

Sys: opteron x2 1800mhz 4x wd green edition 1tb

Unverschlüsselt : raid5 Stripe Size: 64kB WriteBack, ReadAdaptive, ext3

Verschlüsselt : raid5 Stripe Size: 128kB WriteBack, ReadAdaptive, xfs
aes-xts-plain -s 512 luksFormat

unverschlüsselt 256mb ram

tiotest -f4000 -t1

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 4000 MBs	74.0 s	54.075 MB/s	0.5 %	39.6 %
Random Write 4 MBs	5.4 s	0.726 MB/s	0.1 %	1.6 %
Read 4000 MBs	36.0 s	111.181 MB/s	1.2 %	42.0 %
Random Read 4 MBs	13.1 s	0.297 MB/s	0.0 %	0.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.068 ms	1135.591 ms	0.00000	0.00000
Random Write	3.595 ms	41.438 ms	0.00000	0.00000
Read	0.033 ms	449.222 ms	0.00000	0.00000
Random Read	13.140 ms	750.251 ms	0.00000	0.00000
Total	0.059 ms	1135.591 ms	0.00000	0.00000

unverschlüsselt 512mb ram

tiotest -f4000 -t1

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 4000 MBs	51.8 s	77.216 MB/s	0.5 %	52.8 %
Random Write 4 MBs	3.4 s	1.157 MB/s	0.0 %	1.4 %
Read 4000 MBs	37.3 s	107.357 MB/s	1.1 %	37.6 %
Random Read 4 MBs	9.6 s	0.409 MB/s	0.0 %	0.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.046 ms	797.999 ms	0.00000	0.00000
Random Write	3.029 ms	50.851 ms	0.00000	0.00000
Read	0.034 ms	1520.447 ms	0.00000	0.00000
Random Read	9.553 ms	81.330 ms	0.00000	0.00000
Total	0.046 ms	1520.447 ms	0.00000	0.00000

unverschlüsselt 256mb ram

tiotest -f1000 -t4

Tiotest results for 4 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 4000 MBs	81.4 s	49.142 MB/s	2.2 %	188.1 %
Random Write 16 MBs	26.5 s	0.589 MB/s	-0.1 %	2.5 %
Read 4000 MBs	56.3 s	71.034 MB/s	2.9 %	95.2 %
Random Read 16 MBs	14.3 s	1.095 MB/s	-0.7 %	7.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.295 ms	2755.961 ms	0.00029	0.00000
Random Write	1.798 ms	54.521 ms	0.00000	0.00000
Read	0.216 ms	2159.548 ms	0.00020	0.00000
Random Read	13.817 ms	99.567 ms	0.00000	0.00000

Total	0.285 ms	2755.961 ms	0.00024	0.00000
-------	----------	-------------	---------	---------

unverschlüsselt 512mb ram

tiotest -f1000 -t4

Tiotest results for 4 concurrent io threads:

Item		Time	Rate	Usr CPU	Sys CPU
Write	4000 MBs	51.9 s	77.132 MB/s	2.8 %	258.0 %
Random Write	16 MBs	21.8 s	0.717 MB/s	-0.0 %	3.0 %
Read	4000 MBs	61.3 s	65.254 MB/s	1.9 %	72.8 %
Random Read	16 MBs	13.3 s	1.172 MB/s	0.2 %	6.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.187 ms	1335.912 ms	0.00000	0.00000
Random Write	1.000 ms	250.625 ms	0.00000	0.00000
Read	0.234 ms	5067.697 ms	0.00039	0.00000
Random Read	12.647 ms	136.822 ms	0.00000	0.00000
Total	0.236 ms	5067.697 ms	0.00019	0.00000

verschlüsselt 256mb ram

tiotest -f4000 -t1

Tiotest results for 1 concurrent io threads:

Item		Time	Rate	Usr CPU	Sys CPU
Write	4000 MBs	56.9 s	70.254 MB/s	0.6 %	25.7 %
Random Write	4 MBs	1.8 s	2.171 MB/s	-1.6 %	-4.7 %
Read	4000 MBs	73.0 s	54.778 MB/s	0.4 %	13.7 %
Random Read	4 MBs	12.2 s	0.320 MB/s	0.0 %	0.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.051 ms	2427.286 ms	0.00049	0.00000
Random Write	0.008 ms	0.035 ms	0.00000	0.00000
Read	0.069 ms	897.222 ms	0.00000	0.00000
Random Read	12.198 ms	245.881 ms	0.00000	0.00000
Total	0.066 ms	2427.286 ms	0.00024	0.00000

verschlüsselt 512mb ram

tiotest -f4000 -t1

Item		Time	Rate	Usr CPU	Sys CPU
Write	4000 MBs	57.5 s	69.520 MB/s	0.6 %	24.1 %
Random Write	4 MBs	6.5 s	0.604 MB/s	0.0 %	0.6 %
Read	4000 MBs	82.1 s	48.748 MB/s	0.3 %	13.5 %
Random Read	4 MBs	13.9 s	0.281 MB/s	0.0 %	0.1 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.052 ms	2323.788 ms	0.00068	0.00000
Random Write	0.008 ms	0.037 ms	0.00000	0.00000
Read	0.078 ms	380.761 ms	0.00000	0.00000
Random Read	13.916 ms	153.338 ms	0.00000	0.00000
Total	0.072 ms	2323.788 ms	0.00034	0.00000

verschlüsselt 256mb ram

tiotest -f1000 -t4

Tiotest results for 4 concurrent io threads:

Item		Time	Rate	Usr CPU	Sys CPU
Write	4000 MBs	57.6 s	69.452 MB/s	1.9 %	101.1 %
Random Write	16 MBs	19.9 s	0.783 MB/s	-0.4 %	2.8 %
Read	4000 MBs	116.3 s	34.380 MB/s	1.1 %	34.5 %
Random Read	16 MBs	19.3 s	0.811 MB/s	-0.0 %	3.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.204 ms	4401.325 ms	0.00322	0.00000
Random Write	0.054 ms	66.398 ms	0.00000	0.00000
Read	0.451 ms	884.768 ms	0.00000	0.00000
Random Read	19.030 ms	230.081 ms	0.00000	0.00000
Total	0.363 ms	4401.325 ms	0.00161	0.00000

verschlüsselt 512mb ram

tiotest -f1000 -t4

Tiotest results for 4 concurrent io threads:

Item		Time	Rate	Usr CPU	Sys CPU
Write	4000 MBs	57.7 s	69.328 MB/s	2.1 %	101.7 %
Random Write	16 MBs	16.5 s	0.946 MB/s	-0.1 %	2.8 %
Read	4000 MBs	122.2 s	32.739 MB/s	0.9 %	34.8 %
Random Read	16 MBs	17.3 s	0.903 MB/s	-0.1 %	2.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.209 ms	4779.098 ms	0.00244	0.00000
Random Write	0.031 ms	22.842 ms	0.00000	0.00000
Read	0.472 ms	1707.020 ms	0.00000	0.00000
Random Read	16.808 ms	98.627 ms	0.00000	0.00000
Total	0.372 ms	4779.098 ms	0.00122	0.00000