



UIS主机/var/log分区异常占满问题处理案例

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组网及说明

UIS (版本E0715)

问题描述

现网UIS主机/var/log分区提示占用100%告警，但去底层主机系统查看，实际分区只使用了9.5G的空间（总计22G，见下图）

```
[root@MZUIS2_THEMIS]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        378G   0  378G   0% /dev
tmpfs           378G 564K  378G   1% /dev/shm
tmpfs           378G 4.1G  374G   2% /run
tmpfs           378G   0  378G   0% /sys/fs/cgroup
/dev/sda2       104G   38G   61G  39% /
/dev/sda1       512M   9.8M  502M   2% /boot/efi
/dev/sda4        22G   22G   0 100% /var/log
/dev/sda6       371G  124G  228G  36% /vms
/dev/sdh        880G  321G  515G  39% /vms/uiscloud
tmpfs           76G   0   76G   0% /run/user/0
/dev/sdb1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-1
/dev/sdd1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-6
/dev/sdf1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-13
/dev/sdj1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-23
/dev/sde1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-10
/dev/sdc1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-4
/dev/sdm1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-20
/dev/sdk1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-26
/dev/scl1       94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-15
/dev/dm-4        40T   23T   18T  58% /vms/MSCHZ_HDD_L1
/dev/drbd0       22G   4.3G   17G  21% /var/lib/mysql-share
/dev/mapper/3600000000000000e000007179b0dc 1008G  77M  957G   1% /cunchumoban
/dev/dm-8        3.0T   18G   3.0T   1% /vms/VM_BACKUP
/dev/dm-5        8.0T   1.3T   6.8T  17% /vms/MSCHZ_SSD_L1
[root@MZUIS2_THEMIS]# du -sh /var/log
9.5G /var/log
[root@MZUIS2_THEMIS]#
```

过程分析

现场在前期清理/var/log日志时，直接使用的rm命令，但实际底层一些日志是在被使用的，被占用的时候是删不掉的。

(注：推荐使用echo命令)

解决方法

步骤一：lsof查看进程开打的文件（过滤delete）

```
[root@MUI51 ~]# lsof | grep delete
rsyncd-ser 1197      root      7u      REG      0,2      159      5767188 /tmp/tmpfjDvQw (deleted)
python     6043      root      3u      REG      0,4      92       69 /var/log/ocfs2_fence_shel1_202111.log (deleted)
python     6043      6694     root      3u      REG      0,4      92       69 /var/log/ocfs2_fence_shel1_202111.log (deleted)
httpd      22965     root      14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22967     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22967     22984     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22967     22986     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22967     22988     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22968     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22968     22989     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22969     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22969     22992     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22969     22994     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22969     22995     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22970     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22970     22996     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22970     22997     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22970     22998     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22971     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22971     22999     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22971     22999     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22971     22999     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
httpd      22972     www-data 14w     REG      0,2      0       661169 /opt/h3c/Logs/wsgi_22965_0.1.lock (deleted)
```

步骤二：结束对应的进程释放/var/log空间

找到占用最多的进程号（一般会涉及重复的几百几千条），然后kill掉

```
httpd      2446104 2446107 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2446104 2446108 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
log        2446104 2480278 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2446104 2480980 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2446104 2480981 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2446104 2481357 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2446104 2481358 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2502547 2502547 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2502547 2502551 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2502547 2502552 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2502547 2502553 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
log        2502547 2525487 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2502547 2526518 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2502547 2526519 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2502547 2526752 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2502547 2526753 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2528800 2528800 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2528800 2528800 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
log        2528800 2528889 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2528800 2528910 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
log        2528800 2529344 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2528800 2529399 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2528800 2529400 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2528800 2529609 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2528800 2529609 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2573277 2573277 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2573277 2573285 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2573277 2573286 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2573277 2573287 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
log        2573277 2606680 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2573277 2607935 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
httpd      2573277 2607936 www-data 14w     REG      0,2      0       2753985 /opt/h3c/Logs/wsgi_23448_0.1.lock (deleted)
```

如：kill -9 xxxxxx（对应进程号）

步骤三：df -h查看分区实际利用率情况

```
[root@MUI52 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        378G  0  378G   0% /dev
tmpfs           378G  564K  378G   1% /dev/shm
tmpfs           378G  4.0G  374G   2% /run
tmpfs           378G  0  378G   0% /sys/fs/cgroup
/dev/sda2       104G  38G  61G  39% /
/dev/sda1       512M  9.8M  502M   2% /boot/efi
/dev/sda4        22G  14G  7.7G  64% /var/log
/dev/sda6       371G  124G  248G  36% /vms
/dev/sdh        880G  321G  515G  39% /vms/uiscCloud
/dev/sdj1       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-23
/dev/sdl1       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-26
/dev/sdl1       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-15
/dev/sdl1       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-20
/dev/sdl1       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-1
/dev/sdl9       22G  4.3G  17G  22% /var/lib/mysql-share
/dev/sdl9       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-6
/dev/sdl1       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-10
/dev/sdl1       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-13
/dev/sdl1       94M  5.5M  89M   6% /var/lib/ceph/osd/ceph-4
tmpfs           76G  0  76G   0% /run/user/0
/dev/dm-7       3.0T  25G  3.0T   1% /vms/VH_BACKUP
/dev/dm-5       0.0T  1.3T  6.8T  17% /vms/NSCHZ_SSD_L1
/dev/dm-8       40T  23T  18T  58% /vms/NSCHZ_HDD_L1
/dev/mapper/36000000000000000e0000007179b0dc 1086G  77M  957G   1% /cunchumoban
```

注：已恢复正常

