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PROFESSIONAL SERVICES TECH NOTE #051

aggr show_space

The Concept

Managing disk space at the volume level is easy. Determining how much disk space has been used and how much is available in an aggregate is not as easy. The show_space option to the **aggr** command is the best method for determining allocation of space in aggregates.

Examples

```
fas1> df -Ah aggr_vm
Aggregate          total      used      avail capacity
aggr_vm           454GB      31GB    422GB      7%
aggr_vm/.snapshot 23GB      2547MB   21GB      10%
```

```
fas1> aggr show_space -h aggr_vm
Aggregate 'aggr_vm'

Total space   WAFL reserve   Snap reserve   Usable space   BSR   NVLOG   A-SIS
531GB         53GB           23GB           454GB          0KB   0KB      79MB
```

Space allocated to volumes in the aggregate

Volume	Allocated	Used	Guarantee
esx_swap	3103MB	391MB	none
vm_align	16GB	16GB	none
plnewDataStore	6190MB	6073MB	none
misc	5817MB	248MB	none

Aggregate	Allocated	Used	Avail
Total space	31GB	22GB	422GB
Snap reserve	23GB	2547MB	21GB
WAFL reserve	53GB	5851MB	47GB

What It Means To You

aggr show_space is good for accounting for how disk space is used. When using thin provisioning, use this command to determine when an aggregate is over-committed and needs to grow. The numbers reported may be higher than what **df** reports because **df** does not include space consumed by metadata and WAFL reserve.

More Information

Refer to the Data ONTAP System Management Guide:

http://now.netapp.com/NOW/knowledge/docs/ontap/rel727_vs/html/ontap/smg/provisioning/task/t_oc_prov_aggr-displaying-space.html

Read the following Knowledge Base article on over-committed aggregates:

<https://now.netapp.com/Knowledgebase/solutionarea.asp?id=kb45452>

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