

Hands On LAB

11 January 2021 11:00

- Deploy a WordPress site and a MySQL database
- Both applications use PersistentVolumes and PersistentVolumeClaims to store data

Objective:

- Create PersistentVolumeClaims and PersistentVolumes
- Create yaml file as follow
 - Secret generator file
 - MySQL resource configs
 - WordPress resource configs
- Clean up

Process :

We are using frontend application wordpress and database behind it.

- 1. Create PV for mysql Database**
 - i. name: mysql-pv
 - ii. storage: 2Gi
 - iii. path: /mnt/mysql (hostPath)
- 2. Create PVC for mysql Database**
 - i. name: mysql-pv-claim
 - ii. storage: 2Gi
- 3. Create Secret config file as it will consist password in secret way**
 - i. name: mysql-pass
 - ii. Use base64 to generate password
 - 1) Password is: "password"
- 4. Create mysql service**
 - i. name: wordpress-mysql
 - ii. app: wordpress
 - iii. port: 3306
 - iv. Type - ClusterIP
- 5. Create mysql deployment**
 - i. **Yaml File available on repo.**
- 6. Create PV for Wordpress application**
 - i. name: wordpress-pv
 - ii. storage: 2Gi
 - iii. path: /mnt/wordpress (hostPath)
- 7. Create PVC for Wordpress application**
 - i. name: wp-pv-claim
 - ii. labels:
 - app: wordpress
 - iii. storage: 2Gi
- 8. Create wordpress service**
 - i. name: wordpress
 - ii. labels:
 - app: wordpress

- iii. Port: 80
- iv. Type: LB
- v. selector:
 - app: wordpress
 - tier: frontend

9. Create wordpress deployment

i. Yaml File available on repo

Images:

Mysql - mysql:5.6

Wordpress - wordpress:4.8-apache