

知 ADCampus方案服务器进行内存扩容的注意事项

ADCampus解决方案 郑启航 2024-01-30 发表

组网及说明

ADCampus标准组网三机集群

配置步骤

若物理服务器内存由128G（或者小于128G）扩容到128G以上，必须要修改控制器组件POD的Limit值。物理内存大于128G，控制组件的POD的Limit值推荐修改为Limits: 35Gi, Requests: 17Gi。则可参考如下方法进行调整。

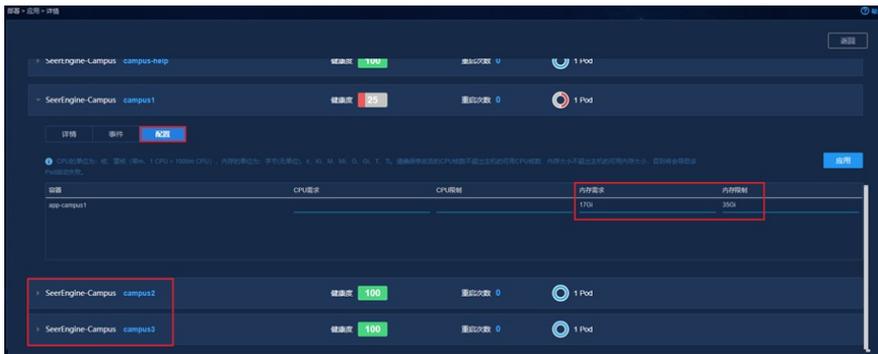
修改方法:

方法一：前台界面修改（登录matrix页面进行修改）：

进入到campus微服务的详情页面，如下图所示：



Campus应用下点击配置，配置内存需求和内存限制，请一台一台进行修改，修改完成后pod运行正常后再修改第二台。



方法二：通过后台修改：

a. 进入uc任意节点 /opt/matrix/app/install/metadata/VCFCampus/campus目录下。

```
[root@localhost campus]# ll
总用量 16
drwxr-xr-x. 5 root root 105 10月 15 22:29 campus-1
drwxr-xr-x. 5 root root 105 10月 15 22:29 campus-2
drwxr-xr-x. 5 root root 105 10月 15 22:29 campus-3
-rwxr-xr-x. 1 root root 2039 10月 15 22:29 description.json
-rwxr-xr-x. 1 root root 198 10月 15 22:29 errorMapping.json
drwxr-xr-x. 5 root root 105 10月 15 22:29 help
drwxr-xr-x. 2 root root 164 10月 15 22:29 k8s-resources
drwxr-xr-x. 5 root root 4096 10月 15 22:29 scripts
drwxr-xr-x. 5 root root 52 10月 15 22:29 template
```

b. 进入campus-1/k8s-resources/目录

```
[root@localhost campus]# cd /opt/matrix/app/install/metadata/VCFCampus/campus-1/k8s-resources/
[root@localhost k8s-resources]# ll
总用量 12
-rwxr-xr-x. 1 root root 7051 10月 15 22:29 campus1.yaml
-rwxr-xr-x. 1 root root 455 10月 15 22:29 ck1-svc.yaml
```

修改campus1.yaml中的limits.memory值，并保存，并退出。

```
kubernetes.io/hostname: 'localhost.localdomain2'
containers: ^M
- name: app-campus1 ^M
  image: 'campus/campus:E6505' ^M
  imagePullPolicy: 'Always' ^M
  resources: ^M
    requests: ^M
      memory: "17Gi" ^M
    limits: ^M
      memory: "35Gi" ^M
  ports: ^M
```

c. 在当前目录下/opt/matrix/app/install/metadata/VCFCCampus/campus/campus-1/k8s-resources执行如下两组命令：

```
[root@localhost k8s-resources]# kubectl delete -f campus1.yaml
deployment.apps "campus1" deleted
[root@localhost k8s-resources]#
[root@localhost k8s-resources]# kubectl create -f campus1.yaml
deployment.apps/campus1 created
[root@localhost k8s-resources]#
```

d. 查看campus1 pod已重建，且运行状态正常。

```
[root@localhost k8s-resources]# kubectl get po -A | grep campus
campus      campus-help-67c498767c-q8kkd      1/1      Running      0      5d12h
campus      campus1-68764fcd4bc-vcngt         1/1      Running      0      38s
campus      campus2-98b55dd4f-75hpw          1/1      Running      0      39h
campus      campus3-7f84d5b498-x7b86         1/1      Running      0      40h
campus      ccloseloop-be-5d6fc68698-kvkdz    1/1      Running      0      22h
campus      ccloseloop-fe-deployment-6d5d8f876b-4qjhp 1/1      Running      0      5d11h
campus      ccloseloop-fe-deployment-6d5d8f876b-6zr6x 1/1      Running      0      5d11h
campus      ccloseloop-fe-deployment-6d5d8f876b-8rs65 1/1      Running      0      5d11h
campus      haproxy-85bf6fd5-25p8p           1/1      Running      0      5d12h
campus      haproxy-85bf6fd5-m7c56           1/1      Running      0      5d12h
campus      haproxy-85bf6fd5-z8kk8           1/1      Running      0      5d12h
campus      oam-pod-849879799-kr8wv          1/1      Running      0      22h
campus      pxc-node1-7856d966b9-ntcgw       1/1      Running      0      5d12h
campus      pxc-node2-79f65b65cf-9j9n7       1/1      Running      0      5d12h
campus      pxc-node3-59dd44ffc-d9brw        1/1      Running      0      5d12h
campus      topology-be-deployment-7b65f5d8d9-rk9cb 1/1      Running      0      22h
```

e. 查看pod limit值已修改完成: kubectl describe pod -n campus campus-1-xxxxxxx (POD名称)。

```

-c
/usr/sbin/init
State:          Running
Started:       Fri, 21 Oct 2022 10:24:19 +0800
Ready:         True
Restart Count: 0
Limits:
  memory:      35Gi
Requests:
  memory:      17Gi
Environment:
```

参考步骤a-b,修改campus-2、campus-3的POD 内存limit值(若修改campus2、campus3 pod进入对应campus-2/k8s-resources/、campus-2/k8s-resources/文件夹作后续操作即可)。

配置关键点

内存扩容需要提变更电子流