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PROFESSIONAL SERVICES TECH NOTE #049

cifs top command

The Concept

Using quotas will determine which users are consuming the most disk space. What quotas will not show you is which users are consuming the most system resources. The **cifs top** command lists the CIFS clients generating the heaviest load on the system. Like most monitoring features in Data ONTAP, there is a performance penalty for tracking CIFS client activity.

Examples

```
fas1> options cifs.per_client_stats.enable on
```

This option must be enabled and given time to collect statistics. Turning it off discards all collected statistics.

```
fas1> cifs top -n 3 -s w - list 3 highest users and sort by write activity
```

ops/s	reads(n, KB/s)	writes(n, KB/s)	suspect/s	IP	Name
263	29 215	137 627	0	10.56.10.120	ENGR\varun
248	27 190	126 619	1	10.56.10.120	ENGR\jill
246	26 195	125 616	19	10.56.12.118	MKTG\bob

What It Means To You

Use **cifs top** to find heavy users of the system and consider moving their data to less active aggregates. If you use FlexShare, the **cifs top** command can determine users most affected by altering priority on their volumes. The most interesting use of **cifs top** is to sort the output by 'suspicious' activity. Suspicious activity counters are common indicators of a system infected with malware or a disgruntled user. For more detailed information on suspicious users and hosts (by IP) use the **-u** and **-h** arguments to the **cifs stat** command. To maximize the use of **cifs top** add the **-v** argument to output raw data for manipulation by a script.

Note: If your system is licensed for MultiStore you must run **cifs top** for each vfiler instance, including vfiler0

More Information

Try the **System Analyzer for CIFS** application for Windows to graphically diagnose CIFS issues and workload:
http://now.netapp.com/NOW/download/tools/ntapsa_cifs/

Refer to Command Reference for Data ONTAP for command syntax:

http://now.netapp.com/NOW/knowledge/docs/ontap/rel727/html/ontap/cmdref/man1/na_cifs_top.1.htm

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