# K8s Yaml编写小技巧

学习使用k8s的童鞋都知道我们在部署pod的时候有时候需要手动去编写一些yaml文件;比如我需要编写deployment,那除了在其他地方粘贴拷贝外有没有其他方法呢?答案是有的

1.用run命令生成,然后作为模板进行编辑。

kubectl run --image=nginx my-deploy -o yaml --dry-run > my-deploy.yaml

## 2.用get命令导出,然后作为模板进行编辑。

# 注意: --export 是为了去除当前正在运行的这个deployment生成的一些状态,我们用不到就过滤掉 kubectl get deployment/nginx -o=yaml --export > new. yaml

## 3.Pod亲和性下面字段的拼写忘记了

kubectl explain pod. spec. affinity. podAffinity

## 示例:

我想生成一个有三个副本的redis pod的yaml,然后我想把这三个pod 通过node亲和性调度到同一个node节点上面;

## 1. 我这里用kubectl run来生成:

kubectl run redis --image=redis --replicas=3 --dry-run -o yaml > redis\_node\_affinity.yaml

## 2. 手写亲和性策略:

额 问题来了亲和性策略的字段我记不住啊,怎么办?那就需要通过

kubectl explain RESOURCE [options]来获取资源文档

#### 怎么用?

比如我这里是要为pod做node的亲和性,那么一定是这个api接口下面的配置文档:想看pod的资源文档:

[root@k8s-m1 ~]# kubectl explain pod.spec.affinity

KIND: Pod VERSION: v1

RESOURCE: affinity <0bject>

#### DESCRIPTION:

- If specified, the pod's scheduling constraints
- Affinity is a group of affinity scheduling rules.

#### FIELDS:

- nodeAffinity <0bject>
- Describes node affinity scheduling rules for the pod.
- podAffinity <0bject>
- Describes pod affinity scheduling rules (e.g. co-locate this pod in the
- same node, zone, etc. as some other pod(s)).
- podAntiAffinity <0bject>
- Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod
- in the same node, zone, etc. as some other pod(s)).

[root@k8s-m1 ~]#

上面我们通过 pod. spec. affinity 定位到了nodeAffinity 文档, 这些字段也是yaml种使用的字段,随后我通过一层一层的定位就大体上知道这些字段在yaml中是怎么使用的啦~

[root@k8s-m1 ~]# kubect1 explain

 $pods.\ spec.\ affinity.\ node Affinity.\ required During Scheduling Ignored During Execution.\ node Selector Terms.\ match Expressions$ 

## 最后快速生成并且编辑的deployment yaml就写好了。

```
apiVersion: apps/vlbetal
kind: Deployment
metadata:
creationTimestamp: null
labels:
run: redis
name: redis
spec:
replicas: 3
selector:
matchLabels:
run: redis
strategy: {}
template:
metadata:
creationTimestamp: null
labels:
run: redis
spec:
containers:
- image: redis
name: redis
resources: {}
# 以下内容就是我通过explain参数来查询到的我想要的字段写的
affinity:
nodeAffinity:
requiredDuringSchedulingIgnoredDuringExecution:
    nodeSelectorTerms:
     - matchExpressions:
      - key: kubernetes.io/hostname
     operator: In
values:
status: {}
| [root@k8s-m1 tmp]# kubectl get pods -o wide | grep redis
| redis-57b6b69b77-c49sq 1/1 Running 0 4
| redis-57b6b69b77-gdf27 1/1 Running 0 4
| redis-57b6b69b77-ghzr6 1/1 Running 0 4
| [root@k8s-m1 tmp]#
                                             40m
                                                     10.244.2.19 k8s-m1
10.244.2.20 k8s-m1
10.244.2.21 k8s-m1
                                                                        <none>
                                             40m
                                                                        <none>
                                             40m
                                                                        <none>
```

### 还是非常快速高效的。

最后更新时间: 2018-12-19 22:39:54

该文链接: https://blog.sctux.com/2018/12/09/k8s-yaml-bian-xie-xiao-ji-qiao/