



自ONTAP 9以来，网络层的ONTAP单个LUN延迟

https://kb-cn.netapp.com/on-prem/ontap/Perf/Perf-KBs/ONTAP_single_LUN_latency_at_network_layer...

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适用场景

ONTAP 9.3及更高版本

问题描述

- 由于ONTAP在QoS统计信息卷延迟显示的网络层存在延迟、因此会出现延迟。
- 从命令输出中观察到的高延迟：[统计信息LUN show](#)

```
cluster::> statistics lun show -lun <lun-path> -interval 5 -iterations cluster: 3/29/2023 03:55:10 *Total
Read Write Other Read Write Latency Lun Vserver Ops Ops Ops Ops (Bps) (Bps) (us) -----
----- /vol/vol1lun1/lun1 svm1 1310 1273 36 0 674478489 1435238
41402
```

- 读取吞吐量较高(可能接近1 GB/秒)

示例：

```
Cluster1::> qos statistics volume latency show -volume vol1lun1 -vserver svm1 Workload ID Latency
Network Cluster Data Disk QoS NVRAM -----
----- -total- - 5.52ms 4.41ms 15.00us 981.00us 113.00us 0ms 0ms vol1lun1 10210 14.
60ms 14.49ms 6.00us 91.00us 12.00us 0ms 0ms -total- - 4.08ms 3.68ms 13.00us 310.00us 71.
00us 0ms 0ms vol1lun1 10210 15.56ms 15.47ms 39.00us 54.00us 1.00us 0ms 0ms -total- - 4.34ms
3.76ms 14.00us 483.00us 85.00us 0ms 0ms vol1lun1 10210 78.37ms 77.86ms 10.00us 430.00us
69.00us 0ms 0ms -total- - 5.08ms 4.44ms 15.00us 514.00us 109.00us 0ms 0ms vol1lun1 10210 86.
62ms 85.86ms 5.00us 580.00us 174.00us 0ms 0ms Cluster1::> qos statistics volume performance
show -volume vol1lun1 -vserver svm1 Workload ID IOPS Throughput Latency -----
- ----- -total- - 240958 2408.45MB/s 366.00us vol1lun1 10210 52416 1055.11MB/s
105.00ms -total- - 248647 2378.91MB/s 401.00us vol1lun1 10210 52516 1106.35MB/s 120.00ms -
total- - 252124 2070.41MB/s 384.00us vol1lun1 10210 49125 995.11MB/s 108.00ms
```