

组网及说明

cloudos集群使用的共享存储

问题描述

- cloudos前台发现有告警信息，提示postgresql有告警



- 后台通过pod查看发现该pod一直处于containerCreating状态

Table showing pod status for various containers like parametdrc, plm, pomelo-core-rc, postgresqlrc-d2n1m, etc. postgresqlrc-d2n1m is in ContainerCreating state.

过程分析

- kubectl describe pod postgresqlrc-d2n1m查看容器状态

```
Events:
  FirstSeen      LastSeen        Count   From              SubobjectPath   Type      Reason      Message
  ----
  4m             4m              1      default-scheduler                Normal      Scheduled      Successfully assi
  2m             2m              1      kubelet, 172.31.6.191            Warning     FailedMount   Unable to mount v
  olumes for pod "postgresqlrc-d2n1m default(6e4a71c4-820b-11e9-9b5d-0cda41d2bb0)": timeout expired waiting for volumes to attach/
  mount for pod "default"/"postgresqlrc-d2n1m", list of unattached/unmounted volumes=[postgresql]
  2m             2m              1      kubelet, 172.31.6.191            Warning     FailedSync    Error syncing pod
  , skipping: timeout expired waiting for volumes to attach/mount for pod "default"/"postgresqlrc-d2n1m", list of unattached/unmoun
  ted volumes=[postgresql]
  2m             52s             2      kubelet, 172.31.6.191            Warning     FailedMount   MountVolume.SetUp
  failed for volume "kubernetes.io/iscsi/6e4a71c4-820b-11e9-9b5d-0cda41d2bb0-postgresql" (spec.Name: "postgresql") pod "6e4a71c4-
  820b-11e9-9b5d-0cda41d2bb0" (UID: "6e4a71c4-820b-11e9-9b5d-0cda41d2bb0") with: failed to get any path for iscsi disk
[root@master1 ~]#
```

看到events有相关提示

```
Events:
  FirstSeen      LastSeen        Count   From              SubobjectPath   Type      Reason      Message
  ----
  4m             4m              1      default-scheduler                Normal      Scheduled      Successfully assi
  2m             2m              1      kubelet, 172.31.6.191            Warning     FailedMount   Unable to mount v
  olumes for pod "postgresqlrc-d2n1m default(6e4a71c4-820b-11e9-9b5d-0cda41d2bb0)": timeout expired waiting for volumes to attach/
  mount for pod "default"/"postgresqlrc-d2n1m", list of unattached/unmounted volumes=[postgresql]
  2m             2m              1      kubelet, 172.31.6.191            Warning     FailedSync    Error syncing pod
  , skipping: timeout expired waiting for volumes to attach/mount for pod "default"/"postgresqlrc-d2n1m", list of unattached/unmoun
  ted volumes=[postgresql]
  2m             52s             2      kubelet, 172.31.6.191            Warning     FailedMount   MountVolume.SetUp
  failed for volume "kubernetes.io/iscsi/6e4a71c4-820b-11e9-9b5d-0cda41d2bb0-postgresql" (spec.Name: "postgresql") pod "6e4a71c4-
  820b-11e9-9b5d-0cda41d2bb0" (UID: "6e4a71c4-820b-11e9-9b5d-0cda41d2bb0") with: failed to get any path for iscsi disk
[root@master1 ~]#
```

ll /dev/disk/by-path查看共享存储，发现有两个节点上有异常闪动，表明该路径不正常。

```
Linuxxxxxx 1 root root 7 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 85 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 85 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-2
Linuxxxxxx 1 root root 87 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 87 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 87 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-2
Linuxxxxxx 1 root root 85 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.gnocchi-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 85 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.gnocchi-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 85 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.harbor-log-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 85 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.harbor-log-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 87 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.memu-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 87 May 29 20:18 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.postgresql-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 87 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.terraform-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 87 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.terraform-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 87 May 29 17:46 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.terraform-lum-2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-2
Linuxxxxxx 1 root root 9 May 29 17:46 pci-8000:00:01:1-ata-1-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 9 May 29 17:46 pci-8000:00:01:1-ata-1-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
```

```
Linuxxxxxx 1 root root 85 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 85 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 85 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-2
Linuxxxxxx 1 root root 87 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 87 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 87 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.ce-elasticsearch-lum-2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-2
Linuxxxxxx 1 root root 85 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.gnocchi-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 85 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.gnocchi-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 85 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.harbor-log-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 85 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.harbor-log-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 87 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.memu-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 87 May 29 20:18 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.postgresql-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 87 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.terraform-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 87 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.terraform-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-1
Linuxxxxxx 1 root root 87 May 29 16:21 ip-8.8.8.8:3268-iscsi-lun-2011-11.com.h3c.dss.terraform-lum-2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-2
Linuxxxxxx 1 root root 9 May 29 16:21 pci-8000:00:01:1-ata-1-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 9 May 29 16:21 pci-8000:00:01:1-ata-1-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 10 May 29 16:21 pci-8000:00:09:0-part1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 10 May 29 16:21 pci-8000:00:09:0-part2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 10 May 29 16:21 pci-8000:00:09:0-part3 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 9 May 29 16:21 virtio-pci-8000:00:09:0-part1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 9 May 29 16:21 virtio-pci-8000:00:09:0-part2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 10 May 29 16:21 virtio-pci-8000:00:09:0-part3 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
Linuxxxxxx 1 root root 10 May 29 16:21 virtio-pci-8000:00:09:0-part4 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-lun-2011-11.com.h3c.omestor.cwk3-lum-0
[root@luster2 ~]#
```

```
lnuxxxxx 1 root root 8 May 29 16:50 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.ce-elasticsearch-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 05 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.ce-elasticsearch-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum1
lnuxxxxx 1 root root 05 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.ce-elasticsearch-lum-2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum2
lnuxxxxx 1 root root 07 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.ce-elasticsearch-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 07 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.ce-elasticsearch-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum1
lnuxxxxx 1 root root 07 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.ce-elasticsearch-lum-2 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum2
lnuxxxxx 1 root root 05 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.plance-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 05 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.qmochi-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 05 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.harbor-registry-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 05 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.harbor-registry-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 07 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.news-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 07 May 29 20:00 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.postgresql-lum-1 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk4-2-lum1
lnuxxxxx 1 root root 07 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.com.h3c.dcs.terraform-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 07 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.dcs.aggrch-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 07 May 29 16:24 ip-8.8.8.8:3268-iscsi-ign-2011-11.dcs.resource-lum-0 -> /dev/disk/by-path/ip-192.168.115.21:3268-iscsi-ign-2016-01.com.h3c.omestar.cwk3-lum0
lnuxxxxx 1 root root 9 May 29 16:24 pci-800000001-ata-1.0 -> /dev/sr0
lnuxxxxx 1 root root 8 May 29 16:24 pci-800000001-ata-1.0 -> /dev/sr0
```

解决方法

检查存储和主机之间的连接，发现现场为集群切换存储后，漏配了cluster节点的该条存储。
重新配置后，删除rc，重建rc，由rc自动拉起容器。

```
/opt/bin/kubectl --server 127.0.0.1:8888 delete rc postgresqlrc
/opt/bin/kubectl --server 127.0.0.1:8888 create -f /opt/bin/confFile-cluster/postgresql-rc.yaml
```