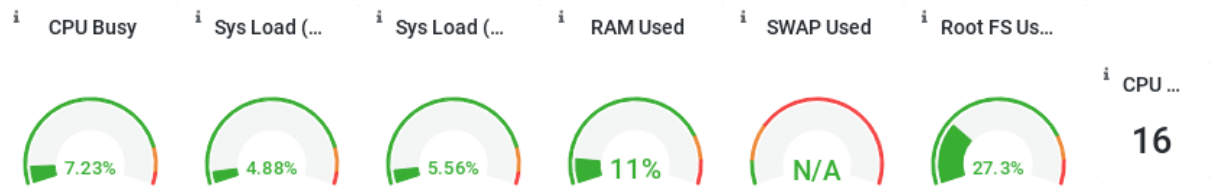
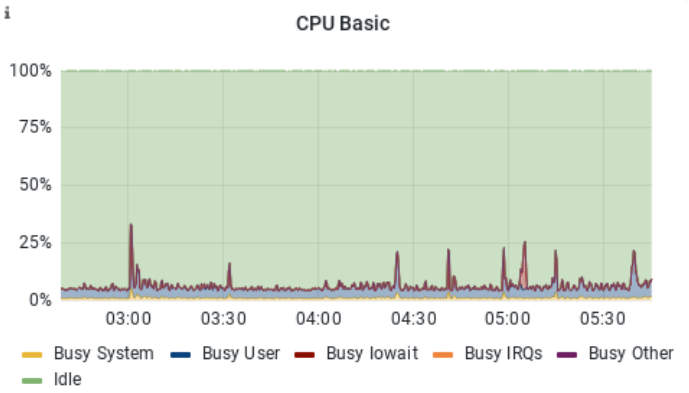
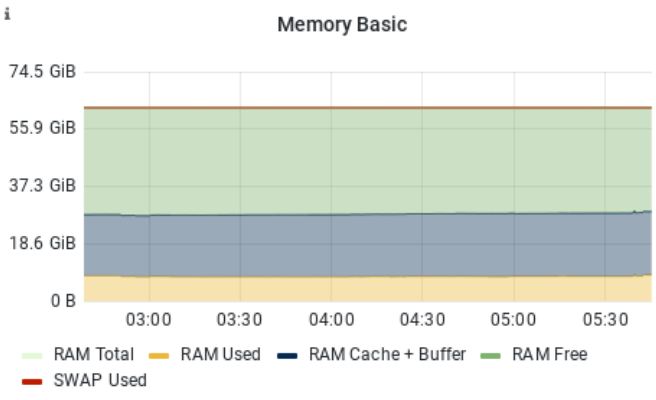
Host Metrics

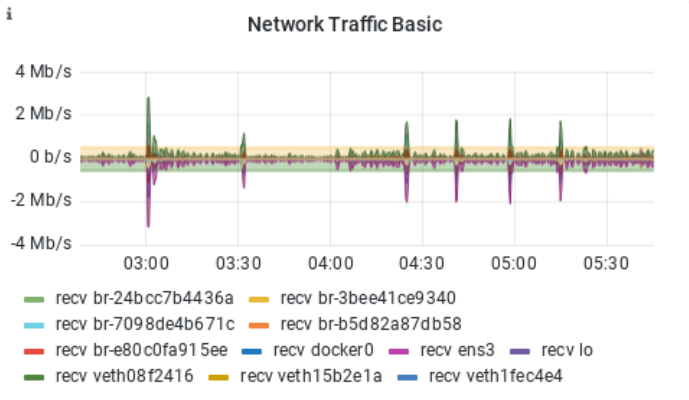
The dashboard visualizes host metrics collected by node_exporter. (based on: https://grafana.com/grafana/dashboards/1860)

Tue Mar 22 02:38:37 UTC 2022
to
Tue Mar 22 05:45:25 UTC 2022

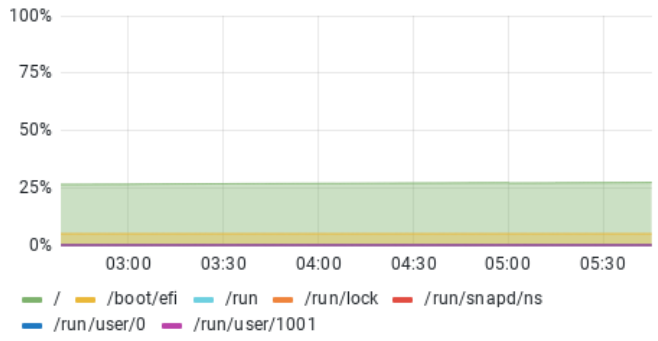




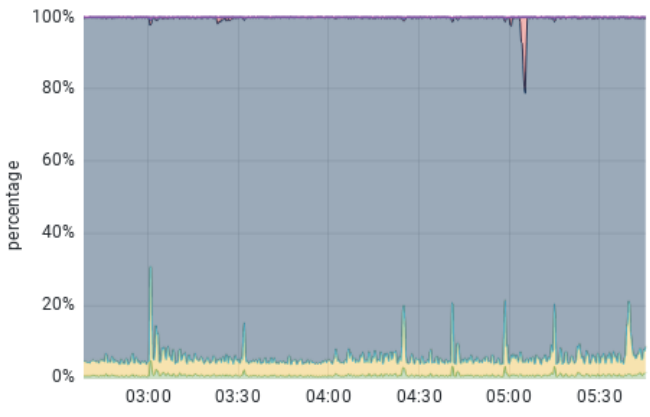




Disk Space Used Basic

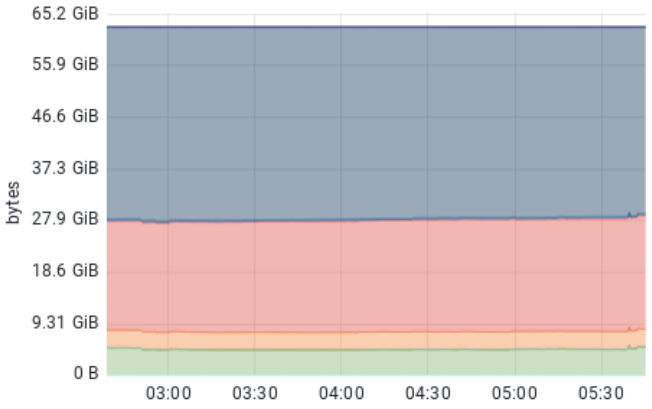


CPU



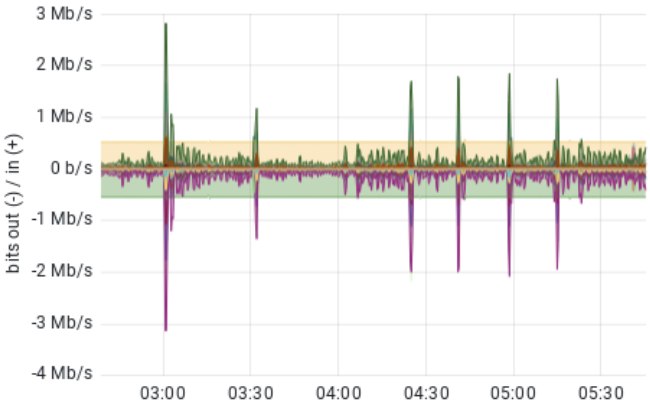
- System - Processes executing in kernel mode
- User - Normal processes executing in user mode
- Nice - Niced processes executing in user mode
- Idle - Waiting for something to happen
- Iowait - Waiting for I/O to complete

Memory Stack



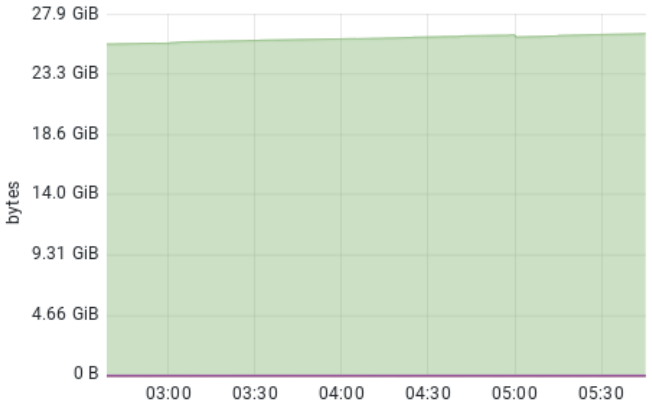
- Apps - Memory used by user-space applications
- PageTables - Memory used to map between virtual and physical memory addr
- SwapCache - Memory that keeps track of pages that have been fetched from s
- Slab - Memory used by the kernel to cache data structures for its own use (cacl
- Cache - Parked file data (file content) cache

Network Traffic



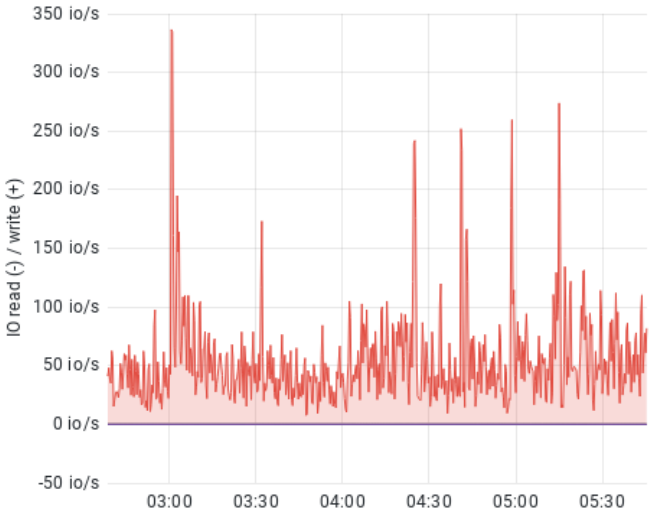
	min	max	avg	current
br-24bcc7b4436a - Receive	686 b/s	1.17 Mb/s	50.4 kb/s	45.5 kb
br-3bee41ce9340 - Receive	0 b/s	0 b/s	0 b/s	0 b
br-7098de4b671c - Receive	18.9 kb/s	1.65 Mb/s	111 kb/s	191 kb
br-b5d82a87db58 - Receive	0 b/s	0 b/s	0 b/s	0 b
br-e80c0fa915ee - Receive	0 b/s	0 b/s	0 b/s	0 b

Disk Space Used



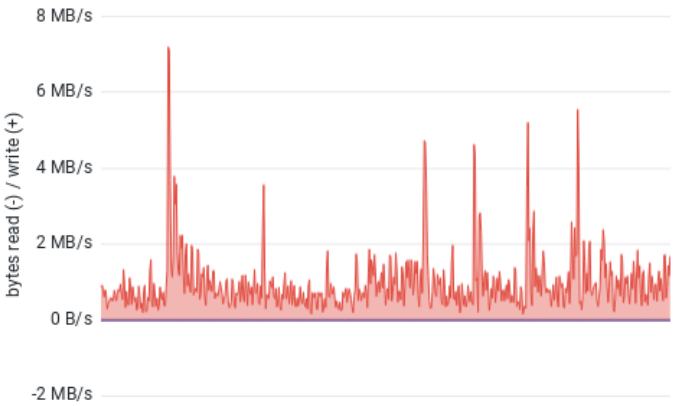
	min	max	avg	current
/run/lock	0 B	0 B	0 B	0 B
/run/user/0	0 B	0 B	0 B	0 B
/run/user/1001	0 B	0 B	0 B	0 B
/run	3.703 MiB	3.723 MiB	3.709 MiB	3.723 MiB
/run/snapd/ns	3.703 MiB	3.723 MiB	3.709 MiB	3.723 MiB

Disk IOps



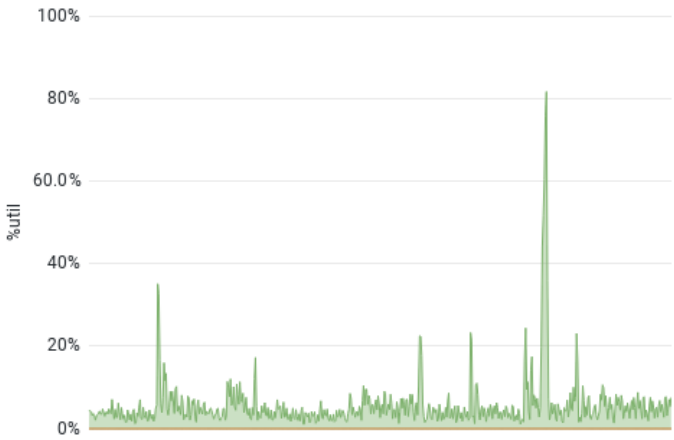
	min	max	avg	current
vda - Reads completed	0 io/s	0.0400 io/s	0.000798 io/s	0 io/s
vda - Writes completed	7.58 io/s	337 io/s	54.3 io/s	81.9 io/s

I/O Usage Read / Write



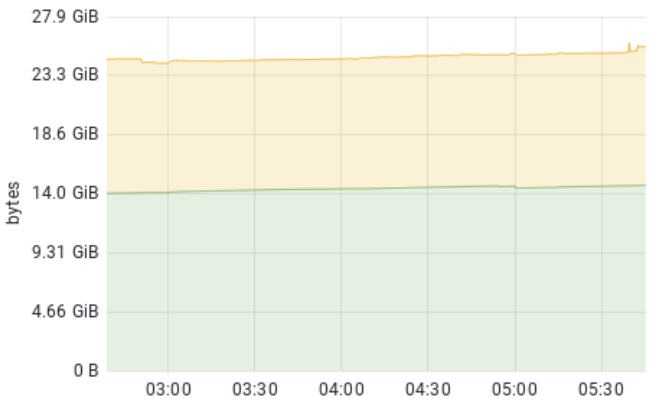
	min	max	avg
vda - Successfully read bytes	0 B/s	3.186 kB/s	18.949 B/s
vdb - Successfully read bytes	0 B/s	0 B/s	0 B/s
vdc - Successfully read bytes	0 B/s	0 B/s	0 B/s
vdd - Successfully read bytes	0 B/s	0 B/s	0 B/s
vda - Successfully written bytes	163.567 kB/s	7.183 MB/s	986.087 kB/s

I/O Utilization



	min	max	avg	current
vda	1.084%	81.627%	5.605%	7.538%
vdb	0%	0%	0%	0%
vdc	0%	0%	0%	0%
vdd	0%	0%	0%	0%

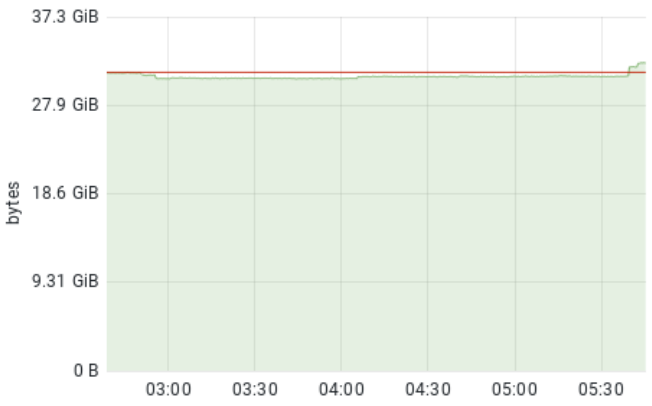
Memory Active / Inactive



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

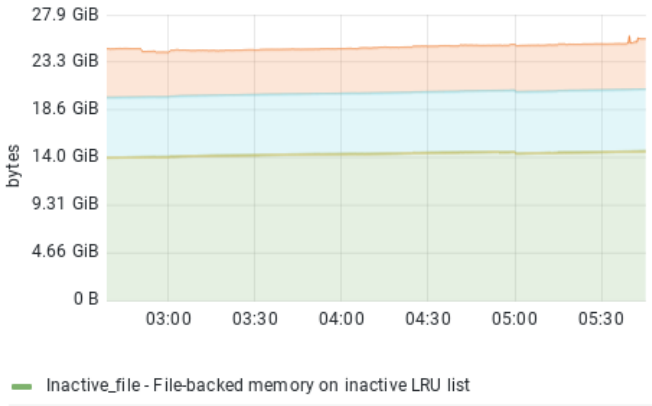
Memory Commited



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



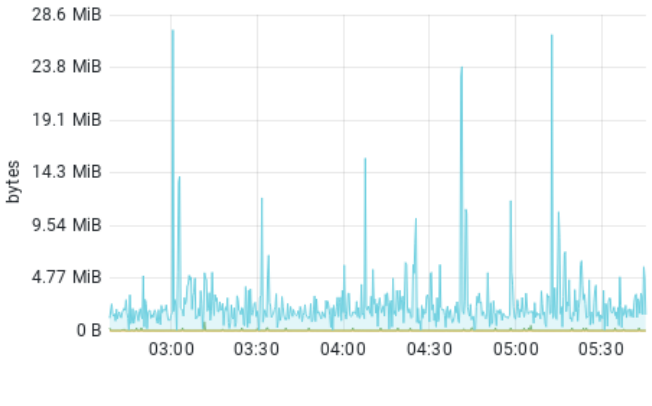
Inactive_file - File-backed memory on inactive LRU list

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

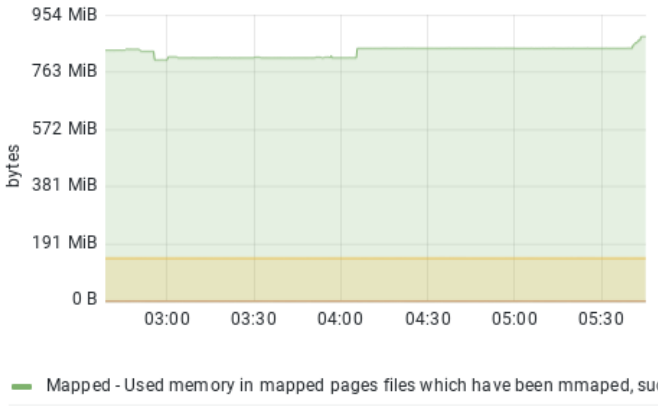


Writeback - Memory which is actively being written back to disk

WritebackTmp - Memory used by FUSE for temporary writeback buffers

Dirty - Memory which is waiting to get written back to the disk 4.00

Memory Shared and Mapped



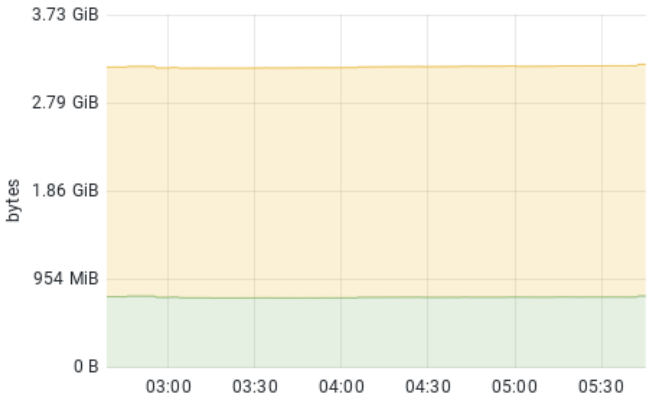
Mapped - Used memory in mapped pages files which have been mmaped, such

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

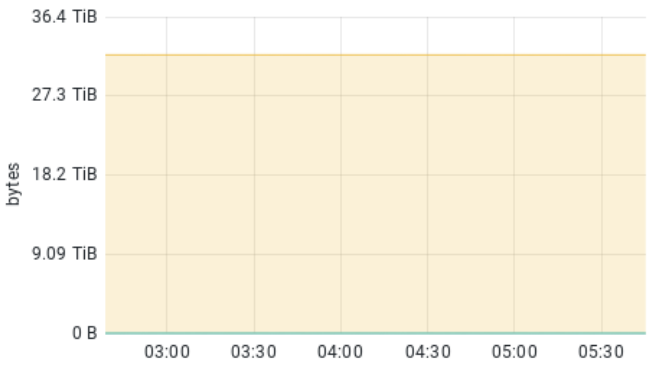
Memory Slab



SUnreclaim - Part of Slab, that cannot be reclaimed on memory pressure 75

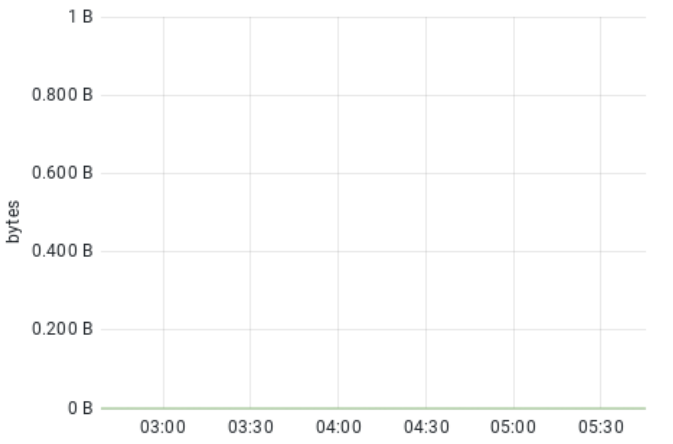
SReclaimable - Part of Slab, that might be reclaimed, such as caches

Memory Vmalloc



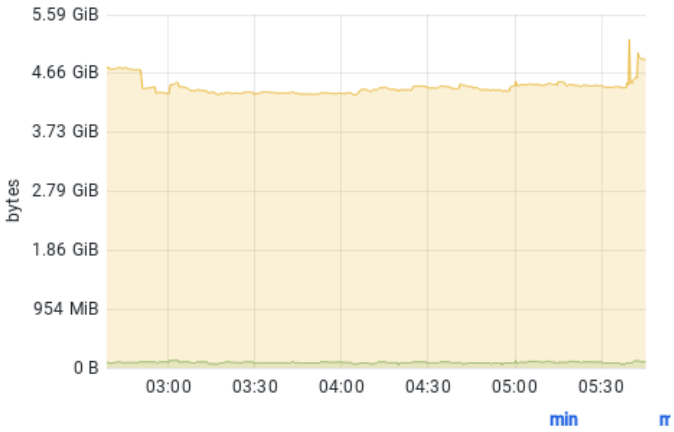
VmallocChunk - Largest contigious block of vmalloc area which is free		
VmallocTotal - Total size of vmalloc memory area		32.0
VmallocUsed - Amount of vmalloc area which is used		68.4

Memory Bounce



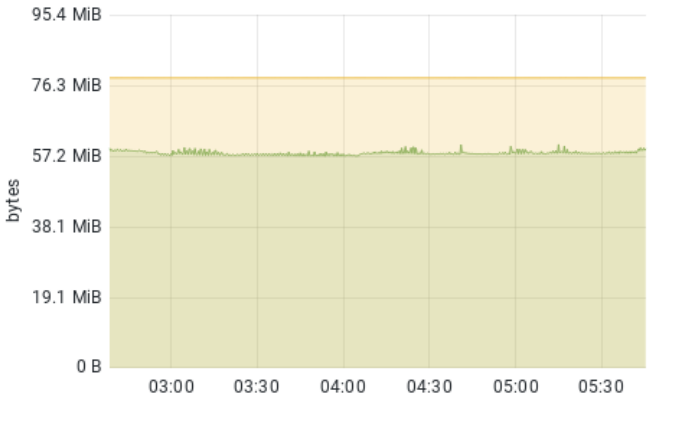
	min	max	avg	curr
Bounce - Memory used for block device bounce buffers	0 B	0 B	0 B	

Memory Anonymous



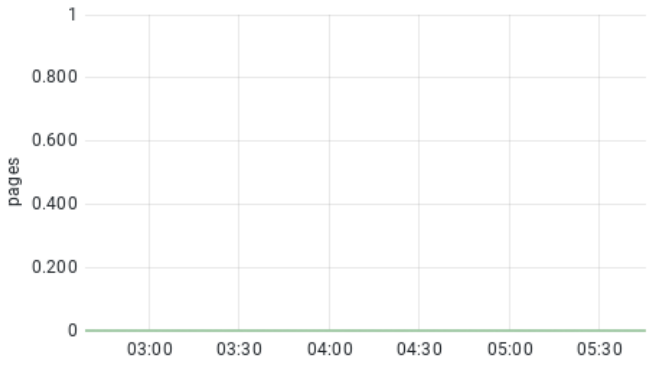
	min	m
AnonHugePages - Memory in anonymous huge pages	48.00 MiB	124.00
AnonPages - Memory in user pages not backed by files	4.32 GiB	5.20

Memory Kernel / CPU



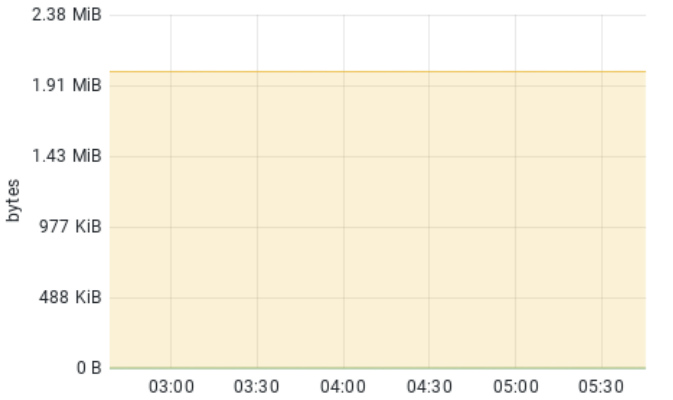
KernelStack - Kernel memory stack. This is not reclaimable	57.1
PerCPU - Per CPU memory allocated dynamically by loadable modules	78.3

Memory HugePages Counter



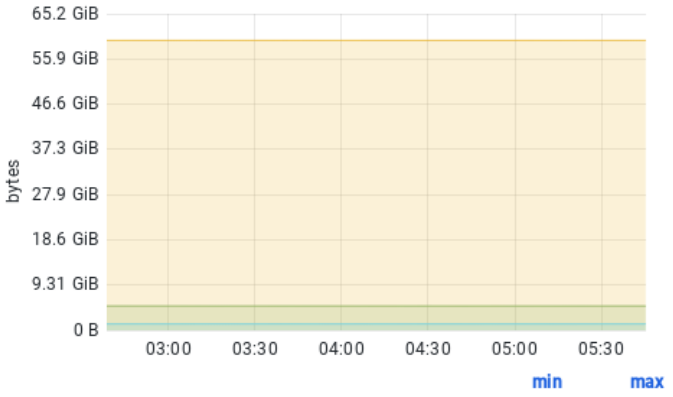
HugePages_Free - Huge pages in the pool that are not yet allocated	
HugePages_Rsvd - Huge pages for which a commitment to allocate from the p	
HugePages_Surp - Huge pages in the pool above the value in /proc/sys/vm/nr	

Memory HugePages Size



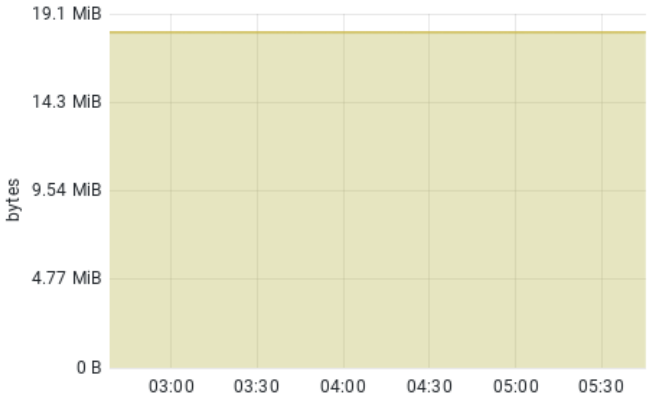
	min	max	cu
HugePages - Total size of the pool of huge pages	0 B	0 B	
Hugepagesize - Huge Page size	2.00 MiB	2.00 MiB	2.0

Memory DirectMap



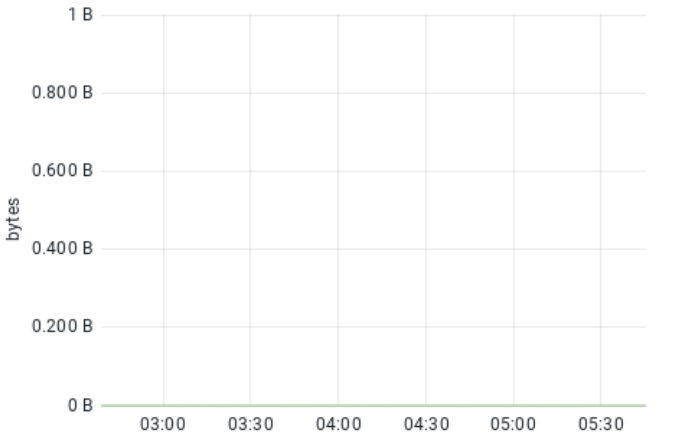
	min	max
DirectMap1G - Amount of pages mapped as this size	5.00 GiB	5.00 GiB
DirectMap2M - Amount of pages mapped as this size	59.71 GiB	59.71 GiB
DirectMap4K - Amount of pages mapped as this size	1.29 GiB	1.29 GiB

Memory Unevictable and MLocked



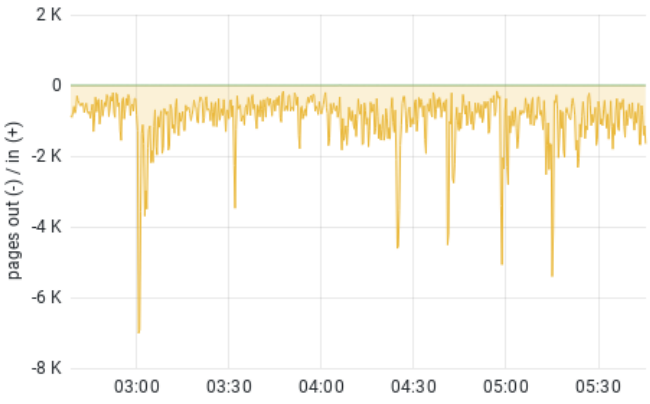
- Unevictable - Amount of unevictable memory that can't be swapped out for a v
- MLocked - Size of pages locked to memory using the mlock() system call

Memory NFS



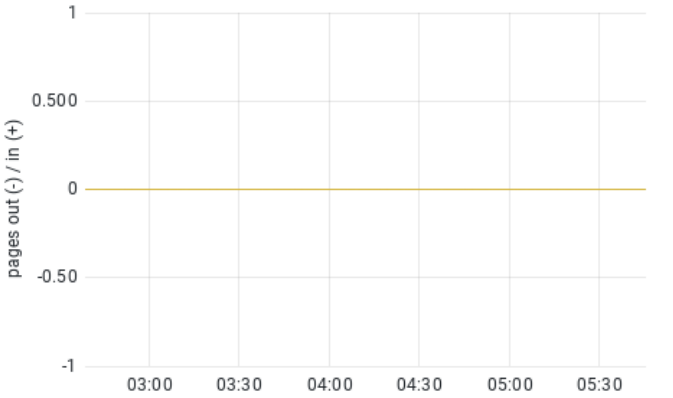
- NFS Unstable - Memory in NFS pages sent to the server, but not yet commited t

Memory Pages In / Out



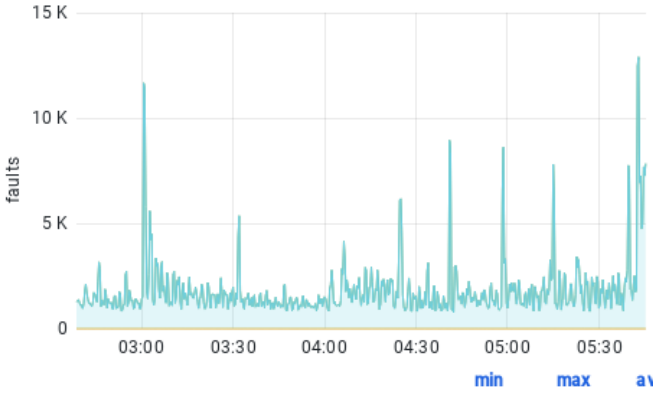
	min	max	avg	current
Pagesin - Page in operations	0	3.11	0.0185	0
Pagesout - Page out operations	160	7.01 K	963	1.65 K

Memory Pages Swap In / Out



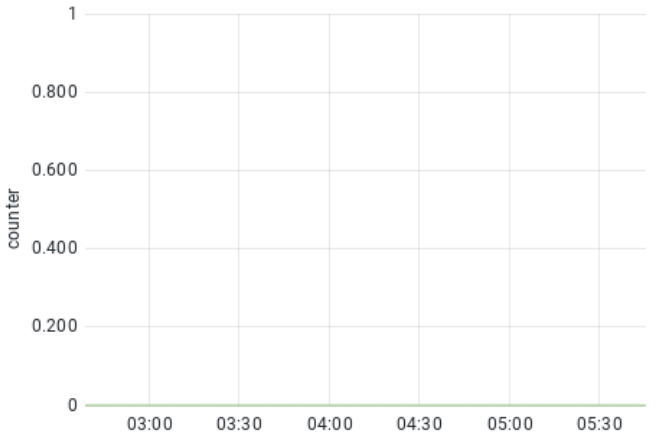
	min	max	avg	current
Pswpin - Pages swapped in	0	0	0	0
Pswpout - Pages swapped out	0	0	0	0

Memory Page Faults



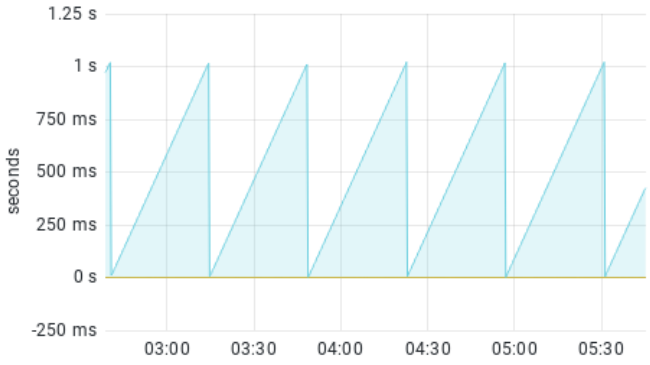
	min	max	avg
Pgfault - Page major and minor fault operations	772.62	12.89 K	1.84 K
Pgmajfault - Major page fault operations	0	0	0
Pgminfault - Minor page fault operations	772.62	12.89 K	1.84 K

OOM Killer



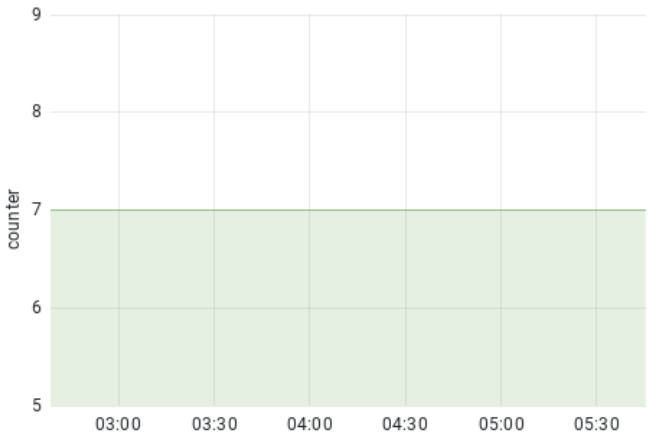
	min	max	avg	current
oom killer invocations	0	0	0	0

Time Syncronized Drift



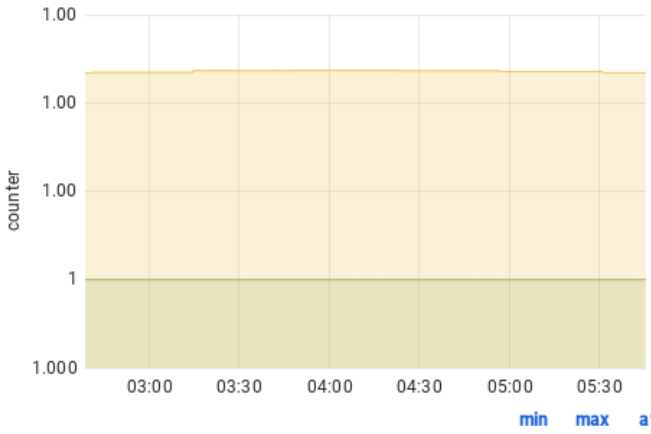
	min	max
Estimated error in seconds	0 s	0 s
Time offset in between local system and reference clock	-206 µs	283 µs
Maximum error in seconds	1 ms	1.02 s

Time PLL Adjust



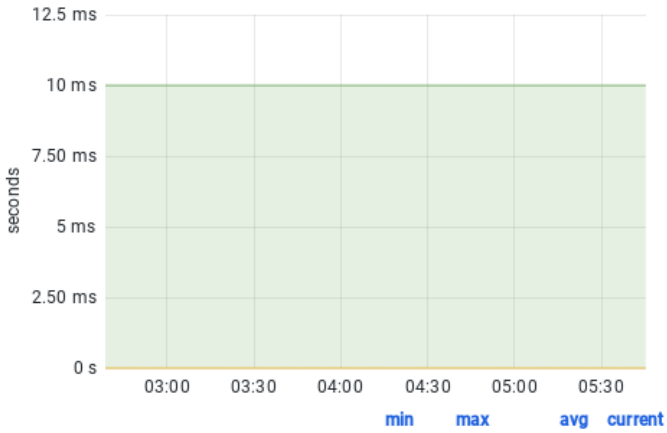
	min	max	avg	current
Phase-locked loop time adjust	7	7	7	7

Time Syncronized Status



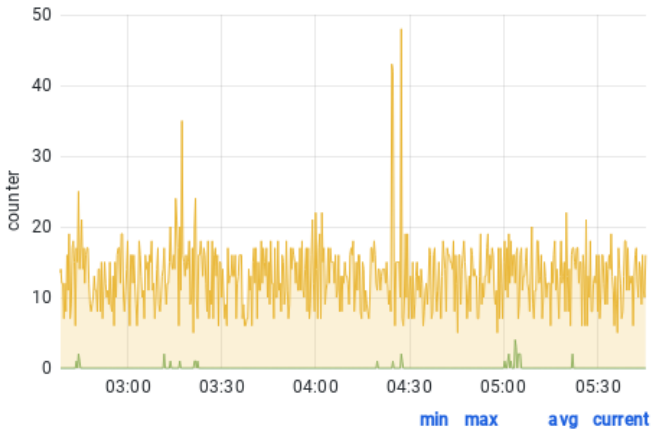
	min	max	avg
Is clock synchronized to a reliable server (1 = yes, 0 = no)	1	1	
Local clock frequency adjustment	1.00	1.00	1.0

Time Misc



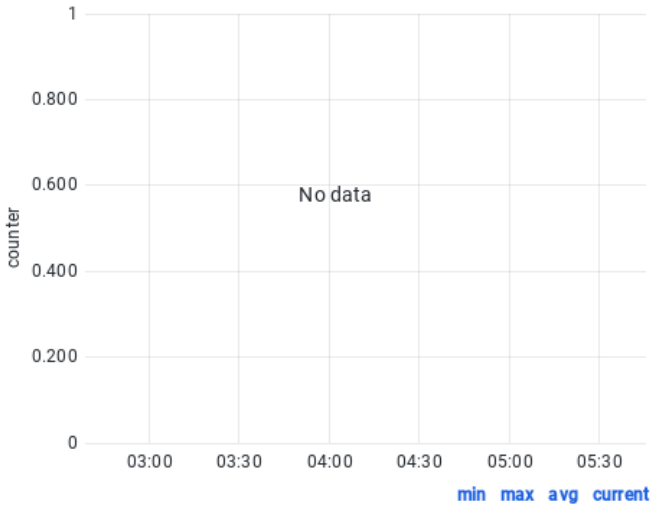
	min	max	avg	current
Seconds between clock ticks	10 ms	10 ms	10.00 ms	10 ms
International Atomic Time (TAI) offset	0 s	0 s	0 s	0 s

Processes Status

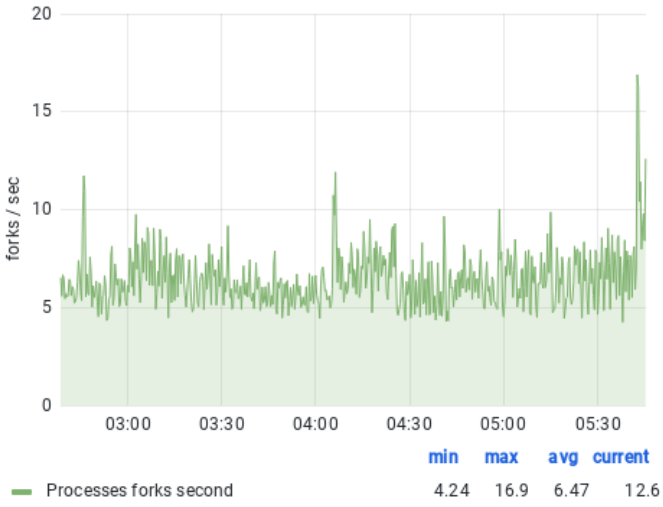


	min	max	avg	current
Processes blocked waiting for I/O to complete	0	4	0.0641	0
Processes in runnable state	5	48	13.1	16

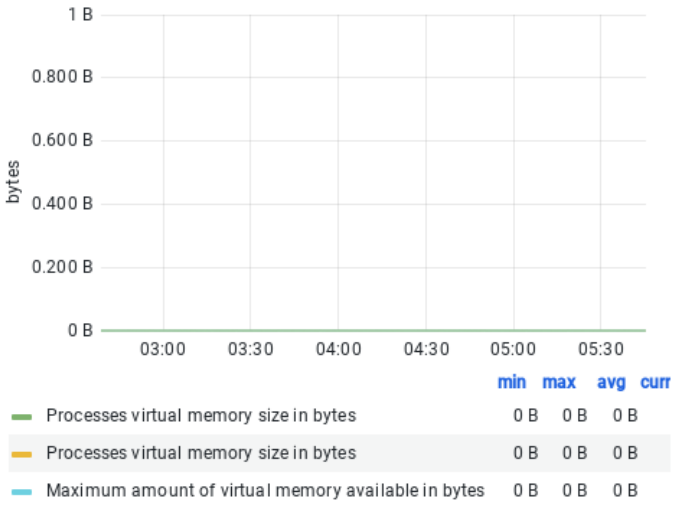
Processes State



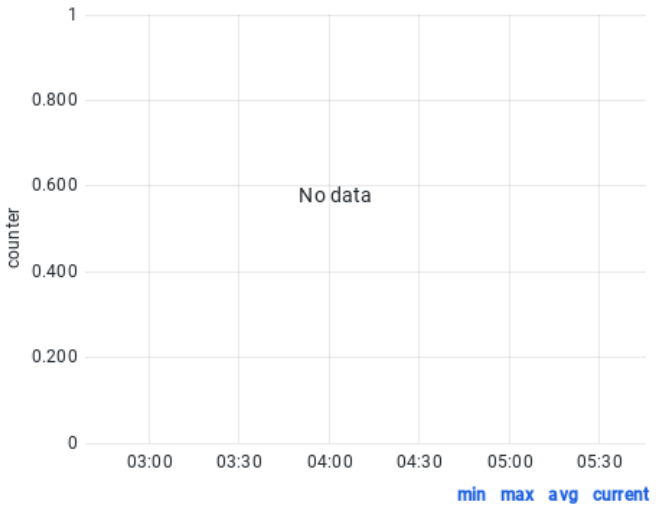
Processes Forks



Processes Memory

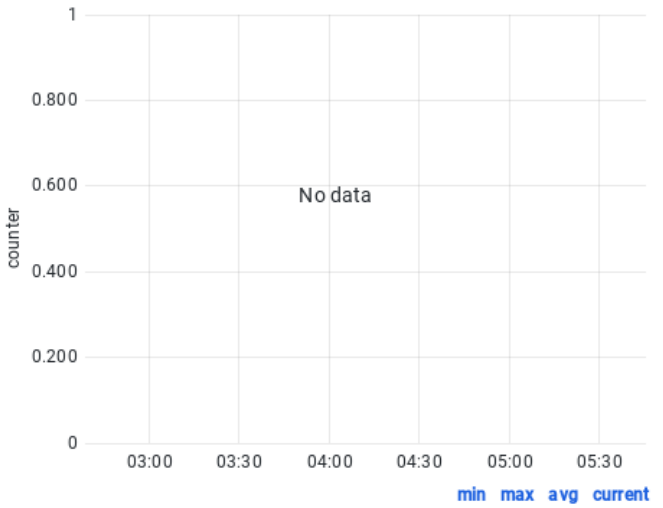


PIDs Number and Limit

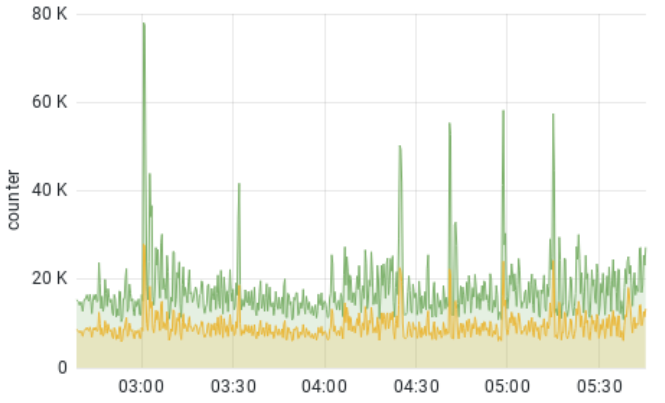


Process schedule stats Running / Waiting

Threads Number and Limit

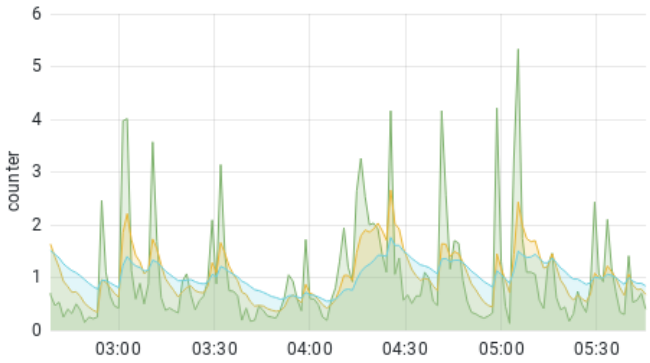


Context Switches / Interrupts



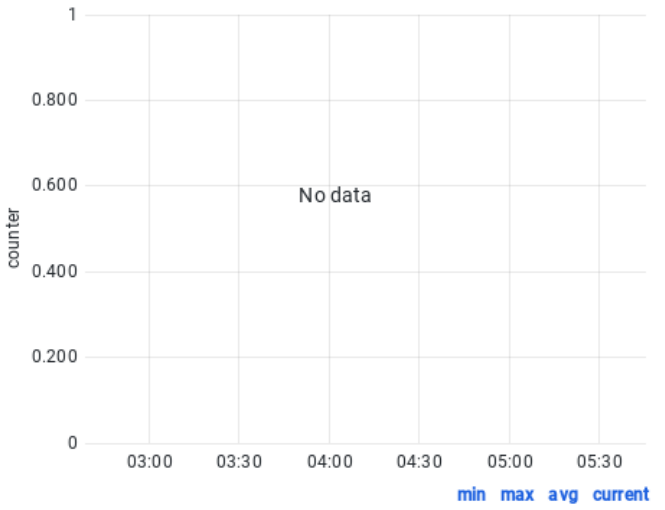
	min	max	avg	current
Context switches	10.4 K	78.0 K	17.9 K	27.2 K
Interrupts	5.88 K	27.9 K	9.48 K	13.4 K

System Load



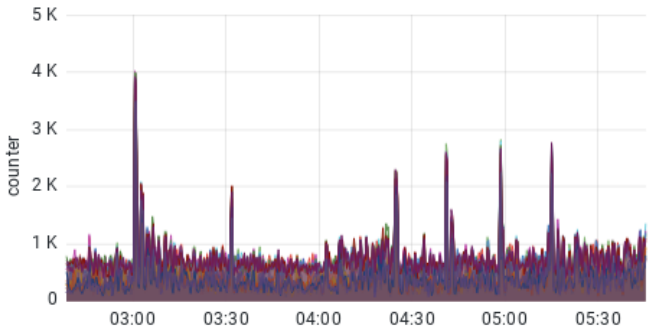
	min	max	avg	current
Load 1m	0.130	5.33	1.04	0.400
Load 5m	0.340	2.66	1.04	0.680
Load 15m	0.550	1.76	1.05	0.840

Interrupts Detail



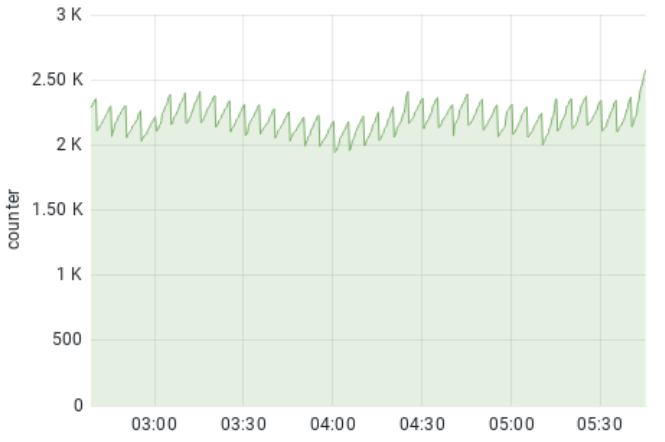
min	max	avg	current

Schedule timeslices executed by each cpu



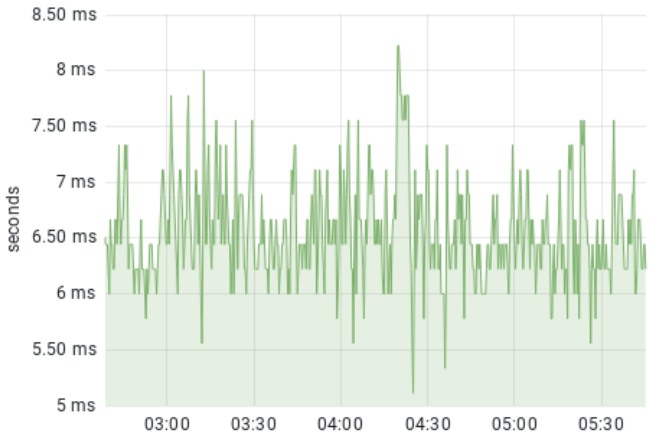
	min	max	avg	current
CPU 0	344	3.90 K	763	1.18 K
CPU 1	102	3.42 K	431	809
CPU 10	347	3.87 K	764	1.36 K
CPU 11	97.1	3.61 K	432	754

Entropy



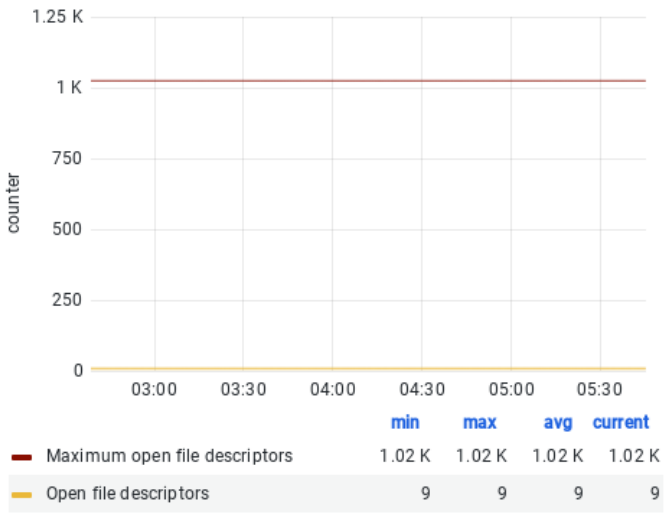
	min	max	avg
Entropy available to random number generators	1.94 K	2.58 K	2.20 K

CPU time spent in user and system contexts



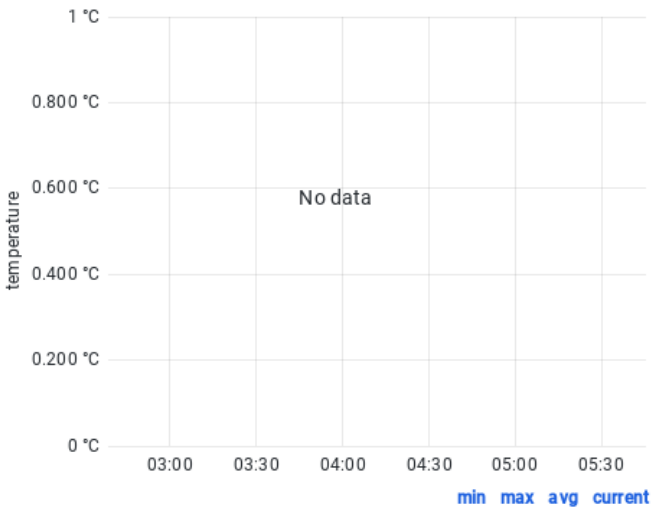
	min	max	avg	current
Time spent	5.11 ms	8.22 ms	6.57 ms	6.22 ms

File Descriptors

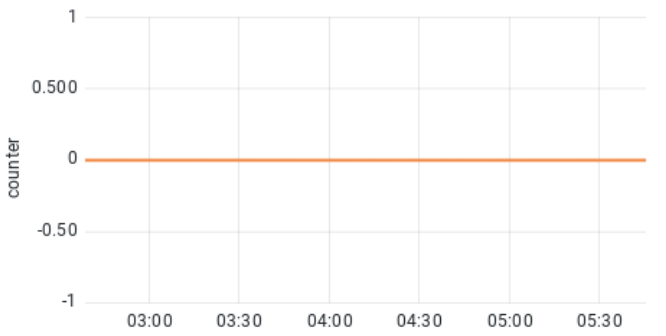


	min	max	avg	current
Maximum open file descriptors	1.02 K	1.02 K	1.02 K	1.02 K
Open file descriptors	9	9	9	9

Hardware temperature monitor

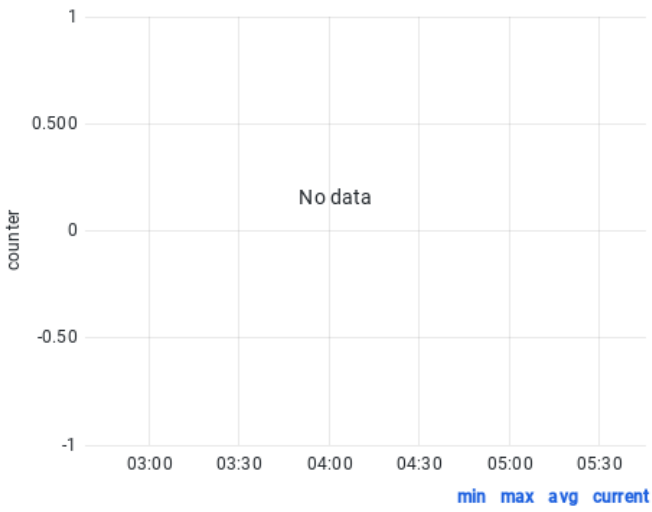


Throttle cooling device

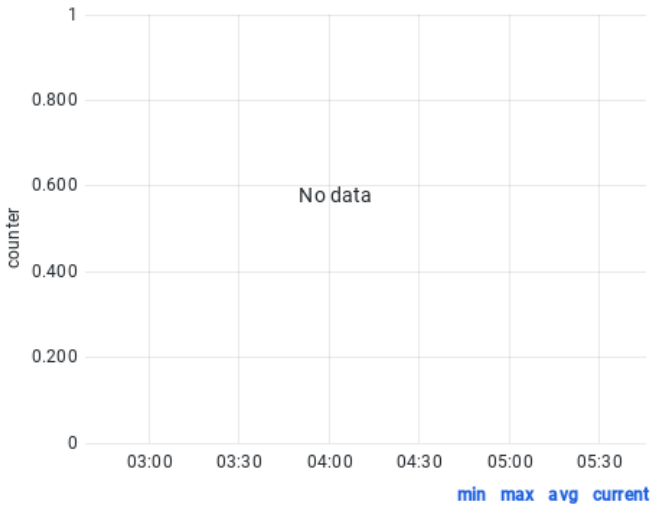


	min	max	avg	current
Current 0 in Processor	0	0	0	0
Current 1 in Processor	0	0	0	0
Current 10 in Processor	0	0	0	0
Current 11 in Processor	0	0	0	0

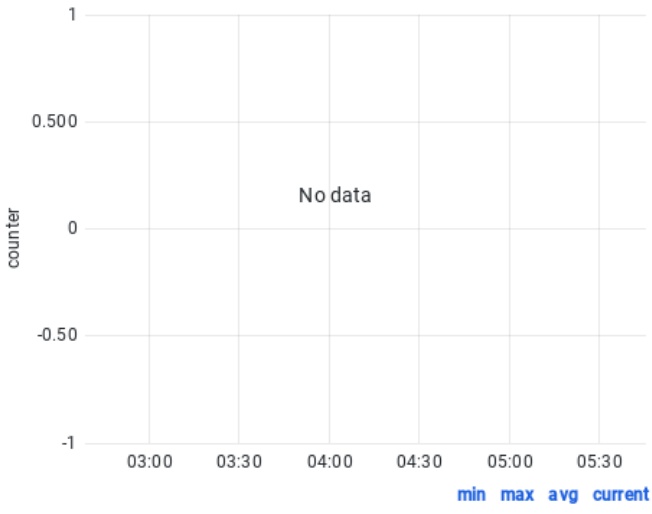
Power supply



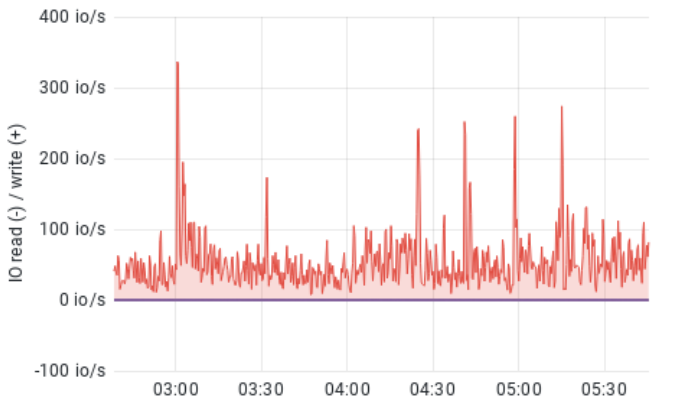
Systemd Sockets



Systemd Units State

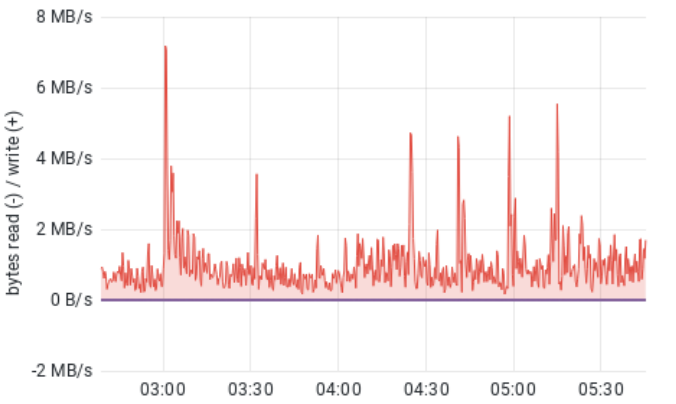


Disk IOps Completed



	min	max	avg	current
vda - Reads completed	0 io/s	0.0400 io/s	0.000798 io/s	0 io/s
vda - Writes completed	7.58 io/s	337 io/s	54.3 io/s	81.9 io/s

Disk R/W Data

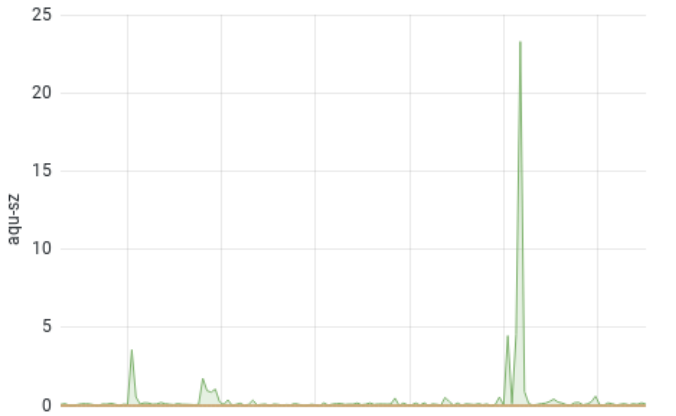


	min	max	avg	current
vda - Read bytes	0 B/s	1.59 kB/s	13.5 B/s	0 B/s
vda - Written bytes	164 kB/s	7.18 MB/s	986 kB/s	1.69 MB/s

Disk Average Wait Time

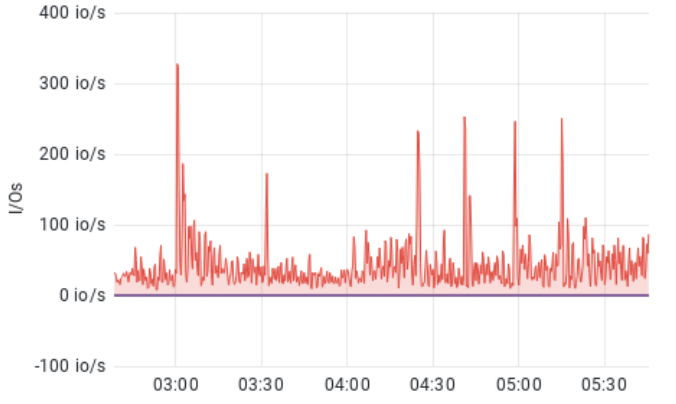
	min	max	avg	current
vda - Write wait time avg	746 µs	603 ms	8.04 ms	3.08 ms
vda - Read wait time avg	0 s	3.00 ms	800 µs	

Average Queue Size



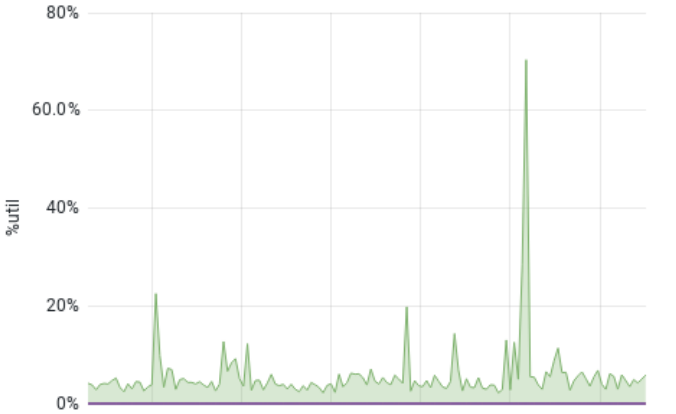
	min	max	avg	current
vda	0	23.3	0.397	0.104

Disk R/W Merged



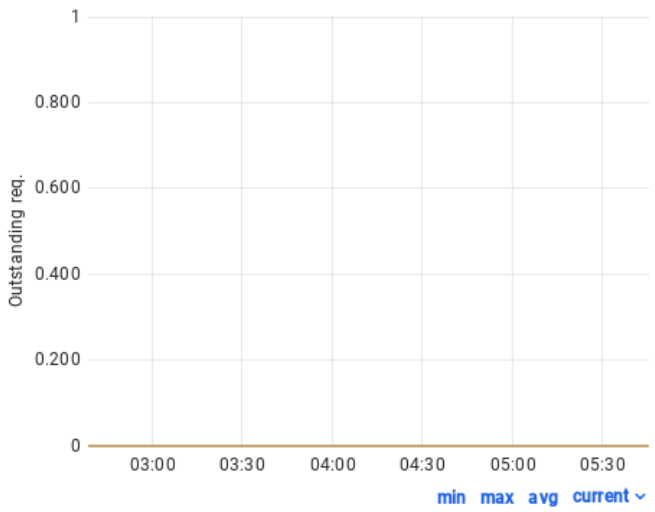
	min	max	avg	current
vda - Write merged	7.82 io/s	328 io/s	42.8 io/s	86.6 io/s
vda - Read merged	0 io/s	0.689 io/s	0.00368 io/s	0 io/s

Time Spent Doing I/Os

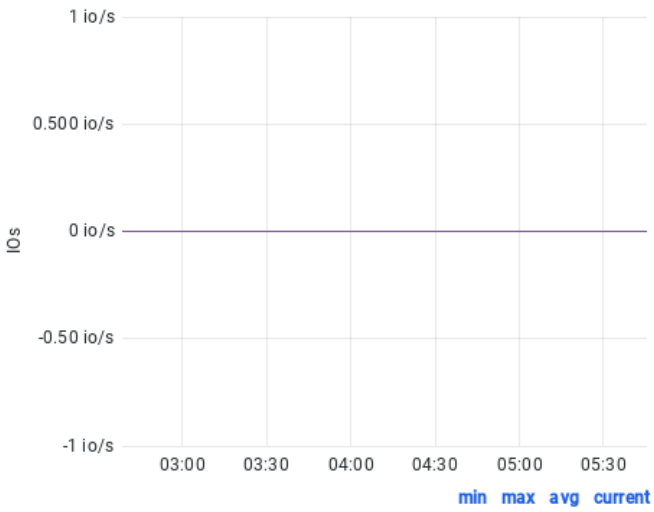


	min	max	avg	current
vda - IO	2.20%	70.4%	5.66%	5.84%

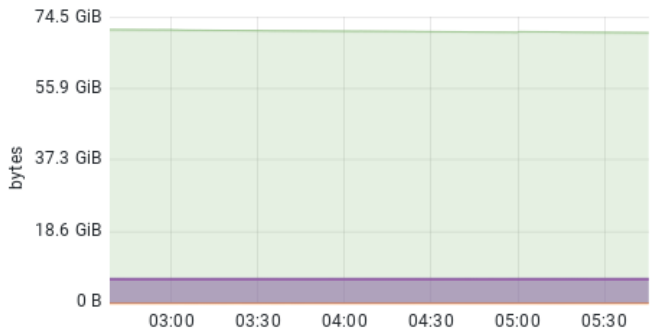
Instantaneous Queue Size



Disk IOps Discards completed / merged

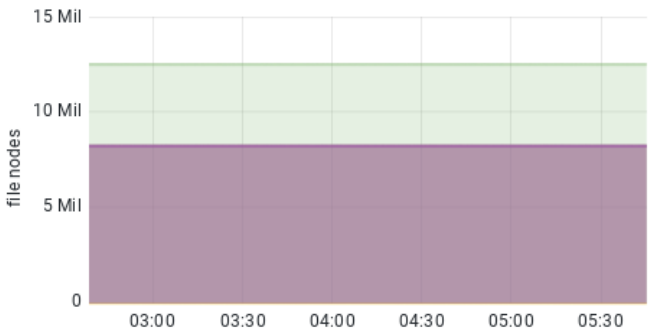


Filesystem space available



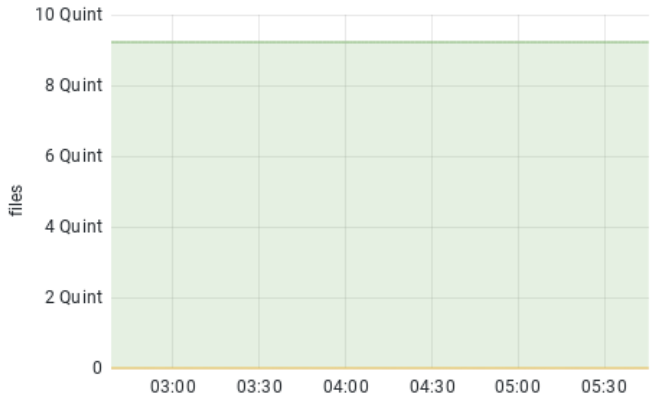
	min	max	avg	cu
/ - Available	70.342 GiB	71.152 GiB	70.719 GiB	70.3
/boot/efi - Available	99.157 MiB	99.157 MiB	99.157 MiB	99.15
/run - Available	6.278 GiB	6.278 GiB	6.278 GiB	6.2
/run/lock - Available	5.000 MiB	5.000 MiB	5.000 MiB	5.00

File Nodes Free



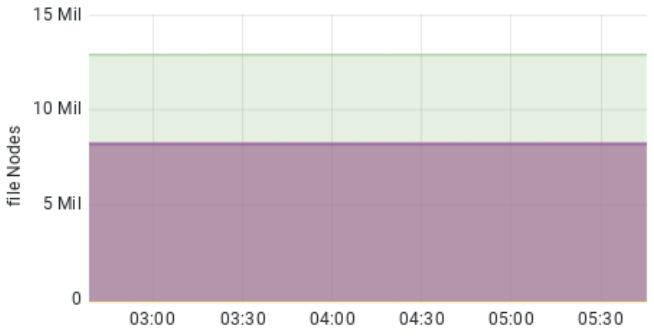
	min	max	avg	current
/ - Free file nodes	12.5 Mil	12.5 Mil	12.5 Mil	12.5 Mil
/run - Free file nodes	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil
/run/lock - Free file nodes	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil
/run/snapd/ns - Free file nodes	8.23 Mil	8.23 Mil	8.23 Mil	8.23 Mil

File Descriptor



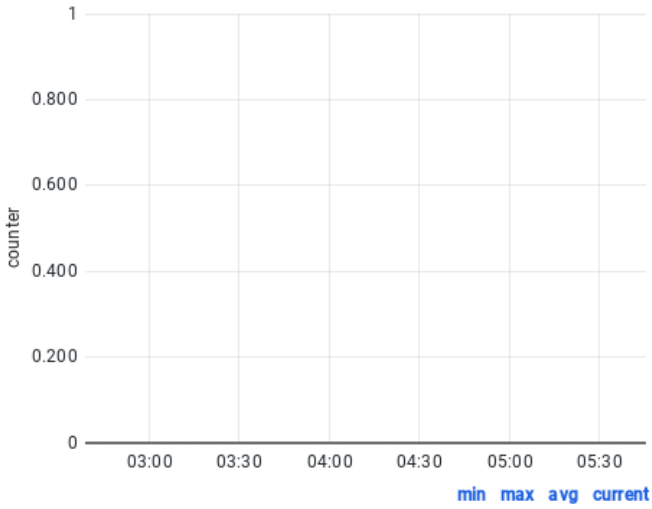
	min	max	avg	current
Max open files	9.22 Quint	9.22 Quint	9.22 Quint	9.22 Quint
Open files	8.96 K	11.9 K	9.58 K	10.4 K

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

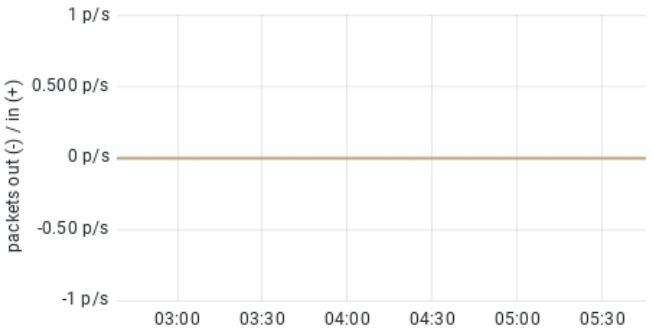
Filesystem in ReadOnly / Error



Network Traffic by Packets

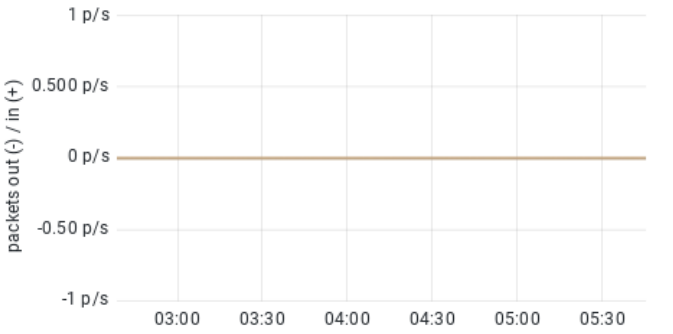
	min	max	avg	curre
br-24bcc7b4436a - Receive	1.69 p/s	159 p/s	20.8 p/s	40.0
br-3bee41ce9340 - Receive	0 p/s	0 p/s	0 p/s	0
br-7098de4b671c - Receive	4.62 p/s	385 p/s	41.7 p/s	84.5
br-b5d82a87db58 - Receive	0 p/s	0 p/s	0 p/s	0

Network Traffic Errors



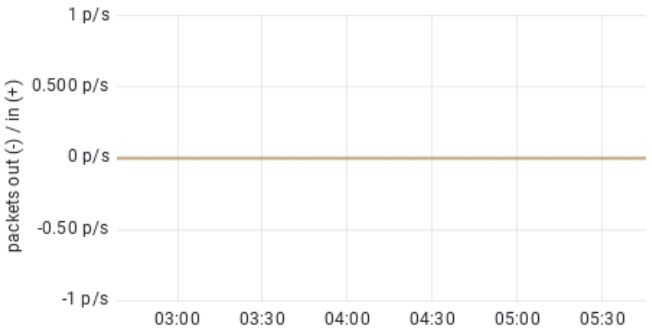
	min	max	avg	current
vethfdb13d6 - Rransmit errors	0 p/s	0 p/s	0 p/s	0 p/s
vethfd9472a - Rransmit errors	0 p/s	0 p/s	0 p/s	0 p/s
vethedf8a4b - Rransmit errors	0 p/s	0 p/s	0 p/s	0 p/s
vethe26b443 - Rransmit errors	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Drop



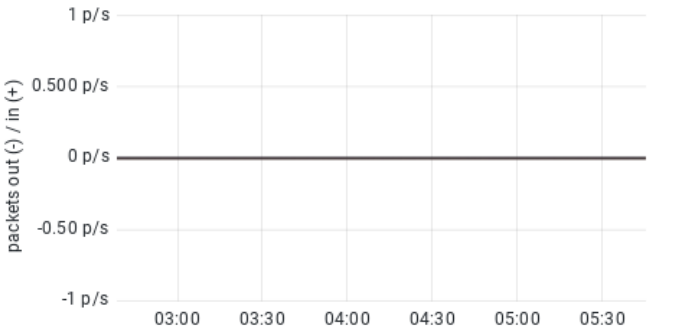
	min	max	avg	current
vethfdb13d6 - Transmit drop	0 p/s	0 p/s	0 p/s	0 p/s
vethfd9472a - Transmit drop	0 p/s	0 p/s	0 p/s	0 p/s
vethedf8a4b - Transmit drop	0 p/s	0 p/s	0 p/s	0 p/s
vethe26b443 - Transmit drop	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Compressed



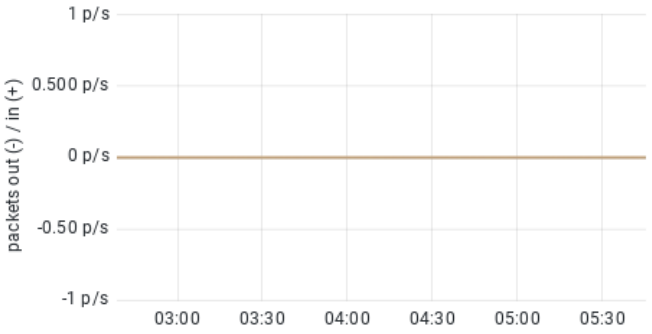
	min	max	avg	current
vethfdb13d6 - Transmit compressed	0 p/s	0 p/s	0 p/s	0 p/s
vethfd9472a - Transmit compressed	0 p/s	0 p/s	0 p/s	0 p/s
vethedf8a4b - Transmit compressed	0 p/s	0 p/s	0 p/s	0 p/s
vethe26b443 - Transmit compressed	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Multicast



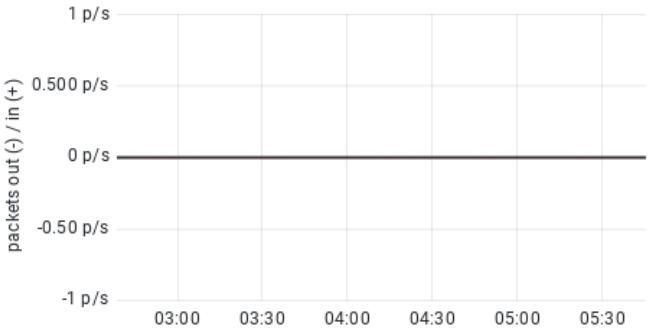
	min	max	avg	current
vethfdb13d6 - Receive multicast	0 p/s	0 p/s	0 p/s	0 p/s
vethfd9472a - Receive multicast	0 p/s	0 p/s	0 p/s	0 p/s
vethedf8a4b - Receive multicast	0 p/s	0 p/s	0 p/s	0 p/s
vethe26b443 - Receive multicast	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Fifo



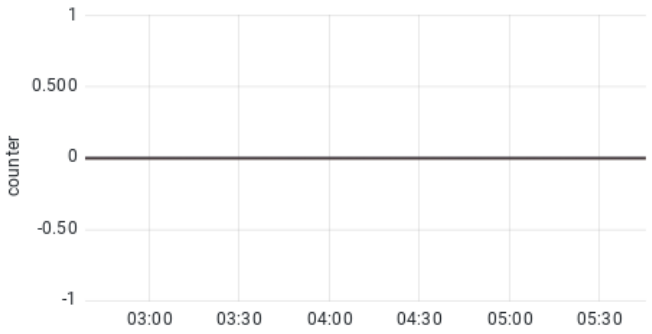
	min	max	avg	current
vethfdb13d6 - Transmit fifo	0 p/s	0 p/s	0 p/s	0 p/s
vethfd9472a - Transmit fifo	0 p/s	0 p/s	0 p/s	0 p/s
vethedf8a4b - Transmit fifo	0 p/s	0 p/s	0 p/s	0 p/s
vethe26b443 - Transmit fifo	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Frame



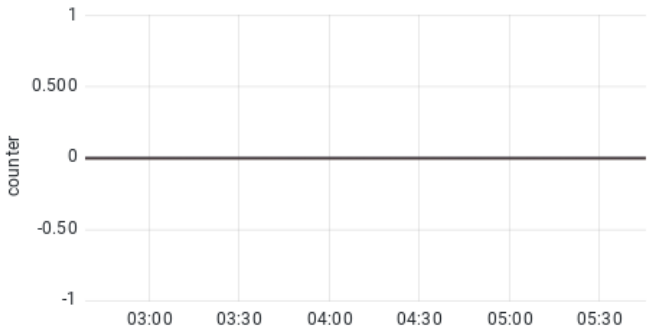
	min	max	avg	current
vethfdb13d6 - Receive frame	0 p/s	0 p/s	0 p/s	0 p/s
vethfd9472a - Receive frame	0 p/s	0 p/s	0 p/s	0 p/s
vethedf8a4b - Receive frame	0 p/s	0 p/s	0 p/s	0 p/s
vethe26b443 - Receive frame	0 p/s	0 p/s	0 p/s	0 p/s

Network Traffic Carrier



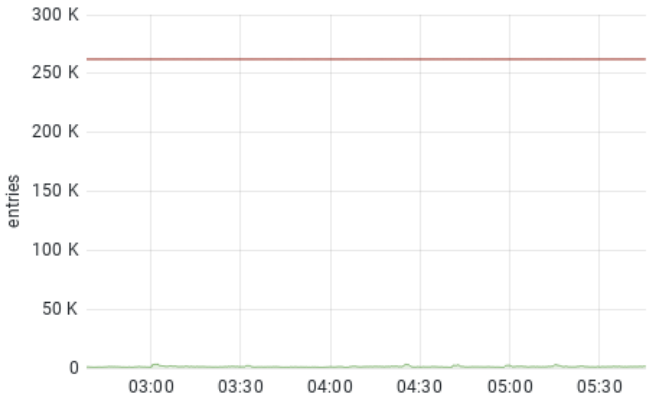
	min	max	avg	current
vethfdb13d6 - Statistic transmit_carrier	0	0	0	0
vethfd9472a - Statistic transmit_carrier	0	0	0	0
vethedf8a4b - Statistic transmit_carrier	0	0	0	0
vethe26b443 - Statistic transmit_carrier	0	0	0	0

Network Traffic Colls



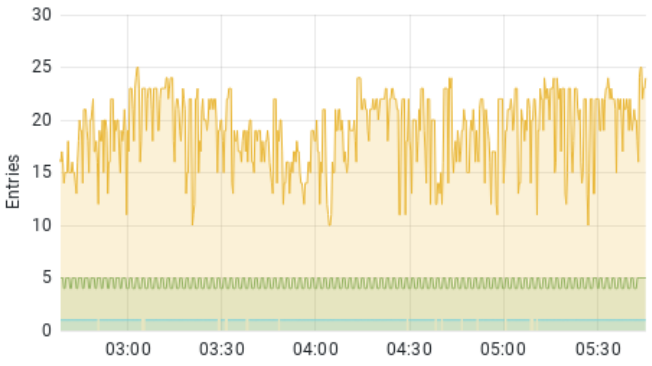
	min	max	avg	current
vethfdb13d6 - Transmit colls	0	0	0	0
vethfd9472a - Transmit colls	0	0	0	0
vethedf8a4b - Transmit colls	0	0	0	0
vethe26b443 - Transmit colls	0	0	0	0

NF Contrack



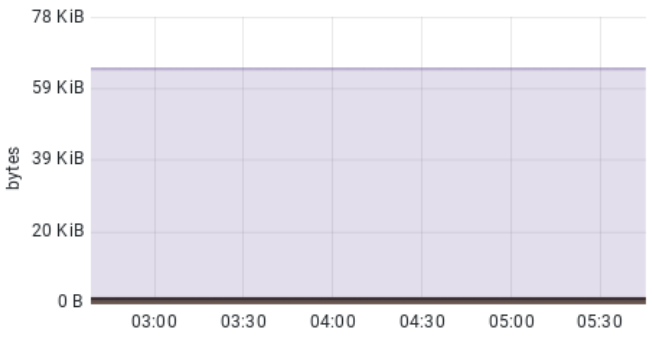
	min	max	avg	current
NF conntrack entries	637	3.50 K	1.20 K	1.54 K
NF conntrack limit	262 K	262 K	262 K	262 K

ARP Entries



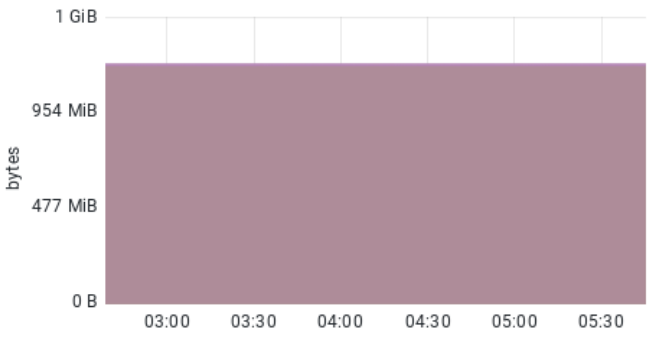
	min	max	avg	current
br-24bcc7b4436a - ARP entries	4	5	4.53	5
br-7098de4b671c - ARP entries	10	25	19.0	24
ens3 - ARP entries	1	1	1	1

MTU



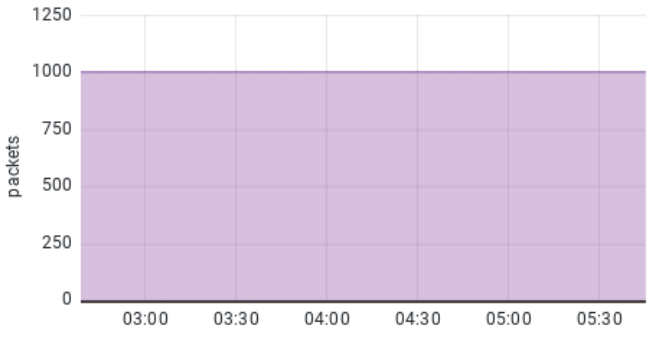
	min	max	avg	current
br-24bcc7b4436a - Bytes	1.5 KiB	1.5 KiB	1.5 KiB	1.5 KiB
br-3bee41ce9340 - Bytes	1.5 KiB	1.5 KiB	1.5 KiB	1.5 KiB
br-7098de4b671c - Bytes	1.5 KiB	1.5 KiB	1.5 KiB	1.5 KiB
br-b5d82a87db58 - Bytes	1.5 KiB	1.5 KiB	1.5 KiB	1.5 KiB

Speed



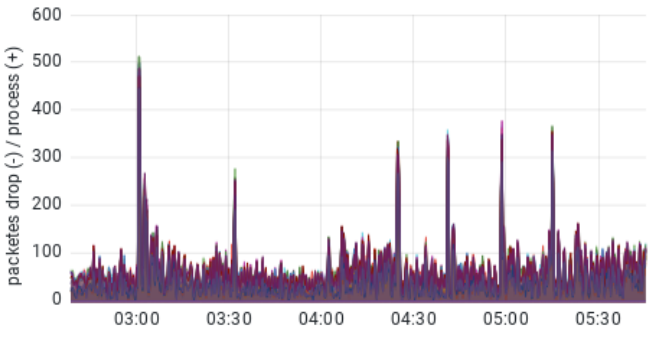
	min	max	avg	current
ens3 - Speed	-122.1 KiB	-122.1 KiB	-122.1 KiB	-122.1 KiB
veth08f2416 - Speed	1.2 GiB	1.2 GiB	1.2 GiB	1.2 GiB
veth15b2e1a - Speed	1.2 GiB	1.2 GiB	1.2 GiB	1.2 GiB
veth1fec4e4 - Speed	1.2 GiB	1.2 GiB	1.2 GiB	1.2 GiB

Queue Length



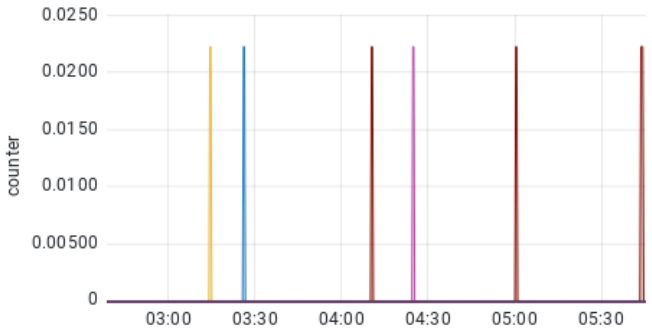
	min	max	a
br-24bcc7b4436a - Interface transmit queue length	0	0	
br-3bee41ce9340 - Interface transmit queue length	0	0	
br-7098de4b671c - Interface transmit queue length	0	0	
br-b5d82a87db58 - Interface transmit queue length	0	0	

Softnet Packets



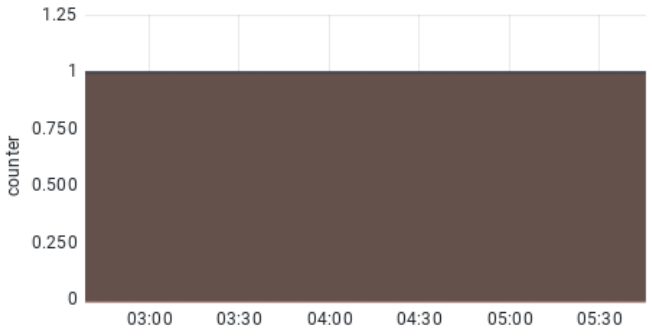
	min	max	avg	current
CPU 10 - Processed	11	498	67.4	121
CPU 2 - Processed	10.4	513	66.8	119
CPU 14 - Processed	9.56	477	67.4	114
CPU 8 - Processed	10.9	488	67.3	111

Softnet Out of Quota



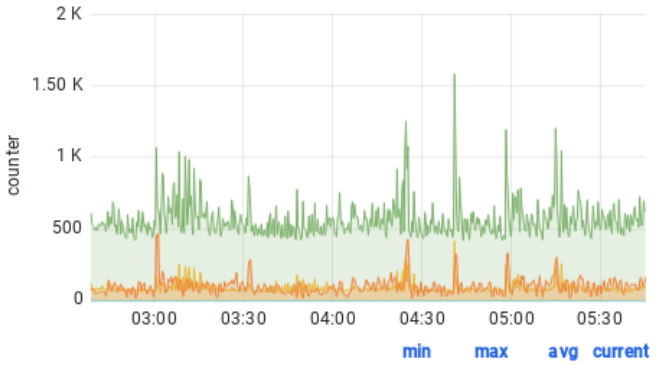
	min	max	avg	current
CPU 9 - Squeezed	0	0	0	0
CPU 8 - Squeezed	0	0	0	0
CPU 7 - Squeezed	0	0	0	0
CPU 6 - Squeezed	0	0.0222	0.000277	0

Network Operational Status



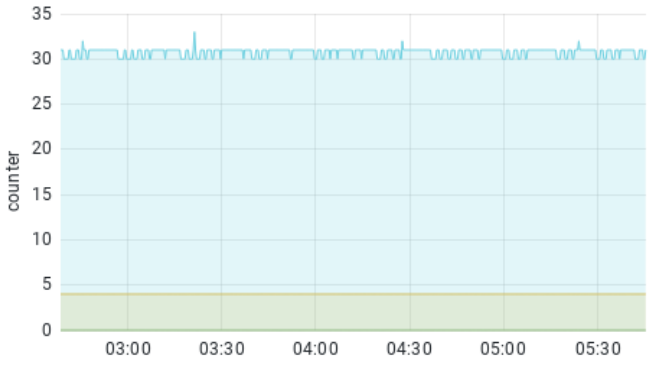
	min	max	avg	current
vethfdb13d6 - Physical link state	1	1	1	1
vethfd9472a - Physical link state	1	1	1	1
vethedf8a4b - Physical link state	1	1	1	1
vethe26b443 - Physical link state	1	1	1	1

Sockstat TCP



	min	max	avg	current
TCP_alloc - Allocated sockets	421	1.58 K	567	632
TCP_inuse - Tcp sockets currently in use	57	417	89.0	100
TCP_orphan - Orphan sockets	0	2	0.185	0
TCP_tw - Sockets wating close	18	469	103	166

Sockstat UDP

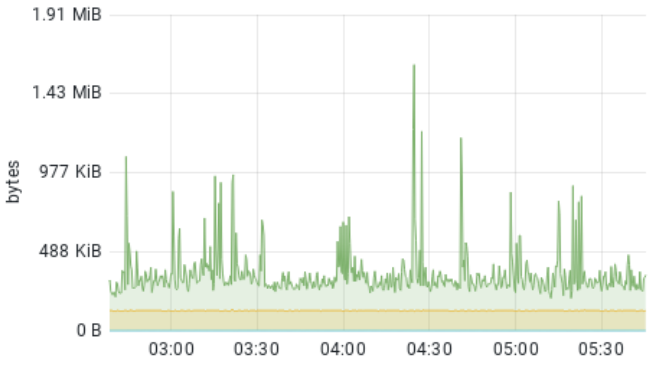


	min	max	avg	current
UDPLITE_inuse - Udplite sockets currently in use	0	0	0	0
UDP_inuse - Udp sockets currently in use	4	4	4	4
UDP_mem - Used memory for udp	30	33	30.7	31

Sockstat FRAG / RAW

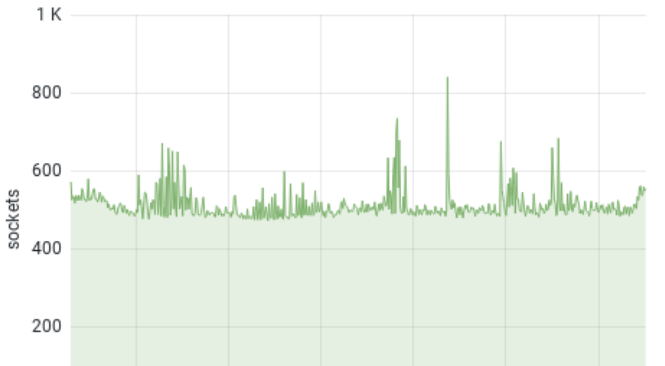
	min	max	avg	current
FRAG_inuse - Frag sockets currently in use	0	0	0	0
RAW_inuse - Raw sockets currently in use	0	0	0	0

Sockstat Memory Size



	min	max	avg	cur
mem_bytes - TCP sockets in that state	200 KiB	1.61 MiB	348 KiB	34
mem_bytes - UDP sockets in that state	120 KiB	132 KiB	123 KiB	12
FRAG_memory - Used memory for frag	0 B	0 B	0 B	

Sockstat Used

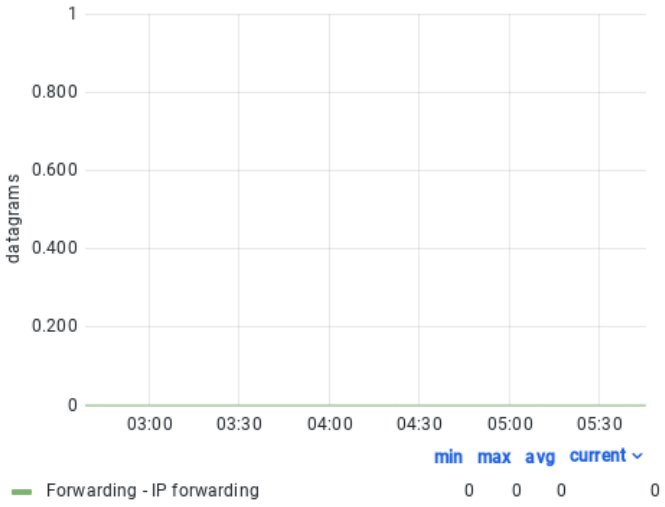


	min	max	avg	current
Sockets_used - Sockets currently in use	473	840	512	555

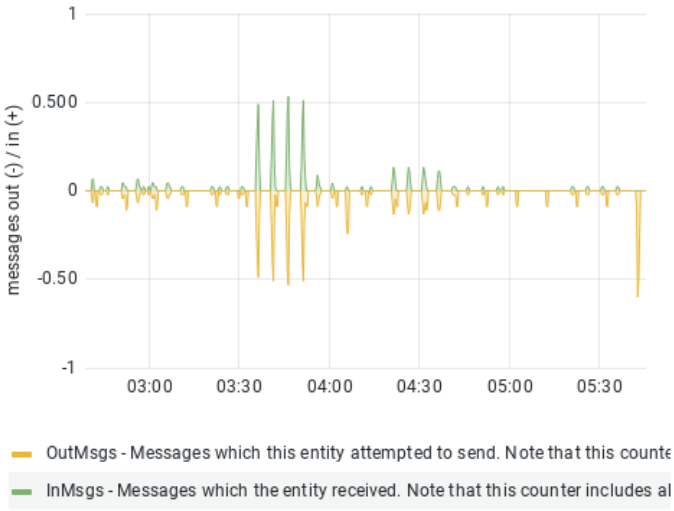
Netstat IP In / Out Octets

	min	max	avg	current
OutOctets - Sent octets	4.24 K	354 K	22.4 K	38.1 K
InOctets - Received octets	2.81 K	353 K	20.5 K	34.1 K

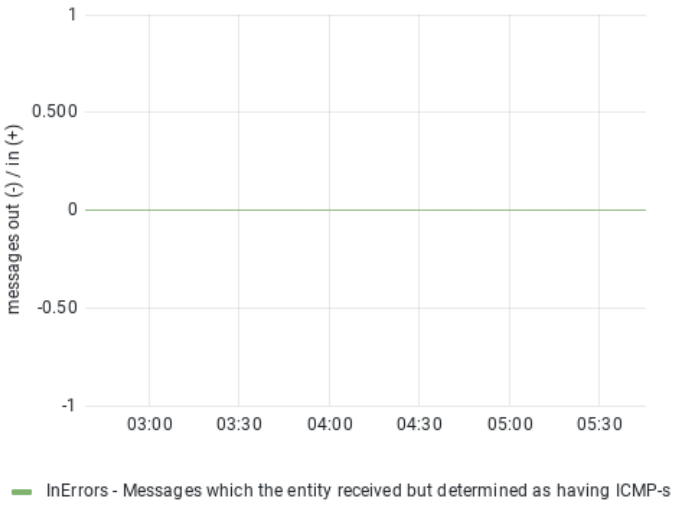
Netstat IP Forwarding



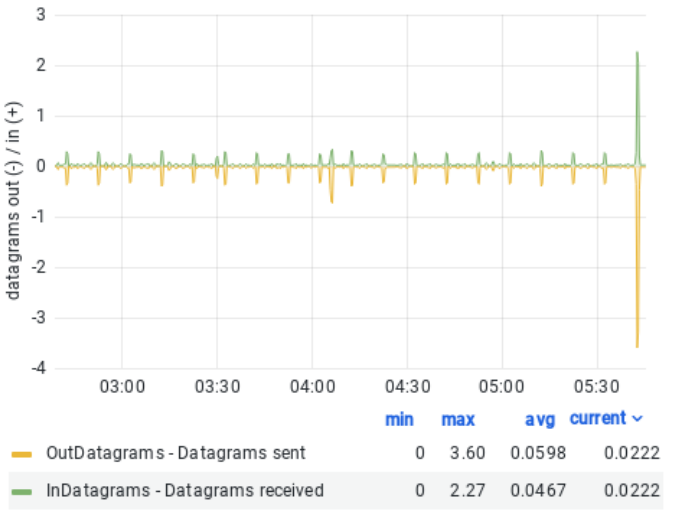
ICMP In / Out



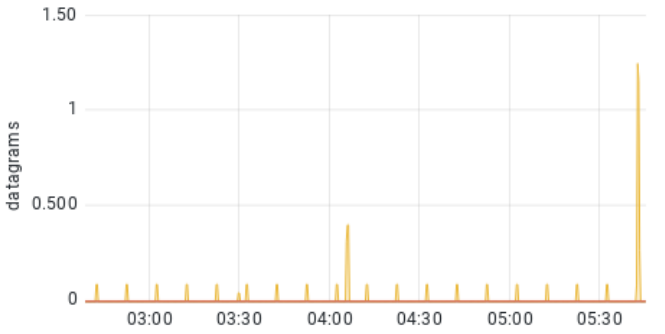
ICMP Errors



UDP In / Out



UDP Errors



SndbufErrors - UDP buffer errors send

RcvbufErrors - UDP buffer errors received

InErrors Lite - UDPLite Datagrams that could not be delivered to an application

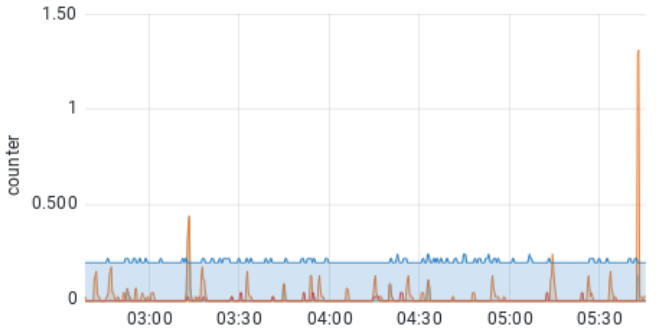
NoPorts - UDP Datagrams received on a port with no listener

TCP In / Out

OutSegs - Segments sent, including those on current connections but excluding

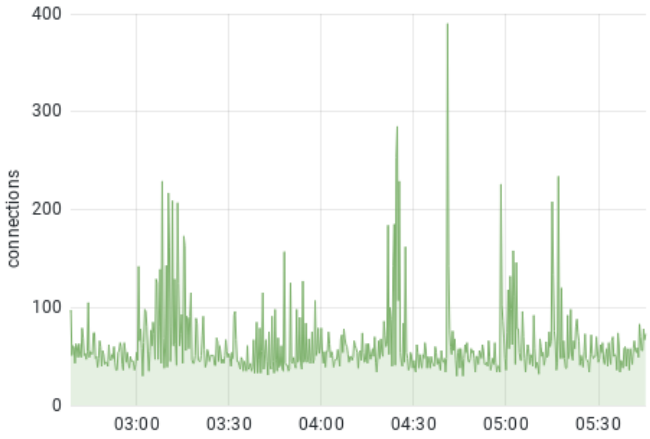
InSegs - Segments received, including those received in error. This count includ

TCP Errors



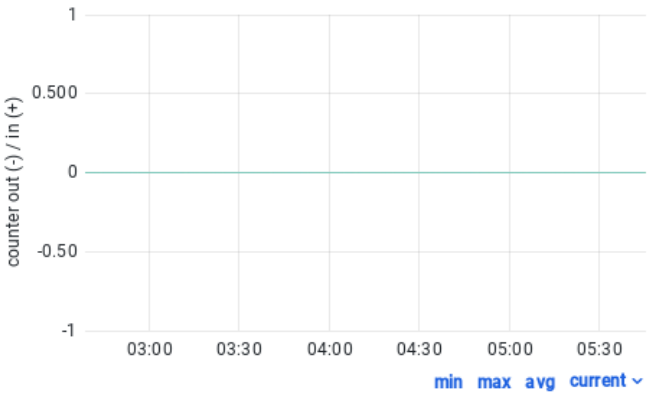
- OutRsts - Segments sent with RST flag
- RetransSegs - Segments retransmitted - that is, the number of TCP segments tr
- InErrs - Segments received in error (e.g., bad TCP checksums)
- TCPSynRetrans - SYN-SYN/ACK retransmits to break down retransmissions in

TCP Connections



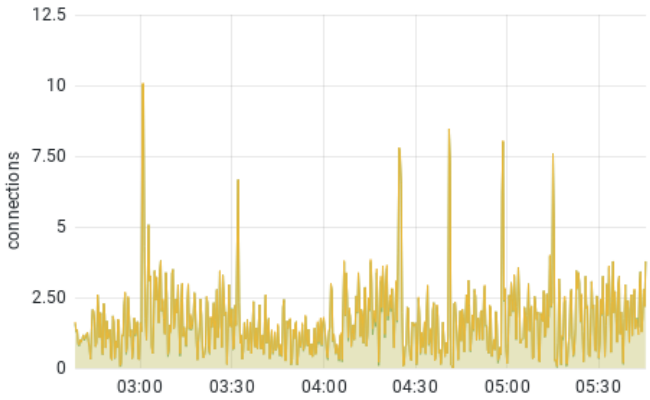
- CurrEstab - TCP connections for which the current state is either ESTABLISHED

TCP SynCookie



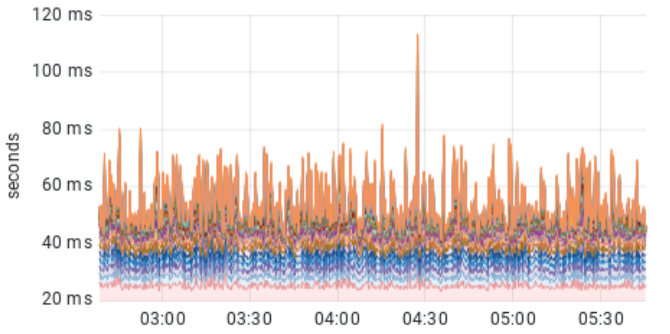
	min	max	avg	current
SyncookiesSent - SYN cookies sent	0	0	0	0
SyncookiesRecv - SYN cookies received	0	0	0	0
SyncookiesFailed - Invalid SYN cookies received	0	0	0	0

TCP Direct Transition



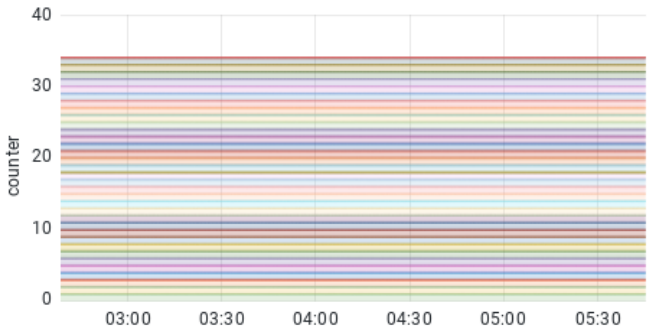
- ActiveOpens - TCP connections that have made a direct transition to the SYN-S
- PassiveOpens - TCP connections that have made a direct transition to the SYN

Node Exporter Scrape Time



	min	max	avg	current
netclass - Scrape duration	23.4 ms	41.4 ms	25.6 ms	25.9
netdev - Scrape duration	1.76 ms	6.63 ms	3.11 ms	2.99
diskstats - Scrape duration	922 µs	6.88 ms	3.16 ms	2.72
cpu - Scrape duration	1.82 ms	10.9 ms	2.79 ms	2.48

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