

Wikiprint Book

Title: Equipos/Seal/ZfsResilver

Subject: TracMeteo - Equipos/Seal/ZfsResilver

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- **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 ver todos los parámetros relacionados con ZFS:

```
echo "::zfs_params" | mdb -k
```

Para cambiarlo:

```

echo zfs_resilver_delay/w0 | mdb -kw

echo zfs_resilver_delay/w1 | mdb -kw

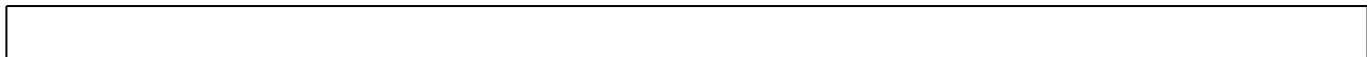
echo zfs_resilver_delay/w2 | mdb -kW

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

root@seal:/export/home/admin# echo "zfs_scrub_delay/W2" | sudo mdb -kw
zfs_scrub_delay:0x4          =          0x2
root@seal:/export/home/admin# echo "zfs_scrub_delay/D" | sudo mdb -k
zfs_scrub_delay:
zfs_scrub_delay:2

```



En el caso de c3t11d0 va muy lento 534Mb/s en 24 horas hace 15%, despues del tuning 311T scanned out of 317T at 1.36G/s, 1h8m to go 1.68T resilvered, tardo 65horas en hacer el resilver de 1.70T.

[?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)