

Librenms

Librenms

./validate.php

librenms

LibreNMS

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

```

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.*"

```

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

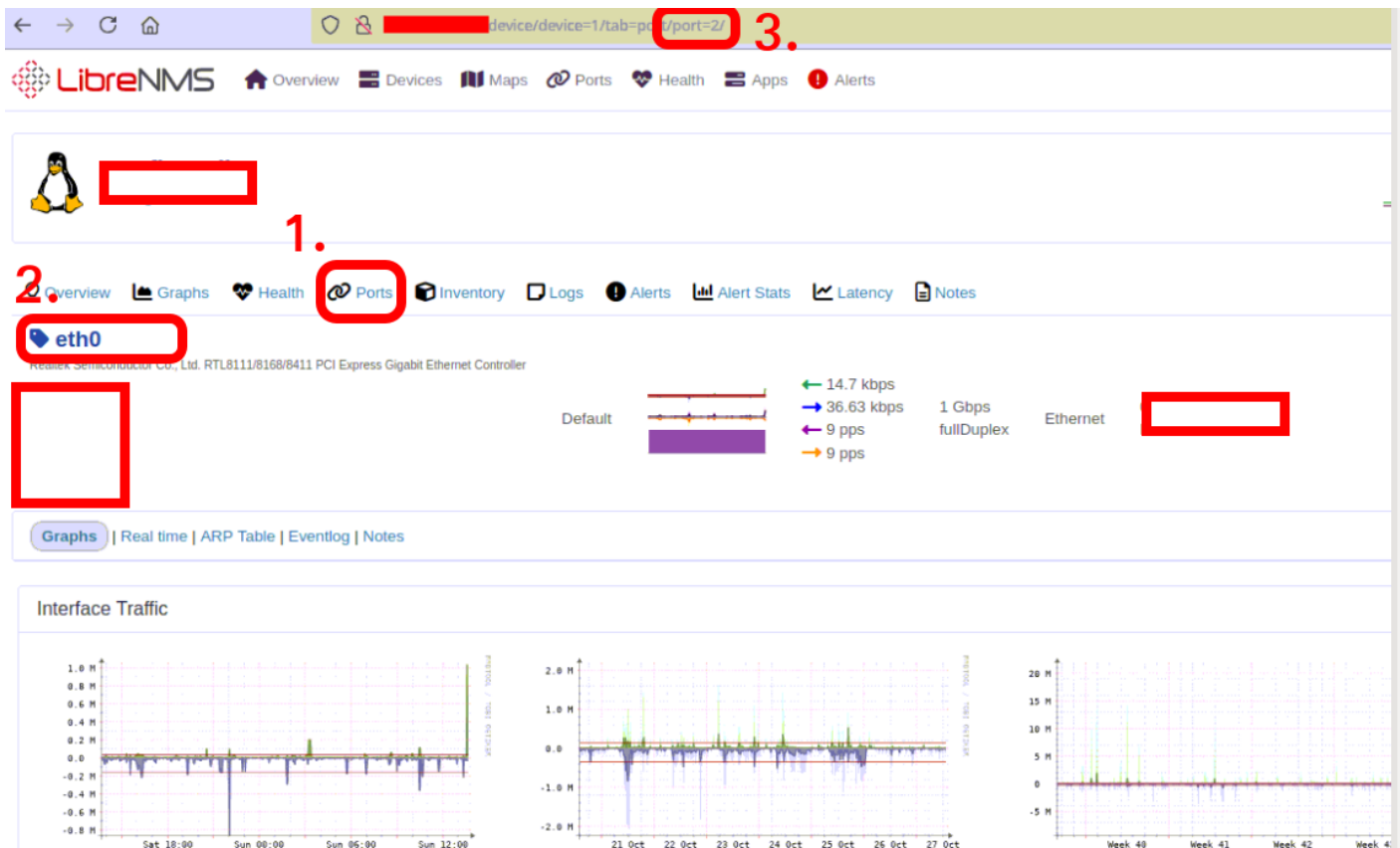

#####: {{ $alert->sysName }}
@foreach ($alert->faults as $key => $value)
##: {{ $value['storage_desc'] }}
##: {{ number_format($value['storage_size']/1073741824,2) }} GB
###: {{ $value['storage_perc'] }}%
##: {{ number_format($value['storage_used']/1073741824,2) }} GB
##: {{ number_format($value['storage_free']/1073741824,2)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

@endforeach

```

#####

#####Port ID#####→#####→#####Port ID



ports.ifInOctets_rate

(LibreNMS 10M)

ports.ifOutOctets_rate (LibreNMS 40M)

$10M = 10 * 1024 * 1024 / 8$

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

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

$1000 * 1024$

Rule name

異常流量

Import from ▾

AND OR

+ Add rule + Add group

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
cp check_mk_agent /usr/bin/check_mk_agent	cp check_mk_agent_freebsd /usr/bin/check_mk_agent

chmod +x /usr/bin/check_mk_agent

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

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
/etc/init.d/xinetd restart	systemctl enable check_mk.socket && systemctl start check_mk.socket

module unix-agent

https://yushiryu.com/librenms-/#7_
<https://hanelin.medium.com/-librenms-weathermap-d92073d64236>
[Libremns](#)