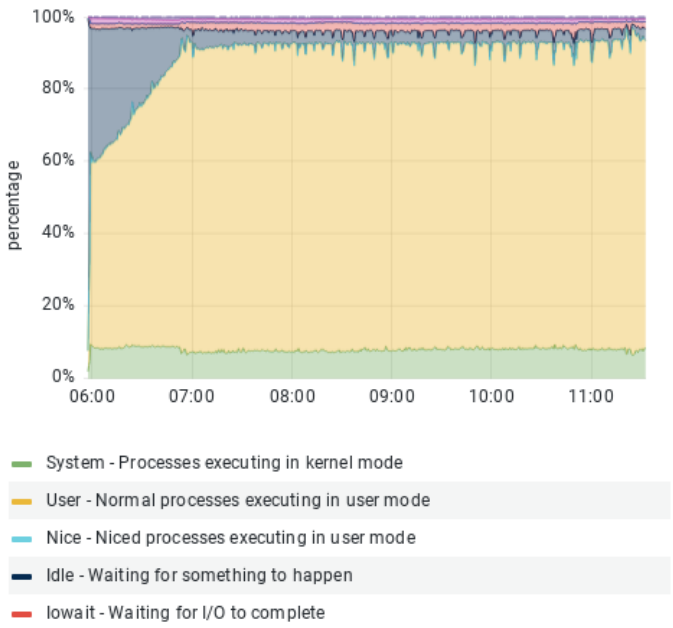
Fri Apr 22 05:54:53 UTC 2022
to
Fri Apr 22 11:32:47 UTC 2022



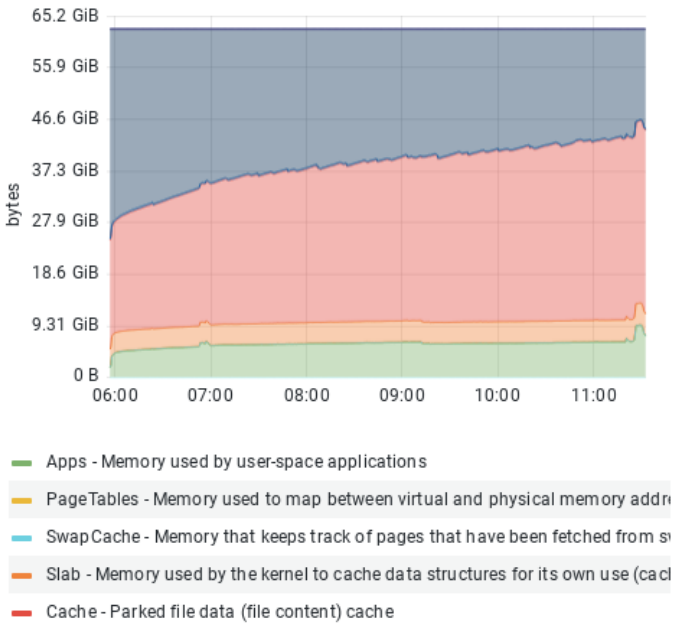
Disk Space Used Basic



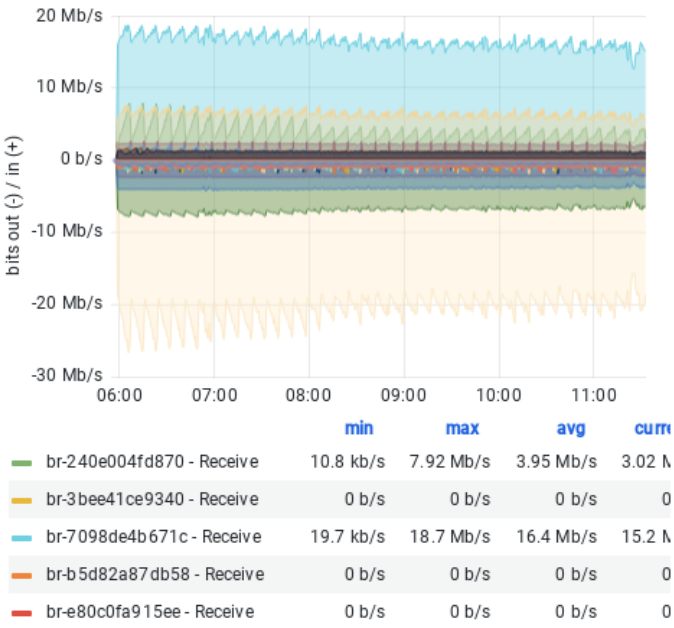
CPU



Memory Stack

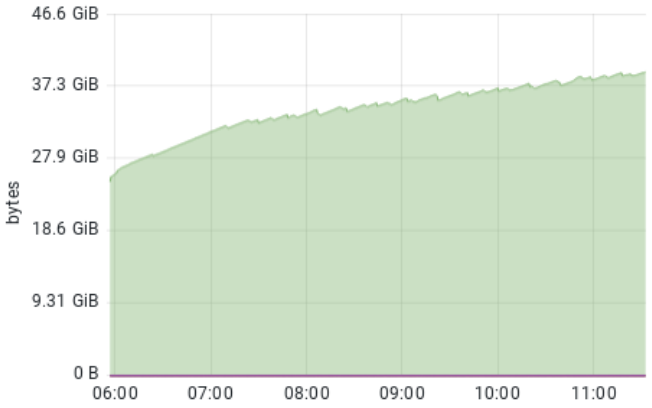


Network Traffic



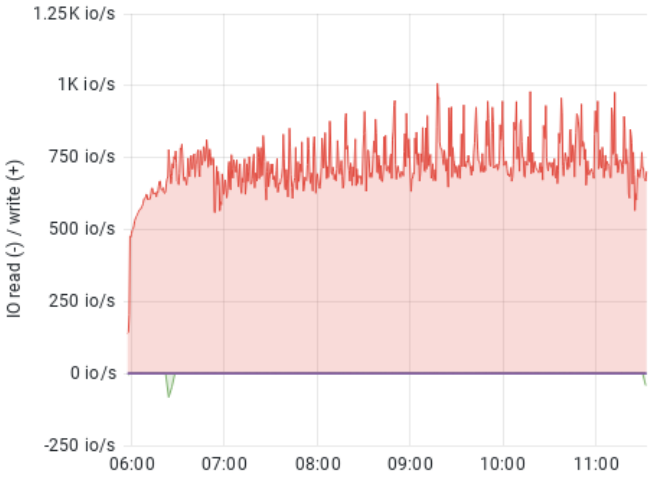
	min	max	avg	curr
br-240e004fd870 - Receive	10.8 kb/s	7.92 Mb/s	3.95 Mb/s	3.02 M
br-3bee41ce9340 - Receive	0 b/s	0 b/s	0 b/s	0
br-7098de4b671c - Receive	19.7 kb/s	18.7 Mb/s	16.4 Mb/s	15.2 M
br-b5d82a87db58 - Receive	0 b/s	0 b/s	0 b/s	0
br-e80c0fa915ee - Receive	0 b/s	0 b/s	0 b/s	0

Disk Space Used



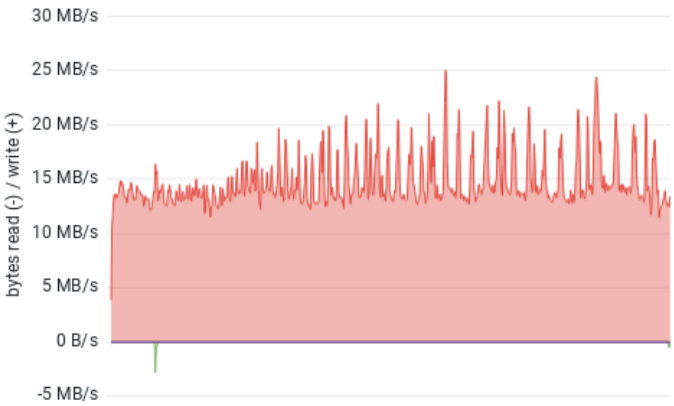
	min	max	avg	current
/run/lock	0 B	0 B	0 B	0 B
/run/user/0	0 B	0 B	0 B	0 B
/run/user/1001	0 B	0 B	0 B	0 B
/run	2.199 MiB	3.730 MiB	3.714 MiB	3.719 MiB
/run/snapd/ns	2.199 MiB	3.730 MiB	3.714 MiB	3.719 MiB

Disk IOps



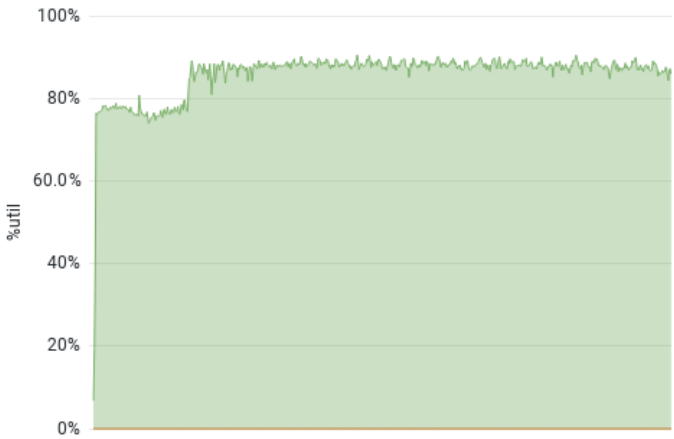
	min	max	avg	curren
vda - Reads completed	0 io/s	82.8 io/s	1.08 io/s	41.9 io
vdb - Reads completed	0 io/s	0.00833 io/s	0.0000496 io/s	0 io
vda - Writes completed	139 io/s	1.01K io/s	722 io/s	702 io

I/O Usage Read / Write



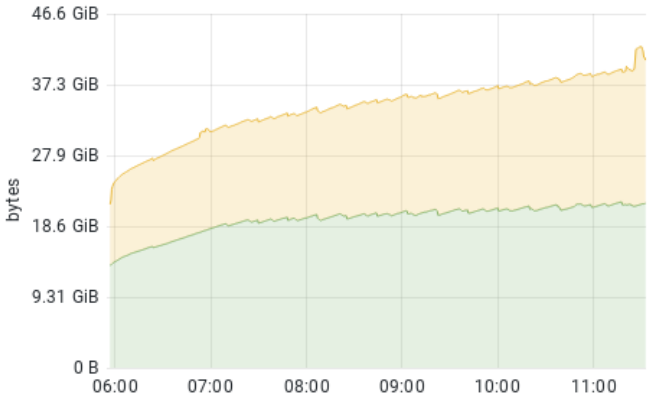
	min	max	avg
vda - Successfully read bytes	0 B/s	2.794 MB/s	7.437 kB/s
vdb - Successfully read bytes	0 B/s	2.913 kB/s	4.341 B/s
vdc - Successfully read bytes	0 B/s	0 B/s	0 B/s
vdd - Successfully read bytes	0 B/s	0 B/s	0 B/s
vda - Successfully written bytes	3.885 MB/s	24.994 MB/s	14.746 MB/s

I/O Utilization



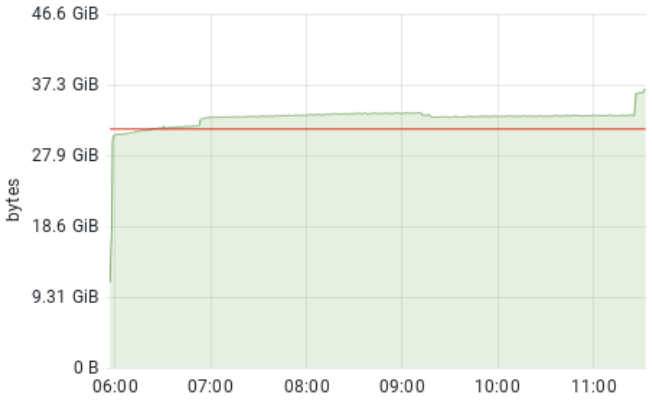
	min	max	avg	current
vda	6.808%	90.453%	85.837%	85.885%
vdb	0%	0.009%	0.000%	0%
vdc	0%	0%	0%	0%
vdd	0%	0%	0%	0%

Memory Active / Inactive



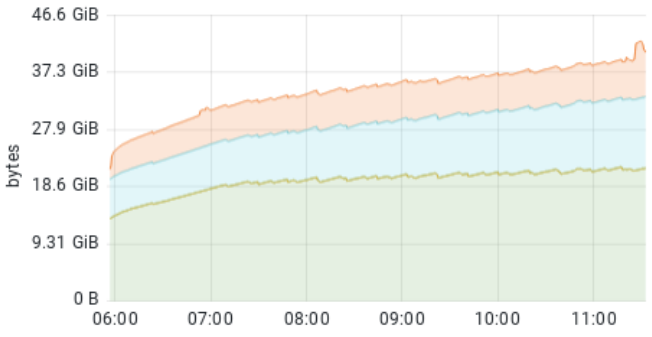
- Inactive - Memory which has been less recently used. It is more eligible to be re
- Active - Memory that has been used more recently and usually not reclaimed u

Memory Commited



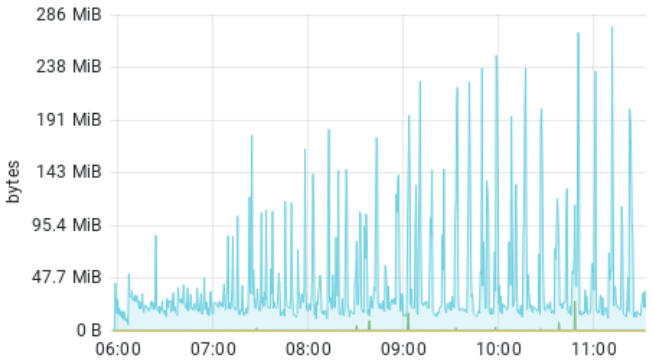
- Committed_AS - Amount of memory presently allocated on the system
- CommitLimit - Amount of memory currently available to be allocated on the sy

Memory Active / Inactive Detail



- Inactive_file - File-backed memory on inactive LRU list
- Inactive_anon - Anonymous and swap cache on inactive LRU list, including tmp
- Active_file - File-backed memory on active LRU list
- Active_anon - Anonymous and swap cache on active least-recently-used (LRU)

Memory Writeback and Dirty



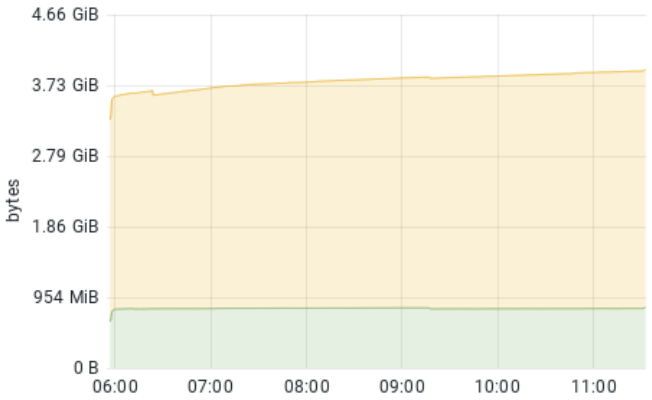
min

- Writeback - Memory which is actively being written back to disk 0 B
- WritebackTmp - Memory used by FUSE for temporary writeback buffers 0 B
- Dirty - Memory which is waiting to get written back to the disk 0 B

Memory Shared and Mapped

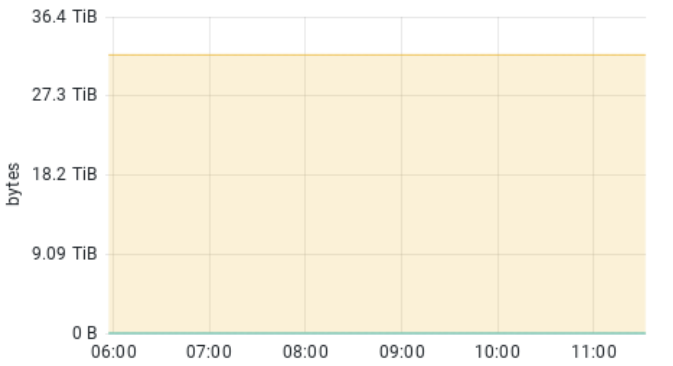
- Mapped - Used memory in mapped pages files which have been mmaped, such
- Shmem - Used shared memory (shared between several processes, thus includ
- ShmemHugePages - Memory used by shared memory (shmem) and tmpfs allc
- ShmemPmdMapped - Ammount of shared (shmem/tmpfs) memory backed by

Memory Slab



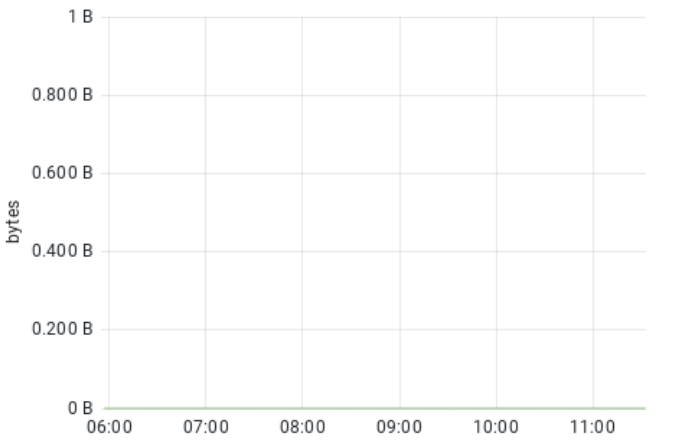
- SUnreclaim - Part of Slab, that cannot be reclaimed on memory pressure 62
- SReclaimable - Part of Slab, that might be reclaimed, such as caches

Memory Vmalloc



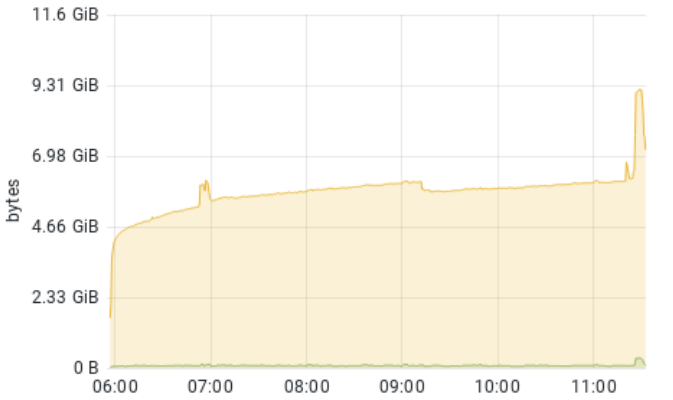
VmallocChunk - Largest contigious block of vmalloc area which is free	
VmallocTotal - Total size of vmalloc memory area	32.0
VmallocUsed - Amount of vmalloc area which is used	32.8

Memory Bounce



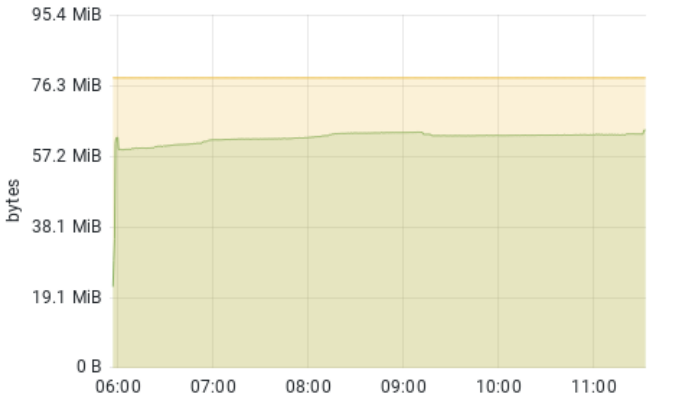
	min	max	avg	curr
Bounce - Memory used for block device bounce buffers	0 B	0 B	0 B	

Memory Anonymous



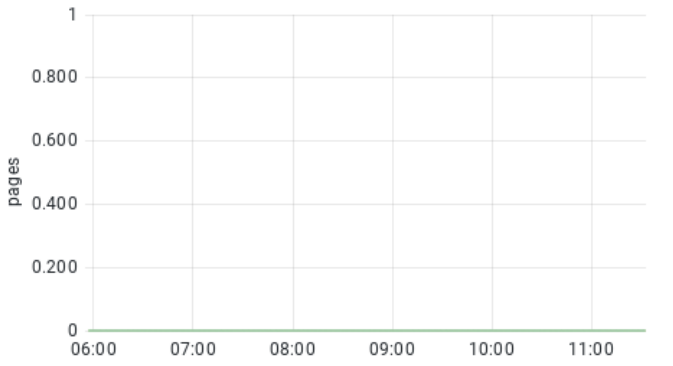
	min	ma
AnonHugePages - Memory in anonymous huge pages	0 B	338.00 M
AnonPages - Memory in user pages not backed by files	1.65 GiB	9.18 G

Memory Kernel / CPU



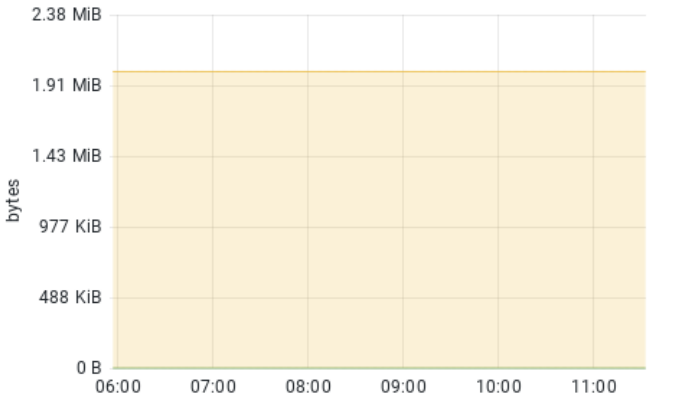
KernelStack - Kernel memory stack. This is not reclaimable	21.9
PerCPU - Per CPU memory allocated dynamically by loadable modules	78.3

Memory HugePages Counter



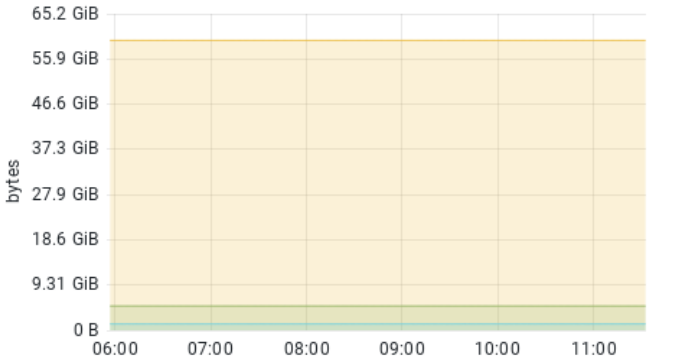
HugePages_Free - Huge pages in the pool that are not yet allocated
HugePages_Rsvd - Huge pages for which a commitment to allocate from the p
HugePages_Surp - Huge pages in the pool above the value in /proc/sys/vm/nr

Memory HugePages Size



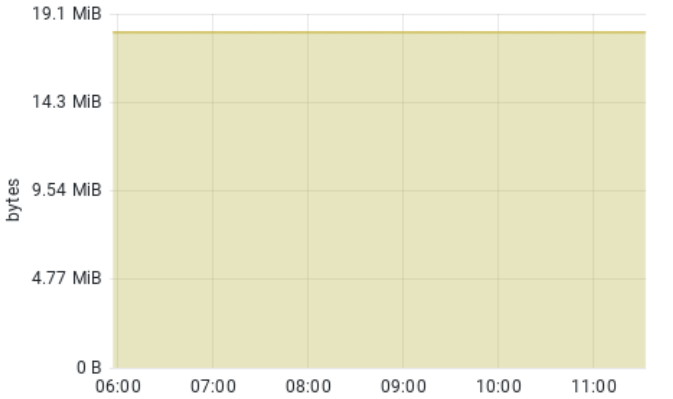
	min	max	cu
HugePages - Total size of the pool of huge pages	0 B	0 B	
Hugepagesize - Huge Page size	2.00 MiB	2.00 MiB	2.0

Memory DirectMap



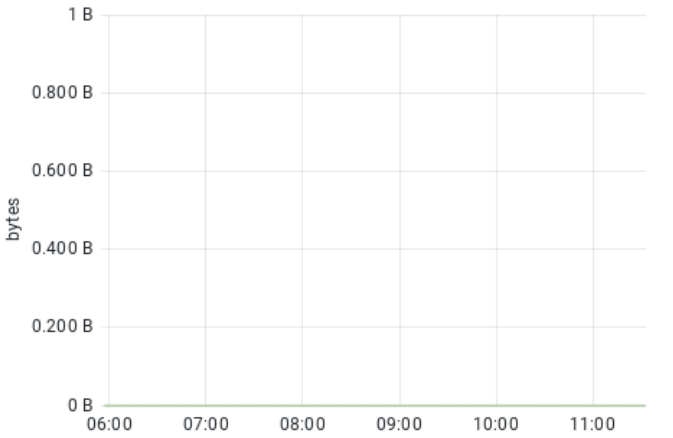
	min	max
DirectMap1G - Amount of pages mapped as this size	5.00 GiB	5.00 GiB
DirectMap2M - Amount of pages mapped as this size	59.71 GiB	59.71 GiB
DirectMap4K - Amount of pages mapped as this size	1.29 GiB	1.29 GiB

Memory Unevictable and MLocked



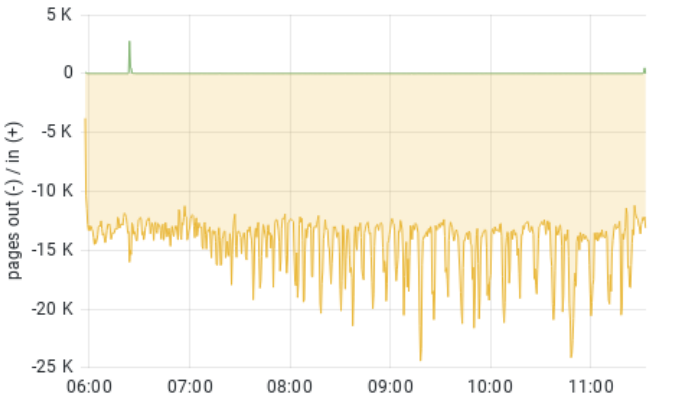
- Unevictable - Amount of unevictable memory that can't be swapped out for a v
- MLocked - Size of pages locked to memory using the mlock() system call

Memory NFS



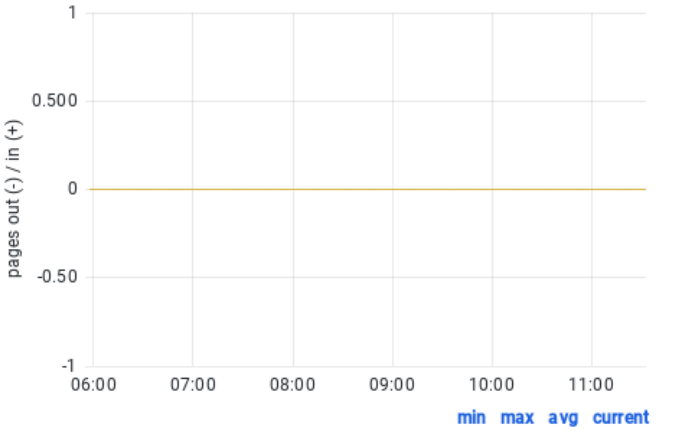
- NFS Unstable - Memory in NFS pages sent to the server, but not yet commited t

Memory Pages In / Out



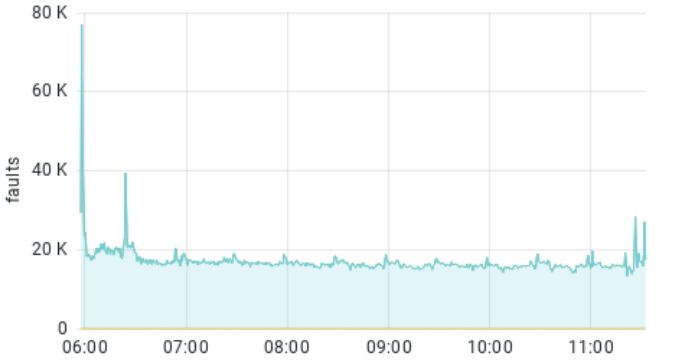
	min	max	avg	current
Pagesin - Page in operations	0	2.75 K	7.30	0.178
Pagesout - Page out operations	3.79 K	24.4 K	14.4 K	13.1 K

Memory Pages Swap In / Out



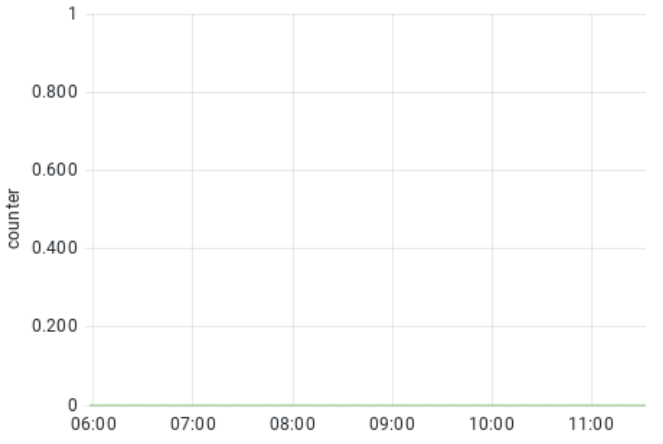
	min	max	avg	current
Pswpin - Pages swapped in	0	0	0	0
Pswpout - Pages swapped out	0	0	0	0

Memory Page Faults



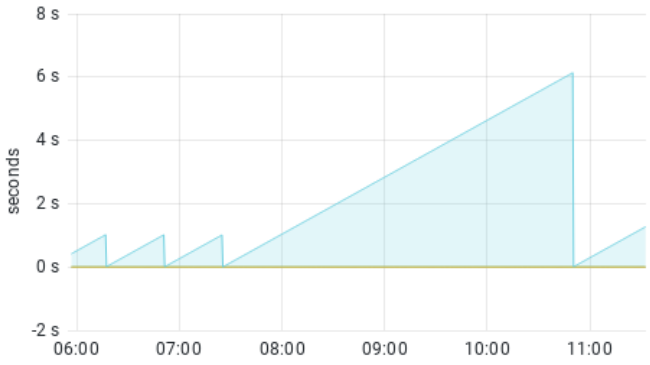
	min	max	av
Pgfault - Page major and minor fault operations	13.26 K	77.08 K	16.9
Pgmajfault - Major page fault operations	0	0.03	0
Pgminfault - Minor page fault operations	13.26 K	77.08 K	16.9

OOM Killer



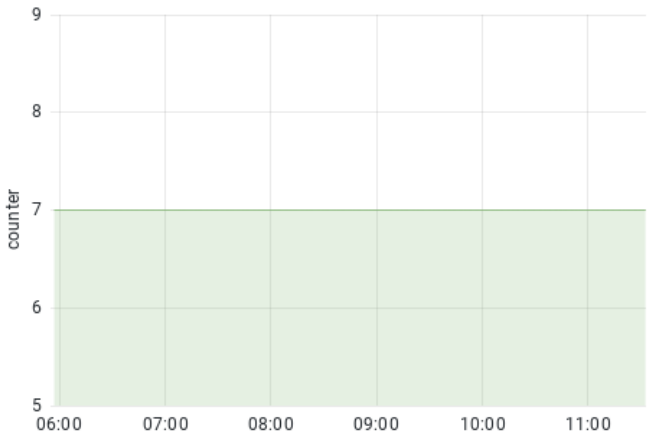
	min	max	avg	current
oom killer invocations	0	0	0	0

Time Syncronized Drift



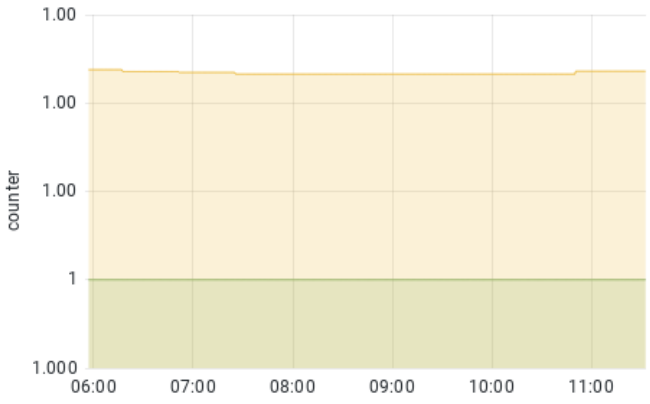
	min	max
Estimated error in seconds	0 s	0 s
Time offset in between local system and reference clock	-425 µs	595 µs
Maximum error in seconds	500 µs	6.14 s

Time PLL Adjust



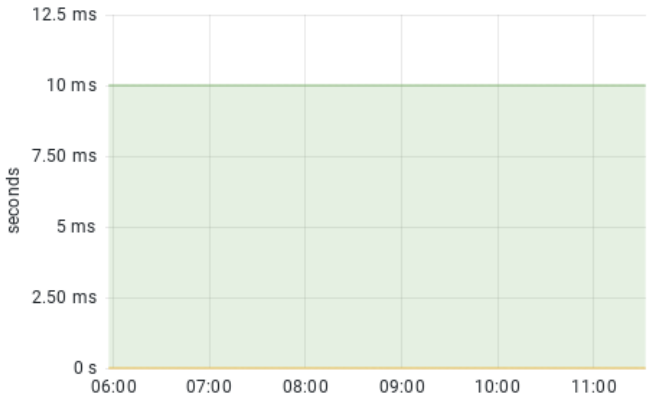
	min	max	avg	current
Phase-locked loop time adjust	7	7	7	7

Time Syncronized Status



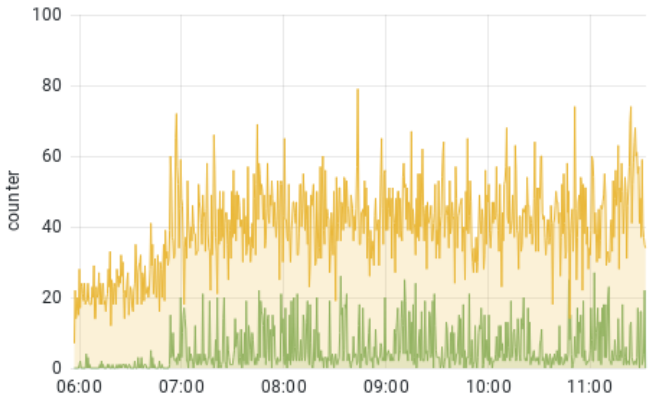
	min	max	avg
Is clock synchronized to a reliable server (1 = yes, 0 = no)	1	1	
Local clock frequency adjustment	1.00	1.00	1.0

Time Misc



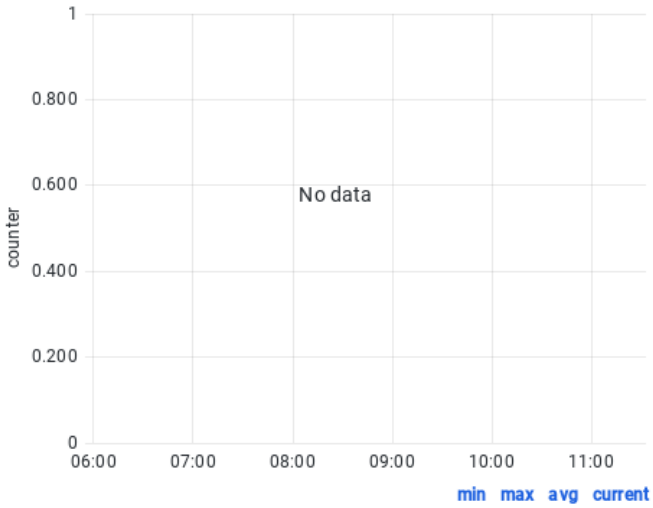
	min	max	avg	current
Seconds between clock ticks	10 ms	10 ms	10.00 ms	10 ms
International Atomic Time (TAI) offset	0 s	0 s	0 s	0 s

Processes Status

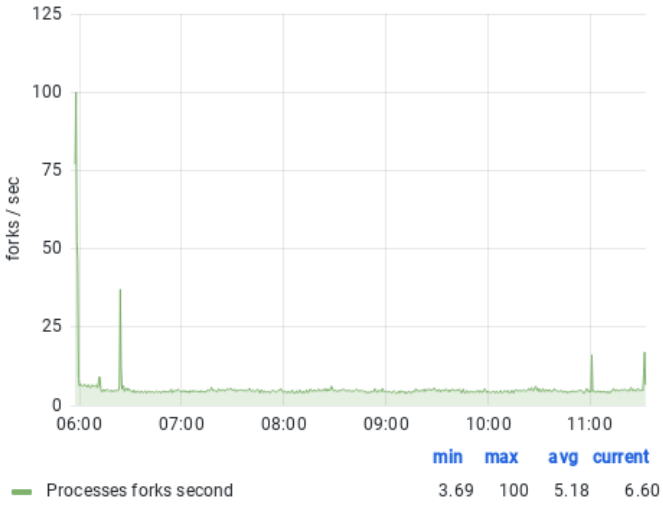


	min	max	avg	current
Processes blocked waiting for I/O to complete	0	27	5.15	0
Processes in runnable state	7	79	39.8	34

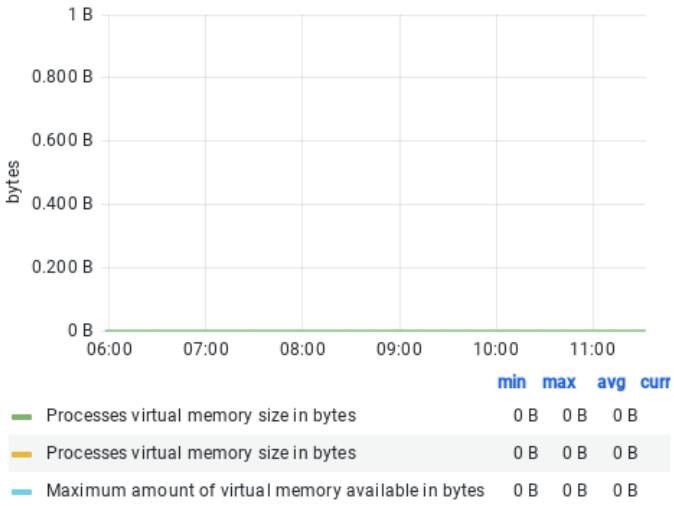
Processes State



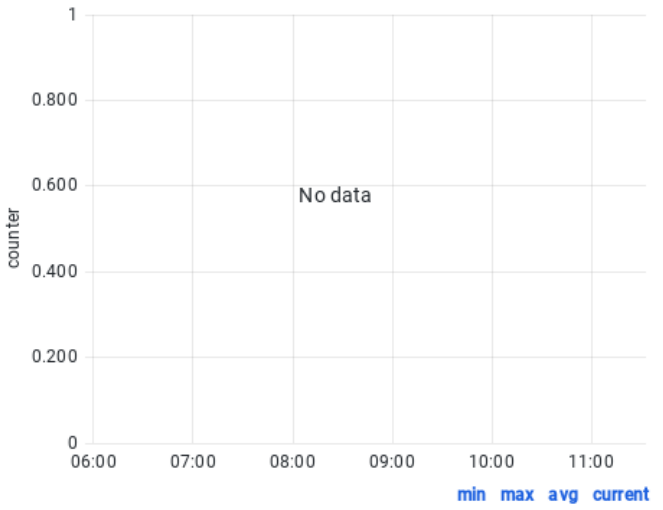
Processes Forks



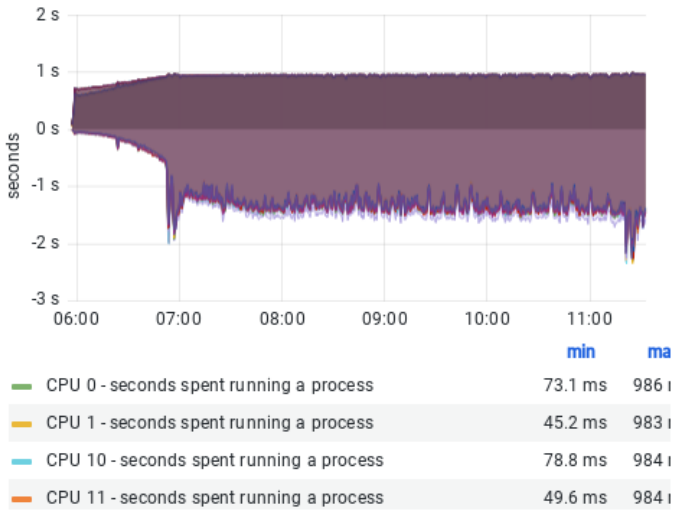
Processes Memory



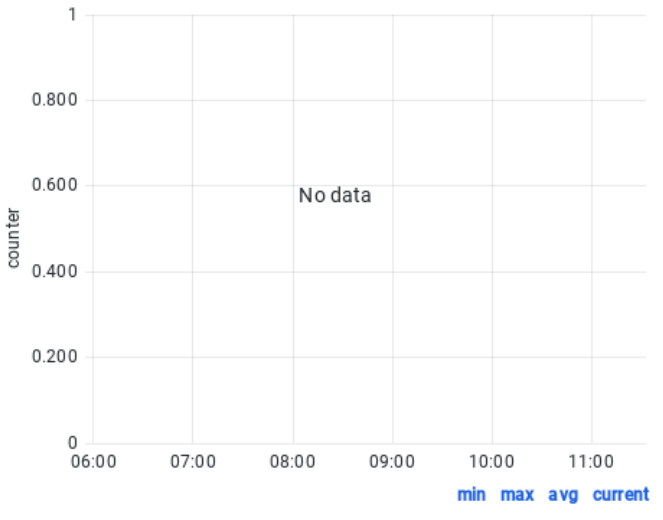
PIDs Number and Limit



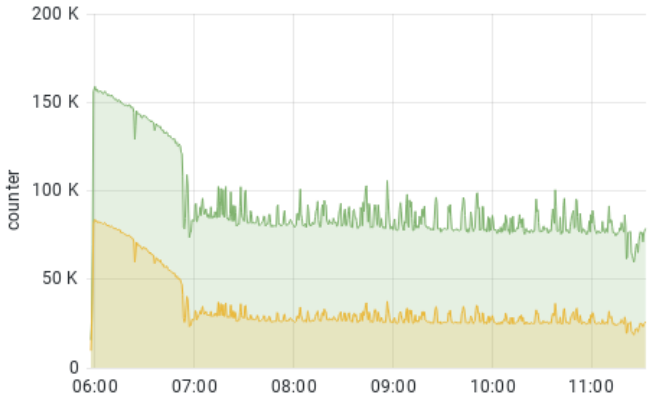
Process schedule stats Running / Waiting



Threads Number and Limit

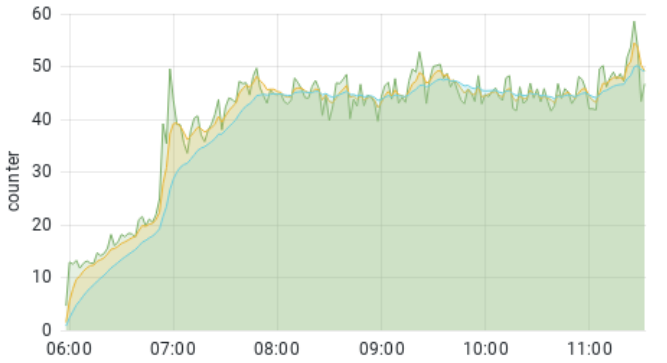


Context Switches / Interrupts



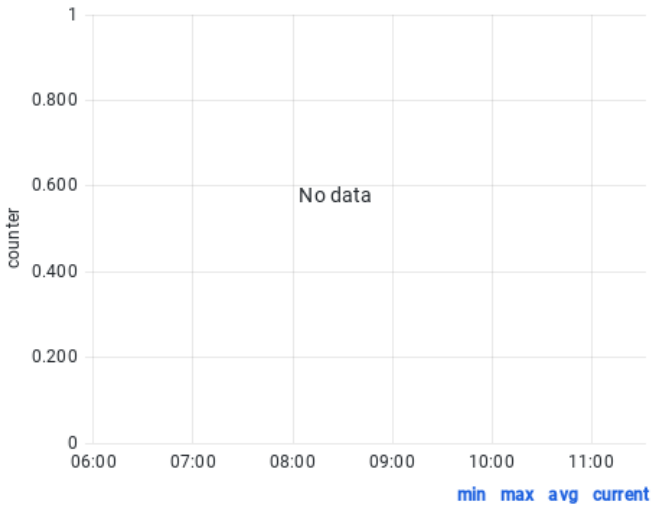
	min	max	avg	current
Context switches	15.8 K	159 K	92.2 K	78.7 K
Interrupts	9.65 K	83.8 K	34.3 K	26.0 K

System Load



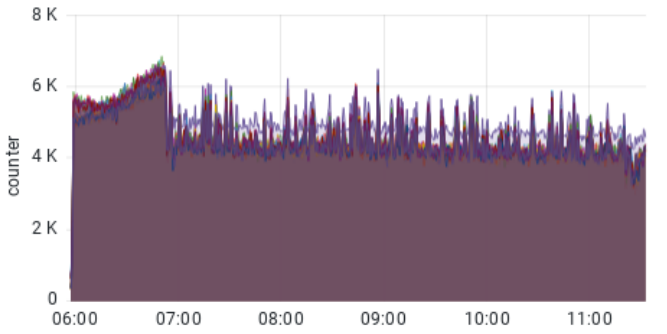
	min	max	avg	current
Load 1m	4.63	58.6	40.1	46.7
Load 5m	1.50	54.5	39.5	49.2
Load 15m	0.810	50.2	38.0	49.1

Interrupts Detail



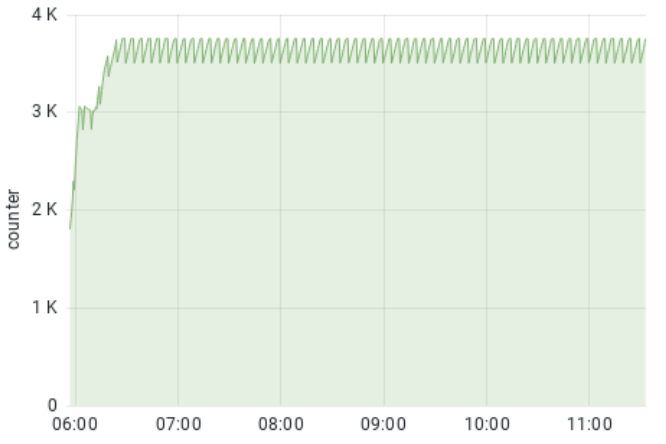
	min	max	avg	current

Schedule timeslices executed by each cpu



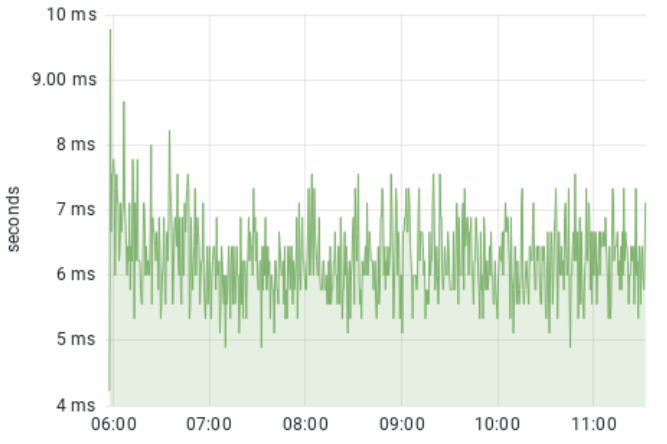
	min	max	avg	current
CPU 0	660	6.84 K	4.71 K	4.26 K
CPU 1	334	6.35 K	4.59 K	4.11 K
CPU 10	685	6.73 K	4.62 K	4.29 K
CPU 11	406	6.49 K	4.50 K	4.19 K

Entropy



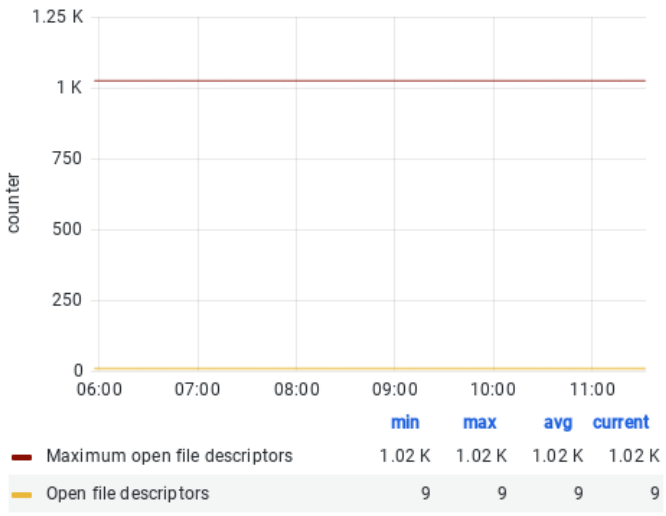
	min	max	avg
Entropy available to random number generators	1.80 K	3.75 K	3.61 K

CPU time spent in user and system contexts



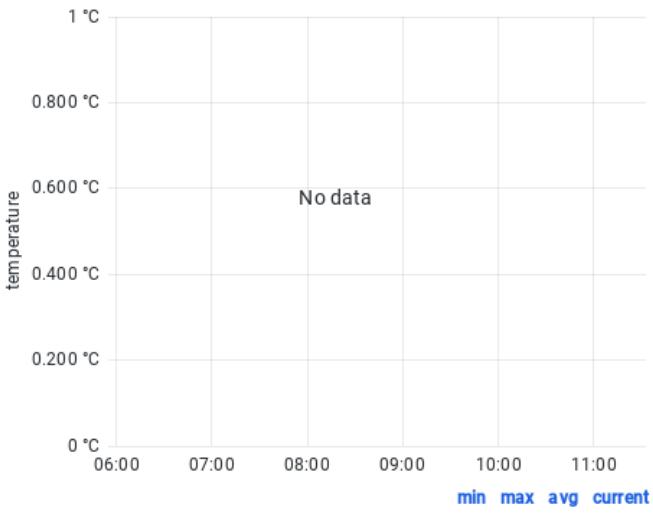
	min	max	avg	current
Time spent	4.23 ms	9.78 ms	6.26 ms	7.11 ms

File Descriptors

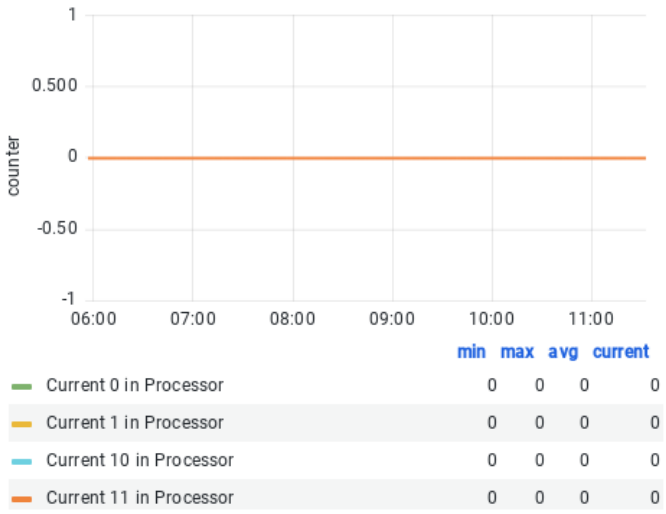


	min	max	avg	current
Maximum open file descriptors	1.02 K	1.02 K	1.02 K	1.02 K
Open file descriptors	9	9	9	9

Hardware temperature monitor

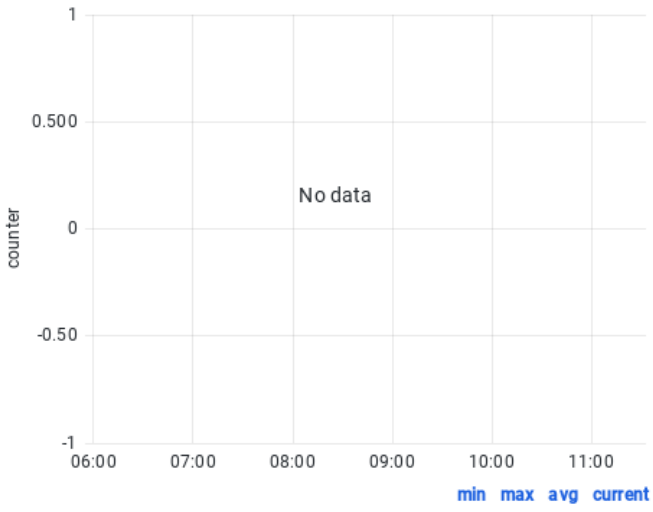


Throttle cooling device

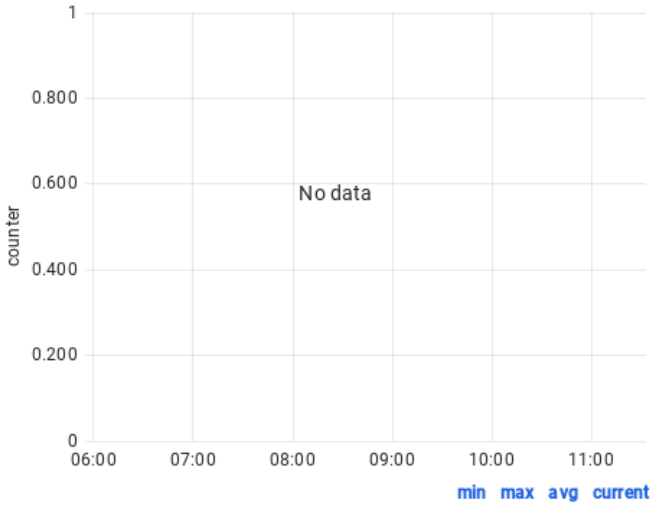


	min	max	avg	current
Current 0 in Processor	0	0	0	0
Current 1 in Processor	0	0	0	0
Current 10 in Processor	0	0	0	0
Current 11 in Processor	0	0	0	0

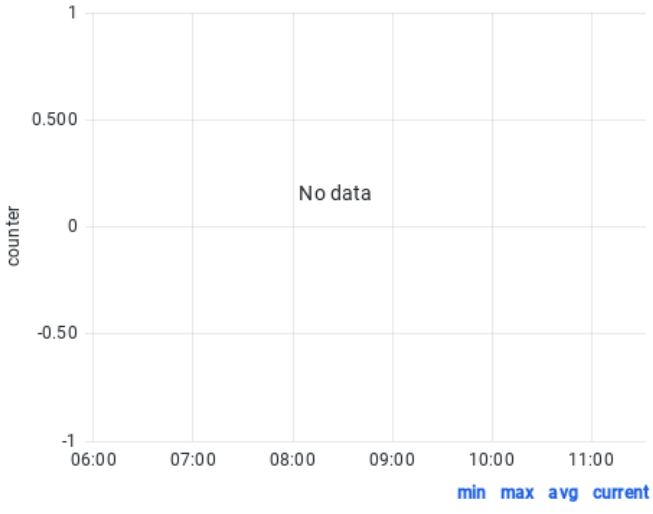
Power supply



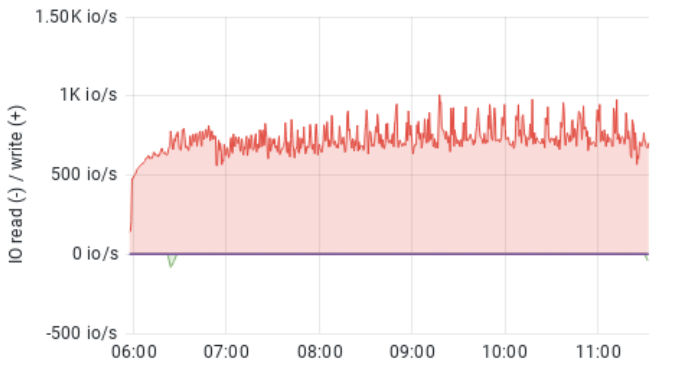
Systemd Sockets



Systemd Units State

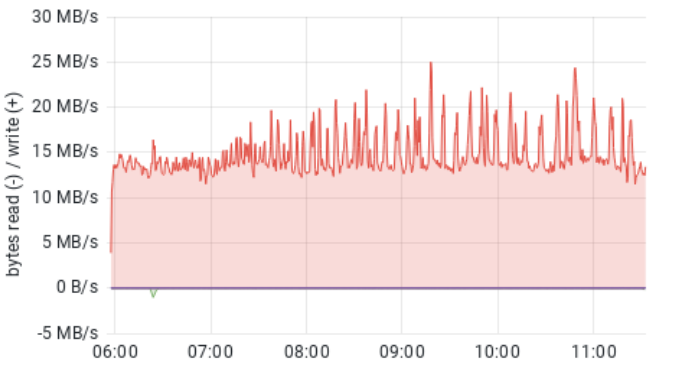


Disk IOps Completed



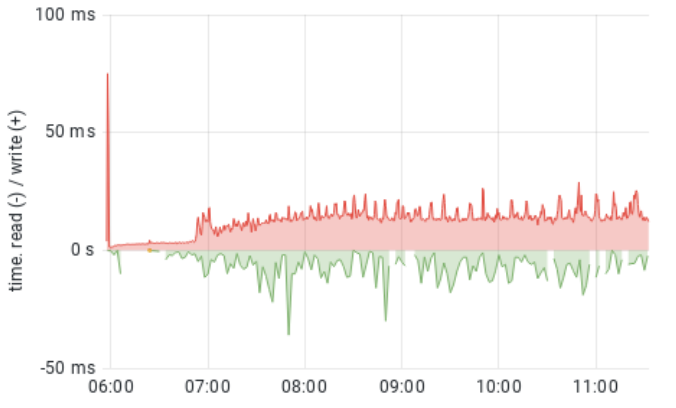
	min	max	avg	current
vda - Reads completed	0 io/s	82.8 io/s	1.08 io/s	41.9 io
vdb - Reads completed	0 io/s	0.00833 io/s	0.0000496 io/s	0 io
vda - Writes completed	139 io/s	1.01K io/s	722 io/s	702 io

Disk R/W Data



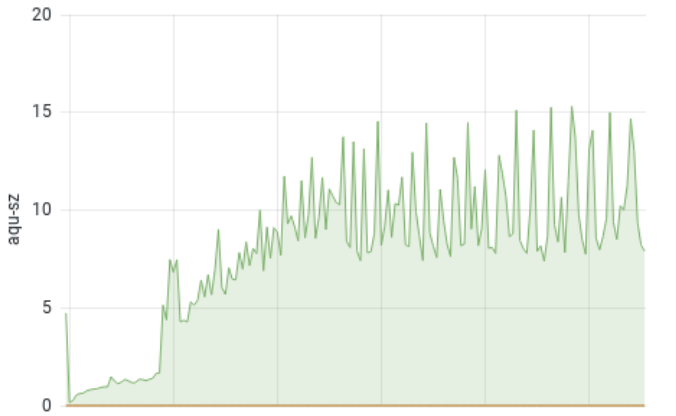
	min	max	avg	current
vda - Read bytes	0 B/s	1.05 MB/s	9.22 kB/s	187 kB/s
vdb - Read bytes	0 B/s	1.09 kB/s	6.50 B/s	0 B/s
vda - Written bytes	3.89 MB/s	25.0 MB/s	14.7 MB/s	13.4 MB/s

Disk Average Wait Time



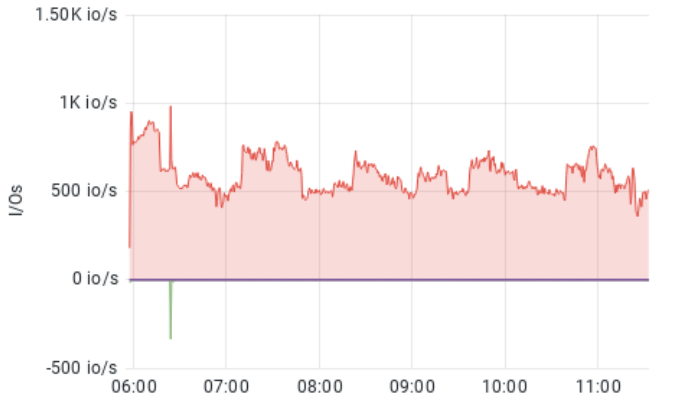
	min	max	avg	current
vda - Write wait time avg	1.27 ms	75.0 ms	12.6 ms	12.2 ms
vda - Read wait time avg	0 s	36.0 ms	6.76 ms	2.36 ms

Average Queue Size



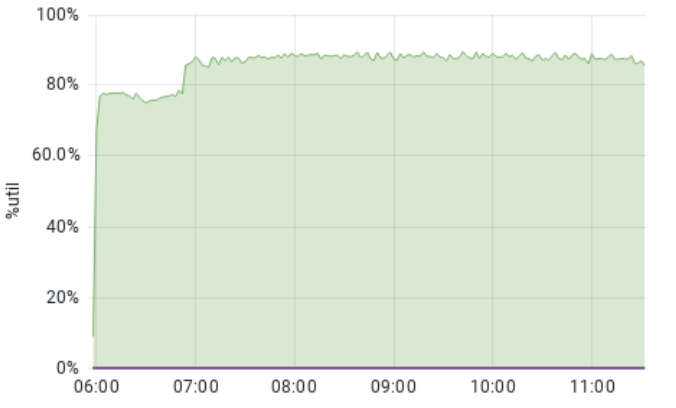
	min	max	avg	current
vda	0.170	15.3	7.91	7.90

Disk R/W Merged



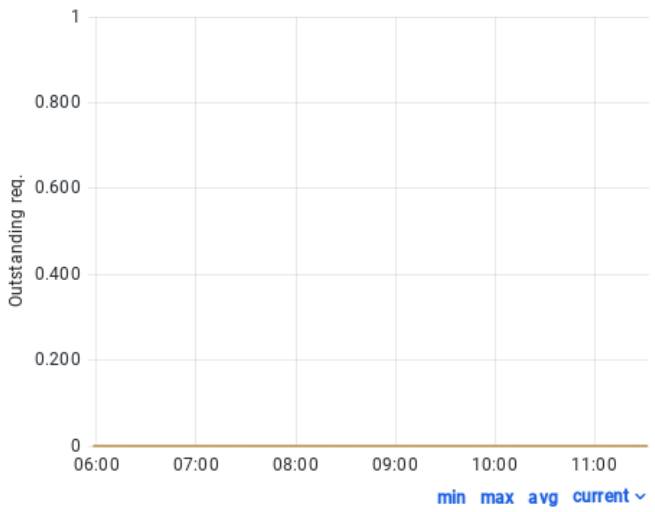
	min	max	avg	current
vda - Write merged	180 io/s	983 io/s	593 io/s	509 io/s
vda - Read merged	0 io/s	335 io/s	0.699 io/s	0 io/s

Time Spent Doing I/Os

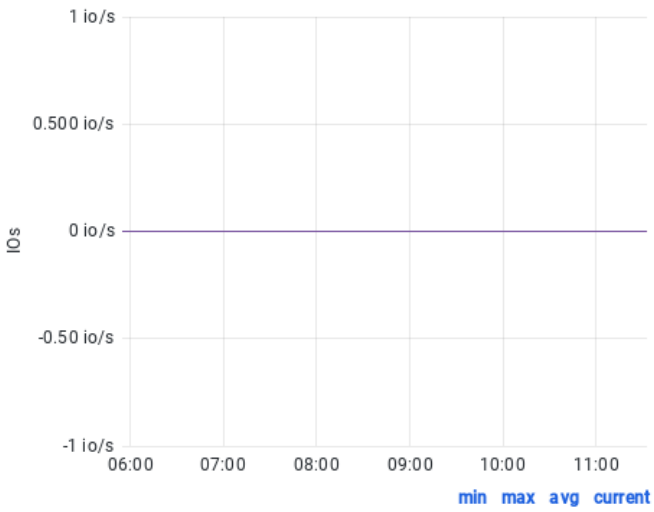


	min	max	avg	current
vda - IO	8.93%	89.5%	85.6%	85.6%
vdb - IO	0%	0.00333%	0.0000198%	0%

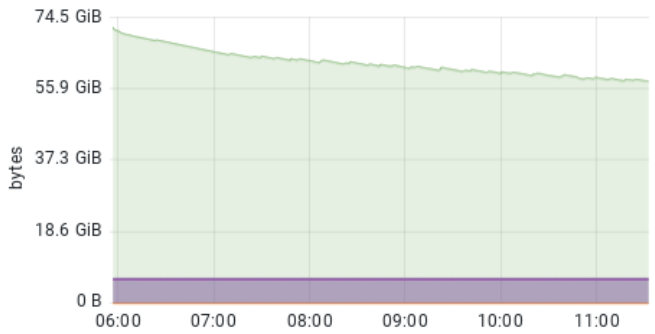
Instantaneous Queue Size



Disk IOps Discards completed / merged

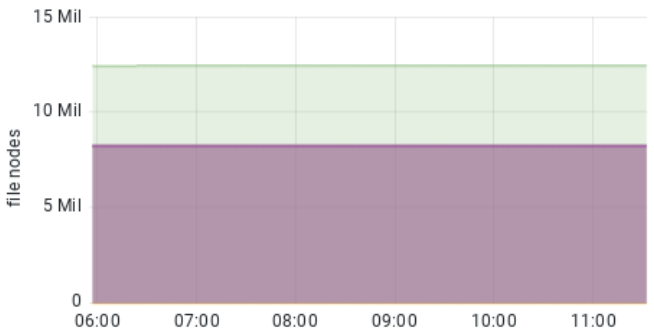


Filesystem space available



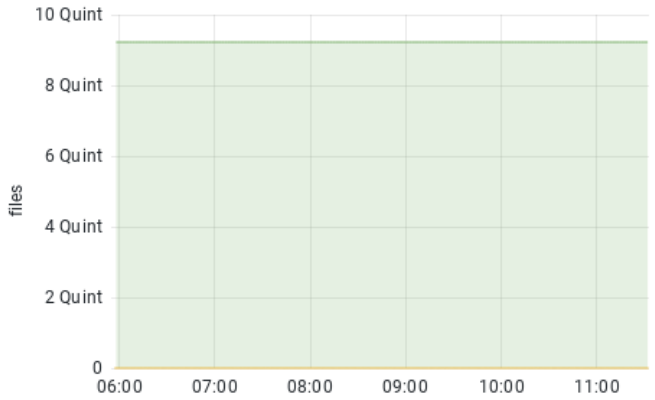
	min	max	avg	cu
/ - Available	57.691 GiB	71.766 GiB	62.449 GiB	57.6
/boot/efi - Available	99.157 MiB	99.157 MiB	99.157 MiB	99.15
/run - Available	6.278 GiB	6.279 GiB	6.278 GiB	6.2
/run/lock - Available	5.000 MiB	5.000 MiB	5.000 MiB	5.00

File Nodes Free



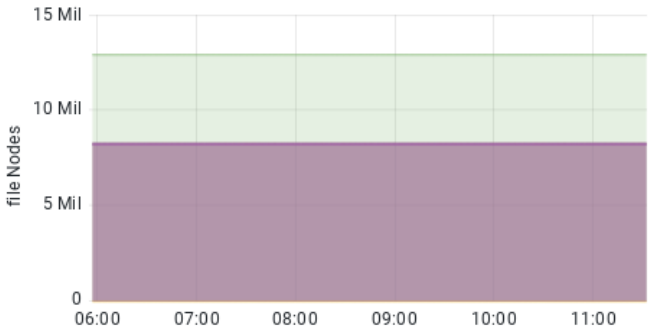
	min	max	avg	current
/ - Free file nodes	12.4 Mil	12.4 Mil	12.4 Mil	12.4 Mil
/run - Free file nodes	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil
/run/lock - Free file nodes	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil
/run/snapd/ns - Free file nodes	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil

File Descriptor



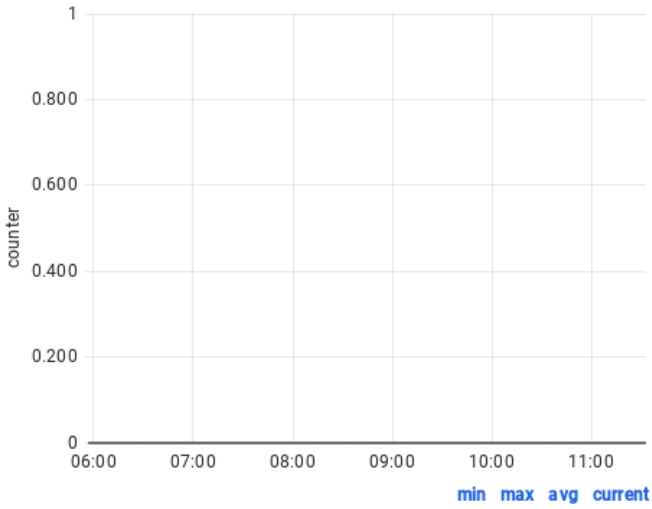
	min	max	avg	current
Max open files	9.22 Quint	9.22 Quint	9.22 Quint	9.22 Quint
Open files	4.86 K	13.1 K	12.4 K	12.9 K

File Nodes Size

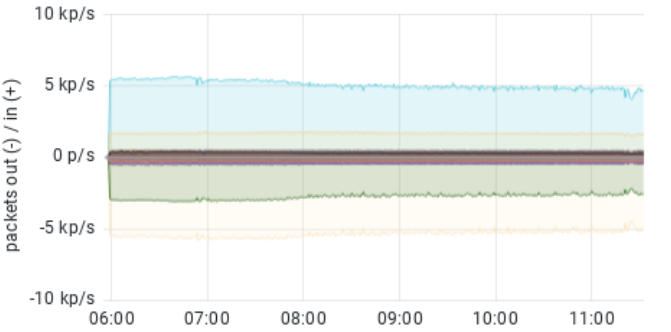


	min	max	avg	current
/ - File nodes total	12.9 Mil	12.9 Mil	12.9 Mil	12.9 Mil
/run - File nodes total	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil
/run/lock - File nodes total	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil
/run/snapd/ns - File nodes total	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil

Filesystem in ReadOnly / Error

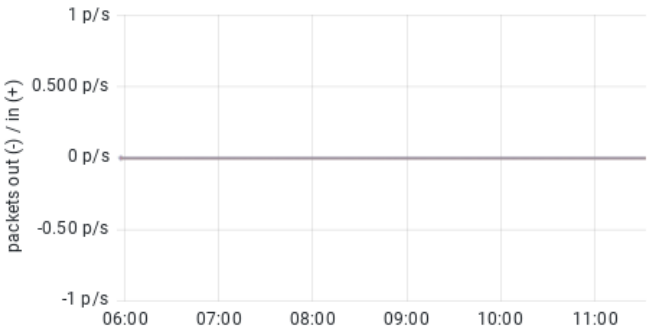


Network Traffic by Packets



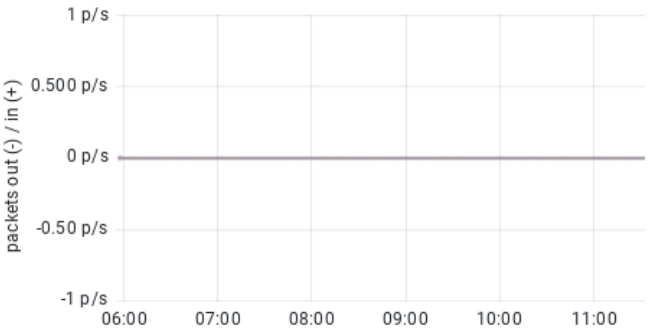
	min	max	avg	curre
br-240e004fd870 - Receive	6.99 p/s	503 p/s	410 p/s	378
br-3bee41ce9340 - Receive	0 p/s	0 p/s	0 p/s	0
br-7098de4b671c - Receive	13.5 p/s	5.63 kp/s	5.05 kp/s	4.71 k
br-b5d82a87db58 - Receive	0 p/s	0 p/s	0 p/s	0

Network Traffic Errors



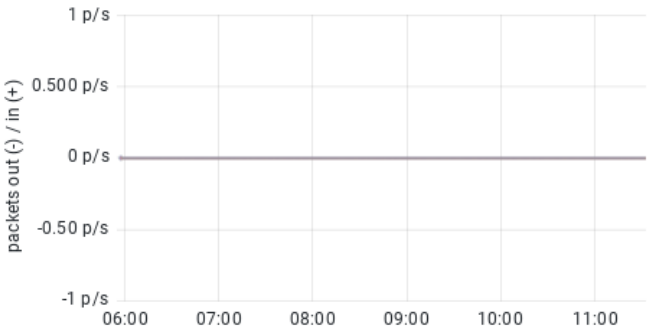
	min	max	avg	current
vethfa9e8d2 - Rransmit errors	0 p/s	0 p/s	0 p/s	0 p/s
vethef5e1f0 - Rransmit errors	0 p/s	0 p/s	0 p/s	0 p/s
vethe74671a - Rransmit errors	0 p/s	0 p/s	0 p/s	0 p/s
vethe404e03 - Rransmit errors	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Drop



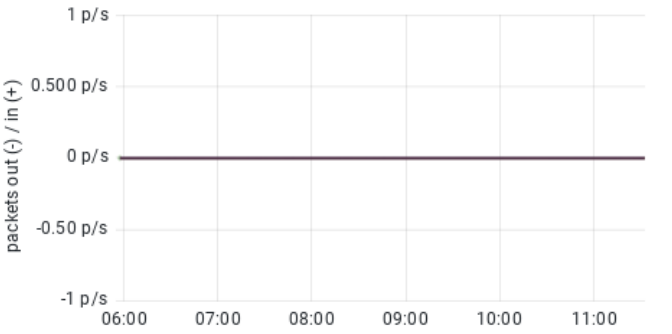
	min	max	avg	current
vethfa9e8d2 - Transmit drop	0 p/s	0 p/s	0 p/s	0 p/s
vethef5e1f0 - Transmit drop	0 p/s	0 p/s	0 p/s	0 p/s
vethe74671a - Transmit drop	0 p/s	0 p/s	0 p/s	0 p/s
vethe404e03 - Transmit drop	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Compressed



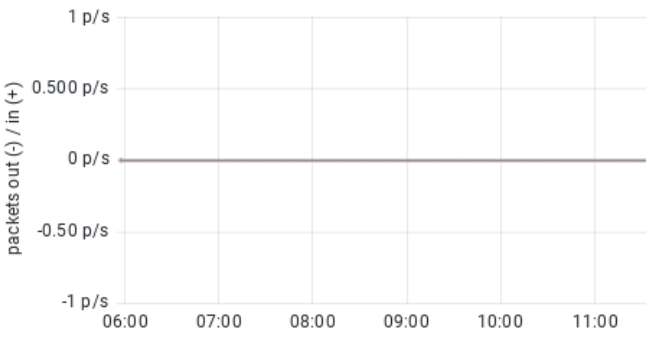
	min	max	avg	current
vethfa9e8d2 - Transmit compressed	0 p/s	0 p/s	0 p/s	0 p/s
vethef5e1f0 - Transmit compressed	0 p/s	0 p/s	0 p/s	0 p/s
vethe74671a - Transmit compressed	0 p/s	0 p/s	0 p/s	0 p/s
vethe404e03 - Transmit compressed	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Multicast



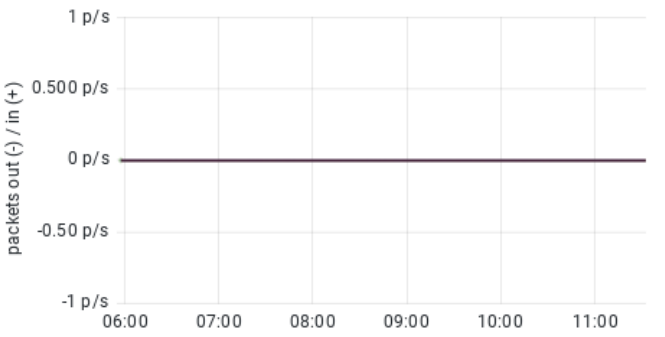
	min	max	avg	current
vethfa9e8d2 - Receive multicast	0 p/s	0 p/s	0 p/s	0 p/s
vethef5e1f0 - Receive multicast	0 p/s	0 p/s	0 p/s	0 p/s
vethe74671a - Receive multicast	0 p/s	0 p/s	0 p/s	0 p/s
vethe404e03 - Receive multicast	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Fifo



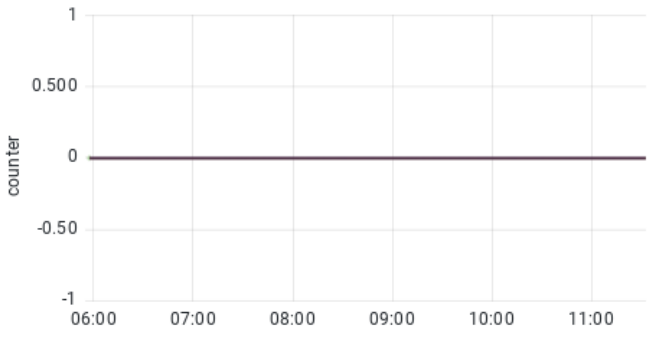
	min	max	avg	current
vethfa9e8d2 - Transmit fifo	0 p/s	0 p/s	0 p/s	0 p/s
vethef5e1f0 - Transmit fifo	0 p/s	0 p/s	0 p/s	0 p/s
vethe74671a - Transmit fifo	0 p/s	0 p/s	0 p/s	0 p/s
vethe404e03 - Transmit fifo	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Frame



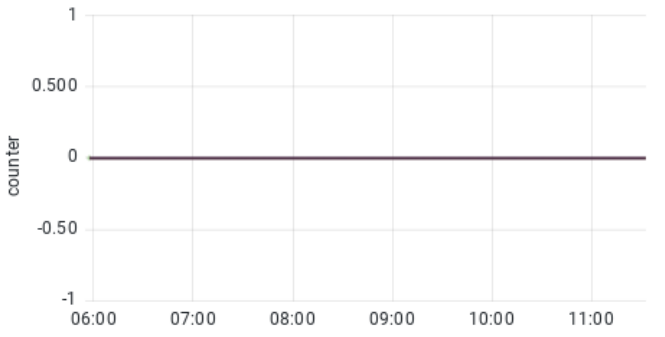
	min	max	avg	current
vethfa9e8d2 - Receive frame	0 p/s	0 p/s	0 p/s	0 p/s
vethef5e1f0 - Receive frame	0 p/s	0 p/s	0 p/s	0 p/s
vethe74671a - Receive frame	0 p/s	0 p/s	0 p/s	0 p/s
vethe404e03 - Receive frame	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Carrier



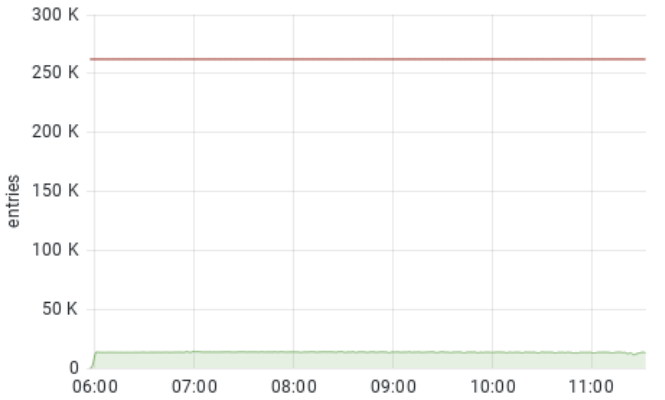
	min	max	avg	current
vethfa9e8d2 - Statistic transmit_carrier	0	0	0	0
vethef5e1f0 - Statistic transmit_carrier	0	0	0	0
vethe74671a - Statistic transmit_carrier	0	0	0	0
vethe404e03 - Statistic transmit_carrier	0	0	0	0

Network Traffic Colls



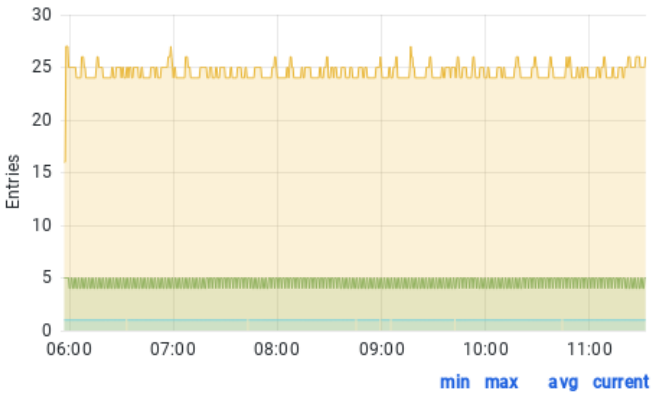
	min	max	avg	current
vethfa9e8d2 - Transmit colls	0	0	0	0
vethef5e1f0 - Transmit colls	0	0	0	0
vethe74671a - Transmit colls	0	0	0	0
vethe404e03 - Transmit colls	0	0	0	0

NF Contrack



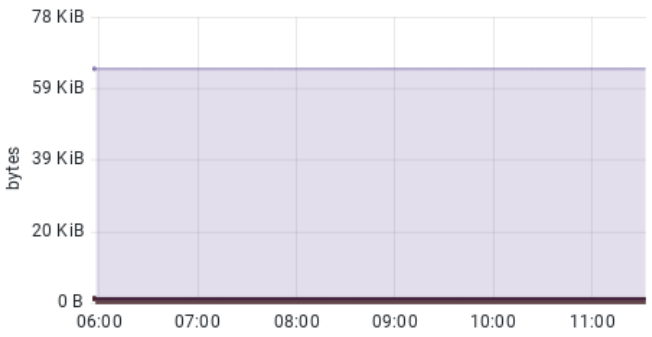
	min	max	avg	current
NF conntrack entries	103	14.1 K	13.3 K	13.0 K
NF conntrack limit	262 K	262 K	262 K	262 K

ARP Entries



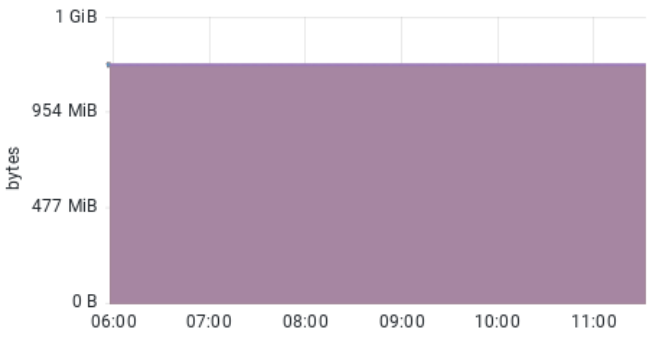
	min	max	avg	current
br-240e004fd870 - ARP entries	4	5	4.61	5
br-7098de4b671c - ARP entries	16	27	24.5	26
ens3 - ARP entries	1	1	1	1

MTU



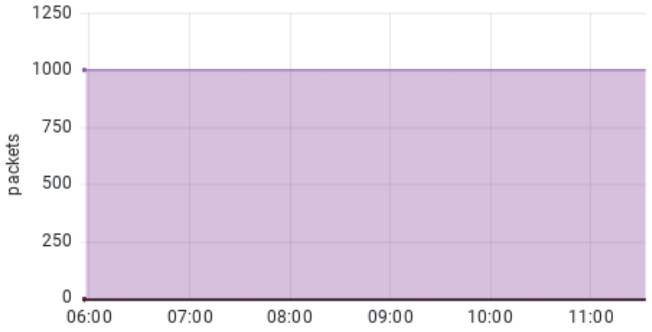
	min	max	avg	current
br-240e004fd870 - Bytes	1.5 KiB	1.5 KiB	1.5 KiB	1.5 KiB
br-3bee41ce9340 - Bytes	1.5 KiB	1.5 KiB	1.5 KiB	1.5 KiB
br-7098de4b671c - Bytes	1.5 KiB	1.5 KiB	1.5 KiB	1.5 KiB
br-b5d82a87db58 - Bytes	1.5 KiB	1.5 KiB	1.5 KiB	1.5 KiB

Speed



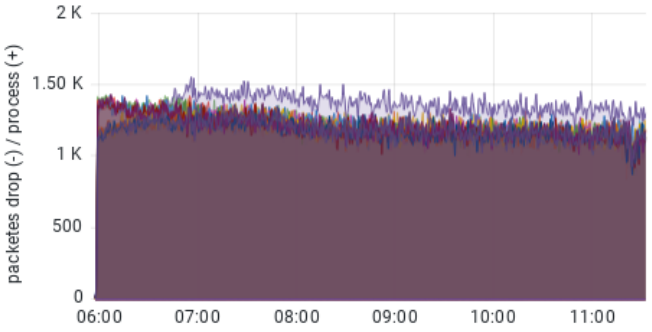
	min	max	avg	current
ens3 - Speed	-122.1 KiB	-122.1 KiB	-122.1 KiB	-122.1 KiB
veth0885005 - Speed	1.2 GiB	1.2 GiB	1.2 GiB	1.2 GiB
veth0a5f23c - Speed	1.2 GiB	1.2 GiB	1.2 GiB	1.2 GiB
veth1812ada - Speed	1.2 GiB	1.2 GiB	1.2 GiB	1.2 GiB

Queue Length



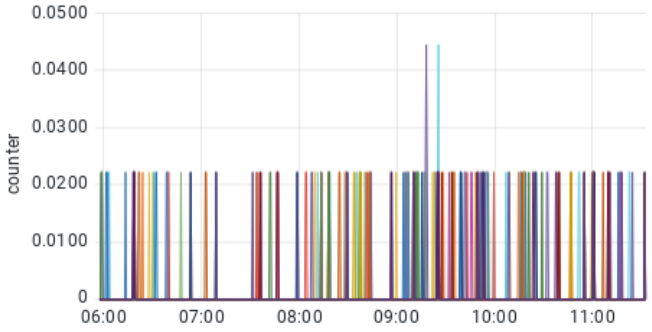
	min	max	a
br-240e004fd870 - Interface transmit queue length	0	0	
br-3bee41ce9340 - Interface transmit queue length	0	0	
br-7098de4b671c - Interface transmit queue length	0	0	
br-b5d82a87db58 - Interface transmit queue length	0	0	

Softnet Packets



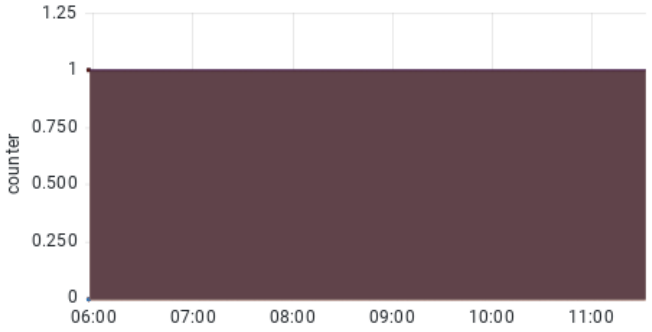
	min	max	avg	current
CPU 15 - Processed	3.35	1.55 K	1.35 K	1.30 K
CPU 12 - Processed	7.07	1.42 K	1.22 K	1.18 K
CPU 6 - Processed	14.3	1.39 K	1.19 K	1.18 K
CPU 1 - Processed	5.27	1.40 K	1.21 K	1.17 K

Softnet Out of Quota



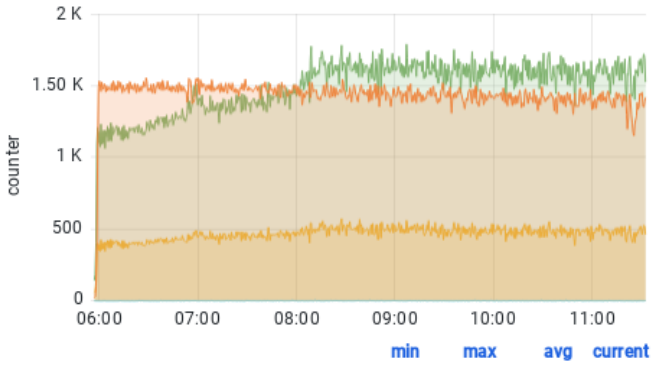
	min	max	avg	current
CPU 9 - Squeezed	0	0.0222	0.000397	0
CPU 8 - Squeezed	0	0.0222	0.000729	0
CPU 7 - Squeezed	0	0.0222	0.000431	0
CPU 6 - Squeezed	0	0.0222	0.000431	0

Network Operational Status



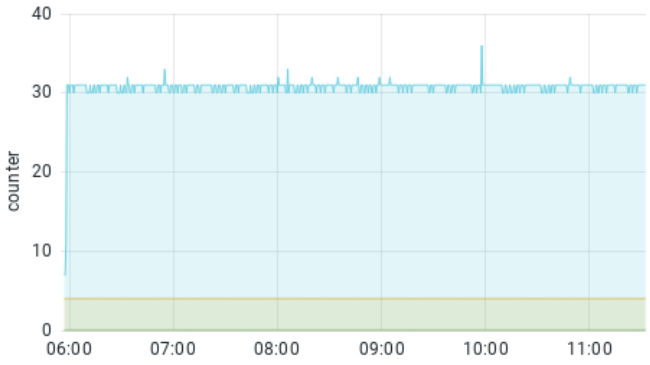
	min	max	avg	current
vethfa9e8d2 - Physical link state	1	1	1	1
vethef5e1f0 - Physical link state	1	1	1	1
vethe74671a - Physical link state	1	1	1	1
vethe404e03 - Physical link state	1	1	1	1

Sockstat TCP



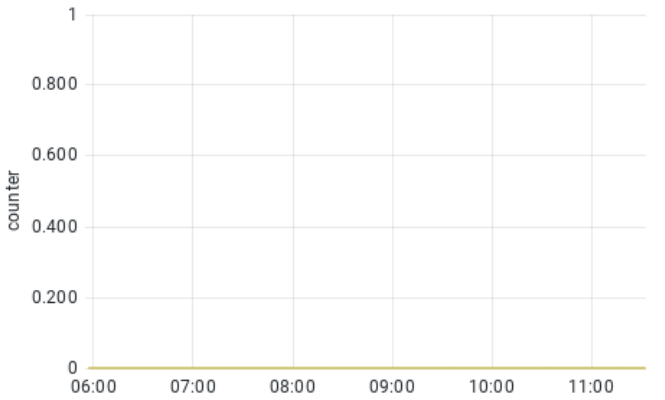
	min	max	avg	current
TCP_alloc - Allocated sockets	144	1.79 K	1.49 K	1.52 K
TCP_inuse - Tcp sockets currently in use	57	574	468	463
TCP_orphan - Orphan sockets	0	8	1.40	2
TCP_tw - Sockets wating close	23	1.56 K	1.44 K	1.42 K

Sockstat UDP



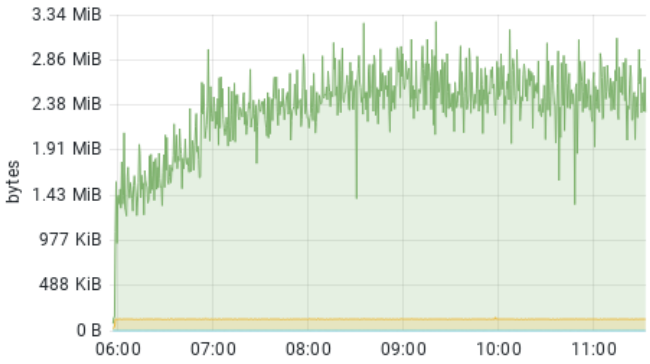
	min	max	avg	current
UDPLITE_inuse - Udplite sockets currently in use	0	0	0	0
UDP_inuse - Udp sockets currently in use	4	4	4	4
UDP_mem - Used memory for udp	7	36	30.7	31

Sockstat FRAG / RAW



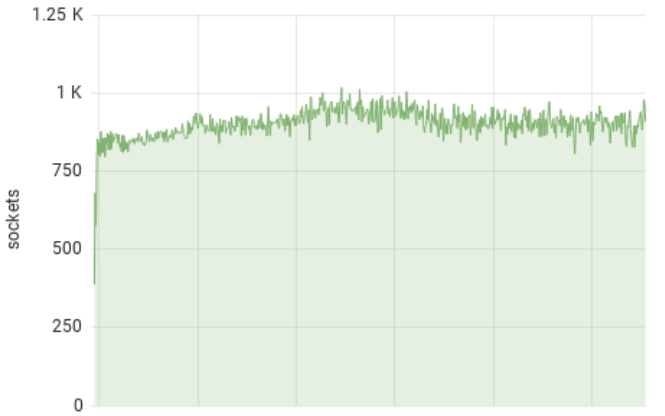
	min	max	avg	current
FRAG_inuse - Frag sockets currently in use	0	0	0	0
RAW_inuse - Raw sockets currently in use	0	0	0	0

Sockstat Memory Size



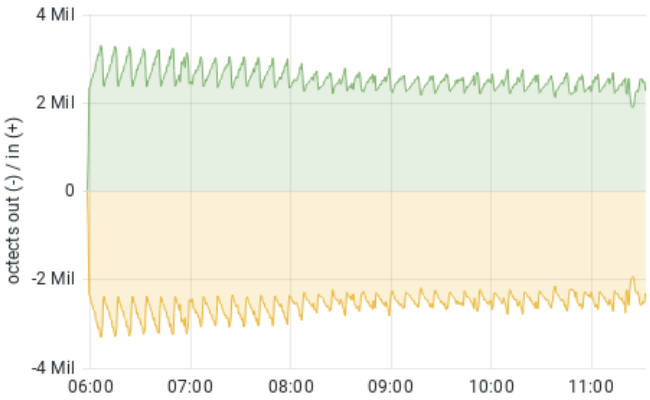
	min	max	avg	cur
mem_bytes - TCP sockets in that state	76 KiB	3.27 MiB	2.35 MiB	2.3
mem_bytes - UDP sockets in that state	28 KiB	144 KiB	123 KiB	12
FRAG_memory - Used memory for frag	0 B	0 B	0 B	

Sockstat Used



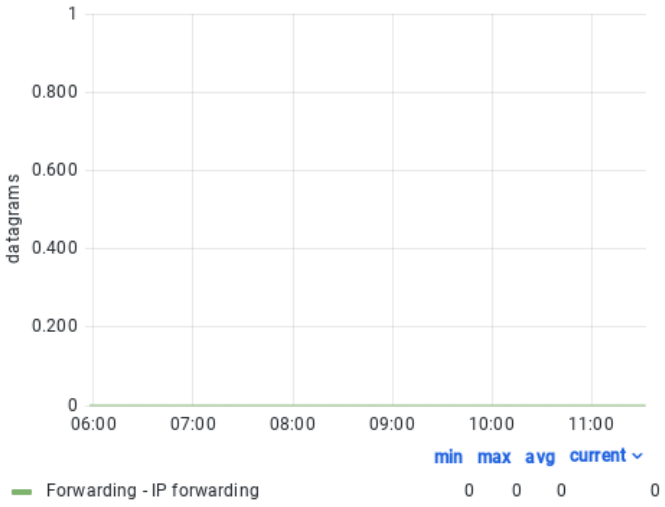
	min	max	avg	current
Sockets_used - Sockets currently in use	387	1.02 K	902	909

Netstat IP In / Out Octets

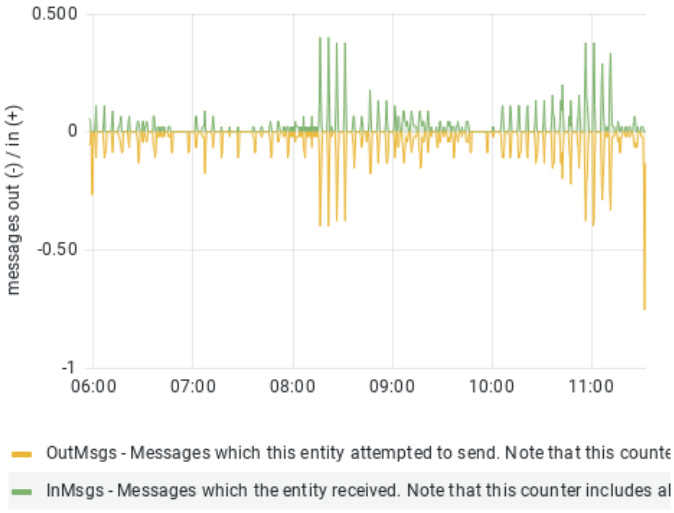


	min	max	avg	current
OutOctets - Sent octets	9.36 K	3.31 Mil	2.56 Mil	2.30 Mil
InOctets - Received octets	6.41 K	3.30 Mil	2.54 Mil	2.28 Mil

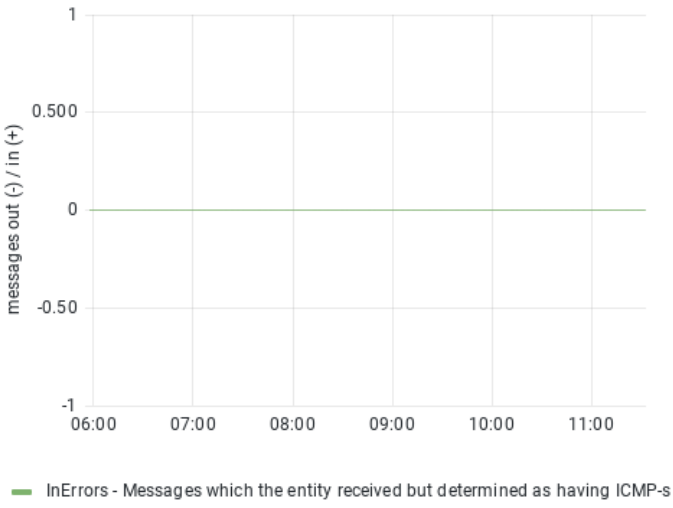
Netstat IP Forwarding



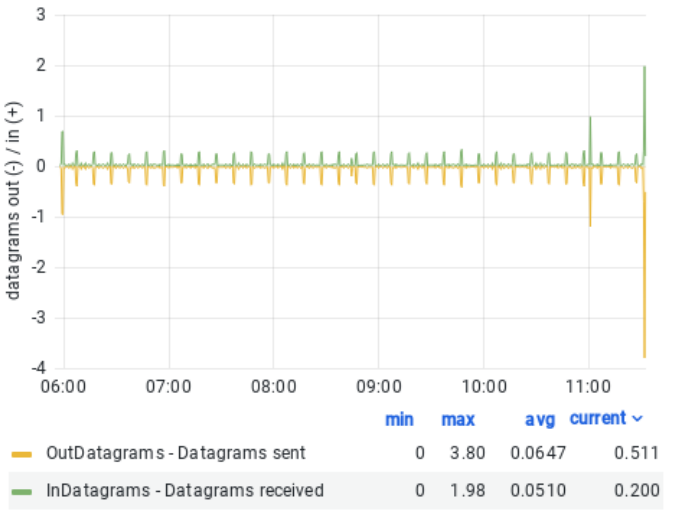
ICMP In / Out



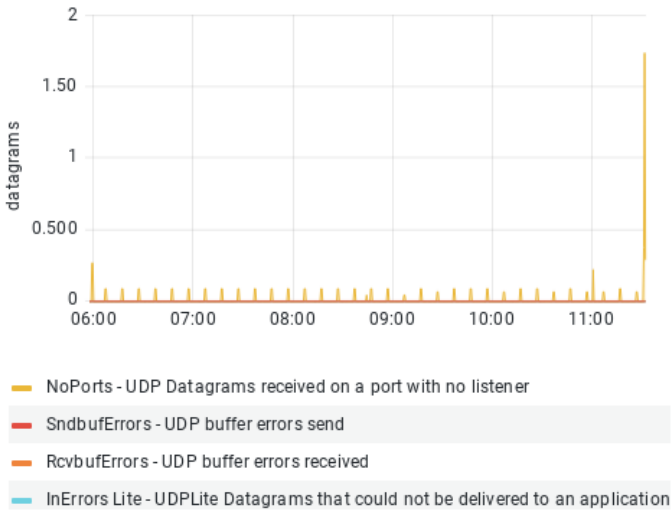
ICMP Errors



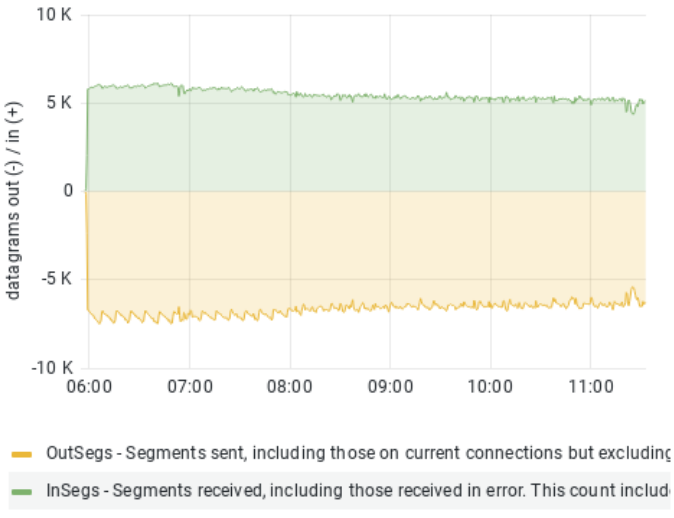
UDP In / Out



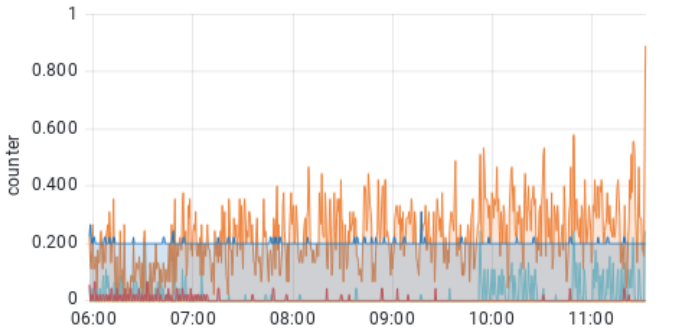
UDP Errors



TCP In / Out

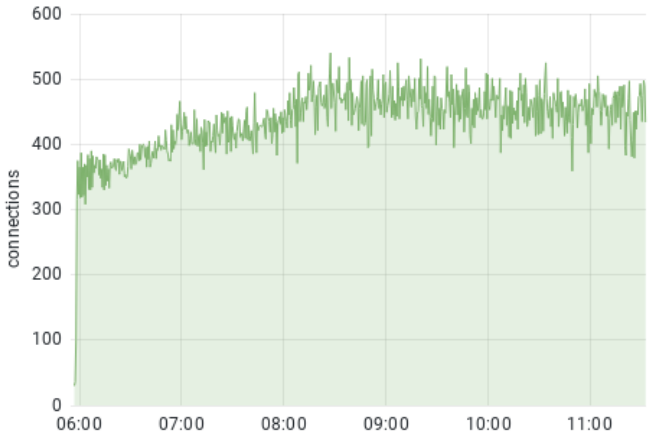


TCP Errors



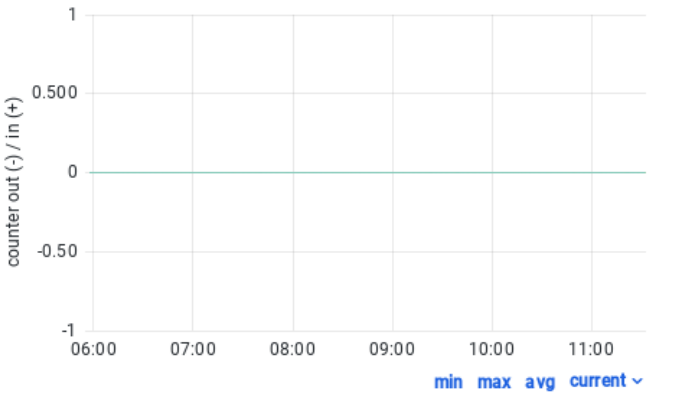
RetransSegs - Segments retransmitted - that is, the number of TCP segments tr
TCPSynRetrans - SYN-SYN/ACK retransmits to break down retransmissions in
OutRsts - Segments sent with RST flag
InErrs - Segments received in error (e.g., bad TCP checksums)

TCP Connections



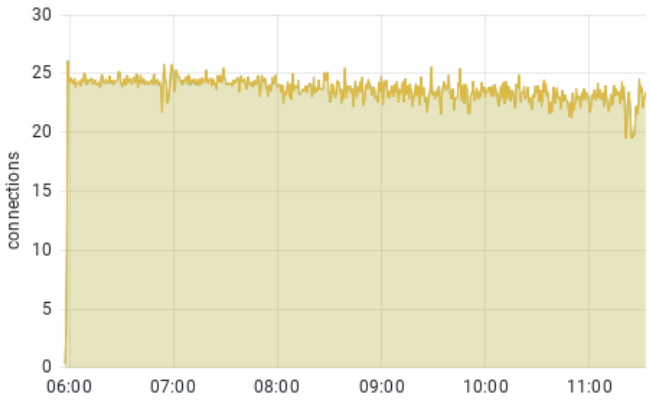
CurrEstab - TCP connections for which the current state is either ESTABLISHED

TCP SynCookie



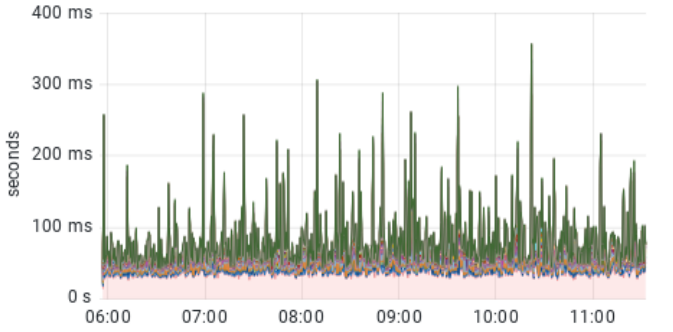
	min	max	avg	current
SyncookiesSent - SYN cookies sent	0	0	0	0
SyncookiesRecv - SYN cookies received	0	0	0	0
SyncookiesFailed - Invalid SYN cookies received	0	0	0	0

TCP Direct Transition



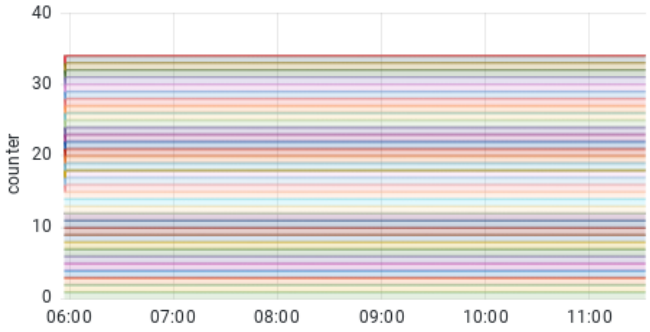
ActiveOpens - TCP connections that have made a direct transition to the SYN-S
PassiveOpens - TCP connections that have made a direct transition to the SYN

Node Exporter Scrape Time



	min	max	avg	current
netclass - Scrape duration	14.8 ms	195 ms	37.3 ms	40.4
cpu - Scrape duration	777 µs	28.9 ms	3.33 ms	5.79
filesystem - Scrape duration	1.08 ms	32.6 ms	3.84 ms	5.47
netstat - Scrape duration	540 µs	27.8 ms	2.97 ms	4.42

Node Exporter Scrape



	min	max	avg	current
arp - Scrape success	1	1	1	1
bcache - Scrape success	1	1	1	1
bonding - Scrape success	0	0	0	0
btrfs - Scrape success	1	1	1	1