由于卷的可用空间不足、写入预留了空间的LUN失败

适用场景

- AFF系统
- ONTAP 9

问题描述

- iSCSI卷与SQL集群节点意外断开连接。
- 半厚卷配置中预留了空间的LUN：
    - 卷保证=卷
    - 预留百分比= 0

- 已禁用存储效率
- 无快照
- 自动调整设置：Mode=off

- "user-data"超过LUN大小、由于卷已满、它们偶尔会出现写入失败。

  示例：

```
[Node01: wafl_spcd_main: monitor.volume.full:debug]: Volume
Vol1@vserver:XXXXX is full (using or reserving 98% of space and 0% of
inodes).
[Node01: wafl_exempt00: wafl.vol.full:alert]: Insufficient space on
volume Vol@vserver:XXXXX to perform operation. 64.0KB was requested but
only 1.00KB was available.
[Node01: wafl_exempt00:wafl.write.fail.spcres:error]: Write failed to file
with space reservations due to lack of disk space in volume
Vol1@vserver:XXXXX(guarantee volume, inode 96, offset 22128820224, len
65536)

::> df -h -vserver vs01 -volume Vol1
Filesystem            total   used    avail   capacity  Mounted on Vserver
/vol/Vol1/            315GB   315GB   0B      100%       /Vol1  vs01
/vol/Vol1/.snapshot 0B       0B      0B      0%         /Vol1/.snapshot  vs01
2 entries were displayed.

::> vol show-space Vol1 -fields performance-metadata,user-data,filesystem-
metadata,inodes,total-used,physical-used,logical-used;

vserver volume  user-data filesystem-metadata inodes performance-metadata
total-used physical-used logical-used

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vs01    Vol1    305.4GB   138.4MB             24KB
  9.45GB               315.0GB   288.4GB       315GB

::> lun show -vserver vs01 -path /vol/Vol1/Lun1 -instance
        Vserver Name: vs01
          LUN Path: /vol/Vol1/lun1
        Volume Name: Vol1
         Qtree Name: ""
          LUN Name: lun1
          LUN Size: 300GB
```

```
               OS Type: linux
     Space Reservation: enabled
Space Reservations Honored: false
      Space Allocation: enabled
                 State: online
Space Reservations Honored: false
      Space Allocation: enabled
                 State: online
                Mapped: mapped
Physical Size of Logical Block: 512B
             Read Only: false
Fenced Due to Restore: false
             Used Size: 282.33GB
   Maximum Resize Size: 128TB
```