

问题描述

RMC 6.3.10  
StoreOnce 4.3.6  
Data mover: StoreOnce

RMC可以成功把20TB的VV数据备份到StoreOnce,但是在恢复时,始终是失败状态.

2024-02-20 21:05:20 - Performing full restore.  
2024-02-20 21:05:20 - Securing execution slot and acquiring RMC/StoreOnce data sessions.  
2024-02-20 21:05:21 - Resources acquired, volume copy preparation done.  
2024-02-20 21:05:45 - Submitted volume copy job to data mover with object count 8 stream count 8  
2024-02-20 21:05:45 - Datapath validated data transfer request.  
2024-02-21 09:07:21 - Datapath cancelled data transfer successfully.  
2024-02-21 09:07:21 - Cancelling Restore operation Completed.

过程分析

从RMC日志中可以看到,最后是RMC cancel datapath并cancelling restore operation,并不是IO错误或者存储设备故障导致的.

20TB VV和500GB VV的测试结果是一样的,说明这个问题跟VV容量无关,与特定的VV无关.

检查RMC日志:

2024-02-28T12:12:24 //开始从StoreOnce读取数据并写入3PAR 新VV  
2024-02-28T12:41:00 //大约30分钟后完成数据传输(completedPercentage : 100),但是RMC并没有结束session

2024-02-28T15:27:38 //大约3小时后,RMC仍然使该任务处于Running状态.

StoreOnce日志记录30分钟内就完成了数据传输,并没有发生传输失败的情况.

| StoreId | ObjectId | ObjectKey                            | CreatedTime         | DataLastModTime     | Taglist      | Data(GB) |
|---------|----------|--------------------------------------|---------------------|---------------------|--------------|----------|
| 1       | 24       | 689ab0e9-95e3-4356-acb3-4            | 28/02/2024 03:00:37 | 28/02/2024 03:00:37 | tag Complete | 0.000    |
|         |          | 0.007MB RMC_rmc631(10.10.100.126)    |                     |                     |              |          |
| 1       | 23       | 689ab0e9-95e3-4356-acb3-4            | 28/02/2024 02:26:55 | 28/02/2024 02:26:55 | Complete     | 0.000    |
|         |          | 0.000MB RMC_rmc631(127.0.0.1)        |                     |                     |              |          |
| 1       | 22       | 689ab0e9-95e3-4356-acb3-4            | 28/02/2024 02:26:55 | 28/02/2024 03:00:11 | Complete     | 2        |
|         |          | 50.000 0.000MB RMC_rmc631(127.0.0.1) |                     |                     |              |          |
| 1       | 21       | 689ab0e9-95e3-4356-acb3-4            | 28/02/2024 02:26:55 | 28/02/2024 03:00:11 | Complete     | 2        |
|         |          | 50.000 0.000MB RMC_rmc631(127.0.0.1) |                     |                     |              |          |

解决方法

最后发现,恢复数据的目标VV的容量大于原始VV,当创建500GB新VV用于恢复500GB的原始VV时,是可以成功的.

所以尽管在恢复数据时,允许创建容量大于原始VV的目标新VV,但是会导致数据恢复不成功,最终以超时而取消任务.

当以Physical Clone方式恢复数据时,要求目标新VV的容量等于原始VV,不能大于更不能小于原始VV.