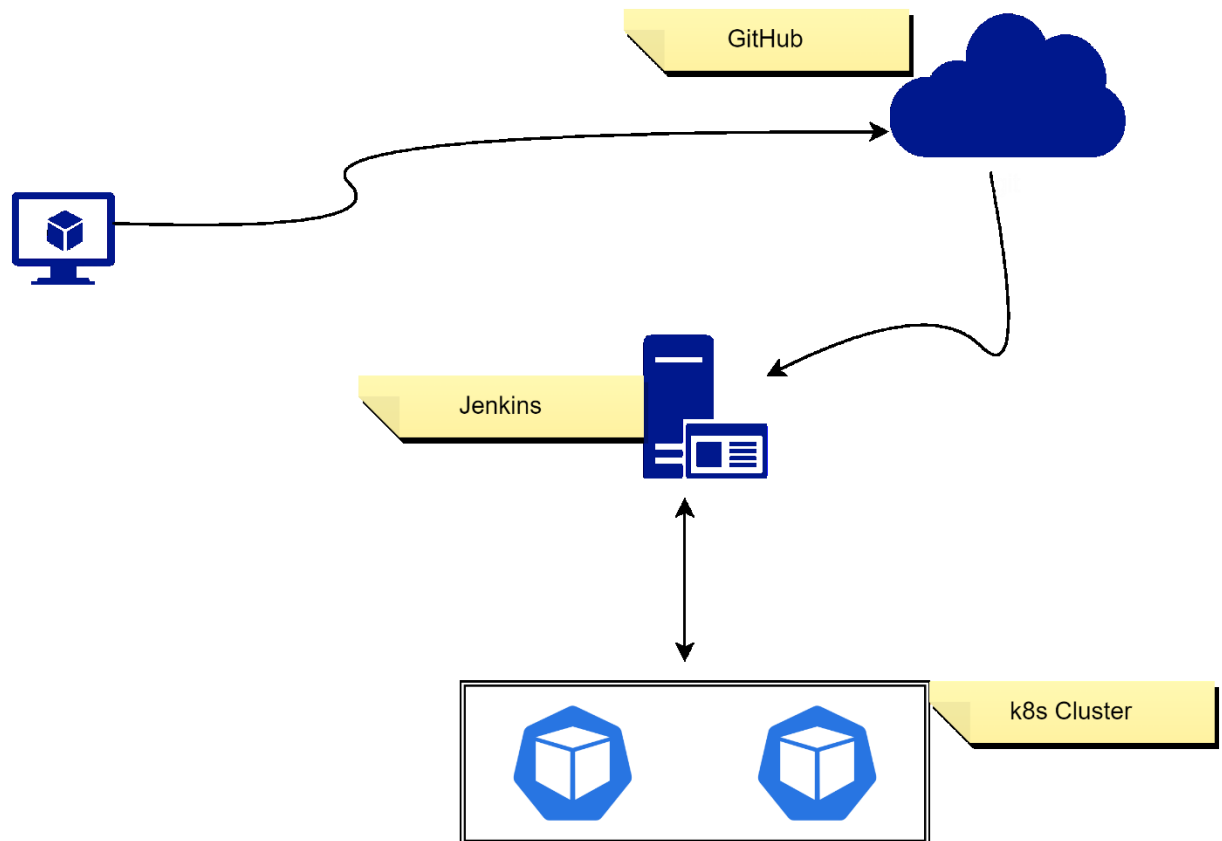


Описание проекта домашней работы

1. Создание 2 манифестов, для созданию 2 Pod
Pod- с контейнером БД MySQL (mysql.pod)
Pod – с контейнером WP_PHP Apache (wp_php_apache.pod)

```
prkpo@linuxmint21:~/Labk8s$ ls -lsa
total 88
 4 drwxr-xr-x  5 prkpo prkpo 4096 Dec  3 12:54 .
12 drwx----- 23 prkpo prkpo 12288 Dec  3 12:34 ..
 4 drwxr-xr-x  2 root  root  4096 Dec  3 13:05 dev
 4 drwxr-xr-x  8 root  root  4096 Dec  3 13:05 .git
 4 drwxr-xr-x  3 root  root  4096 Dec  2 22:19 .gitlab
12 -rw-r--r--  1 root  root   706 Dec  2 22:19 Jenkinsfile
12 -rw-r--r--  1 root  root   546 Dec  2 22:19 jenkins_pipeline
12 -rw-r--r--  1 root  root   733 Dec  2 22:19 mysql_pod.yml
12 -rw-r--r--  1 root  root     8 Dec  2 22:19 README.md
12 -rw-r--r--  1 root  root  1228 Dec  2 22:19 wp_php_apache_pod.yml
prkpo@linuxmint21:~/Labk8s$
```



2. Загрузка в Github

```

root@linuxmint21:/home/prkpo/Labk8s#
root@linuxmint21:/home/prkpo/Labk8s#
root@linuxmint21:/home/prkpo/Labk8s# git log
commit a049a18835f3261e2accee99083fdaa0e9ab414f (HEAD -> main, origin/main, origin/HEAD)
Author: p.kupryianau <p.kupryianau@gmail.com>
Date: Sat Dec 3 13:05:44 2022 +0300

    change dir dev

commit bd3612e4a5a1f5cfd55c0e5e3d5e64b7e479c2d
Author: pkupryianau <109171932+pkupryianau@users.noreply.github.com>
Date: Fri Dec 2 21:07:47 2022 +0300

    new

commit a9f0ff206e7b8c157b120864780718855f58a0d1
Author: pkupryianau <109171932+pkupryianau@users.noreply.github.com>
Date: Thu Dec 1 23:45:15 2022 +0300

    z

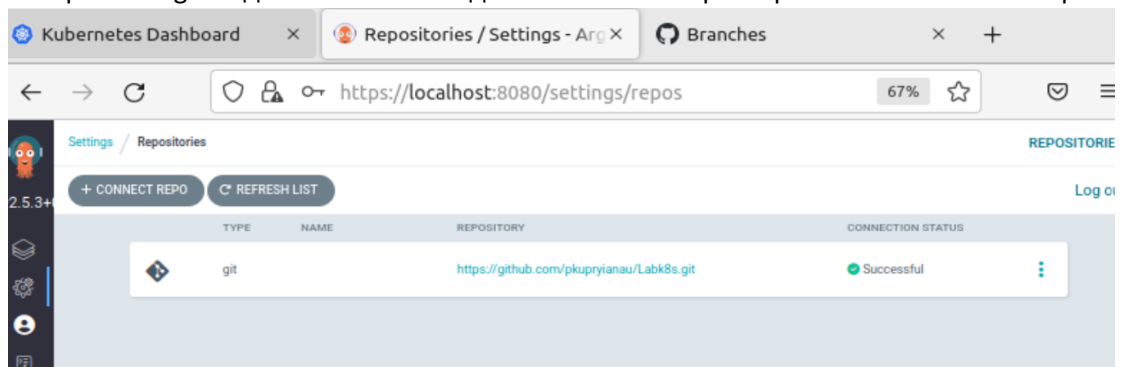
commit ea521410a0f7325cd134ffdf7d468a4cce0e1676
Author: pkupryianau <109171932+pkupryianau@users.noreply.github.com>
Date: Thu Dec 1 23:42:08 2022 +0300

    qq

commit b656451cea077accf71c9f2e58e49489db2c0492
Author: pkupryianau <109171932+pkupryianau@users.noreply.github.com>
Date: Thu Dec 1 23:41:20 2022 +0300

```

3. Настройка ArgoCD для вычитывания данных с GitHub и разворачивания в k8s кластер



Настройка разворачивания проекта в ArgoCD

wordpress - Application Details Tree - Argo CD — Mozilla Firefox

Kubernetes Dashboard x wordpress - Application Det x Branches

← → ↺ https://localhost:8080/applications/argocd/wordpress?no 67% ☆

Applications / Q wordpress

APP DETAILS APP DIFF SYNC SYNC STATUS HISTORY AND ROLLBACK DELETE REFRESH

APP HEALTH Progressing

WORDPRESS EDIT

PROJECT default

ANNOTATIONS

CLUSTER in-cluster (https://kubernetes.default.svc)

NAMESPACE wordpress

CREATED_AT 12/03/2022 13:16:31 (16 minutes ago)

REPO URL https://github.com/pkupryanau/Labk8s.git

TARGET REVISION main

PATH dev

SYNC OPTIONS CreateNamespace

RETRY OPTIONS Retry disabled

Kubernetes Dashboard x wordpress - Application Det x Branches

← → ↺ https://localhost:8080/applications/argocd/wordpress?vie 67% ☆

Applications / Q wordpress APPLICATION DETAILS TREE

APP DETAILS APP DIFF SYNC SYNC STATUS HISTORY AND ROLLBACK DELETE REFRESH

APP HEALTH Progressing

CURRENT SYNC STATUS Synced To main (a049a18) MORE

Author: p.kupryanau <p.kupryanau@gmail.com> - change dir dev

LAST SYNC RESULT Sync OK To a049a18 MORE

Succeeded 13 minutes ago (Sat Dec 03 2022 13:21:40 GMT+0300)

Author: p.kupryanau <p.kupryanau@gmail.com> - change dir dev

wordpress 13 minutes

mysql-service 13 minutes

wordpress-service 13 minutes

mysql-service-407e7 13 minutes

wordpress-service-4a0b9 13 minutes

wordpress-7958577d9 13 minutes

mysql-4e47p 13 minutes

wordpress-7958577d9-runtid 13 minutes

Minikube

Проверка развёртывания локально

Kubernetes Dashboard | wordpress - Application Det | Branches

127.0.0.1:42049/api/v1/namespaces/kubernetes-dashboard/se 50%

Workloads

Deployments

Pods

Replica Sets

Name	Images	Labels	Pods	Created ↑
wordpress	wordpress:php7.4-apache	app: wordpress	1 / 1	1.5 hours ago

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑
wordpress-79588577d9-1z99f	wordpress:php7.4-apache	app: wordpress pod-template-hash: 79588577d9	minikube	Running	1	-	-	1.5 hours ago
mysql-rpghc	mysql:5.7	app: mysql	minikube	Running	1	-	-	1.5 hours ago

Name	Images	Labels	Pods	Created ↑
wordpress	wordpress:php7.4-apache	app: wordpress	1 / 1	1.5 hours ago

Проверка развёртывания через ArgoCD

Kubernetes Dashboard | wordpress - Application Det | Branches

127.0.0.1:42049/api/v1/namespaces/kubernetes-dashboard/se 50%

Workloads

Deployments

Pods

Replica Sets

Name	Images	Labels	Pods	Created ↑
wordpress	wordpress:php7.4-apache	app: wordpress app.kubernetes.io/instance: wordpress	1 / 1	1.4 minutes ago

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑
mysql-tz47p	mysql:5.7	app: mysql	minikube	Running	0	-	-	1.4 minutes ago
wordpress-79588577d9-nutfd	wordpress:php7.4-apache	app: wordpress pod-template-hash: 79588577d9	minikube	Running	0	-	-	1.4 minutes ago

Name	Images	Labels	Pods	Created ↑
wordpress	wordpress:php7.4-apache	app: wordpress	1 / 1	1.4 minutes ago

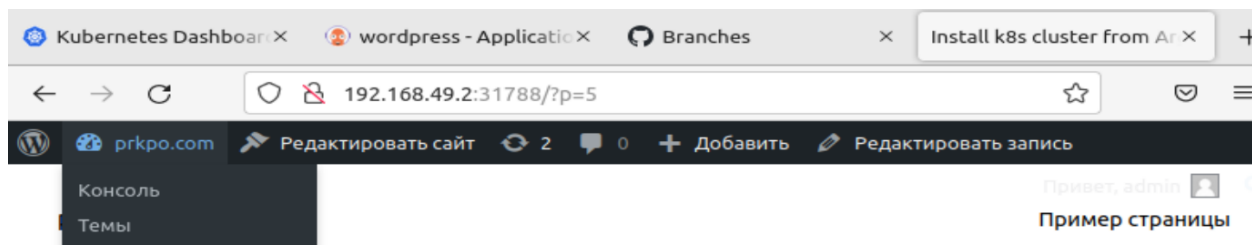
```
prkpo@linuxmint21:~/Labk8s$
prkpo@linuxmint21:~/Labk8s$
prkpo@linuxmint21:~/Labk8s$
prkpo@linuxmint21:~/Labk8s$
prkpo@linuxmint21:~/Labk8s$ kubectl get po,svc
NAME                                READY    STATUS    RESTARTS    AGE
pod/mysql-rpghc                     1/1     Running   1 (154m ago)  15h
pod/wordpress-79588577d9-ls99f     1/1     Running   1 (154m ago)  15h

NAME                                TYPE                CLUSTER-IP    EXTERNAL-IP    PORT(S)        AGE
service/kubernetes                  ClusterIP          10.96.0.1     <none>         443/TCP        15h
service/mysql-service               ClusterIP          10.99.50.58   <none>         3306/TCP        15h
service/wordpress-service           LoadBalancer      10.111.46.28   <pending>      80:30822/TCP    15h
prkpo@linuxmint21:~/Labk8s$ kubectl get namespace
NAME              STATUS    AGE
argocd            Active    77m
default           Active    15h
kube-node-lease   Active    15h
kube-public       Active    15h
kube-system       Active    15h
kubernetes-dashboard Active    15h
wordpress         Active    16m
prkpo@linuxmint21:~/Labk8s$ kubectl -n wordpress get po,svc
NAME                                READY    STATUS    RESTARTS    AGE
pod/mysql-tr47p                     1/1     Running   0            17m
pod/wordpress-79588577d9-nztfd     1/1     Running   0            17m

NAME                                TYPE                CLUSTER-IP    EXTERNAL-IP    PORT(S)        AGE
service/mysql-service               ClusterIP          10.111.64.214 <none>         3306/TCP        17m
service/wordpress-service           LoadBalancer      10.105.243.27 <pending>      80:31788/TCP    17m
prkpo@linuxmint21:~/Labk8s$
```

4. Настройка WP

```
prkpo@linuxmint21:~/Labk8s$ minikube service wordpress-service --url
http://192.168.49.2:30822
prkpo@linuxmint21:~/Labk8s$ minikube -n wordpress service wordpress-service --url
http://192.168.49.2:31788
prkpo@linuxmint21:~/Labk8s$
```



Install k8s cluster from ArgoCD

Posted 03.12.2022 in [Без рубрики](#)
by admin

Tags: