

知 Nimble空间回收 (mount参数带discard及不带)

其它功能 喻颜康 2023-11-24 发表

组网及说明

Nimble空间回收实验 (mount参数discard的不同影响)

配置步骤

1. 加discard的空间回收

目标卷mpath:

```
[root@cpzctraininghost ~]#  
[root@cpzctraininghost ~]# ls -l /dev/mapper/  
total 0  
crw-----. 1 root root 10, 236 Nov 6 11:42 control  
lrwxrwxrwx. 1 root root 7 Nov 9 18:55 mpathg -> ../dm-5  
lrwxrwxrwx. 1 root root 7 Nov 9 18:55 mpathh -> ../dm-3  
lrwxrwxrwx. 1 root root 7 Nov 9 18:55 mpathi -> ../dm-4  
lrwxrwxrwx. 1 root root 7 Nov 9 18:55 mpathj -> ../dm-7  
lrwxrwxrwx. 1 root root 7 Nov 6 11:42 rhel-home -> ../dm-2  
lrwxrwxrwx. 1 root root 7 Nov 6 11:42 rhel-root -> ../dm-0  
lrwxrwxrwx. 1 root root 7 Nov 6 11:42 rhel-swap -> ../dm-1
```

建立文件系统:

```
[root@cpzctraininghost dev]# mkfs.ext4 /dev/mapper/mpathg  
mke2fs 1.42.9 (28-Dec-2013)  
Discarding device blocks: done  
Filesystem label=  
OS type: Linux  
Block size=4096 (log=2)  
Fragment size=4096 (log=2)  
Stride=0 blocks, Stripe width=0 blocks  
6553600 inodes, 26214400 blocks  
1310720 blocks (5.00%) reserved for the super user  
First data block=0  
Maximum filesystem blocks=2174746624  
800 block groups  
32768 blocks per group, 32768 fragments per group  
8192 inodes per group  
Superblock backups stored on blocks:  
32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,  
4096000, 7962624, 11239424, 20480000, 23887872  
  
Allocating group tables: done  
Writing inode tables: done  
Creating journal (32768 blocks): done  
Writing superblocks and filesystem accounting information: done
```

挂载卷 (带discard参数):

```
[root@cpzctraininghost ~]#  
[root@cpzctraininghost ~]# mount -o discard /dev/mapper/mpathg /mnt/testytk/
```

目前卷可用容量为94G

```
[root@cpzctraininghost ~]# df -h  
Filesystem      Size  Used Avail Use% Mounted on  
devtmpfs        87G   0    87G   0% /dev  
tmpfs           87G   0    87G   0% /dev/shm  
tmpfs           87G  786M  86G   1% /run  
tmpfs           87G   0    87G   0% /sys/fs/cgroup  
/dev/mapper/rhel-root 50G  3.0G  48G   6% /  
/dev/sda2       1014M  150M  865M  15% /boot  
/dev/sda1       200M   9.9M  190M   5% /boot/efi  
/dev/mapper/rhel-home 1.8T   34M  1.8T   1% /home  
tmpfs           18G   0    18G   0% /run/user/0  
/dev/mapper/mpathg 99G   61M   94G   1% /mnt/testytk
```

NAME	APPLICATION	VOLUME USAGE	SIZE	IOPS	TOTAL MB/s	LATENCY (ms)
linac-testytk-kjhs	Online	133.2 MB/s	100 GiB	0	0.1	0.1
POOL-AF3001	Other					0.1

写入1.2g左右数据:

```
[root@cpzctraininghost ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        87G   0    87G   0% /dev
tmpfs           87G   0    87G   0% /dev/shm
tmpfs           87G  794M   86G   1% /run
tmpfs           87G   0    87G   0% /sys/fs/cgroup
```