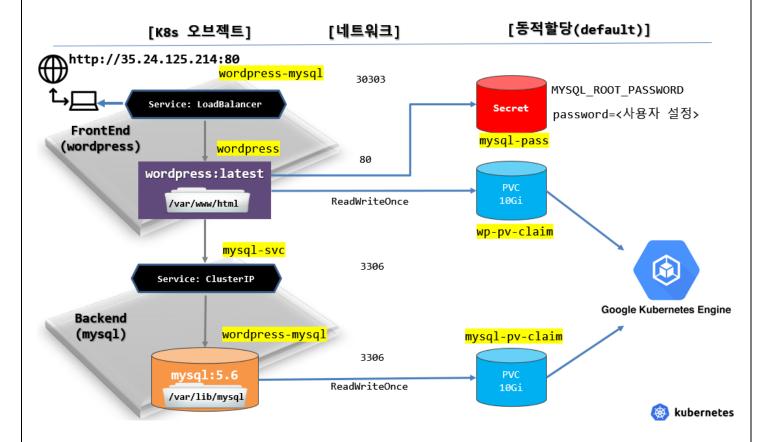
[GKE: Web(wordpress) + DB(mysql) + Volume(PVC)]



mysql을 위한 서비스 구성: mysql-svc.yaml

apiVersion: v1
kind: Service
metadata:

name: wordpress-mysql

labels:

app: wordpress

spec:
 ports:

- port: 3306
selector:

app: wordpress
 tier: mysql
clusterIP: None

mysql을 위한 서비스 구성: mysql-pvc.yaml

apiVersion: v1

kind: PersistentVolumeClaim

metadata:

name: mysql-pv-claim

labels:

app: wordpress

spec:

accessModes:

- ReadWriteOnce

resources: requests:

storage: 20Gi

mysql Pod를 위한 Deployment 구성: mysql-deploy.yaml apiVersion: apps/v1 kind: Deployment metadata: name: wordpress-mysql labels: app: wordpress spec: selector: matchLabels: app: wordpress tier: mysql strategy: type: Recreate template: metadata: labels: app: wordpress tier: mysql spec: containers: - image: mysql:5.6 name: mysql env: - name: MYSQL_ROOT_PASSWORD valueFrom: secretKeyRef: name: mysql-pass key: password ports: - containerPort: 3306 name: mysql volumeMounts: - name: mysql-persistent-storage mountPath: /var/lib/mysql volumes: - name: mysql-persistent-storage persistentVolumeClaim: claimName: mysql-pv-claim

<mark># 외부 서비스를 위한 LoadBalancer 구성</mark>

apiVersion: v1
kind: Service
metadata:
 name: wordpress
labels:
 app: wordpress
spec:
 ports:
 - port: 80
 selector:
 app: wordpress
 tier: frontend
type: LoadBalancer

mysql 관리자 암호 저장을 위한 secret 생성

C:\Users\g7>kubectl create secret generic mysql-pass --from-literal=password=Passw0rD
secret/mysql-pass created

C:\Users\g7>kubectl describe secret mysql-pass

Name: mysql-pass
Namespace: default
Labels: <none>
Annotations: <none>

Type: Opaque

Data

password: 8 bytes

<mark># wordpress를 위한 PVC 구성</mark>

apiVersion: v1

kind: PersistentVolumeClaim

metadata:

name: wp-pv-claim

labels:

app: wordpress

spec:

accessModes:

- ReadWriteOnce

resources: requests:

storage: 20Gi

<mark># WordPress Pod를 위한 Deployment 구성</mark> apiVersion: apps/v1 kind: Deployment metadata: name: wordpress labels: app: wordpress spec: selector: matchLabels: app: wordpress tier: frontend strategy: type: Recreate template: metadata: labels: app: wordpress tier: frontend spec: containers: - image: wordpress:4.8-apache name: wordpress env: - name: WORDPRESS_DB_HOST value: wordpress-mysql - name: WORDPRESS_DB_PASSWORD valueFrom: secretKeyRef: name: mysql-pass key: password ports: - containerPort: 80 name: wordpress volumeMounts: - name: wordpress-persistent-storage mountPath: /var/www/html volumes: name: wordpress-persistent-storage persistentVolumeClaim: claimName: wp-pv-claim

정보 조회

C:\Users\g7>kubectl get deploy,pod,svc -o wide

<pre>pod/wordpress-mysql-5b697 gke-k8s-cluster-k8s-pool-</pre>		1/1 Run none>	ning 0 <none></none>	13m 10	.0.1.10
NAME SELECTOR	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/kubernetes	ClusterIP	10.4.0.1	<none></none>	443/TCP	2d16h
service/wordpress app=wordpress,tier=fronte	LoadBalancer	10.4.1.115	35.221.226.224	80:32419/TCP	12m
service/wordpress-mysql app=wordpress,tier=mysql	ClusterIP	None	<none></none>	3306/TCP	13m

■ Wordpress WEB 접속: http://35.221.226.224:80

환영합니다

유명한 5분 워드프레스 설치 과정에 오신 것을 환영합니다! 아래에서 정보를 입력만 하면 세계에서 가장 확장성 높고 강력한 개인 출판 플랫폼을 사용하는 길로 들어서게 됩니다.

필요한 정보

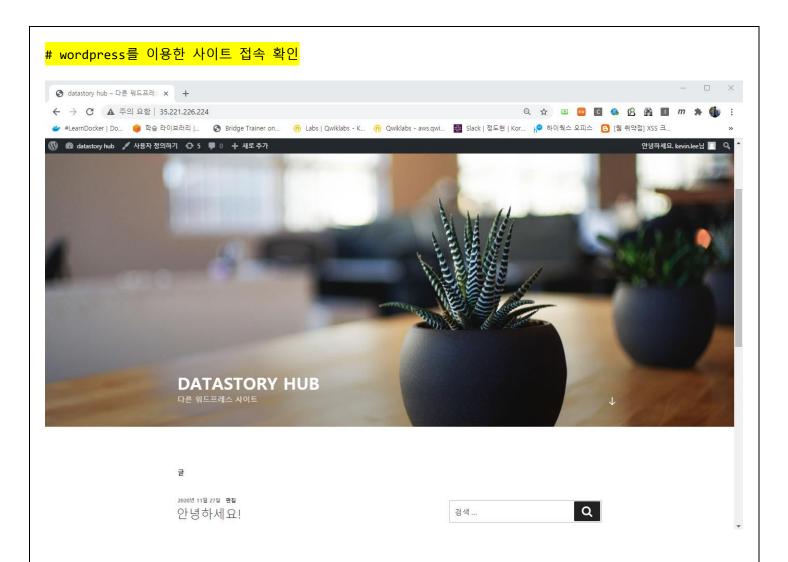
다음 정보들을 제공해주세요. 나중에 다시 변경할 수 있으니 걱정하지 않아도 됩니다.

사이드 세폭	datastory hub				
사용자명	kevin.lee				
	사용자명은 알파벳, 숫자, 스페이스, 밀즙, 하이폰, 마침포, @ 심볼만 가능합니다.				
비밀번호		● 보기			
	강함				
	중요: 로그인하려면 이 비밀번호가 필요할	것입니다. 안전한 곳에 보관하십시요.			
이메일 주소:	abc@abc.com				
	계속하기 전에 이메일 주소를 한 번 더 확인하세요.				
검색 엔진 접근 여부	□ 검색 엔진이 이 사이트 검색 차단하기				
	이 요청이 받아둡여지는 것은 전적으로 검색 엔진에 좌우됩니다.				
워드프레스 설치하기					

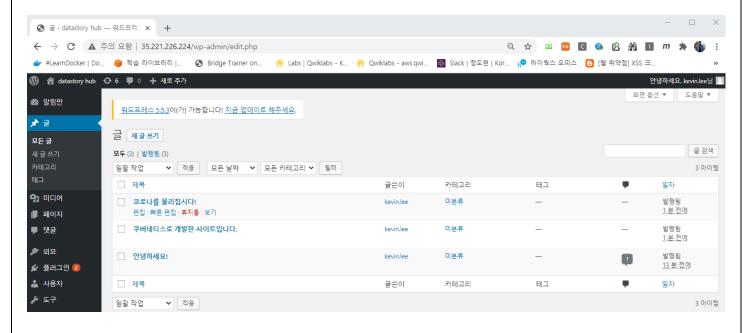
mysql 접속

```
C:\Users\g7>kubectl exec -it wordpress-mysql-5b697dbbfc-hbclv -- bash
root@wordpress-mysql-5b697dbbfc-hbclv:/# env | grep MYSQL
MYSQL ROOT PASSWORD=Passw0rD
MYSOL MAJOR=5.6
MYSQL VERSION=5.6.50-1debian9
root@wordpress-mysql-5b697dbbfc-hbclv:/# mysql -uroot -p
Enter password:
mysql> show databases;
Database
| information schema |
| #mysql50#lost+found |
| mysql
                   | performance_schema |
wordpress
5 rows in set (0.00 sec)
mysql> use wordpress;
Database changed
mysql> show tables;
Empty set (0.00 sec)
```

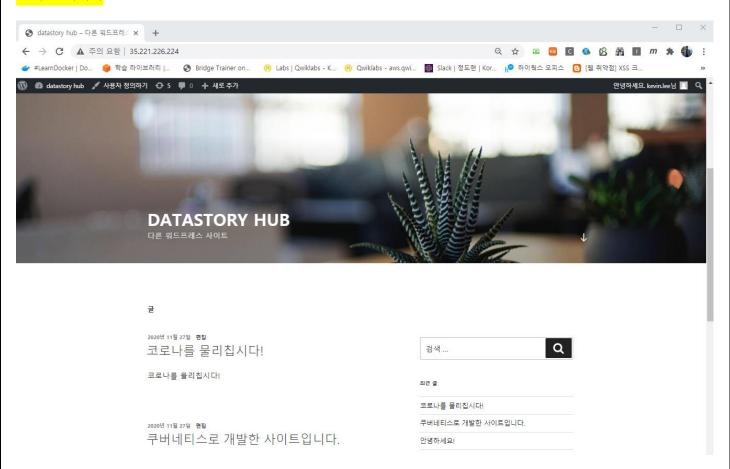
wordpress 사이트 install 이후 테이블 생성됨. mysql> show tables; | Tables_in_wordpress | +----| wp_commentmeta | wp comments | wp links | wp_options | wp_postmeta | wp_posts | wp_term_relationships | | wp_term_taxonomy | | wp_termmeta | wp_terms | wp_usermeta | wp_users 12 rows in set (0.00 sec) mysql> select * from wp users; -----| ID | user_login | user_pass | user_nicename | user_email | user_url | user_registered | user_activation_key | user_status | display_name | | 1 | kevin.lee | \$P\$BSr1AWqUFtlQgQaVZuJ6/1Z14MHJZ4/ | kevin-lee | abc@abc.com | 2020-11-26 -----+ 1 row in set (0.00 sec) mysql> exit Bye # PVC 할당 공간 확인 root@wordpress-mysql-5b697dbbfc-hbclv:/# df -h Filesystem Size Used Avail Use% Mounted on overlay 95G 3.4G 91G 4% / tmpfs 64M 0 64M 0% /dev tmpfs 999M 0 999M 0% /sys/fs/cgroup /dev/sda1 95G 3.4G 91G 4% /etc/hosts shm 64M 0 64M 0% /dev/shm /dev/sdb 20G 226M 20G 2%/var/lib/mysql ★★★★★



사이트에서 글 입력



<mark># 메인 페이지</mark>



root@wordpress-mysql-5b697dbbfc-hbclv:/# mysql -uroot -p Enter password:

mysql> show databases;