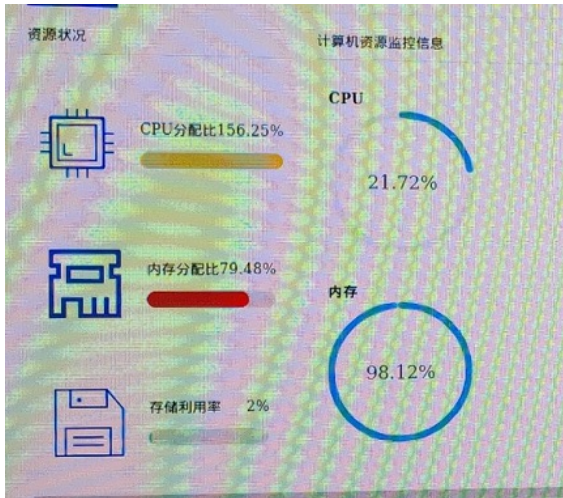


## Workspace主机内存使用率高

李颜 2023-02-09 发表

### 问题描述

Workspace平台，存在主机内存占用高，导致虚拟机无法启动。如下图所示，主机内存使用达到98%：



## 过程分析

1、执行free -g查看主机内存使用情况，与前台显示相符：

```
[root@cvknode7 ~]# free -g
              total        used          free      shared  buff/cache   available
Mem:           251          238            6           4           5           4
Swap:           0            0            0           0           0           0
```

2、执行top，按M排序后查看内存占用情况，现场主机上运行9台内存8G windows虚拟机，加上其余进程内存计算也不会占用如此多内存。

```
Top - 14:28:56 up 56 days, 15:44, 1 user, load average: 20.10, 19.83, 19.75
Tasks: 1141 total, 3 running, 630 sleeping, 0 stopped, 5 zombie
%Cpu(s): 13.4 us, 10.9 sy, 0.0 ni, 75.3 id, 0.1 wa, 0.0 hi, 0.2 si, 0.0 st
KiB Mem : 98.1/26384321+
KiB Swap: 0.0/0

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
 2082031 root      20   0   11.0g  8.7g  54224 S   20.7   3.4   3101:39 kvm
 3953710 root      20   0   11.1g  8.6g  54268 S   67.9   3.4   374:18.47 kvm
 1312082 root      20   0   10.9g  8.5g  54092 S   60.0   3.4   5554:21 kvm
 154576 root      20   0   10.9g  8.5g  54028 S   20.0   3.4   488:44.89 kvm
 3444239 root      20   0   10.9g  8.4g  50188 S   48.5   3.3   16172:13 kvm
 3932872 root      20   0   11.0g  8.4g  54392 S   221.6   3.3   235:58.65 kvm
 3907897 root      20   0   10.9g  8.3g  54100 S   17.0   3.3   174:58.66 kvm
 37243 root      20   0   11.0g  8.3g  53896 S   15.7   3.3   101:31.18 kvm
 824656 root      20   0   33.5g  3.8g  17436 S   1.0   1.5   616:50.16 java
 7973 root      20   0   15.7g  3.4g  17248 S   0.3   1.3   559:41.62 java
 2719093 ceph      20   0   3089848 1.7g  30708 S   21.6   0.7   1271:22 ceph-osd
 3137 vdielk    20   0   17.3g  1.7g  22140 S   1.0   0.7   494:43.12 java
 2719100 ceph      20   0   3077564 1.7g  30716 S   19.0   0.7   17760:21 ceph-osd
 2719098 ceph      20   0   2979264 1.7g  31096 S   18.7   0.7   11087:46 ceph-osd
 2719098 ceph      20   0   2950588 1.6g  30924 S   18.0   0.7   11742:07 ceph-osd
 2800702 root      20   0   3503192 1.6g  19376 S   8.2   0.7   5087:31 ttrd
 6177 root      20   0   11.2g  1.5g  17632 S   0.7   0.6   130:00.42 java
 3131 root      39  19   16.1g  1.4g  20880 S   5.9   0.6   4260:40 java
 7644 root      20   0   12.3g  1.3g  17224 S   0.7   0.5   123:07.58 java
 7974 root      20   0   9236340 1.0g  18532 S   0.0   0.4   99:41.91 java
 8083 root      20   0   10.6g  965728 20200 S   0.0   0.4   99:41.91 java
 2585676 root      20   0   9399492 827140 19864 S   0.3   0.3   105:53.81 java
 8311 root      20   0   7616700 753120 16972 S   0.7   0.3   356:12.46 java
 4313 root      20   0   16.9g  603588 20504 S   0.0   0.2   120:11.03 java
 3178491 root      20   0   4867720 598420 22352 S   9.5   0.2   5933:00 ovs-vswitchd
 7151 mysql     20   0   10.0g  418984 30400 S   33.1   0.2   20708:40 onestor-leader
 3178420 root      20   0   3764656 274648 14456 S   0.0   0.1   183:26.45 mysqld
 3178420 root      20   0   2929020 254128 27080 S   0.0   0.1   262:22.67 onestor-worker
 3178478 root      20   0   6971680 244576 28084 S   9.5   0.1   1343:51 onestor-peer
 6199 rabbitmq  20   0   6980580 210924 5172 S   17.7   0.1   12623:29 beam.smp
 2741937 postgres  20   0   582768 207688 206856 S   0.0   0.1   4:33.08 postgres
 3178443 root      20   0   4286004 200336 23024 S   0.7   0.1   432:19.92 onestor-task
 2717822 ceph      20   0   720352 196040 22320 S   8.5   0.1   5728:38 ceph-mon
 3178403 root      20   0   2669744 193860 22892 S   93.1   0.1   49354:07 monitoring-repo
 1129 root      20   0   290944 189760 189180 S   3.0   0.1   2436:43 systemd-journal
 3178458 root      20   0   1128708 187060 23040 S   0.3   0.1   204:48.42 onestor-sub
 3178449 root      20   0   2663572 183196 22560 S   1.0   0.1   921:49.22 onestor-csc
 2825014 root      20   0   1549432 181496 5900 S   0.0   0.1   719:32.48 python
 3178471 root      20   0   1925912 180012 22880 S   14.8   0.1   5831:23 alarm-leader
 3178397 root      20   0   1402980 169924 22876 S   0.0   0.1   236:11.81 onestor-tier
 3178434 root      20   0   1180344 167492 27136 S   0.0   0.1   0:11.61 emp-leader
 2830200 root      20   0   1048852 167464 4920 S   0.0   0.1   175:22.94 python
 3887688 root      20   0   1472784 166484 18544 S   0.0   0.1   4:03.75 onestor-tnm
 2802901 root      20   0   894140 166112 22588 S   0.0   0.1   82:12.79 python
 2826761 root      20   0   910692 165144 4840 S   2.3   0.1   1031:24 python
 3178464 root      20   0   894452 165128 22108 S   0.0   0.1   0:18.42 onestor-websock
 2875517 root      20   0   2697992 164972 22284 S   5.6   0.1   5809:44 themis
```

3、查看主机是否配置内存大页，虚拟化找到该主机，查看高级设置-启动项配置中的大页配置，发现启用了大页，会占用125G内存：



## 解决方法

可禁用大页配置，重启生效。

