

# 使用Kubernetes部署Typecho博客系统

- 部署应用

```
# 将typecho文件夹从宿主机上传到node0
$ cd ~/k3s-tutorial
$ vagrant upload typecho node0

# 连接node0
$ vagrant ssh node0

# 进入到node0
vagrant@node0:~$ ls
conf node0.log typecho
# 部署typecho
vagrant@node0:~$ cd typecho/
vagrant@node0:~/typecho$ ls
mysql typecho_deploy.yaml typecho_service.yaml
vagrant@node0:~/typecho$ sudo k3s kubectl create -f .
deployment.apps/typecho-app created
service/typecho-service created

# 部署mysql
vagrant@node0:~/typecho$ cd mysql
vagrant@node0:~/typecho/mysql$ sudo k3s kubectl create -f .
deployment.apps/mysql-deploy created
service/mysql-service created

# 查看是否部署成功
vagrant@node0:~/typecho/mysql$ sudo k3s kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
typecho-app-5bd56599-r5rx5          1/1     Running   0           59s
mysql-deploy-7c94d7bfc9-fkcs9       1/1     Running   0           50s
```

- 创建数据库

```
# 获取mysql容器的名称
vagrant@node0:~/typecho/mysql$ sudo k3s kubectl get pods | grep mysql
mysql-deploy-7c94d7bfc9-fkcs9       1/1     Running   0           2m33s

# 进入到mysql容器内部
vagrant@node0:~/typecho/mysql$ sudo k3s kubectl exec -it mysql-deploy-7c94d7bfc9-fkcs9 -- /bin/bash
root@mysql-deploy-7c94d7bfc9-fkcs9:/#

# 创建数据库
root@mysql-deploy-7c94d7bfc9-fkcs9:/# mysql -u root -p
# 密码是123456
Enter password:
mysql> create database typecho;
Query OK, 1 row affected (0.00 sec)

# 退出即可
mysql> exit
```

```
Bye
root@mysql-deploy-7c94d7bfc9-fkcs9:/# exit
exit
vagrant@node0:~/typecho/mysql$
```

- 连接数据库

```
# 查看mysql数据库的地址,此处为 10.43.85.181:80
vagrant@node0:~/typecho/mysql$ sudo k3s kubectl get svc
NAME                TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
kubernetes           ClusterIP     10.43.0.1      <none>          443/TCP           7d2h
typecho-service      NodePort      10.43.249.246  <none>          80:30010/TCP      6m44s
mysql-service        NodePort      10.43.85.181   <none>          80:30011/TCP      6m35s

# 查看typecho部署到的哪一个节点,此处为node2,即192.168.33.22
vagrant@node0:~/typecho/mysql$ sudo k3s kubectl get pods -o wide | grep typecho
typecho-app-5bd56599-r5rx5    1/1    Running    0           8m2s    10.42.2.8
node2    <none>    <none>
```

# 在浏览器中打开网页: 192.168.33.22:30010 , 按照指示连接数据库即可