

知 CloudOS5.0主机异常断电后镜像丢失导致部分pod异常

孙亚华 2021-07-15 发表

组网及说明

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问题描述

某局点机房故障，但是CloudOS的节点异常断电，来电启动后部分pod无法正常拉起，状态如下

```
[root@cloudos01 ~]#  
[root@cloudos01 ~]#  
[root@cloudos01 ~]#  
[root@cloudos01 ~]# pod | grep neutron-agent  
cloudos-1aas      os-neutron-agent-5649777965-g1q6t      0/1      ImagePullBackOff      0      20m      10.241.1.14      cloudos02      <none>  
[root@cloudos01 ~]#  
[root@cloudos01 ~]#
```

过程分析

1、使用kubectl describe 命令看，在02节点上有pull镜像异常的报错，导致该容器在02节点上无法拉起，如下截图

```
nodeType:controller
Tolerations:
  node.kubernetes.io/memory-pressure:NoSchedule
Events:
  Type Reason Age From Message
  ----
Normal Scheduled 1h default-scheduler Successfully assigned cloudos-iaas/os-neutron-agent-5649777965-vnrqx to cloudos02
Normal Pulling 1h (x3 over 1h) kubelet, cloudos02 pulling image "os-harbor-svc.default.svc.cloudos:443/helm/cloudos-openstack-neutron-agent:E5103P01-V500R001B01D039-RC6"
Warning Failed 1h (x3 over 1h) kubelet, cloudos02 Failed to pull image "os-harbor-svc.default.svc.cloudos:443/helm/cloudos-openstack-neutron-agent:E5103P01-V500R001B01D039-RC6": rpc error: code = Unknown desc = Error: image helm/cloudos-openstack-neutron-agent:E5103P01-V500R001B01D039-RC6 not found
Warning Failed 1h (x3 over 1h) kubelet, cloudos02 Error: ErrImagePull
Normal SandboxChanged 1h (x7 over 1h) kubelet, cloudos02 Pod sandbox changed, it will be killed and re-created.
Warning Failed 1h (x142 over 1h) kubelet, cloudos02 Error: ImagePullBackOff
Normal BackOff 5s (x445 over 1h) kubelet, cloudos02 Back-off pulling image "os-harbor-svc.default.svc.cloudos:443/helm/cloudos-openstack-neutron-agent:E5103P01-V500R001B01D039-RC6"
[root@cloudos01 ~]#
[root@cloudos01 ~]#
```

2、使用docker image命令 对比02节点和其他两个节点的镜像，发现02节点上的没有最新的镜像。节点2上的镜像是6 months ago的，而其他节点上的最新镜像是2 months ago的。可以确认是这个节点上的镜像丢失。

```
[root@cloudos01 ~]#
[root@cloudos01 ~]# docker images | grep openstack-neutron-agent
os-harbor-svc.default.svc.cloudos:443/helm/cloudos-openstack-neutron-agent E5103P01-V500R001B01D039-RC6
  f4e972c5283 2 months ago 771 MB
os-harbor-svc.default.svc.cloudos:443/helm/cloudos-openstack-neutron-agent E5103P01-V500R001B01D039-RC6-20210403220945
  ae6a358652a6 2 months ago 771 MB
os-harbor-svc.default.svc.cloudos:443/helm/cloudos-openstack-neutron-agent E5103P01-V500R001B01D039-RC6-20210403173256
  28c646c81ff9 2 months ago 771 MB
os-harbor-svc.default.svc.cloudos:443/helm/cloudos-openstack-neutron-agent E5103P01-V500R001B01D039-RC6-20210403171145
  03beaf616128 6 months ago 769 MB
os-harbor-svc.default.svc.cloudos:443/helm/cloudos-openstack-neutron-agent E5102-V500R001B01D0305P01-RC1
  5cd0f42c24c 13 months ago 763 MB
[root@cloudos01 ~]#
[root@cloudos01 ~]#
```


