Sumo Logic - Metric Searches

🌐 rjury-sumo.github.io/sumologic-query-examples/metrics-search-viewer.html

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Interactive viewer for Sumo Logic metric search queries exported from 100+ Sumo Logic apps

Total searches: 3749

Windows 2012+ - OpenTelemetry/Process Metrics - Overview/Write Operations

```
sumo.datasource=windows   metric=process.disk.operations (direction=read or
direction=write) AND deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}  process.executable.name=
{{process.executable.name}} | sum by host.name, process.executable.name | filter sum > 65
|  topk(10, sum)
```

Windows 2012+ - OpenTelemetry/Process Metrics - Overview/Top 10 Processes by Thread Count

```
sumo.datasource=windows   metric=process.threads deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} | max by process.executable.name,
host.name | topk(10, max)
```

Windows 2012+ - OpenTelemetry/Process Metrics - Overview/Top 10 Processes by Memory Usage

```
sumo.datasource=windows   metric=process.memory.utilization deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}}  | max by host.name,
process.executable.name | topk (10, max)
```

Windows 2012+ - OpenTelemetry/Process Metrics - Overview/Processes by Memory Usage > 65%

```
sumo.datasource=windows   metric=process.memory.utilization deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} | sum by host.name,
process.executable.name | filter avg > 65 |  topk(10, avg)
```

Windows 2012+ - OpenTelemetry/Process Metrics - Overview/Processes by CPU Usage > 65%

```
sumo.datasource=windows   metric=process.cpu.utilization deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} | sum by
host.name,process.executable.name,process.pid | eval _value*100  | filter avg > 65 |
topk(10, avg)
```

Windows 2012+ - OpenTelemetry/Process Metrics - Details/Write Bytes

```
sumo.datasource=windows metric=process.disk.io direction=write deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} | avg by host.name,
process.executable.name | outlier
```

Windows 2012+ - OpenTelemetry/Process Metrics - Details/Resident Set Size Memory

```
sumo.datasource=windows   metric=process.memory.usage  deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} | avg by host.name,
process.executable.name  | outlier
```

Windows 2012+ - OpenTelemetry/Process Metrics - Details/Read Bytes

```
sumo.datasource=windows   metric=process.disk.io direction=read deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} | avg by host.name,
process.executable.name | outlier
```

Windows 2012+ - OpenTelemetry/Process Metrics - Details/Process Details - Disk bytes transferred (Read and Write)

```
sumo.datasource=windows metric=process.disk.io direction=read deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} | avg by host.name, process.owner,
process.executable.name
```

Windows 2012+ - OpenTelemetry/Process Metrics - Details/Memory Usage

```
sumo.datasource=windows metric=process.memory.utilization  deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} | sum by host.name,
process.executable.name | outlier
```

Windows 2012+ - OpenTelemetry/Process Metrics - Details/Disk IO Active Operations

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.disk.pending_operations  | sum by
host.name
```

Windows 2012+ - OpenTelemetry/Process Metrics - Details/CPU Usage by Process - User

```
sumo.datasource=windows metric=process.cpu.utilization  deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} state=user | avg by host.name,
process.executable.name | outlier
```

Windows 2012+ - OpenTelemetry/Process Metrics - Details/CPU Usage by Process - System

```
sumo.datasource=windows metric=process.cpu.utilization  deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}}
process.executable.name={{process.executable.name}} state=system   | avg by host.name,
process.executable.name | outlier
```

Windows 2012+ - OpenTelemetry/Host Metrics - TCP/TimeWait Connections

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections state=TIME_WAIT |
avg by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - TCP/Outbound Connections

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections state=SYN_SENT |
avg by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - TCP/Listen Connections

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections state=LISTEN |
avg by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - TCP/Inbound Connections

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections
state=syn_received  | avg by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - TCP/Established Connections

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections state=ESTABLISHED
| avg by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - TCP/CloseWait Connections

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections state=CLOSE_WAIT
| avg by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - TCP/Closed Connections

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections state=closed  |
avg by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Outbound Connections

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections state=SYN_SENT |
sum
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Network Errors

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.errors direction=receive |
quantize using sum | sum
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Network Errors

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.errors direction=receive |
sum by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Memory Utilization

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.memory.utilization state=used  | eval
_value*100 | avg
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Inbound Connections

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.connections
state=SYN_RECEIVED | sum
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Hosts with High CPU Utilization

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}    metric=system.cpu.utilization state=(user OR
system OR wait OR steal OR softirq OR interrupt OR nice) | eval _value*100 | sum by
host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/CPU Utilization

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}  metric=system.cpu.utilization state=(user OR
system OR wait OR steal OR softirq OR interrupt OR nice) | eval _value*100 | sum
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Bytes Sent

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.io direction=transmit | sum |
eval _value/1024/1024
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Bytes Received

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.io direction=receive | sum |
eval _value/1024/1024
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Average Memory Utilization Over Time

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.memory.utilization state=used | sum
by host.name | avg | outlier
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Average CPU Utilization Over Time

```
sumo.datasource=windows     deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}    metric=system.cpu.utilization state=(user OR
system OR wait OR steal OR softirq OR interrupt OR nice) | sum by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Overview/Average CPU Load (1m, 5m, 15m)

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.cpu.load_average.1m | avg by metric
```

Windows 2012+ - OpenTelemetry/Host Metrics - Network/Top 10 Hosts by Packets Dropped

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.dropped direction=receive |
sum by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Network/Top 10 Hosts by Network Errors

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.errors direction=receive |
sum by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Network/Packets Dropped

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.dropped direction=receive |
sum by host.name, device
```

Windows 2012+ - OpenTelemetry/Host Metrics - Network/Outgoing Packet Rate

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.packets direction=transmit |
sum by host.name | rate  | outlier
```

Windows 2012+ - OpenTelemetry/Host Metrics - Network/Outgoing Byte Rate

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.io direction=transmit | sum
by host.name | rate | outlier
```

Windows 2012+ - OpenTelemetry/Host Metrics - Network/Network Errors

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.errors direction=receive |
sum by host.name, device
```

Windows 2012+ - OpenTelemetry/Host Metrics - Network/Incoming Packet Rate

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.packets direction=receive |
sum by host.name | rate  | outlier
```

Windows 2012+ - OpenTelemetry/Host Metrics - Network/Incoming Byte Rate

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.network.io direction=receive | sum by
host.name | rate | outlier
```

Windows 2012+ - OpenTelemetry/Host Metrics - Memory/Total Free Memory

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.memory.usage state=free  | sum by
host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Memory/Memory Utilization Over Time

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.memory.utilization state=used | sum
by host.name | outlier
```

Windows 2012+ - OpenTelemetry/Host Metrics - Memory/Memory Used Percentage

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.memory.utilization state=used | eval
_value*100 | sum by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Memory/Memory Distribution

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} metric=system.memory.usage state=free | sum by
host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/Write by Processes

```
sumo.datasource=windows metric=process.disk.io direction=read deployment.environment=
{{deployment.environment}} host.group={{host.group}} host.name={{host.name}} | avg by
host.name, process.executable.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/Top 10 Devices by File System Usage

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} device={{device}}
metric=system.filesystem.utilization  | eval _value*100 | sum by host.name, mountpoint,
device, type | topk(10, avg) by host.name, mountpoint, device, type
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/File System Utilization Over Time

```
sumo.datasource=windows  deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} device={{device}}
metric=system.filesystem.utilization  | sum by host.name,mountpoint, device, type |
outlier direction=+
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/File System Utilization

```
sumo.datasource=windows deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} device={{device}}
metric=system.filesystem.utilization | eval _value*100 | sum by host.name, device, type,
mountpoint
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/Disk Write Rate

```
sumo.datasource=windows deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} device={{device}} metric=system.disk.operations
direction=write | sum by host.name | rate
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/Disk Write Byte Rate

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} device={{device}} metric=system.disk.io
direction=write | sum by host.name | rate
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/Disk Used

```
sumo.datasource=windows deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} device={{device}} metric=system.filesystem.usage
state=used | sum by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/Disk Read Rate

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} device={{device}} metric=system.disk.operations
direction=read | sum by host.name | rate
```

Windows 2012+ - OpenTelemetry/Host Metrics - Disk/Disk Read Byte Rate

```
sumo.datasource=windows   deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}} device={{device}} metric=system.disk.io
direction=read | sum by host.name | rate
```

Windows 2012+ - OpenTelemetry/Host Metrics - CPU/CPU Utilization Over Time

```
sumo.datasource=windows      deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}  metric=system.cpu.utilization state=(user OR
system OR wait OR steal OR softirq OR interrupt OR nice) | sum by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - CPU/CPU Utilization by Host

```
sumo.datasource=windows    deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}    metric=system.cpu.utilization state=(user OR
system OR wait OR steal OR softirq OR interrupt OR nice) | eval _value*100 | sum by
host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - CPU/CPU User Time

```
sumo.datasource=windows deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}    metric=system.cpu.utilization state=user | avg by
host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - CPU/CPU Time Servicing Interrupts

```
sumo.datasource=windows      deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}    metric=system.cpu.utilization state=interrupt |
avg by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - CPU/CPU Kernel Time

```
sumo.datasource=windows      deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}    metric=system.cpu.utilization state=system | avg
by host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - CPU/CPU Idle Time

```
sumo.datasource=windows      deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}    metric=system.cpu.utilization state=idle | avg by
host.name
```

Windows 2012+ - OpenTelemetry/Host Metrics - CPU/Average CPU Usage by Type

```
sumo.datasource=windows      deployment.environment={{deployment.environment}} host.group=
{{host.group}} host.name={{host.name}}    metric=system.cpu.utilization state=user  | avg
```

VMware/Overview/Top 25 ESXi Host - System Uptime

```
_sourceCategory={{Metricsdatasource}}   metric=sys_uptime type=host hostname={{esx_host}}
| topk(25,avg)
```

VMware/Overview/Top 25 ESXi Host - Network Usage

```
_sourceCategory={{Metricsdatasource}}  metric=net_usage type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/Overview/Top 25 ESXi Host - Memory Capacity

```
_sourceCategory={{Metricsdatasource}}   metric=mem_totalCapacity type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Overview/Top 25 ESXi Host - Memory % Usage

```
_sourceCategory={{Metricsdatasource}}   metric=mem_usage type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/Overview/Top 25 ESXi Host - Disk Usage

```
_sourceCategory={{Metricsdatasource}}   metric=disk_usage type=host hostname={{esx_host}}
| topk(25,avg)
```

VMware/Overview/Top 25 ESXi Host - Datastore Read Rate

```
_sourceCategory={{Metricsdatasource}}   metric=datastore_read type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Overview/Top 25 ESXi Host - CPU Idle Time

```
_sourceCategory={{Metricsdatasource}}   metric=cpu_idle type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/Overview/Top 25 ESXi Host - CPU % Usage

```
_sourceCategory={{Metricsdatasource}}   metric=cpu_usage type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/Network/Top 25 ESXi Host - Network Usage

```
_sourceCategory={{Metricsdatasource}}   metric=net_usage type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/Network/Top 25 ESXi Host - Network Bytes Out Rate

```
_sourceCategory={{Metricsdatasource}}   metric=net_transmitted type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Network/Top 25 ESXi Host - Network Bytes In Rate

```
_sourceCategory={{Metricsdatasource}}   metric=net_received type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Network/Sec) per VM

```
_sourceCategory={{Metricsdatasource}}   metric=net_transmitted type=vm hostname={{vm}} |
topk(25,avg)
```

VMware/Network/Network Usage 1 day comparison by Host

```
_sourceCategory={{Metricsdatasource}}   metric=net_usage type=host hostname={{esx_host}} |
timeshift 1d
```

VMware/Memory/Top 25 VMs - Memory Granted(KB)

```
_sourceCategory={{Metricsdatasource}}   metric=mem_granted type=vm hostname={{vm}} |
topk(25,avg)
```

VMware/Memory/Top 25 VMs - Memory Balloning (in KiB)

```
_sourceCategory={{Metricsdatasource}}  metric=mem_vmmemctl type=vm hostname={{vm}}
```

VMware/Memory/Top 25 VMs - Memory % Usage

```
_sourceCategory={{Metricsdatasource}}   metric=mem_usage type=vm hostname={{esx_host}} |
topk(25,avg)
```

VMware/Memory/Top 25 ESXi Host - Memory Granted

```
_sourceCategory={{Metricsdatasource}}   metric=mem_granted type=host hostname={{esx_host}}
| topk(25,avg)
```

VMware/Memory/Top 25 ESXi Host - Memory Capacity

```
_sourceCategory={{Metricsdatasource}}   metric=mem_totalCapacity type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Memory/Top 25 ESXi Host - Memory Ballooning

```
_sourceCategory={{Metricsdatasource}}   metric=mem_vmmemctl type=host hostname={{esx_host}}
```

VMware/Memory/Top 25 ESXi Host - Memory % Usage

```
_sourceCategory={{Metricsdatasource}}   metric=mem_usage type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/Disk/Top 25 VMs - Disk Total Write Latency(Milliseconds)

```
_sourceCategory={{Metricsdatasource}}   metric=disk_totalWriteLatency type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Disk/Top 25 VMs - Disk Bus Reset

```
_sourceCategory={{Metricsdatasource}}   metric=disk_busResets type=vm hostname={{vm}} |
topk(25,avg)
```

VMware/Disk/Top 25 ESXi Host - Queue Latency

```
_sourceCategory={{Metricsdatasource}}   metric=disk_queueLatency type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Disk/Top 25 ESXi Host - Disk Write Rate

```
_sourceCategory={{Metricsdatasource}}   metric=disk_write type=host hostname={{esx_host}}
| topk(25,avg)
```

VMware/Disk/Top 25 ESXi Host - Disk Usage

```
_sourceCategory={{Metricsdatasource}}   metric=disk_usage type=host hostname={{esx_host}}
| topk(25,avg)
```

VMware/Disk/Top 25 ESXi Host - Disk Total Read Latency

```
_sourceCategory={{Metricsdatasource}}   metric=disk_totalReadLatency type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Disk/Top 25 ESXi Host - Disk Read Rate

```
_sourceCategory={{Metricsdatasource}}   metric=disk_read type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/Disk/Top 25 ESXi Host - Commands Aborted

```
_sourceCategory={{Metricsdatasource}}  metric=disk_commandsAborted type=host hostname=
{{esx_host}} | topk(25,avg)
```
VMware/Disk/Sec)

```
_sourceCategory={{Metricsdatasource}}  metric=disk_usage type=vm hostname={{vm}} |
topk(25,avg)
```

VMware/Datastore/Top 25 ESXi Host - Datastore Write Rate

```
_sourceCategory={{Metricsdatasource}}  metric=datastore_write type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Datastore/Top 25 ESXi Host - Datastore Read Rate

```
_sourceCategory={{Metricsdatasource}}  metric=datastore_read type=host hostname=
{{esx_host}} | topk(25,avg)
```

VMware/Datastore/Sec)

```
_sourceCategory={{Metricsdatasource}}  metric=datastore_write type=vm hostname={{vm}} |
topk(25,avg)
```

VMware/CPU/Tops 25 ESXi Host - CPU Wait Time

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_ready type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/CPU/Top 25 VMs - CPU Readiness

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_readiness type=vm hostname={{vm}} |
topk(25,avg)
```

VMware/CPU/Top 25 VMs - CPU Idle Time(Minutes)

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_idle type=vm hostname={{vm}} | eval
_value/60000 | topk(25,avg)
```

VMware/CPU/Top 25 VMs - CPU Wait Time(Milliseconds)

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_ready type=vm hostname={{vm}} |
topk(25,avg)
```

VMware/CPU/Top 25 VM's - CPU % Usage

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_usage type=vm hostname={{vm}} |
topk(25,avg)
```

VMware/CPU/Top 25 ESXi Hosts - CPU Readiness

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_readiness type=host hostname=
{{esx_host}}  | topk(25,avg)
```

VMware/CPU/Top 25 ESXi Hosts - CPU Idle Time

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_idle type=host hostname={{esx_host}} |
eval _value/60000 | topk(25,avg)
```

VMware/CPU/Top 25 ESXi Hosts - CPU % Usage

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_usage type=host hostname={{esx_host}} |
topk(25,avg)
```

VMware/CPU/25 ESXi Hosts With Least Total CPU capacity available

```
_sourceCategory={{Metricsdatasource}}  metric=cpu_totalCapacity  type=host hostname=
{{esx_host}} | bottomk(25,avg)
```

Varnish/Threads/Threads Destroyed

```
_sourceCategory = Labs/varnish metric=varnish_threads_destroyed cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Threads/Threads Created

```
_sourceCategory = Labs/varnish metric=varnish_threads_created cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Threads/Threads

```
_sourceCategory = Labs/varnish metric=varnish_threads cache_cluster={{cache_cluster}}
host={{host}} | sum by metric
```

Varnish/Threads/Thread Pools

```
_sourceCategory = Labs/varnish metric=varnish_pools cache_cluster={{cache_cluster}} host=
{{host}} | sum by metric
```

Varnish/Threads/Thread Creation Failed

```
_sourceCategory = Labs/varnish metric=varnish_threads_failed cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Threads/Session Queue Length Waiting for Threads

```
_sourceCategory = Labs/varnish metric=varnish_thread_queue_len cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Threads/Max Threads Hit

```
_sourceCategory = Labs/varnish metric=varnish_threads_limited cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Overview/Uptime

```
_sourceCategory = Labs/varnish metric=varnish_uptime section=main cache_cluster=
{{cache_cluster}} | eval _value/(86400)  | topk(1, latest)
```

Varnish/Overview/Threads

```
_sourceCategory = Labs/varnish metric=varnish_threads cache_cluster={{cache_cluster}} |
sum by metric
```

Varnish/Overview/Sessions Accepted by Host

```
_sourceCategory = Labs/varnish metric=varnish_sess_conn section=main cache_cluster=
{{cache_cluster}} | sum by cache_cluster, host
```

Varnish/Overview/Pools

```
_sourceCategory = Labs/varnish metric=varnish_pools cache_cluster={{cache_cluster}} | sum
by metric
```

Varnish/Overview/Persisted Ban Lists Memory Usage (Bytes)

```
_sourceCategory = Labs/varnish metric=varnish_bans_persisted_bytes cache_cluster=
{{cache_cluster}} | sum by cache_cluster, host
```

Varnish/Overview/Loaded VMODs

```
_sourceCategory = Labs/varnish metric=varnish_vmods cache_cluster={{cache_cluster}} | sum
by metric
```

Varnish/Overview/Frontend Requests by Host

```
_sourceCategory = Labs/varnish metric=varnish_client_req cache_cluster={{cache_cluster}} |
sum by cache_cluster,host
```

Varnish/Overview/Frontend Network (MB) by Host

```
_sourceCategory = Labs/varnish metric=varnish_s_resp_hdrbytes cache_cluster=
{{cache_cluster}} | sum by cache_cluster, host
```

Varnish/Overview/Fetch Requests by Host

```
_sourceCategory = Labs/varnish metric=varnish_s_fetch cache_cluster={{cache_cluster}} |
sum by cache_cluster, host
```

Varnish/Overview/Cache Hits (%)

```
_sourceCategory = Labs/varnish metric=varnish_cache_hit cache_cluster={{cache_cluster}}
| sum by cache_cluster, host
```

Varnish/Overview/Cache Hit %

```
_sourceCategory = Labs/varnish metric=varnish_cache_hit cache_cluster={{cache_cluster}}  |
avg
```

Varnish/Overview/Ban Lurker gave way for Lookup

```
_sourceCategory = Labs/varnish metric=varnish_bans_lurker_contention cache_cluster=
{{cache_cluster}} | sum by cache_cluster, host
```

Varnish/Overview/Backends

```
_sourceCategory = Labs/varnish metric=varnish_n_backend cache_cluster={{cache_cluster}} |
sum by metric
```

Varnish/Overview/Backend Requests by Host

```
_sourceCategory = Labs/varnish metric=varnish_backend_req cache_cluster={{cache_cluster}}
| sum by cache_cluster,host
```

Varnish/Overview/Backend Network (MB) by Host

```
_sourceCategory = Labs/varnish metric=varnish_boot_*_*_hdrbytes  cache_cluster=
{{cache_cluster}} | sum by cache_cluster, host
```

Varnish/Overview/Backend Connections by Host

```
_sourceCategory = Labs/varnish metric=varnish_backend_conn cache_cluster={{cache_cluster}}
| sum by cache_cluster, host
```

Varnish/Overview/Available VCLs

```
_sourceCategory = Labs/varnish metric=varnish_n_vcl_avail cache_cluster={{cache_cluster}}
| sum by metric
```

Varnish/Clients/Sessions Queued

```
_sourceCategory = Labs/varnish metric=varnish_sess_queued cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Sessions Dropped Due to Lack of Worker Thread

```
_sourceCategory = Labs/varnish metric=varnish_sess_drop cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Sessions Dropped Due to a Full Queue

```
_sourceCategory = Labs/varnish metric=varnish_sess_dropped cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Sessions Closed with Error

```
_sourceCategory = Labs/varnish metric=varnish_sess_closed_err cache_cluster=
{{cache_cluster}} host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Sessions Closed

```
_sourceCategory = Labs/varnish metric=varnish_sess_closed cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Sessions Accepted

```
_sourceCategory = Labs/varnish metric=varnish_sess_conn cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Sessions Acceptance Failures

```
_sourceCategory = Labs/varnish metric=varnish_sess_fail cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Sessions

```
_sourceCategory = Labs/varnish metric=varnish_s_sess cache_cluster={{cache_cluster}} host=
{{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Requests with a Bad Expect: Header

```
_sourceCategory = Labs/varnish metric=varnish_client_req_417 cache_cluster=
{{cache_cluster}} host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Network Responses (MB)

```
_sourceCategory = Labs/varnish metric=varnish_s_resp_bodybytes cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Clients/Network Requests (MB)

```
_sourceCategory = Labs/varnish metric=varnish_s_req_hdrbytes cache_cluster=
{{cache_cluster}} | sum by cache_cluster, host
```

Varnish/Clients/Malformed Requests

```
_sourceCategory = Labs/varnish metric=varnish_client_req_400 cache_cluster=
{{cache_cluster}} host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Client Requests

```
_sourceCategory = Labs/varnish metric=varnish_client_req cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Bytes Out (Pipe Sessions)

```
_sourceCategory = Labs/varnish metric=varnish_s_pipe_out cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/Bytes In (Pipe Sessions)

```
_sourceCategory = Labs/varnish metric=varnish_s_pipe_in cache_cluster={{cache_cluster}}
host={{host}}  | sum by cache_cluster,host
```

Varnish/Clients/500 Responses

```
_sourceCategory = Labs/varnish metric=varnish_client_resp_500 cache_cluster=
{{cache_cluster}} host={{host}}  | sum by cache_cluster,host
```

Varnish/Cache Performance/Unused Cache (MB)

```
_sourceCategory = Labs/varnish metric=varnish_s0_g_space  cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host | eval _value/1024/1024
```

Varnish/Cache Performance/Requests Served

```
_sourceCategory = Labs/varnish metric=varnish_cache_hit cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Varnish/Cache Performance/Requests Passed to a Backend

```
_sourceCategory = Labs/varnish metric=varnish_cache_hitpass cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Cache Performance/Requests Fetched from a Backend

```
_sourceCategory = Labs/varnish metric=varnish_cache_miss cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Varnish/Cache Performance/Objects Forcefully Evicted

```
_sourceCategory = Labs/varnish metric=varnish_n_lru_nuked cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Varnish/Cache Performance/Misses Over Time

```
_sourceCategory = Labs/varnish metric=varnish_cache_hit cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Varnish/Cache Performance/Expired Objects Because of TTL

```
_sourceCategory = Labs/varnish metric=varnish_n_expired cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Varnish/Cache Performance/Count of Cache Hits with Grace

```
_sourceCategory = Labs/varnish metric=varnish_cache_hit_grace cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Cache Performance/Cache Used (MB)

```
_sourceCategory = Labs/varnish metric=varnish_s0_g_bytes cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host | eval _value/1024/1024
```

Varnish/Cache Performance/Cache Hit Rate Over Time

```
_sourceCategory = Labs/varnish metric=varnish_cache_hit cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host | rate
```

Varnish/Cache Performance/Cache Hit %

```
_sourceCategory = Labs/varnish metric=varnish_cache_hit cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,  host
```

Varnish/Bans and Bans Lurker/Objects Killed by Bans (Lurker)

```
_sourceCategory = Labs/varnish metric=varnish_bans_lurker_obj_killed cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Bans and Bans Lurker/Objects Killed by Bans

```
_sourceCategory = Labs/varnish metric=varnish_bans_obj_killed cache_cluster=
{{cache_cluster}} host={{host}} | sum by metric
```

Varnish/Bans and Bans Lurker/Lurker Gave Way for Lookup

```
_sourceCategory = Labs/varnish metric=varnish_bans_lurker_contention cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Bans and Bans Lurker/Extra Bytes in Persisted Ban Lists Due to Fragmentation (Bytes)

```
_sourceCategory = Labs/varnish metric=varnish_bans_persisted_fragmentation cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Bans and Bans Lurker/Deleted

```
_sourceCategory = Labs/varnish metric=varnish_bans_deleted cache_cluster={{cache_cluster}}
host={{host}} | sum by metric
```

Varnish/Bans and Bans Lurker/Completed

```
_sourceCategory = Labs/varnish metric=varnish_bans_completed cache_cluster=
{{cache_cluster}} host={{host}} | sum by metric
```

Varnish/Bans and Bans Lurker/Bytes Used by the Persisted Ban Lists (Bytes)

```
_sourceCategory = Labs/varnish metric=varnish_bans_persisted_bytes cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Bans and Bans Lurker/Bans Using Obj.*

```
_sourceCategory = Labs/varnish metric=varnish_bans_obj cache_cluster={{cache_cluster}}
host={{host}} | sum by metric
```

Varnish/Bans and Bans Lurker/Bans Tested Against Objects (Lurker)

```
_sourceCategory = Labs/varnish metric=varnish_bans_lurker_tested cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Bans and Bans Lurker/Bans Superseded by Other Bans

```
_sourceCategory = Labs/varnish metric=varnish_bans_dups cache_cluster={{cache_cluster}}
host={{host}} | sum by metric
```

Varnish/Bans and Bans Lurker/Bans

```
_sourceCategory = Labs/varnish metric=varnish_bans cache_cluster={{cache_cluster}} host=
{{host}} | sum by metric
```

Varnish/Bans and Bans Lurker/Ban Tests Tested Against Objects (Lurker)

```
_sourceCategory = Labs/varnish metric=varnish_bans_lurker_tests_tested cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Backend Servers/Unhealthy Servers

```
_sourceCategory = Labs/varnish metric=varnish_backend_unhealthy cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Backend Servers/Successful Connections

```
_sourceCategory = Labs/varnish metric=varnish_backend_conn cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Varnish/Backend Servers/Servers

```
_sourceCategory = Labs/varnish metric=varnish_n_backend cache_cluster={{cache_cluster}}
host={{host}} | sum by metric
```

Varnish/Backend Servers/Requests

```
_sourceCategory = Labs/varnish metric=varnish_backend_req cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Varnish/Backend Servers/Network Responses (MB)

```
_sourceCategory = Labs/varnish metric=varnish_boot_*_beresp_bodybytes cache_cluster=
{{cache_cluster}} host={{host}} | parse field=metric varnish_boot_*_beresp_bodybytes as
backend_name | sum by cache_cluster,host,backend_name
```

Varnish/Backend Servers/Network Requests (MB)

```
_sourceCategory = Labs/varnish metric=varnish_boot_*_bereq_bodybytes cache_cluster=
{{cache_cluster}} host={{host}} | parse field=metric varnish_boot_*_bereq_bodybytes as
backend_name | sum by cache_cluster,host,backend_name
```

Varnish/Backend Servers/Connections Reused

```
_sourceCategory = Labs/varnish metric=varnish_backend_reuse cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Backend Servers/Connections Recycled

```
_sourceCategory = Labs/varnish metric=varnish_backend_recycle  cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Backend Servers/Connections Failed

```
_sourceCategory = Labs/varnish metric=varnish_backend_fail cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Varnish/Backend Servers/Connection Retries

```
_sourceCategory = Labs/varnish metric=varnish_backend_retry cache_cluster=
{{cache_cluster}} host={{host}} | sum by cache_cluster,host
```

Varnish/Backend Servers/Busy Servers over Time

```
_sourceCategory = Labs/varnish metric=varnish_backend_busy cache_cluster={{cache_cluster}}
host={{host}} | sum by cache_cluster,host
```

Tracing - Application Services Health/06. Service Health Across Environments/Requests [per sec] By Environment

```
metric=service_requests _contentType=metricfromtrace service={{service}}
deployment.environment=* application=* | quantize 1m using sum | sum by
deployment.environment | accum | rate | fillmissing empty
```

Tracing - Application Services Health/06. Service Health Across Environments/Requests [per sec]

```
metric=service_requests _contentType=metricfromtrace service={{service}}
deployment.environment=* application=* | quantize 1m using sum | sum | accum | rate |
outlier direction=- window = {{outlier_window}} threshold = {{outlier_threshold}}  |
fillmissing empty
```

Tracing - Application Services Health/06. Service Health Across Environments/Requests

```
metric=service_requests _contentType=metricfromtrace application=* service={{service}}
deployment.environment=* | quantize 1m using sum | sum | accum | rate | fillmissing empty
```

Tracing - Application Services Health/06. Service Health Across Environments/Latency({{latency_type}}) [ms] By Environment

```
metric=service_latency_histogram metric.type=exphist _contentType=metricfromtrace service=
{{service}} deployment.environment=* application=* | quantize 1m using histogram |
{{latency_type}} by deployment.environment | fillmissing empty
```

Tracing - Application Services Health/06. Service Health Across Environments/Latency({{latency_type}}) [ms]

```
metric=service_latency_histogram metric.type=exphist _contentType=metricfromtrace service=
{{service}} deployment.environment=* application=* | quantize 1m using histogram |
{{latency_type}} | outlier direction=+ window = {{outlier_window}} threshold =
{{outlier_threshold}}  | fillmissing empty
```

Tracing - Application Services Health/06. Service Health Across Environments/Latency({{latency_type}})

```
metric=service_latency_histogram metric.type=exphist _contentType=metricfromtrace
application=* service={{service}} deployment.environment=* | quantize 1m using histogram |
{{latency_type}} | fillmissing empty
```

Tracing - Application Services Health/06. Service Health Across Environments/Errors Percentage

```
metric=service_errors _contentType=metricfromtrace application=* service={{service}}
deployment.environment=* | quantize 1m using sum | sum | fillmissing empty | accum | rate
```

Tracing - Application Services Health/06. Service Health Across Environments/Errors [per sec] By Environment

```
metric=service_errors _contentType=metricfromtrace service={{service}} application=*
deployment.environment=* | quantize 1m using sum | sum by deployment.environment |
fillmissing empty | accum | rate
```

Tracing - Application Services Health/06. Service Health Across Environments/Errors [per sec]

```
metric=service_errors _contentType=metricfromtrace service={{service}}
deployment.environment=* application=* | quantize 1m using sum | sum | fillmissing empty |
accum | rate | outlier direction=+ window = {{outlier_window}} threshold =
{{outlier_threshold}}
```

Tracing - Application Services Health/05. Application Service Health Across Environments/Service Details

```
metric=service_operation_errors _contentType=metricfromtrace service={{service}}
operation=* application={{application}} deployment.environment=* | quantize 1m using sum |
sum by deployment.environment | fillmissing empty | accum | rate
```

Tracing - Application Services Health/05. Application Service Health Across Environments/Requests [per sec]

```
metric=service_operation_requests _contentType=metricfromtrace service={{service}}
operation=* application={{application}} deployment.environment=* |  quantize 1m using sum
| sum by deployment.environment | accum | rate | fillmissing empty
```

Tracing - Application Services Health/05. Application Service Health Across Environments/Latency({{latency_type}}) [ms]

```
metric=service_latency_histogram metric.type=exphist _contentType=metricfromtrace service=
{{service}} application={{application}} deployment.environment=* | quantize 1m using
histogram | {{latency_type}} by deployment.environment | fillmissing empty
```

Tracing - Application Services Health/05. Application Service Health Across Environments/Errors [per sec]

```
metric=service_operation_errors _contentType=metricfromtrace service={{service}}
operation=* application={{application}} deployment.environment=* | quantize 1m using sum
| sum by deployment.environment | fillmissing empty | accum | rate
```

Tracing - Application Services Health/05. Application Service Health Across Environments/Avg. Requests [per sec]

```
metric=service_operation_requests _contentType=metricfromtrace service={{service}}
application={{application}} operation=* deployment.environment=* | quantize 5m using sum |
sum by application, service, deployment.environment | accum | rate | fillmissing empty
```

Tracing - Application Services Health/05. Application Service Health Across Environments/Avg. Errors Percentage [per sec]

```
metric=service_operation_errors _contentType=metricfromtrace service={{service}}
application={{application}} operation=* deployment.environment=* | quantize 1m using sum |
sum by application, service, deployment.environment | fillmissing empty | accum | rate
```

Tracing - Application Services Health/05. Application Service Health Across Environments/{{latency_type}} Latency [ms]

```
metric=service_latency_histogram metric.type=exphist _contentType=metricfromtrace service=
{{service}} application={{application}} deployment.environment=* | quantize 5m using
histogram | {{latency_type}} by service, application, deployment.environment | fillmissing
empty
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations/Service Details

```
metric=service_operation_errors _contentType=metricfromtrace service={{service}}
operation=* application=* deployment.environment=* | quantize 1m using sum | sum by
application,operation | fillmissing empty | accum | rate
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations/Requests [per sec]

```
metric=service_operation_requests _contentType=metricfromtrace service={{service}}
operation=* application=* deployment.environment=* |  quantize 1m using sum  | sum by
application,operation | accum | rate | fillmissing empty
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations/Latency [ms]

```
metric=service_operation_latency _contentType=metricfromtrace service={{service}}
operation=* application=* deployment.environment=* | quantize 1m using avg  | avg by
application,operation | fillmissing empty
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations/Errors [per sec]

```
metric=service_operation_errors _contentType=metricfromtrace service={{service}}
operation=* application=* deployment.environment=* | quantize 1m using sum  | sum by
application,operation | fillmissing empty | accum | rate
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations/Avg. Latency [ms]

```
metric=service_operation_latency _contentType=metricfromtrace service={{service}}
application=* deployment.environment=* operation=* | quantize 1m using avg | avg by
application,service, operation | fillmissing empty
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations/Avg. Errors Percentage [per sec]

```
metric=service_operation_errors _contentType=metricfromtrace service={{service}}
application=* deployment.environment=* operation=* | quantize 1m using sum | sum by
application,operation,service | fillmissing empty | accum | rate
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations/Avg. Requests [per sec]

```
metric=service_operation_requests _contentType=metricfromtrace service={{service}}
application=* deployment.environment=* operation=* | quantize 1m using sum | sum by
service,application, operation | accum | rate | fillmissing empty
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations within Environment/Service Details

```
metric=service_operation_errors _contentType=metricfromtrace service={{service}}
operation=* application=* deployment.environment={{deployment.environment}} | quantize 1m
using sum | sum by application,operation | fillmissing empty | accum | rate
```

Tracing - Application Services Health/04. Service Health Across Applications and Operations within Environment/Requests [per sec]

```
metric=service_operation_requests _contentType=metricfromtrace service={{service}}
operation=* application=* deployment.environment={{deployment.environment}} |  quantize 1m
using sum  | sum by application,operation | accum | rate | fillmissing empty
```

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