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MYSQL database on kubernetes using kubernetes artifact files

Github Link: https://github.com/Mayuri12G/MYSQL-node-on-Kubernetes-using-Kubernetes-Artifacts

Steps:

- 1. Firstly I have created 4 yaml files
- mysql-deployment.yaml

Deployments represent a set of multiple, identical Pods with no unique identities.

mysql-configmap.yaml

ConfigMaps are used to store configuration parameters such hostname, port etc.

mysql-service.yaml

Services are use to group pods together using labels & selectors.

• mysql-secret.yaml

Secrets are used to store confidential attributes such as password, API key etc.

2. Clone the repository on Katacoda Kubernetes git clone https://github.com/Mayuri12G/MYSQL-node-on-Kubernetes-using-Kubernetes-Artifacts

- 3. Creating a namespace
- \$ kubectl create namespace mysql
- 4. Set the current namespace to the one we already created
- \$ kubectl config set-context --current --namespace=mysql
- 5. Creating mysql-secret

It Store MySQL root password in secret.

kubectl create -f mysql-secret.yaml

6. Creating deployment for mysql

\$ kubectl create -f mysql-deployment.yaml

7. Creating mysql configuration

It store host & port in configmap

\$ kubectl create -f mysql-configmap.yaml

8. Creating service for mysql

kubectl create -f mysql-service.yaml

9.Running

kubectl get pods -watch

Exit when pod goes into running state

```
Terminal +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X ¢
    $ $ minikube start --wait=false
* minikube y1.8.1 on Ubuntu 18.04
* Using the none driver based on user configuration
* Running on localhost (CFUs-2, Memory=2460MB, Disk=145651MB) ...
* OS release is Ubuntu 18.04.4 LTS
* Preparing Kubernetes v1.17.3 on Docker 19.03.6 ...
* kübelet.resolv-conf=/run/systemd/resolve/resolv.conf
* Launching Kubernetes ...
* Snabling addons: default-storageclass, storage-provisioner
* Aunched Newbrentes ...

* Enabling addons: default-storageclass, storage-provisioner

* Configuring local host environment ...

* Done! Kubert is now configured to use "minikube"

$ git clone https://github.com/Mayuri126/MYSQL-node-on-Kubernetes-using-Kubernetes-Artifacts

Cloning into 'MYSQL-node-on-Kubernetes-using-Kubernetes-Artifacts'...

remote: Enumerating objects: 22, done.

remote: Counting objects: 100% (22/22), done.

remote: Counting objects: 100% (22/22), done.

remote: Total 22 (delta 3), reused 0 (delta 0), pack-reused 0

Umpacking objects: 100% (22/22), done.

$ kubectl create namespace mysql

namespace/mysql created

$ kubectl create - fmysql-secret .-current --namespace-mysql

Context "minikube" modified.

$ kubectl create - fmysql-secret.yaml

error: the path "mysql-secret.yaml" does not exist

$ cd MYSQL-node-on-Kubernetes-using-Kubernetes-Artifacts

$ 18
    v usqu-configmap.yaml mysql-deployment.yaml mysql-secret.yaml mysql-service.yaml REALME.md
$ kubectl create -f mysql-secret.yaml
secret/mysql-secrets created
   secretermysql-secrets created

$ kubectl create -f mysql-deployment.yaml

deployment.apps/mysql-db created

$ kubectl create -f mysql-configmap.yaml

configmap/mysql-config created

$ kubectl create -f mysql-service.yaml

service/mysql-service created

$ kubectl are nods --watch
    $ kubect1 get pods --watch
NAME READY STATUS RESTARTS AGE
mysql-db-7d8f7889fc-bv219 0/1 Pending 0 47s
```