



CXone Mpower EXPERT

在实施集群交换机更换时、IO暂时暂停

https://kb-cn-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/IO_is__suspended_temporarily_when_...

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适用场景

- ONTAP 9
- Cisco Nexus 9336C-FX2

问题描述

- `vdbench` 和 `sysstat` 显示在 [步骤14的集群交换机更换操作步骤](#) 期间，IO暂时挂起。

vdbench

```
[2025-03-07 16:42:27.027] 16:42:27.045 540 1958.00 15.30 8192 20.02 0.471 0.601
0.438 2.925 0.195 0.9 16.0 10.8
[2025-03-07 16:42:41.356]
[2025-03-07 16:42:41.356] 3 07, 2025 interval i/o MB/sec bytes read resp read
write resp resp queue cpu% cpu%
```

```

[2025-03-07 16:42:41.356] rate 1024**2 i/o pct time resp resp max stddev depth
sys+u sys
[2025-03-07 16:42:41.356] 16:42:28.046 541 946.00 7.39 8192 19.77 0.428 0.497
0.411 3.656 0.136 113.4 7.8 4.1
[2025-03-07 16:42:41.356] 16:42:29.046 542 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.1 4.6 3.0
[2025-03-07 16:42:41.356] 16:42:30.046 543 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.0 4.6 2.6
[2025-03-07 16:42:41.357] 16:42:31.046 544 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.0 4.5 3.0
[2025-03-07 16:42:41.357] 16:42:32.049 545 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 255.9 6.0 2.5
[2025-03-07 16:42:41.384] 16:42:33.045 546 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.3 4.1 1.5
[2025-03-07 16:42:41.384] 16:42:34.045 547 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 255.6 6.0 3.0
[2025-03-07 16:42:41.384] 16:42:35.045 548 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.1 4.1 2.6
[2025-03-07 16:42:41.384] 16:42:36.045 549 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 255.9 5.0 2.5
[2025-03-07 16:42:41.384] 16:42:37.045 550 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.1 4.6 1.5
[2025-03-07 16:42:41.384] 16:42:38.045 551 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 255.8 4.6 2.5
[2025-03-07 16:42:41.413] 16:42:39.049 552 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.1 4.6 1.0
[2025-03-07 16:42:41.413] 16:42:40.045 553 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.1 4.6 2.5
[2025-03-07 16:42:41.413] 16:42:41.046 554 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 255.9 4.1 1.5
[2025-03-07 16:42:42.018] 16:42:42.045 555 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.1 3.1 1.5
[2025-03-07 16:42:43.016] 16:42:43.045 556 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 255.9 4.6 2.0
[2025-03-07 16:42:44.024] 16:42:44.045 557 0.00 0.00 0 0.00 0.000 0.000 0.000
0.000 0.000 256.1 4.6 3.1
[2025-03-07 16:42:45.030] 16:42:45.049 558 8624.00 67.38 8192 17.95 517.602
483.260 525.115 17170.839 2900.045 255.6 22.3 10.9

```

sysstat

```

::> system node run -node tststdt601 -command sysstat -u
[2025-03-07 16:42:17.093] CPU    Total    Net    kB/s    Disk    kB/s    Tape    kB/
s Cache Cache  CP      CP_Ty    Disk
[2025-03-07 16:42:17.093]      ops/s    in  out  read  write  read  write
age hit  time [T--H--F--N--B--O--#--:] util
[2025-03-07 16:42:27.592] 18%  1865  9670  5470  10243 193013    0    0
  2  98%  60%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:29.083]  2%    0  4788  365    0    16    0    0    2
 99%  0%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:30.586]  1%    0    28    30    21   3896    0    0    2
100%  1%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:32.094]  4%    0    45    30    0    24    0    0    2
95%  0%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:33.594]  2%    0    37    42    8    0    0    0    2
97%  0%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:35.094]  2%    0    24    22    8    16    0    0    2
98%  0%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:36.594]  6%    0    34    34    8    29    0    0    2
100%  0%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:38.094]  3%    0    3     5  6445  33792    0    0    2
 99% 16%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:39.581]  1%    0    23    24    16    16    0    0    2
98%  0%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:41.082]  4%   134   196    75   464   3797    0    0
 2 100%  2%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:42.595]  2%    12  1029    40    8    16    0    0    2
 96%  0%  0--0--0--0--0--0--0--0  0%
[2025-03-07 16:42:44.083]  1%    24   10    16    0    16    0    0    2
99%  0%  0--0--0--0--0--0--0--0  0%

```

- 在操作步骤期间、IO会通过直接路径