

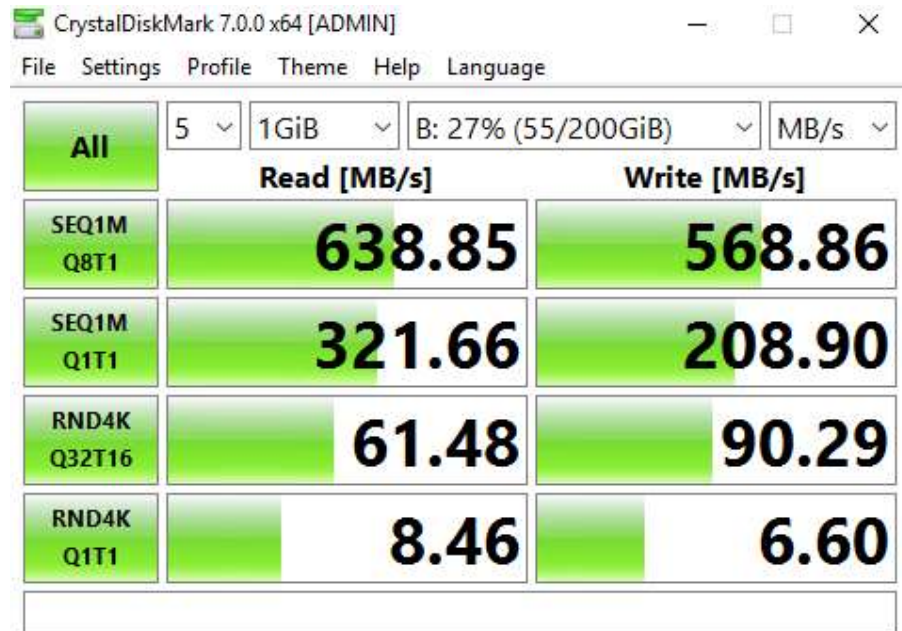
Test 1

Crystal Disk tests

Sync=standard

VM sitting on the FreeNAS host but on a different vlan and portgroup

This is my media box that is on ip 192.168.3.150 and uses network / smb shares from FreeNAS presented on 192.168.63.150 – so has to go through the cisco



Iperf

```
C:\Users\shank\Desktop\iperf-3.1.3-win64\iperf-3.1.3-win64>iperf3.exe -c 192.168.63.150
Connecting to host 192.168.63.150, port 5201
[ 4] local 192.168.3.33 port 55406 connected to 192.168.63.150 port 5201
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-1.00  sec  18.2 MBytes  153 Mbits/sec
[ 4] 1.00-2.00  sec  12.6 MBytes  106 Mbits/sec
[ 4] 2.00-3.00  sec  23.2 MBytes  195 Mbits/sec
[ 4] 3.00-4.00  sec  26.0 MBytes  218 Mbits/sec
[ 4] 4.00-5.00  sec  40.5 MBytes  340 Mbits/sec
[ 4] 5.00-6.00  sec  28.4 MBytes  238 Mbits/sec
[ 4] 6.00-7.00  sec  49.6 MBytes  416 Mbits/sec
[ 4] 7.00-8.00  sec  41.0 MBytes  344 Mbits/sec
[ 4] 8.00-9.00  sec  39.9 MBytes  334 Mbits/sec
[ 4] 9.00-10.00 sec  35.4 MBytes  297 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-10.00  sec  315 MBytes  264 Mbits/sec
[ 4] 0.00-10.00  sec  315 MBytes  264 Mbits/sec
sender
receiver
```

Test 2

VM on FreeNAS host in the same pg / vlan 192.168.63.x, a nvme datastore not on a lun

Crystal Disk

CrystalDiskMark 7.0.0 x64 [ADMIN]

File Settings Profile Theme Help Language

All 5 1GiB C: 21% (13/60GiB) MB/s

| | Read [MB/s] | Write [MB/s] |
|--------------|-------------|--------------|
| SEQ1M Q8T1 | 1213.21 | 1464.26 |
| SEQ1M Q1T1 | 828.21 | 934.76 |
| RND4K Q32T16 | 351.04 | 130.99 |
| RND4K Q1T1 | 26.62 | 39.32 |

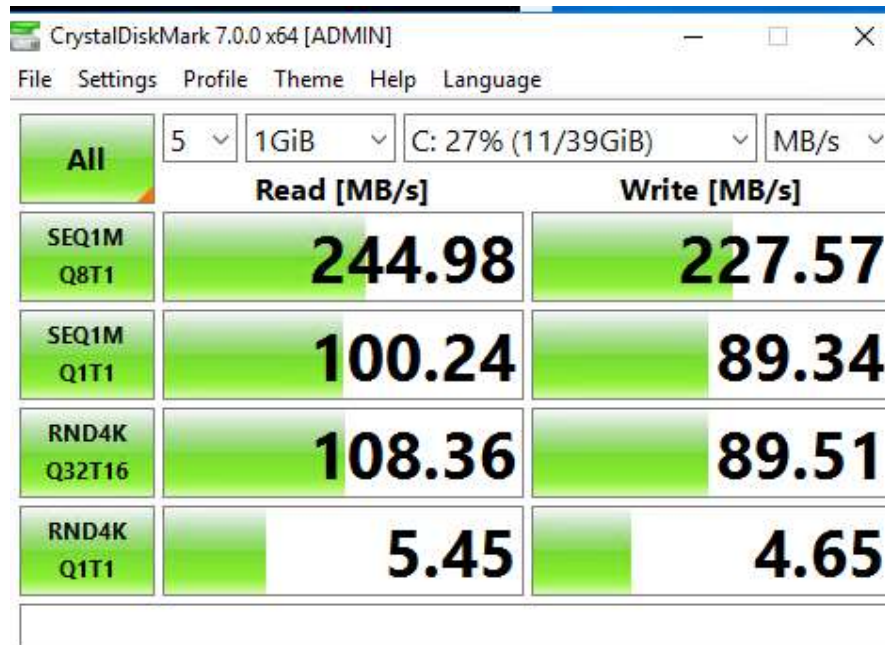
Iperf

```
C:\Users\shank\Desktop\iperf-3.1.3-win32\iperf-3.1.3-win32>iperf3.exe -c 192.168.63.150
Connecting to host 192.168.63.150, port 5201
[ 4] local 192.168.63.101 port 64201 connected to 192.168.63.150 port 5201
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-1.01 sec  105 MBytes  869 Mbits/sec
[ 4] 1.01-2.00 sec  249 MBytes  2.11 Gbits/sec
[ 4] 2.00-3.00 sec  119 MBytes  1.00 Gbits/sec
[ 4] 3.00-4.00 sec  163 MBytes  1.37 Gbits/sec
[ 4] 4.00-5.00 sec  178 MBytes  1.50 Gbits/sec
[ 4] 5.00-6.00 sec  186 MBytes  1.56 Gbits/sec
[ 4] 6.00-7.00 sec  171 MBytes  1.44 Gbits/sec
[ 4] 7.00-8.00 sec  167 MBytes  1.40 Gbits/sec
[ 4] 8.00-9.00 sec  140 MBytes  1.18 Gbits/sec
[ 4] 9.00-10.00 sec 182 MBytes  1.53 Gbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-10.00 sec 1.62 GBytes  1.40 Gbits/sec
[ 4] 0.00-10.00 sec 1.62 GBytes  1.40 Gbits/sec
sender
receiver
```

Test 3

VM on the same 192.168.63.x subnet as the FreeNAS management interface but on the remote host

CrystalDisk



Iperf

```
C:\Users\Administrator\Desktop\iperf-3.1.3-win32\iperf-3.1.3-win32>iperf3.exe -c 192.168.63.150
Connecting to host 192.168.63.150, port 5201
[ 4] local 192.168.63.199 port 49917 connected to 192.168.63.150 port 5201
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-1.00  sec  57.6 MBytes  483 Mbits/sec
[ 4] 1.00-2.00  sec  47.1 MBytes  395 Mbits/sec
[ 4] 2.00-3.00  sec  37.5 MBytes  315 Mbits/sec
[ 4] 3.00-4.00  sec  32.9 MBytes  276 Mbits/sec
[ 4] 4.00-5.00  sec  22.9 MBytes  192 Mbits/sec
[ 4] 5.00-6.00  sec  34.4 MBytes  289 Mbits/sec
[ 4] 6.00-7.00  sec  29.3 MBytes  246 Mbits/sec
[ 4] 7.00-8.00  sec  34.9 MBytes  293 Mbits/sec
[ 4] 8.00-9.00  sec  28.4 MBytes  238 Mbits/sec
[ 4] 9.00-10.00 sec  23.4 MBytes  197 Mbits/sec
- - - - -
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-10.00 sec  349 MBytes  292 Mbits/sec
[ 4] 0.00-10.00 sec  349 MBytes  292 Mbits/sec
sender
receiver
```

Test 4

lperf tests from PfSense on a different subnet to FreeNAS, also testing to another subnet 192.168.3.33

To FreeNAS

```
2.4.4-RELEASE][admin@pfSense.shank.com]/root: iperf3 -c 192.168.63.150
Connecting to host 192.168.63.150, port 5201
  5] local 192.39.1.1 port 65331 connected to 192.168.63.150 port 5201
ID] Interval                Transfer                Bitrate                Retr  Cwnd
  5]  0.00-1.00      sec    107 MBytes    894 Mbits/sec        96    234 KBytes
  5]  1.00-2.00      sec    107 MBytes    901 Mbits/sec       122    149 KBytes
  5]  2.00-3.00      sec   98.5 MBytes    826 Mbits/sec        84    110 KBytes
  5]  3.00-4.00      sec   103 MBytes    868 Mbits/sec       121    230 KBytes
  5]  4.00-5.00      sec   104 MBytes    875 Mbits/sec       716    189 KBytes
  5]  5.00-6.00      sec   103 MBytes    863 Mbits/sec       151    290 KBytes
  5]  6.00-7.00      sec   69.2 MBytes    580 Mbits/sec       138    175 KBytes
  5]  7.00-8.00      sec   39.9 MBytes    335 Mbits/sec        22   99.0 KBytes
  5]  8.00-9.00      sec   37.5 MBytes    314 Mbits/sec        14    105 KBytes
  5]  9.00-10.00     sec   46.4 MBytes    390 Mbits/sec        24    183 KBytes
- - - - -
ID] Interval                Transfer                Bitrate                Retr
  5]  0.00-10.00     sec    816 MBytes    685 Mbits/sec       1488
  5]  0.00-10.00     sec    815 MBytes    684 Mbits/sec
                                sender
                                receiver

iperf Done.
```

To 192.168.3.x subnet

```
2.4.4-RELEASE][admin@pfSense.shank.com]/root: iperf3 -c 192.168.3.33
Connecting to host 192.168.3.33, port 5201
5] local 192.39.1.1 port 21371 connected to 192.168.3.33 port 5201
ID] Interval            Transfer            Bitrate            Retr  Cwnd
5] 0.00-1.00 sec      106 MBytes        890 Mb/s           0    210 K
5] 1.00-2.00 sec      82.4 MBytes       691 Mb/s           0    210 K
5] 2.00-3.00 sec      87.8 MBytes       737 Mb/s           0    210 K
5] 3.00-4.00 sec      60.5 MBytes       508 Mb/s           0    210 K
5] 4.00-5.00 sec      73.5 MBytes       617 Mb/s           0    210 K
5] 5.00-6.00 sec      85.1 MBytes       714 Mb/s           0    210 K
5] 6.00-7.00 sec      103 MBytes        860 Mb/s           0    210 K
5] 7.00-8.00 sec      99.6 MBytes       836 Mb/s           0    210 K
5] 8.00-9.00 sec      111 MBytes        930 Mb/s           0    210 K
5] 9.00-10.00 sec     110 MBytes        925 Mb/s           0    210 K
- - - - -
ID] Interval            Transfer            Bitrate            Retr
5] 0.00-10.00 sec      919 MBytes       771 Mb/s           0
5] 0.00-10.00 sec      919 MBytes       771 Mb/s           0
perf Done.
```