



CloudOS PaaS工作节点 /var/lib/docker分区占满处理

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组网及说明

CloudOS 5.0

问题描述

现场PaaS部分应用及微服务引擎状态异常，微服务引擎状态为Running 0/1

```
[root@czt-cloudos03 ~]# oc get pod -n springcloudyrkgy9es
NAME                                READY    STATUS    RESTARTS   AGE
springcloud-config-546b6fddd5-cw9c9 0/1      Running   1           3m
springcloud-discover-587d47b8bf-ntdx7 0/1      Running   1           2m
springcloud-gateway-5f5bf97658-g2zk2 1/1      Running   0           90d
[root@czt-cloudos03 ~]#
```

进一步查看容器描述及日志有如下提示，warn提示disk空间不足

[illegible]

```
non-zero return code
dev-mapper/certificates >>
overlay      169G 161G 0 100% /var/lib/docker/overlay2/850b7bc683e67ef4d0df6ebc5ab2bf1f1d9097ce4abb3dfda14acdbbde20/m
overlay      169G 161G 0 100% /var/lib/docker/overlay2/f6810980c5f643be933971317f6b6e84cd4e45ad2afdaae316bd8a22/m
overlay      169G 161G 0 100% /var/lib/docker/overlay2/f1881174234fca43eeb9227cced3d3cdd7c6ba8ec0eb1fe7ade79d05/m
overlay      169G 161G 0 100% /var/lib/docker/overlay2/64464663b34d131e9254041474a2ced329eadc1eb02a330cf675ca/m
overlay      169G 161G 0 100% /var/lib/docker/overlay2/c640640e7f53874ca3a221fab816f5d32a5638ac87fd02cf6d021099bdc2/m
overlay      169G 161G 0 100% /var/lib/docker/overlay2/64464663b34d131e9254041474a2ced329eadc1eb02a330cf675ca/m
overlay      169G 161G 0 100% /var/lib/docker/overlay2/64464663b34d131e9254041474a2ced329eadc1eb02a330cf675ca/m
overlay      169G 161G 0 100% /var/lib/docker/overlay2/64464663b34d131e9254041474a2ced329eadc1eb02a330cf675ca/m
overlay      169G 161G 0 100% /var/lib/docker/overlay2/518a39094ace9607eebf497ab4a484cfc8d4d9281f7ac4483626532fa3caf761/m
```

```

# 中间件RabbitMQ资源池
over lay 189G 189G 0 100% /var/lib/docker/overlay2/3a3815a8a6e9d3db7f8e088e37c619c9e115ef68498392a0d0
over lay 189G 189G 0 100% /var/lib/docker/overlay2/2381b6cd7d38d55ef8ced8dd03d7d3b19c341521a2c2a4d0
over lay 189G 189G 0 100% /var/lib/docker/overlay2/36cd15899196b9d3763169f8a580ca6e201d245f1bba270
over lay 189G 189G 0 100% /var/lib/docker/overlay2/335299d94747f43dadb0a7f7379c9d58f90ec184280
over lay 189G 189G 0 100% /var/lib/docker/overlay2/6c2fe08ee86617dc5c84d903af50d87e1a1d9f44d440
over lay 189G 189G 0 100% /var/lib/docker/overlay2/1d608b6e9891818559461c581be97c7894285d0c724d047037
over lay 189G 189G 0 100% /var/lib/docker/overlay2/72a3e1f0cfb3007c03a86ebf6d03c5d1a0ace1e23d8be0
over lay 189G 189G 0 100% /var/lib/docker/overlay2/91a1fb1bd0536ad071e664482d5cbadafab08a2e5a60
over lay 189G 189G 0 100% /var/lib/docker/overlay2/3f84d43685014f9b2837537373ad0ba38c61f7b5d7bd21b0
over lay 189G 189G 0 100% /var/lib/docker/overlay2/4320af1e44351d2dd99817332d00e866268344fd174b
over lay 189G 189G 0 100% /var/lib/docker/overlay2/2bbd1184c8e07f6d9105230076fd
over lay 189G 189G 0 100% /var/lib/docker/overlay2/1b623108ec05b8cf41c5658999d9610a130c996ded0
over lay 189G 189G 0 100% /var/lib/docker/overlay2/209119e8134976b4d0c5d75417839c638a20635ad96b9f8e
over lay 189G 189G 0 100% /var/lib/docker/overlay2/abc326dc1e79648135c4d64237f4e5d077a17625937f9
over lay 189G 189G 0 100% /var/lib/docker/overlay2/858cbb2db601318108a726cd7f43c1306c7f1e7424
over lay 189G 189G 0 100% /var/lib/docker/overlay2/fed9c8a9f4d23e8186c60259f87d72d2c53e74451815874
over lay 189G 189G 0 100% /var/lib/docker/overlay2/87134067c31918247d92cbbfd0a487833c7c8d48419430
over lay 189G 189G 0 100% /var/lib/docker/overlay2/969ab0b9a8e0c3153322355
over lay 189G 189G 0 100% /var/lib/docker/overlay2/44d7e545f1e139e1b900f0547e2327d4fab843d03
over lay 189G 189G 0 100% /var/lib/docker/overlay2/022853127fd026047f4ab0c85895b3d33e356e9898533
over lay 189G 189G 0 100% /var/lib/docker/overlay2/2b4594ac67f5cb50909149dd7a867ccadeef37c7e4d50cc9a

```

解决方法

现场使用镜像较多导致分区占满，采用如下命令清理/var/lib/docker分区

```
docker images | grep jdk | awk '{printf "%s:%s\n", $1, $2}' | xargs docker rmi
```

若执行该命令后报错 no space left on device，为当前空间严重不足无法执行删除操作，需要与业务侧沟通，停掉或迁走其中的部分容器后再执行清理docker操作

```
cloudos05 containers]# docker rmi os-harbor-svc.default.svc.cloudos:443/user/ebc7bb0cc1c54b8291e0521749bd0f08/g1-data-server-  
%s from daemon: write /var/lib/docker/image/overlay2/.tmp-repositories.json:60731433: no space left on device  
cloudos05 containers]# cd /var/lib/docker/image/overlay2/  
cloudos05 overlay2]# ls -la
```

停掉几个容器，再删除了一些镜像后/var/lib/docker分区占用率降低之后可以恢复

