

- **zfs resilver delay:** /\* number of ticks to delay resilver \*/ Es un parámetro del kernel que usa zfs para evitar degradar el rendimiento. Indica los segundos que zfs espera después de cualquier zfs user io, antes de poner en cola las operaciones de io resilver.
- **zfs\_resilver\_min\_time\_ms** /\* min millisecs to resilver per txg \*/
- **zfs\_top\_maxinflight = 32;** /\* maximum I/Os per top-level \*/ maximum number of scrub I/O per top-level vdev
- **zfs\_scrub\_delay** /\* number of ticks to delay scrub \*/ how many clock ticks to delay scrub operation if triggered by zfs\_scan\_idle
- **zfs\_scan\_idle** /\* idle window in clock ticks \*/ if user I/O occurs within this many clock ticks, delay scrub I/O by zfs\_scrub\_delay clock ticks

Para leerlo:

```

root@seal:/# echo "zfs_scrub_delay/D" | sudo mdb -k
zfs_scrub_delay:
zfs_scrub_delay:4
root@seal:/# echo "zfs_scan_idle/D" | sudo mdb -k
zfs_scan_idle:
zfs_scan_idle: 50

root@seal:/# echo "zfs_resilver_delay/D" | sudo mdb -k
zfs_resilver_delay:
zfs_resilver_delay:          0
root@seal:/# echo zfs_resilver_min_time_ms/D | mdb -k
zfs_resilver_min_time_ms:
zfs_resilver_min_time_ms:    3000
root@seal:/# echo zfs_top_maxinflight/D | mdb -k
zfs_top_maxinflight:
zfs_top_maxinflight:        32

```

Para cambiarlo:

```

echo zfs_resilver_delay/w0 | mdb -kw

echo zfs_resilver_delay/w1 | mdb -kw

echo zfs_resilver_delay/w2 | mdb -kW

echo zfs_resilver_min_time_ms/w1388 |mdb -kW
root@seal:/export/home/admin# echo zfs_resilver_min_time_ms/D | mdb -k
zfs_resilver_min_time_ms:
zfs_resilver_min_time_ms:    5000

echo zfs_top_maxinflight/w7f |mdb -kW
root@seal:/export/home/admin# echo zfs_top_maxinflight/D | mdb -k
zfs_top_maxinflight:
zfs_top_maxinflight:        127

```

En el caso de c3t11d0 va muy lento 534Mb/s en 9 horas hace 5%

[?http://www.solarisinternals.com/wiki/index.php/ZFS\\_Evil\\_Tuning\\_Guide](http://www.solarisinternals.com/wiki/index.php/ZFS_Evil_Tuning_Guide)

[?http://itservices.eng.cam.ac.uk/blogs/2015/05/zfs-resilver-tuning/](http://itservices.eng.cam.ac.uk/blogs/2015/05/zfs-resilver-tuning/)

[?http://broken.net/uncategorized/zfs-performance-tuning-for-scrubs-and-resilvers/](http://broken.net/uncategorized/zfs-performance-tuning-for-scrubs-and-resilvers/)

[?https://utcc.utoronto.ca/~cks/space/blog/solaris/ZFSScrubSpeedNotes](https://utcc.utoronto.ca/~cks/space/blog/solaris/ZFSScrubSpeedNotes)