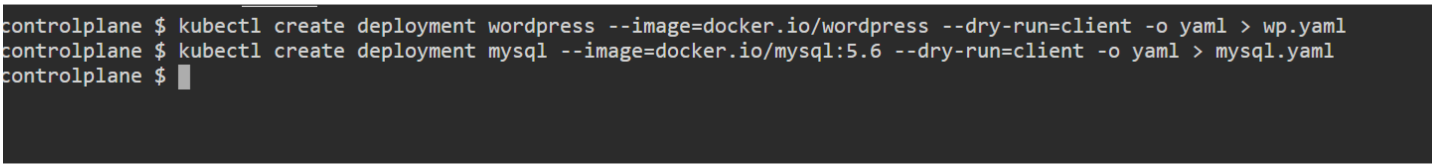
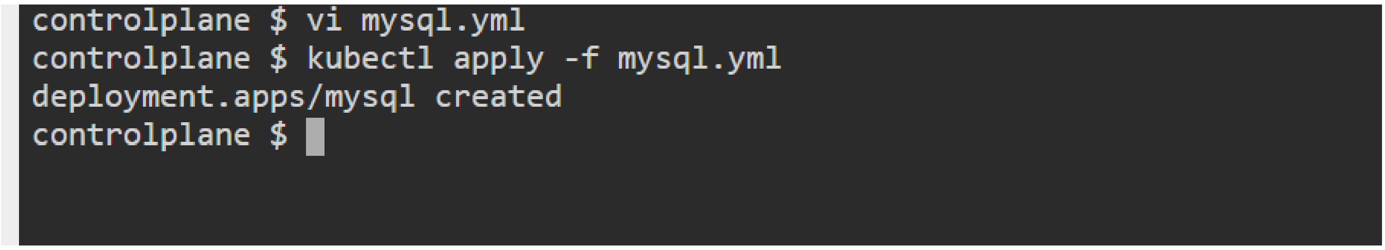
kubernetes



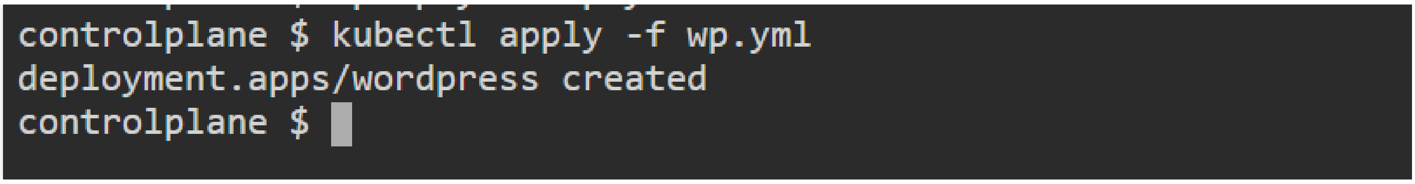
```
controlplane $ kubectl create deployment wordpress --image=docker.io/wordpress --dry-run=client -o yaml > wp.yaml
controlplane $ kubectl create deployment mysql --image=docker.io/mysql:5.6 --dry-run=client -o yaml > mysql.yaml
controlplane $ 
```

creating deployment for the mysql and wordpress



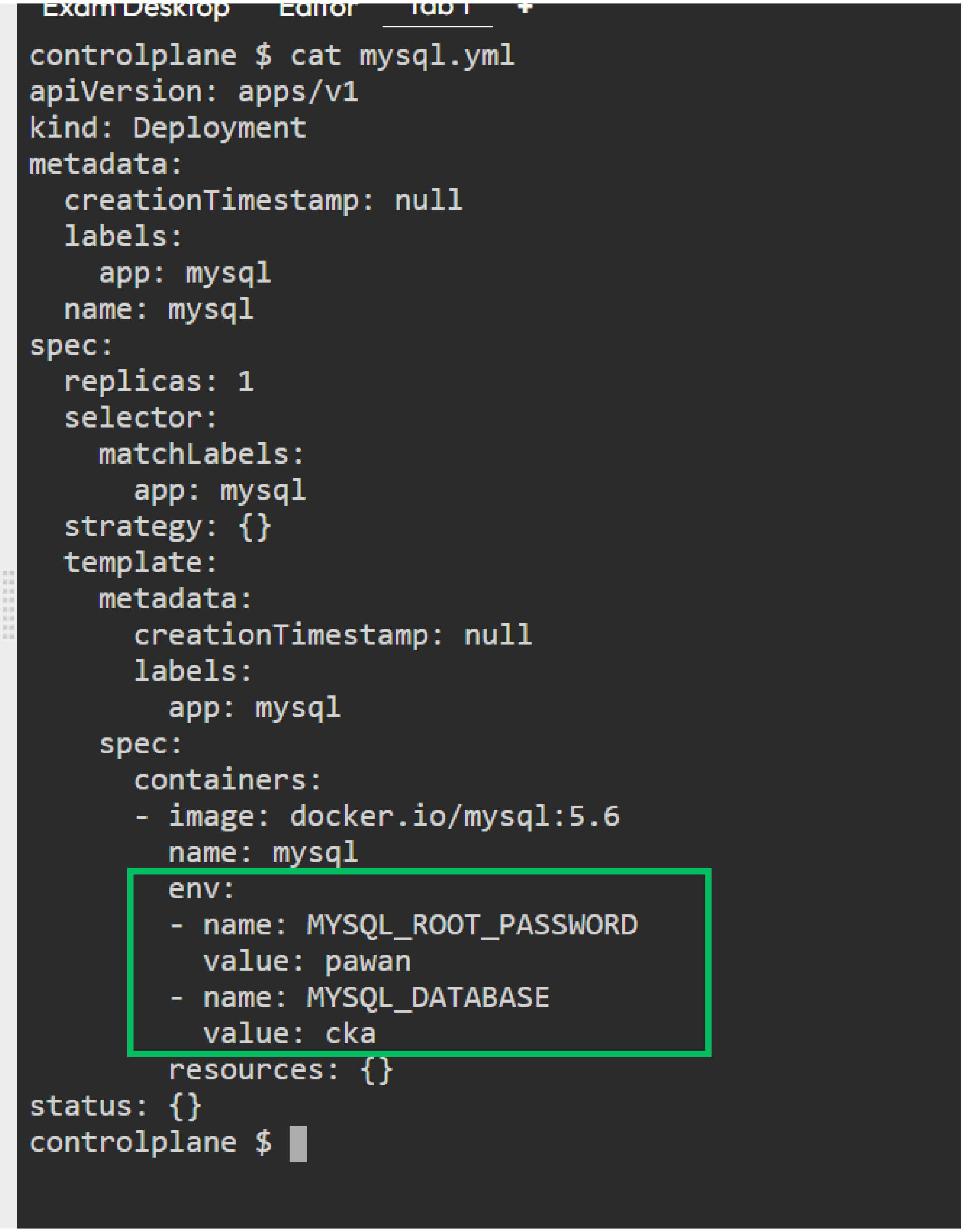
```
controlplane $ vi mysql.yml
controlplane $ kubectl apply -f mysql.yml
deployment.apps/mysql created
controlplane $ 
```

creating and applying the yaml file of the mysql



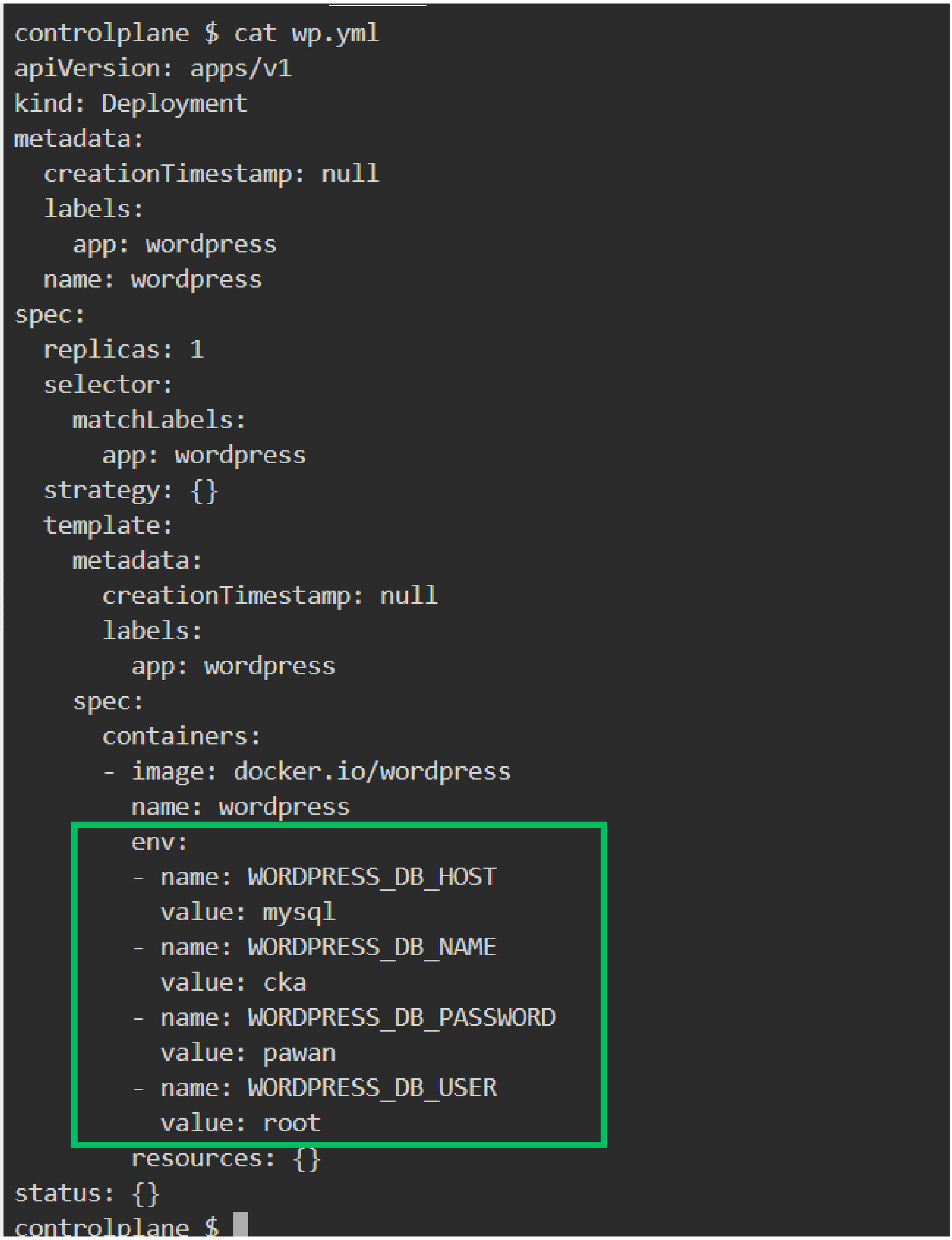
```
controlplane $ kubectl apply -f wp.yml
deployment.apps/wordpress created
controlplane $ 
```

creaing and applying the yaml file of the wordpress



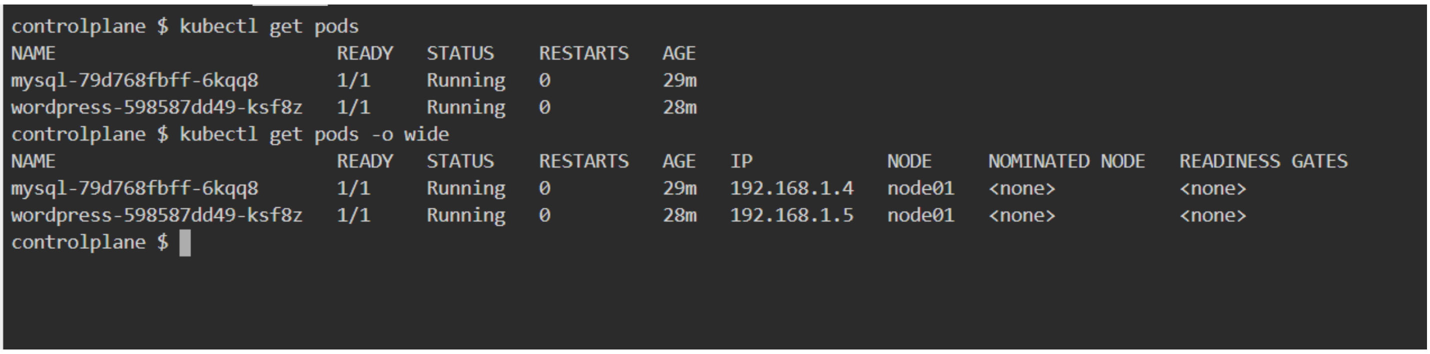
```
controlplane $ cat mysql.yml
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: mysql
  name: mysql
spec:
  replicas: 1
  selector:
    matchLabels:
      app: mysql
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: mysql
    spec:
      containers:
      - image: docker.io/mysql:5.6
        name: mysql
        env:
        - name: MYSQL_ROOT_PASSWORD
          value: pawan
        - name: MYSQL_DATABASE
          value: cka
        resources: {}
status: {}
controlplane $ 
```

yaml file of the mysql



```
controlplane $ cat wp.yml
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: wordpress
  name: wordpress
spec:
  replicas: 1
  selector:
    matchLabels:
      app: wordpress
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: wordpress
    spec:
      containers:
      - image: docker.io/wordpress
        name: wordpress
        env:
        - name: WORDPRESS_DB_HOST
          value: mysql
        - name: WORDPRESS_DB_NAME
          value: cka
        - name: WORDPRESS_DB_PASSWORD
          value: pawan
        - name: WORDPRESS_DB_USER
          value: root
        resources: {}
status: {}
controlplane $
```

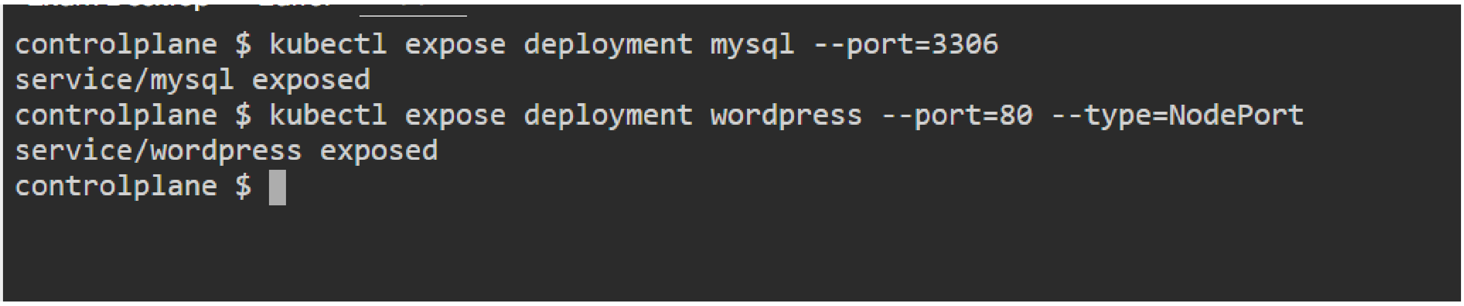
yaml file of the wordpress



```
controlplane $ kubectl get pods
NAME                         READY   STATUS    RESTARTS   AGE
mysql-79d768fbff-6kqq8       1/1     Running   0          29m
wordpress-598587dd49-ksf8z   1/1     Running   0          28m
controlplane $ kubectl get pods -o wide
NAME                         READY   STATUS    RESTARTS   AGE   IP            NODE     NOMINATED NODE   READINESS GATES
mysql-79d768fbff-6kqq8       1/1     Running   0          29m   192.168.1.4   node01   <none>           <none>
wordpress-598587dd49-ksf8z   1/1     Running   0          28m   192.168.1.5   node01   <none>           <none>
controlplane $
```

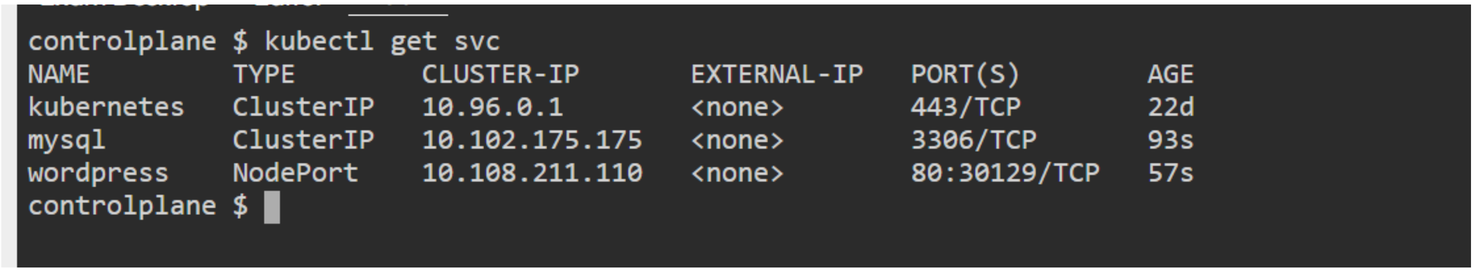
fetching the details of pods using the command

`kubectl get pods`



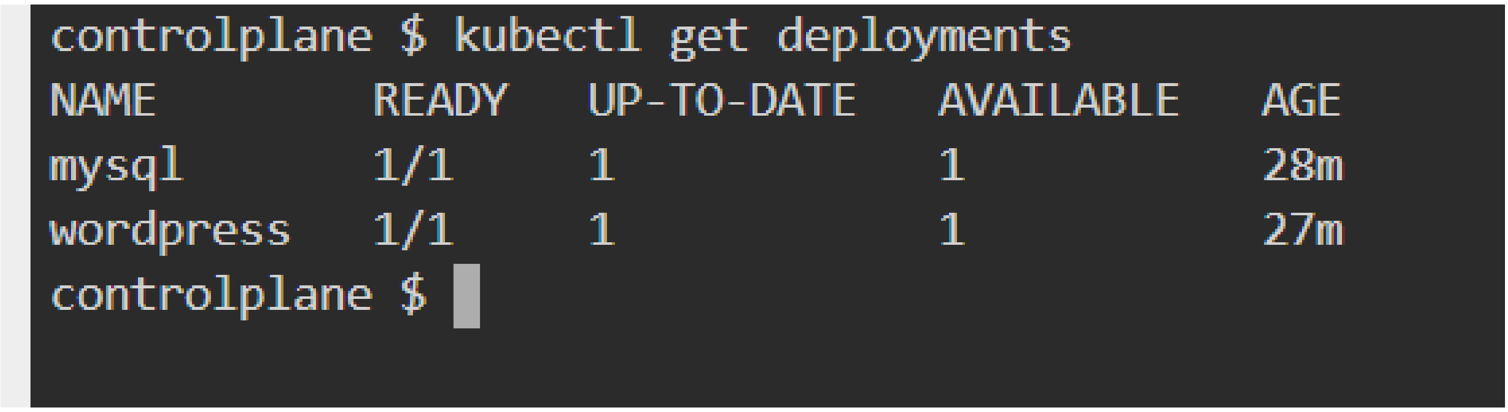
```
controlplane $ kubectl expose deployment mysql --port=3306
service/mysql exposed
controlplane $ kubectl expose deployment wordpress --port=80 --type=NodePort
service/wordpress exposed
controlplane $ 
```

creating the service and give the port number to mysql and wordpress



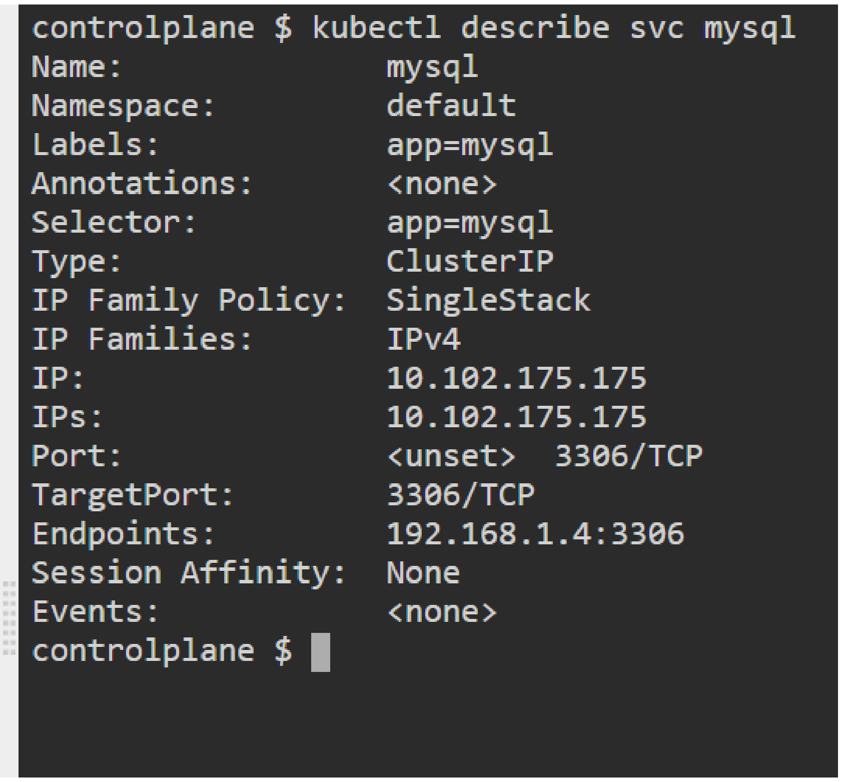
```
controlplane $ kubectl get svc
NAME         TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)        AGE
kubernetes   ClusterIP   10.96.0.1        <none>        443/TCP        22d
mysql        ClusterIP   10.102.175.175   <none>        3306/TCP       93s
wordpress    NodePort    10.108.211.110   <none>        80:30129/TCP   57s
controlplane $ 
```

fetch the service of wordpress and mysql



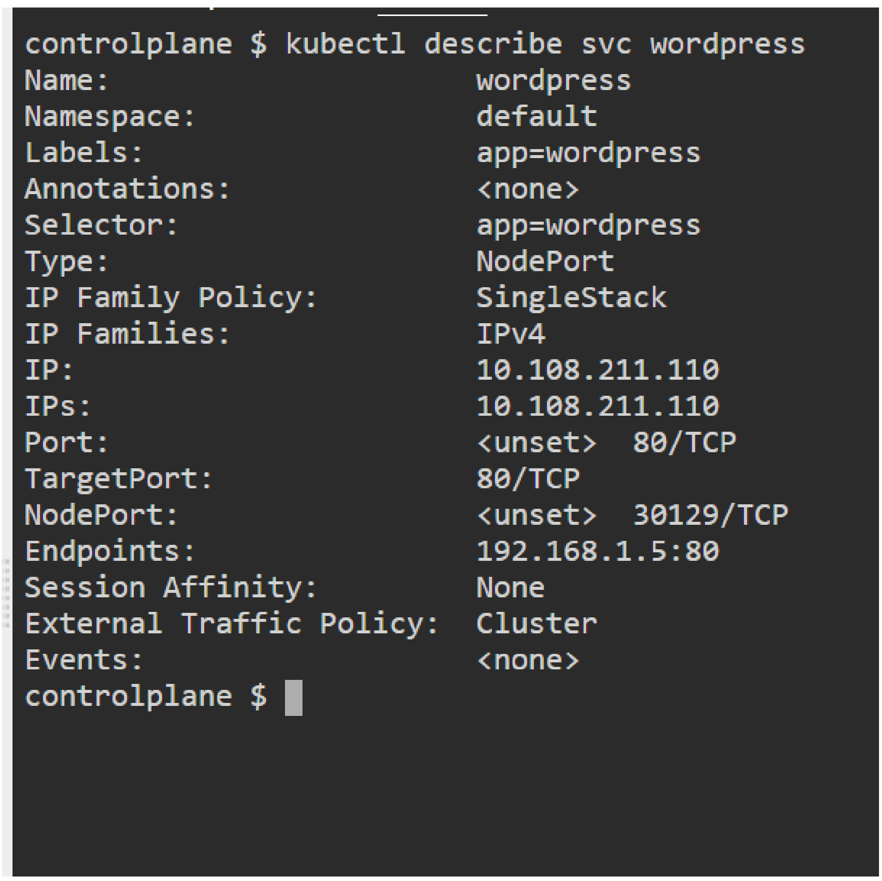
```
controlplane $ kubectl get deployments
NAME        READY   UP-TO-DATE   AVAILABLE   AGE
mysql       1/1     1            1           28m
wordpress   1/1     1            1           27m
controlplane $ 
```

fetch the deployments



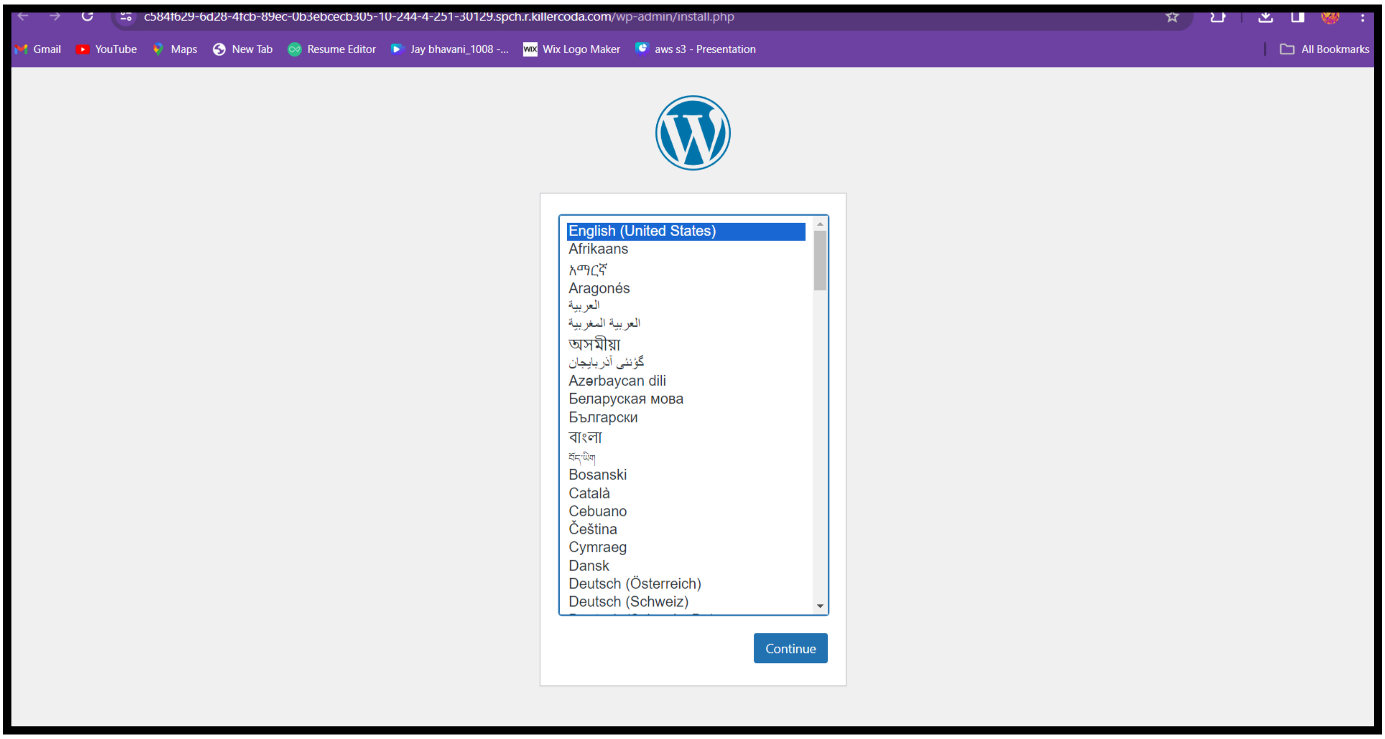
```
controlplane $ kubectl describe svc mysql
Name:              mysql
Namespace:         default
Labels:            app=mysql
Annotations:       <none>
Selector:          app=mysql
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.102.175.175
IPs:               10.102.175.175
Port:              <unset>  3306/TCP
TargetPort:        3306/TCP
Endpoints:         192.168.1.4:3306
Session Affinity:  None
Events:            <none>
controlplane $ 
```

describing the service mysql



```
controlplane $ kubectl describe svc wordpress
Name:                     wordpress
Namespace:                default
Labels:                   app=wordpress
Annotations:              <none>
Selector:                 app=wordpress
Type:                     NodePort
IP Family Policy:         SingleStack
IP Families:              IPv4
IP:                       10.108.211.110
IPs:                      10.108.211.110
Port:                     <unset>  80/TCP
TargetPort:               80/TCP
NodePort:                 <unset>  30129/TCP
Endpoints:                192.168.1.5:80
Session Affinity:         None
External Traffic Policy:  Cluster
Events:                   <none>
controlplane $ 
```

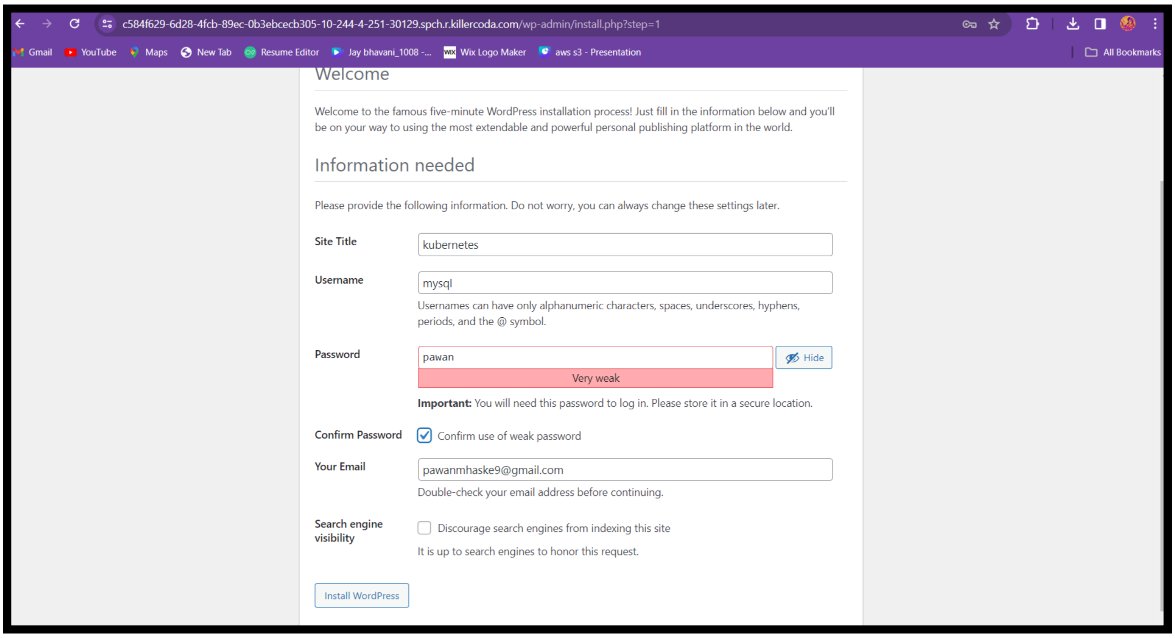
describing the service wordpress



c584f629-6d28-4fcb-89ec-0b3ebcecb305-10-244-4-251-30129.spch.r.killercoda.com/wp-admin/install.php

English (United States)
Afrikaans
አማርኛ
Aragonés
العربية
العربية المغربية
অসমীয়া
گؤنئی آذربایجان
Azərbaycan dili
Беларуская мова
Български
বাংলা
བོད་ཡིག
Bosanski
Català
Cebuano
Čeština
Cymraeg
Dansk
Deutsch (Österreich)
Deutsch (Schweiz)

after entring the correct port number i.e NodePort described in the service



c584f629-6d28-4fcb-89ec-0b3ebcecb305-10-244-4-251-30129.spch.r.killercoda.com/wp-admin/install.php?step=1

Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Do not worry, you can always change these settings later.

Site Title: kubernetes

Username: mysql

Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password: pawan — Hide

Very weak

Important: You will need this password to log in. Please store it in a secure location.

Confirm Password: ☑ Confirm use of weak password

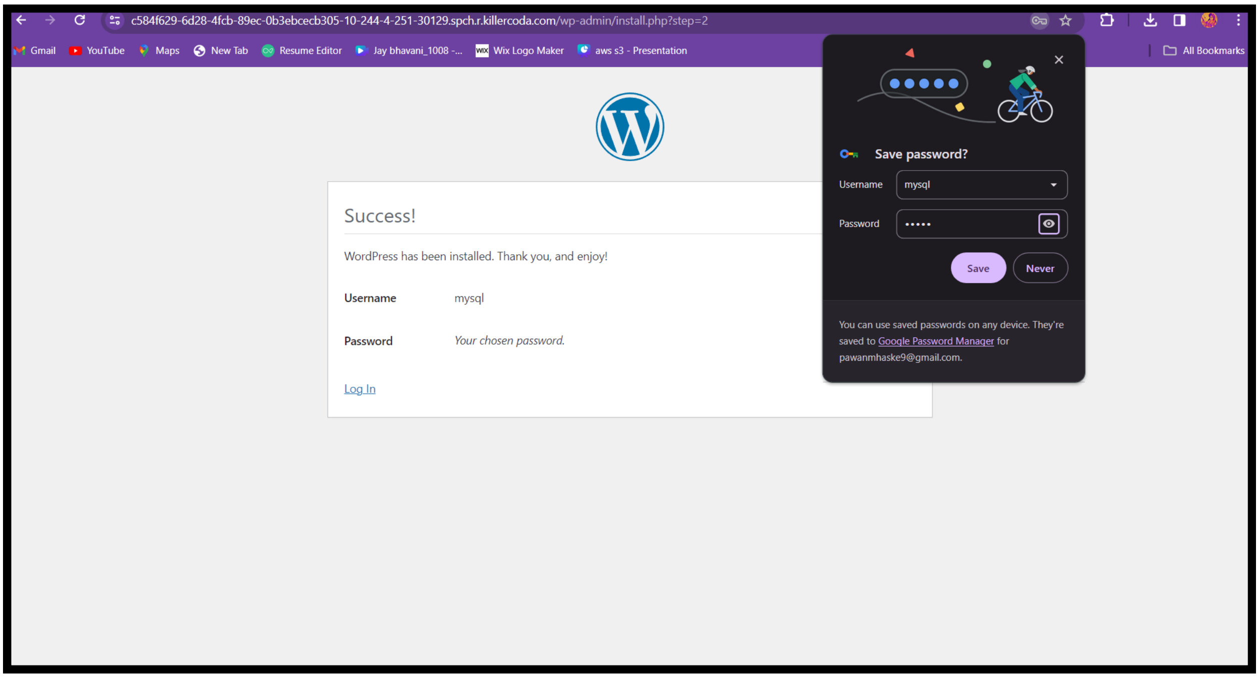
Your Email: pawanmhaske9@gmail.com

Double-check your email address before continuing.

Search engine visibility: □ Discourage search engines from indexing this site

It is up to search engines to honor this request.

enter the correct credentials



c584f629-6d28-4fcb-89ec-0b3ebcecb305-10-244-4-251-30129.spch.r.killercoda.com/wp-admin/install.php?step=2

Success!

WordPress has been installed. Thank you, and enjoy!

Username mysql

Password *Your chosen password.*

Log In

Save password?

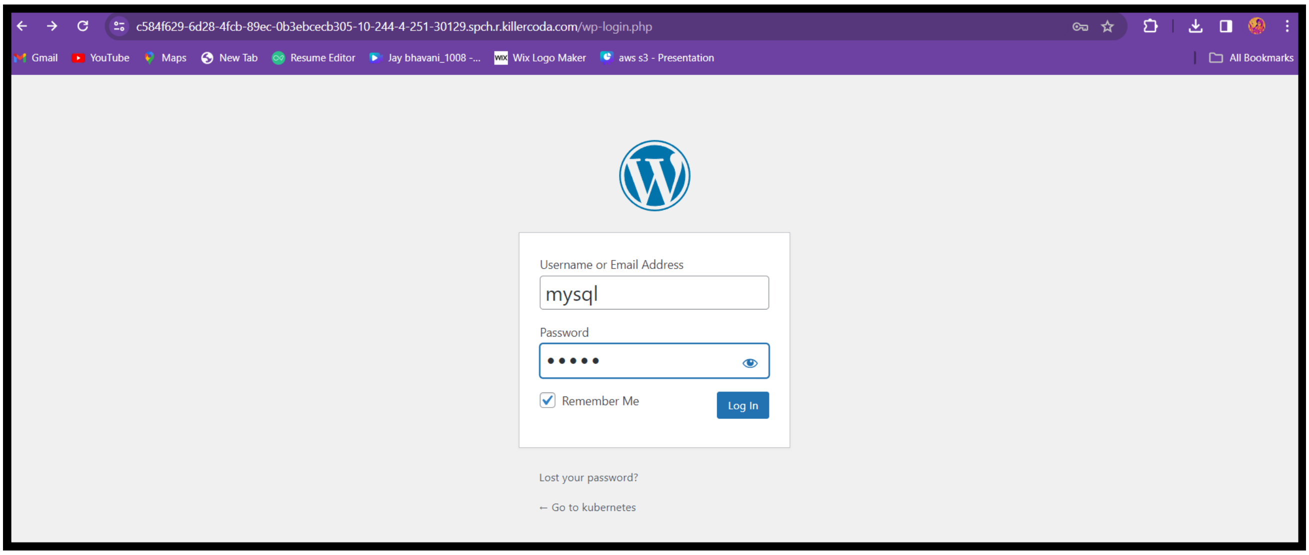
Username: mysql

Password: •••••

Save | Never

You can use saved passwords on any device. They're saved to Google Password Manager for pawanmhaske9@gmail.com.

Entering the correct login credentails



c584f629-6d28-4fcb-89ec-0b3ebcecb305-10-244-4-251-30129.spch.r.killercoda.com/wp-login.php

Username or Email Address: mysql

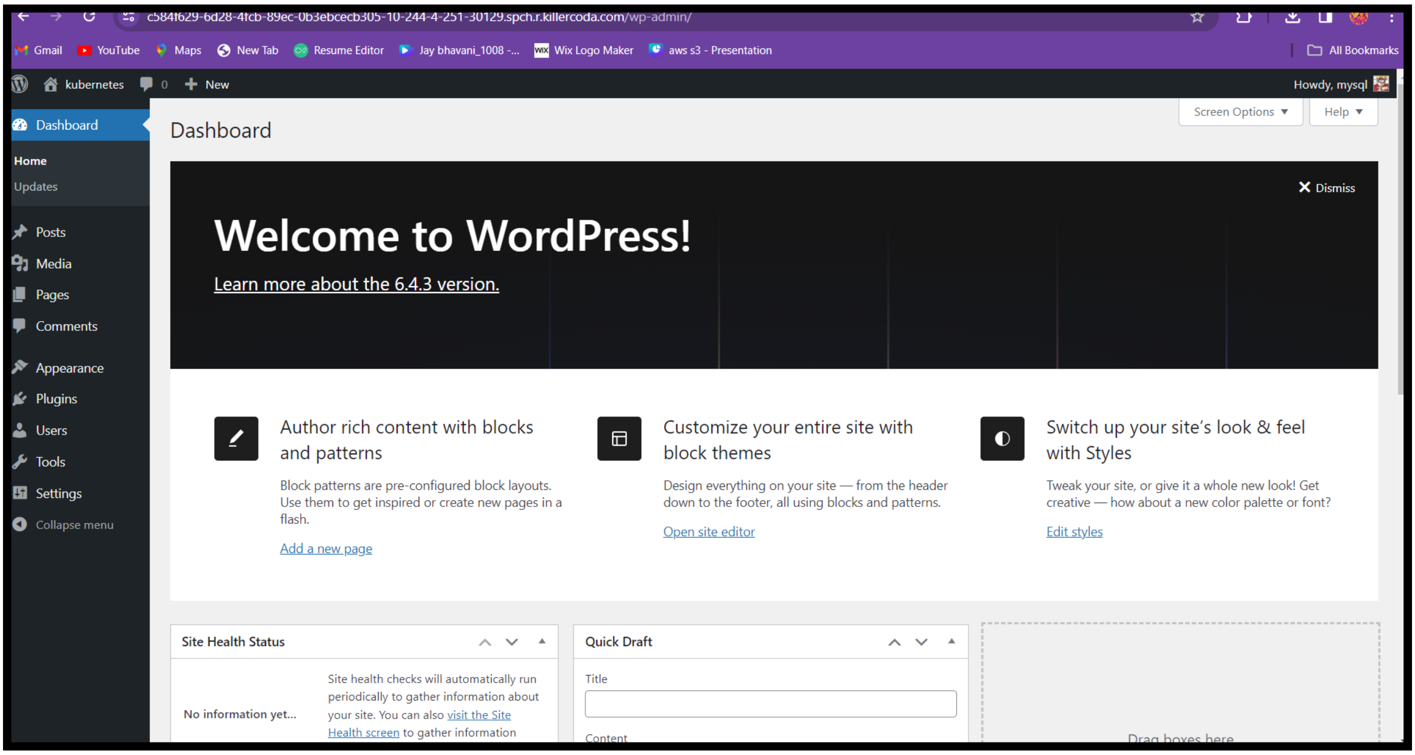
Password: •••••

☑ Remember Me

Log In

Lost your password?

← Go to kubernetes



Dashboard

Welcome to WordPress!

Learn more about the 6.4.3 version.

Author rich content with blocks and patterns

Block patterns are pre-configured block layouts. Use them to get inspired or create new pages in a flash.

Customize your entire site with block themes

Design everything on your site — from the header down to the footer, all using blocks and patterns.

Switch up your site's look & feel with Styles

Tweak your site, or give it a whole new look! Get creative — how about a new color palette or font?

No information yet...

Site health checks will automatically run periodically to gather information about your site. You can also visit the Site Health screen to gather information

welcome page of wordpress