

# Librenms

## Librenms







```
./validate.php
```










 **librenms**


## LibreNMS



```
@if ($alert-> state == 0)  @endif
@if ($alert-> state == 1)  @endif

 {{ $alert->title }}
: {{ $alert->name }}

: {{ $alert->sysName }}
: {{ $alert->hostname }}
: {{ $alert->os }}
: {{ $alert->severity }}
: {{ $alert->timestamp }}
@if ($alert->state == 0)
: {{ $alert->elapsed }}
@endif
: {{ $alert->uptime_short }}
: {{ $alert->location }}
: {{ $alert->notes }}

@if ($alert->faults)
@foreach ($alert->faults as $key => $value)
: {{ $value['service_desc'] }}
```

```

    []: {{ $value['service_type'] }}
    []: {{ $value['service_message'] }}
    []: {{ $value['service_param'] }}
@endforeach
@Endif

```

□□□□□□ (□□□□□□)

```

SELECT * FROM devices WHERE (devices.device_id = ?) AND (devices.status = 0 && (devices.disabled = 0 &&
devices.ignore = 0)) = 1 AND TIME_TO_SEC(timediff(now(), last_polled)) > 300;

```

□□□□□□ (□□□□□□)

```

SELECT * FROM devices WHERE (devices.device_id = ?) AND devices.uptime < 300 AND (devices.disabled = 0
&& devices.ignore = 0) = 1

```

## Windows □□□□□□□□

```

SELECT * FROM devices,mempools WHERE (devices.device_id = ? AND devices.device_id = mempools.device_id)
AND mempools.mempool_perc > 90 AND devices.os LIKE '%Windows%' AND mempools.mempool_descr REGEXP
"Physical.*"

```

```

@if ($alert-> state == 0) i[]i @endif
@if ($alert-> state == 1) Δ[]Δ @endif

[]{{ $alert->title }}

[]: {{ $alert->sysName }}
[]: {{ $alert->hostname }}
[]: {{ $alert->severity }}
[]: {{ $alert->uptime_short }}
@if ($alert->state == 0)
[]: {{ $alert->elapsed }}
@endif
[]: {{ $alert->timestamp }}
[]: {{ $alert->location }}
[]: {{ $alert->notes }}

[]: {{ $alert->sysName }}
@foreach ($alert->faults as $key => $value)

```

```

[]: {{ $value['mempool_descr'] }}
[]: {{ $value['mempool_perc'] }}%
[]: {{ number_format(round(($value['mempool_total']/2**30),2,PHP_ROUND_HALF_DOWN),2) }} GB
[]: {{ number_format(round(($value['mempool_used']/2**30),2,PHP_ROUND_HALF_DOWN),2) }} GB
[]: {{ number_format(round(($value['mempool_free']/2**30),2,PHP_ROUND_HALF_DOWN),2) }} GB
@endforeach

```

## Windows ██████

```

SELECT * FROM devices,storage WHERE (devices.device_id = ? AND devices.device_id = storage.device_id) AND
storage.storage_perc > 90 AND devices.os LIKE '%Windows%'

```

```

@if ($alert-> state == 0) i[]i @endif
@if ($alert-> state == 1) Δ[]Δ @endif

[]{{ $alert->title }}

[]: {{ $alert->sysName }}
[]: {{ $alert->hostname }}
[]: {{ $alert->severity }}
[]: {{ $alert->uptime_short }}
@if ($alert->state == 0)
[]: {{ $alert->elapsed }}
@endif
[]: {{ $alert->timestamp }}
[]: {{ $alert->location }}
[]: {{ $alert->notes }}

[]: {{ $alert->sysName }}
@foreach ($alert->faults as $key => $value)
[]: {{ $value['storage_descr'] }}
[]: {{ number_format($value['storage_size']/1073741824,2) }} GB
[]: {{ $value['storage_perc'] }}%
[]: {{ number_format($value['storage_used']/1073741824,2) }} GB
[]: {{ number_format($value['storage_free']/1073741824,2) }} GB
@endforeach

```

## VMware ESXI ██████████ 85%

```
SELECT * FROM devices,mempools WHERE (devices.device_id = ? AND devices.device_id = mempools.device_id)
AND mempools.mempool_perc > 85 AND devices.os LIKE '%VMware%' AND mempools.mempool_descr REGEXP
"Real.*"
```

```
@if ($alert-> state == 0) i[]i @endif
@if ($alert-> state == 1) Δ[]Δ @endif

[][]{{ $alert->title }}

[][]: {{ $alert->sysName }}
[][]: {{ $alert->hostname }}
[][]: {{ $alert->severity }}
[][]: {{ $alert->uptime_short }}
@if ($alert->state == 0)
[][]: {{ $alert->elapsed }}
@endif
[][]: {{ $alert->timestamp }}
[][]: {{ $alert->location }}
[]: {{ $alert->notes }}

[][]: {{ $alert->sysName }}
@foreach ($alert->faults as $key => $value)
[]: {{ $value['mempool_descr'] }}
[]: {{ $value['mempool_perc'] }}%
[]: {{ number_format(round(($value['mempool_total']/2**30),2,PHP_ROUND_HALF_DOWN),2) }} GB
[]: {{ number_format(round(($value['mempool_used']/2**30),2,PHP_ROUND_HALF_DOWN),2) }} GB
[]: {{ number_format(round(($value['mempool_free']/2**30),2,PHP_ROUND_HALF_DOWN),2) }} GB
@endforeach
```

## VMware ESXI [][][][]

```
SELECT * FROM devices,storage WHERE (devices.device_id = ? AND devices.device_id = storage.device_id) AND
storage.storage_perc > 90 AND devices.os LIKE '%VMware%'
```

```
@if ($alert-> state == 0) i[]i @endif
@if ($alert-> state == 1) Δ[]Δ @endif

[][]{{ $alert->title }}

[][]: {{ $alert->sysName }}
```

```

#####: {{ $alert->hostname }}
#####: {{ $alert->severity }}
#####: {{ $alert->uptime_short }}
@if ($alert->state == 0)
#####: {{ $alert->elapsed }}
@endif
#####: {{ $alert->timestamp }}
#####: {{ $alert->location }}
[]: {{ $alert->notes }}

#####: {{ $alert->sysName }}
@foreach ($alert->faults as $key => $value)
[]: {{ $value['storage_descr'] }}
[]: {{ number_format($value['storage_size']/1073741824,2) }} GB
[]: {{ $value['storage_perc'] }}%
[]: {{ number_format($value['storage_used']/1073741824,2) }} GB
[]: {{ number_format($value['storage_free']/1073741824,2) }} GB

@endforeach

```

#####

#####Port ID#####→#####→#####→#####Port ID

device/device=1/tab=ports/port=2/ 3.

LibreNMS Overview Devices Maps Ports Health Apps Alerts

1.

2. Overview Graphs Health **Ports** Inventory Logs Alerts Alert Stats Latency Notes

eth0  
Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller

Default  
 ← 14.7 kbps  
 → 36.63 kbps  
 9 pps  
 9 pps  
 1 Gbps fullDuplex  
 Ethernet

Graphs | Real time | ARP Table | Eventlog | Notes

Interface Traffic

□□□

ports.ifInOctets\_rate □□□□ (LibreNMS □□□□8□)

ports.ifOutOctets\_rate □□□□ (LibreNMS □□□□8□)

□□□□ = X \* 1024 \* 1024 / 8

10M = 10 \* 1024 \* 1024 / 8 = 1310720

40M = 40 \* 1024 \* 1024 / 8 = 5242880

□□□□□□ \* 1000 □□ 1024

Rule name

異常流量

Import from ▾

AND OR + Add rule + Add group ✕ Delete

AND OR + Add rule + Add group ✕ Delete

ports.ifInOctets\_rate greater or equal 131072 ✕ Delete

ports.ifOutOctets\_rate greater or equal 131072 ✕ Delete

AND OR + Add rule + Add group ✕ Delete

ports.port\_id equal 2 ✕ Delete

ports.port\_id equal 8 ✕ Delete

AND OR + Add rule + Add group ✕ Delete

macros.port\_up equal  No  Yes ✕ Delete

Severity

Warning ▾

Max alerts

1

Delay

1m

Interval

5m

Mute alerts

OFF

Invert rule match

OFF

Recovery alerts

ON

Acknowledgement alerts

ON

■■■■■■■■

```
■■■■{{ $alert->sysName }}
```

```
■■■{{ $alert->location }}
```

```
■■■{{ $alert->severity }}
```

```
@if ($alert->state == 0) ■■■■{{ $alert->elapsed }} @endif
```

```
■■■{{ $alert->timestamp }}
```

```
@foreach ($alert->faults as $key => $value)
```

```
■■■■{{ $value['ifName'] }}
```

```
■■{{ $value['ifDescr'] }}
```

```
In ■■■{{ $value['ifInOctets_rate']*8/1048576 }} Mbit/s
```

```
Out ■■■{{ $value['ifOutOctets_rate']*8/1048576 }} Mbit/s
```

```
In ■■■{{ round(($value['ifInOctets_rate']*8/1048576),2,PHP_ROUND_HALF_DOWN) }} Mbit/s
```

```
Out {{ round(($value['ifOutOctets_rate']*8/1048576),2,PHP_ROUND_HALF_DOWN) }} Mbit/s
```

```
In {{ $value['ifInOctets_rate'] }}
```

```
Out {{ $value['ifOutOctets_rate'] }}
```

```
@endforeach
```



## WeatherMap

php

```
sudo apt install php-pear
```

WeatherMap

```
cd /opt/librenms/html/plugins
```

```
git clone https://github.com/librenms-plugins/Weathermap.git
```

```
chown -R librenms:librenms Weathermap/
```

```
chmod 775 /opt/librenms/html/plugins/Weathermap/configs
```

:SELinux

```
chcon -R -t httpd_cache_t Weathermap/
```

```
vim /etc/cron.d/librenms
```

```
*/1 * * * * librenms /opt/librenms/html/plugins/Weathermap/map-poller.php >> /dev/null 2>&1
```

## Check\_MK

```
cd /opt/
```

```
git clone https://github.com/librenms/librenms-agent.git
```

```
cd librenms-agent
```

linux	freebsd
<pre>cp check_mk_agent /usr/bin/check_mk_agent</pre>	<pre>cp check_mk_agent_freebsd /usr/bin/check_mk_agent</pre>

```
chmod +x /usr/bin/check_mk_agent
```

xinetd	systemd
<pre>cp check_mk_xinetd /etc/xinetd.d/check_mk</pre>	<pre>cp check_mk@.service check_mk.socket /etc/systemd/system</pre>

```
mkdir -p /usr/lib/check_mk_agent/plugins /usr/lib/check_mk_agent/local
```

```
cp /opt/librenms-agent/agent-local/* /usr/lib/check_mk_agent_local
```

```
chmod +x /usr/lib/check_mk_agent/local/$script
```

xinetd	systemd
<pre>/etc/init.d/xinetd restart</pre>	<pre>systemctl enable check_mk.socket &amp;&amp; systemctl start check_mk.socket</pre>

module unix-agent

[https://yushiryu.com/librenms-/#7\\\_](https://yushiryu.com/librenms-/#7\_)

<https://hanelin.medium.com/librenms-weathermap-d92073d64236>

[Libremns](#)

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Revision #6

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