MySQL Operator
For Kubernetes
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**InnoDB Cluster**
Making Replication Easy

MySQL Group Replication:
- Automatic membership changes, network partition handling, consistency...

MySQL Shell:
- Provides a powerful interface that helps in automating and integrating all components

InnoDB CLONE:
- To automatically provision members, fully integrated in InnoDB Cluster

MySQL Router:
- To send applications to the right MySQL Server

MySQL Server:
- Won’t work without
**MySQL Container Images**
Docker and other Runtimes

Container Images for our Products

- MySQL Server
- MySQL Router
- **New:** MySQL Operator

Available via

- Docker Hub
- Oracle Container Registry
  container-registry.oracle.com
- Docker, Inc. maintains a version with slightly different features as `mysql` on DockerHub

```
docker run -p 3306:3306 \
  --env MYSQL_ROOT_PASSWORD=root \
  --env MYSQL_ROOT_HOST=% \
  -v $(pwd)/datadir:/var/lib/mysql \
  mysql/mysql-server:8.0
```
Kubernetes, also known as K8s, is an open-source system for automating deployment, scaling, and management of containerized applications.”

https://kubernetes.io/
**MySQL Operator**

At Glance

Built and maintained by the MySQL Development Team
Currently in Development, not General Available
Available as Open Source under UPL
- http://github.com/mysql/mysql-operator/

Built on top of MySQL Shell and InnoDB Cluster

Can be used using yaml files and kubectl
- kubectl apply -f deploy/deploy-crds.yaml
  - kubectl apply -f deploy/deploy-operator.yaml

Also offering Helm Charts
- helm install mysql-operator helm/mysql-operator \
  --namespace mysql-operator --create-namespace
MySQL Operator
At Glance

The Operator manages the Lifecycle of InnoDB Clusters

- Installation and setup
- Handling different Error Situations
- Upgrading
- Backup
- Termination
Demo

What does it look like in practice?
Thank You
Please Reach out to Us!

GitHub Repo is on
  • https://github.com/mysql/mysql-operator

Community Forum
  • MySQL & Docker, Kubernetes
  • https://forums.mysql.com/list.php?149

MySQL Community Slack
  • https://slack.lefred.be/
  • #kubernetes

Issue Found? - File a bug
  • Category “MySQL Operator”