



90 天分级无法按预期运行

https://kb-cn-stage.netapp.com/on-prem/ontap/Ontap_OS/OS-KBs/90_day_tiering_not_working_as_ex...

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适用于

- ONTAP 9
- FabricPool

问题

- 卷未将冷数据分层到云层。
- 分级策略设置为自动，最小冷却天数设置为 90。
- 聚合已达到默认分层满度阈值（默认情况下为 50%）和容量阈值。
- 从 "`volume show-footprint`" 我们确实看到一些数据是分层的。

```
vol show-footprint
```

```
Volume : volumel
```

Feature	Used	Used%
Volume Data Footprint	9.33TB	56%
Footprint in Performance Tier	5.53TB	59%
Footprint in Cloud Tier	3.90TB	

42%<=====		
Flexible Volume Metadata	55.4GB	0%
Deduplication Metadata	18.1GB	0%
Deduplication	15.9GB	0%
Cross Volume Deduplication	2.20GB	0%
Delayed Frees	109GB	1%
File Operation Metadata	4.00KB	0%
Total	9.51TB	57%
Footprint Data Reduction	159GB	1%
Data Compaction	159GB	1%
Footprint Data Reduction in capacity tier	40.0GB	0%
Effective Total Footprint	9.32TB	56%

- EMS 日志表明正在进行分层：

```
[Node-01: scan_ca_tiering_wkr: wafl.scan.start:debug]: Starting composite
aggregate tiering on volume volumel@vserver:xxxx.
```

```
[Node-01: wafl_scan_exempt: wafl.scan.done:notice]: Completed composite
aggregate tiering on volume volumel@vserver:xxxx.
```

- 命令 "object-store tiering show -instance" 确认定期进行分层，没有报告错误。

```
::*> volume object-store tiering show -volume voll -instance
      Vserver: SVM1
      Volume: voll
      Node Name: voll
      Volume DSID: 1073744185
      Aggregate Name: aggr2
      State: waiting
      Previous Run Status: completed
      Aborted Exception Status: -
      Time Scanner Last Finished: Tue Jun 21 17:33:56 2022
      Scanner Percent Complete: -
      Scanner Current VBN: -
      Scanner Max VBNS: -
```

Time Waiting Scan will be scheduled: Wed Jun 22 17:33:55 2022 <<★

```
Tiering Policy: auto
Estimated Space Needed for Promotion: -
Time Scan Started: -
Cloud Retrieval Policy: default
Elapsed Time Scanner Ran: 16181s
Time of Last Space Related Error: -
Scheduling class of scanner: -
```

- 手动触发分层对分层数据量没有影响。

```
::> set advanced
```

```
::*> volume object-store tiering trigger -vserver <svm> -volume <volume>
```