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Code

🌱 yongseokoh

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README

nvme_exporter for Prometheus

 **nvme_exporter** provides useful metrics of NVMe SSDs (e.g., lifetime, device status, and read/write operations that are described in NVME specifications <https://nvmexpress.org/>). The information is obtained from NVMe Admin Commands using the NVMe CLI tool.

nvme_exporter is written based on the python prometheus client (https://github.com/prometheus/client_python) and the NVMe CLI tool (<https://github.com/linux-nvme/nvme-cli>).

Dependencies

- python3.6
- nvme-cli
- python prometheus-client

Installation

```
git clone git@github.com:yongseokoh/nvme_exporter
cd nvme_exporter

# Install prometheus-client
pip install requirements.txt

# Install nvme-cli tool
git submodule init
git submodule update
cd nvme-cli
make
make install
```

Usage

```
usage: nvme_exporter.py [-h] [-p PORT] [-u UPDATE, ...]

NVME Export port number and update period time

optional arguments:
  -h, --help            show this help message
  -p PORT, --port PORT  Port to listen
  -u UPDATE, --update UPDATE
                        export metric update period (seconds)
  -s SIMULATION, --simulation SIMULATION
                        making use of NVMe simulator
```

Example

```
sudo python nvme_exporter.py -p 9900 -u 10
```

Grafana Sample



NVMe Health & Monitoring Metrics

Command: nvme smart-log /dev/nvme0 -o json

Name	type	impl. state
critical_warning	Gauge	implemented
temperature	Gauge	implemented
avail_sapre	Gauge	implemented
spare_thresh	Gauge	implemented
percent_used	Gauge	implemented
data_units_read	Gauge	implemented
data_units_written	Gauge	implemented
host_read_commands	Gauge	implemented
host_write_commands	Gauge	implemented
controller_busy_time	Gauge	implemented
power_cycles	Gauge	implemented
power_on_hours	Gauge	implemented
unsafe_shutdowns	Gauge	implemented
media_errors	Gauge	implemented
num_err_log_entries	Gauge	implemented
warning_temp_time	Gauge	implemented
critical_comp_time	Gauge	implemented
thm_temp1_trans_count	Gauge	implemented
tmp_temp2_trans_count	Gauge	implemented

Command: nvme show-regs /dev/nvme0 -o json

Name	type	impl. state
controller configuration	Gauge	implemented
controller status	Gauge	implemented
other metrics	Gauge	pending

About

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