statistics-v1 protocol-request-size commands

ONTAP commands

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statistics-v1 protocol-request-size commands

statistics-v1 protocol-request-size show

Display size statistics for CIFS and NFS protocol read and write requests

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

This command displays size statistics for CIFS and NFS protocol read and write requests. The output of the command includes the following information:

- Node name
- Statistic type
- Average size of request
- Total request count
- Current number of requests in each category of request size
- Number of requests after the command was last executed

Parameters

{ [-fields <fieldname>,…]

If you specify the `-fields <fieldname>, …` parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify.

| [-instance] }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

[-node {<nodename>|local}] - Node

If this parameter is specified, the command displays statistics only for the specified node.

[-stat-type <Protocol Type>] - RW Request Stat Type

If this parameter is specified, the command displays only the statistics of the specified protocol type. Protocol types include the following: cifs_read, cifs_write, nfs2_read, nfs2_write, nfs3_read, and nfs3_write.

[-total-req-count <Counter64 with Delta>] - Total Request Count

If this parameter is specified, the command displays only statistics with the specified total number of requests.

[-average-size <Counter64 with Delta>] - Average Request Size

If this parameter is specified, the command displays only statistics with the specified average request size.

[-histo08 <Counter64 with Delta>] - 0 - 511

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo09 <Counter64 with Delta>] - 512 - 1023

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo10 <Counter64 with Delta>] - 1024 - 2047

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo11 <Counter64 with Delta>] - 2048 - 4096

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo12 <Counter64 with Delta>] - 4096 - 8191

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo13 <Counter64 with Delta>] - 8192 - 16K

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo14 <Counter64 with Delta>] - 16K - 32K

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo15 <Counter64 with Delta>] - 32K - 64K

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo16 <Counter64 with Delta>] - 64K - 128K

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

[-histo17 <Counter64 with Delta>] - Greater than 128K

If this parameter is specified, the command displays only statistics with the specified number of requests in this size range.

Examples

The following example displays the number of NFS v3 requests in each size range for only one node in the cluster.

```
cluster1::> statistics protocol-request-size show -stat-type nfs3_* -node
node0

Node:                     node0
Stat Type:                nfs3_read
                          Value       Delta
--------------            --------    ----------
Average Size:                    6            -
Total Request Count:
                         465947409            -
0-511:                      567023            -
512-1023:                     4306            -
1K-2047:                       175            -
2K-4095:                    160404            -
4K-8191:                    537576            -
8K-16383:                  1742701            -
16K-32767:                 1418620            -
32K-65535:
                         461516604            -
64K-131071:                      0            -
128K - :                         0            -

Node:                     node0
Stat Type:                nfs3_write
                          Value       Delta
--------------            --------    ----------
Average Size:                    0            -
Total Request Count:
                         199294247            -
0-511:                       36556            -
512-1023:                     3683            -
1K-2047:                       745            -
2K-4095:                      1413            -
4K-8191:                     28643            -
8K-16383:
                         199223207            -
16K-32767:                       0            -
32K-65535:                       0            -
64K-131071:                      0            -
128K - :                         0            -
```

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