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PROFESSIONAL SERVICES TECH NOTE #050

nfsstat command

The Concept

Tech Note 049 explained how to use the **cifs top** command to collect CIFS user and client statistics. The **nfsstat** command can perform a similar function for the NFS protocol. Normally, **nfsstat** displays overall statistics for NFS and RPC traffic and is useful for spotting retransmit errors and tuning the NFS access cache. When paired with the **nfs.per_client_stats.enable** option, you can view usage by client. (NFS connections are to a host system and not a specific user so per-user statistics are not available.)

Examples

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

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

```
fas1> nfsstat -h [ip | hostname] -show statistics for a specific client  
fas1> nfsstat -l
```

Show statistics for up to 256 clients, sorted by decreasing NFS activity. Also useful for simply determining which NFS clients are connected to a system.

Note: You must specify the vFiler instance on systems running MultiStore.

What It Means To You

The Premium AutoSupport tool on the NOW site can display protocol usage trends. You can also use Operations Manager to display **nfsstat** statistics collected through a SNMP trap. Use the **nfsstat** and **cifs top** commands to drill down to individual clients to determine which are responsible for the majority of traffic. Analyze this information to plan an end-to-end approach to solving NFS performance issues.

Note: When using **nfsstat** while in a cluster failover situation, statistics for the live and failed system are combined. After a giveback, the failed system's statistics are not subtracted so zeroing statistics for both systems may be recommended.

More Information

The following Knowledge Base articles provide additional information and examples:

<https://now.netapp.com/Knowledgebase/solutionarea.asp?id=3.0.2319922.2757218>

<https://now.netapp.com/Knowledgebase/solutionarea.asp?id=ntapcs2684>

Data ONTAP Manual page for the **nfsstat** command:

http://now.netapp.com/NOW/knowledge/docs/ontap/rel732_vs/html/ontap/cmdref/man1/na_nfsstat.1.htm

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