



FlexCache卷已满、NFS客户端请求挂起

https://kb-cn.netapp.com/on-prem/ontap/da/NAS/NAS-KBs/Flexcache_volume_become_full_and_NFS...

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适用场景

- ONTAP 9.5及更高版本
- FlexCache
- NFS

问题描述

- FlexCache卷已满99%、并导致客户端请求挂起。
- NFS客户端上的"ls"和"cd"等操作已挂起。
- 初始卷未滿、并在EMS日志中注意到以下错误：

```
Wed Mar 29 11:27:54 -0700 [nodeA: wafl_exempt10: wafl.vol.full:alert]:
Insufficient space on volume vol__0001@vserver:a385f57a-
afbd-11ed-91c0-00a098ba0334 to perform operation. 432KB was requested but only
384KB was available.
Wed Mar 29 11:27:55 -0700 [nodeA: wafl_spcd_main: monitor.volume.full:debug]:
Volume vol__0001@vserver:a385f57a-afbd-11ed-91c0-00a098ba0334 is full (using or
reserving 99% of space and 7% of inodes).
Wed Mar 29 11:27:56 -0700 [nodeA: FgGroupListTimer:
fg.space.member.full:alert]: Constituent 1099 in FlexGroup vol (fg-uuid
b5a85457-b48e-11ed-948e-00a098dec0b4) is out of space.
Wed Mar 29 11:37:54 -0700 [nodeA: wafl_exempt13: wafl.vol.full:alert]:
Insufficient space on volume vol__0001@vserver:a385f57a-
afbd-11ed-91c0-00a098ba0334 to perform operation. 424KB was requested but only
380KB was available.
```

- NFS操作失败：

```
Wed Mar 29 11:28:12 -0700 [nodeA: kernel: Nblade.dBladeNoResponse.NFS:error]:
File operation timed out because there was no response from the data-serving
node. Node UUID: 858edac4-7bd1-11ed-a6ec-00a098dec0b4, file operation protocol:
NFS, client IP address: 10.1.2.3, RPC procedure: 17.
```

- 在问题描述时间Sktrace显示如下：

```
2023-03-29T18:27:55Z 14646667110509780 [13:0] WAFLREMOTE_EXCEPTION: store
cache 1089.4389 of origin 2156655294.1853 snapid 0: debt enospc (error 292)
2023-03-29T18:27:55Z 14646667110610864 [13:0] WAFLREMOTE_EXCEPTION: store
cache 1089.4389 of origin 2156655294.1850 snapid 0: debt enospc (error 292)
```

- 理想情况下、FlexCache卷应运行擦除作业、并在卷已满90%时[清除数据](#)。但在这种情况下、卷已达到99%。