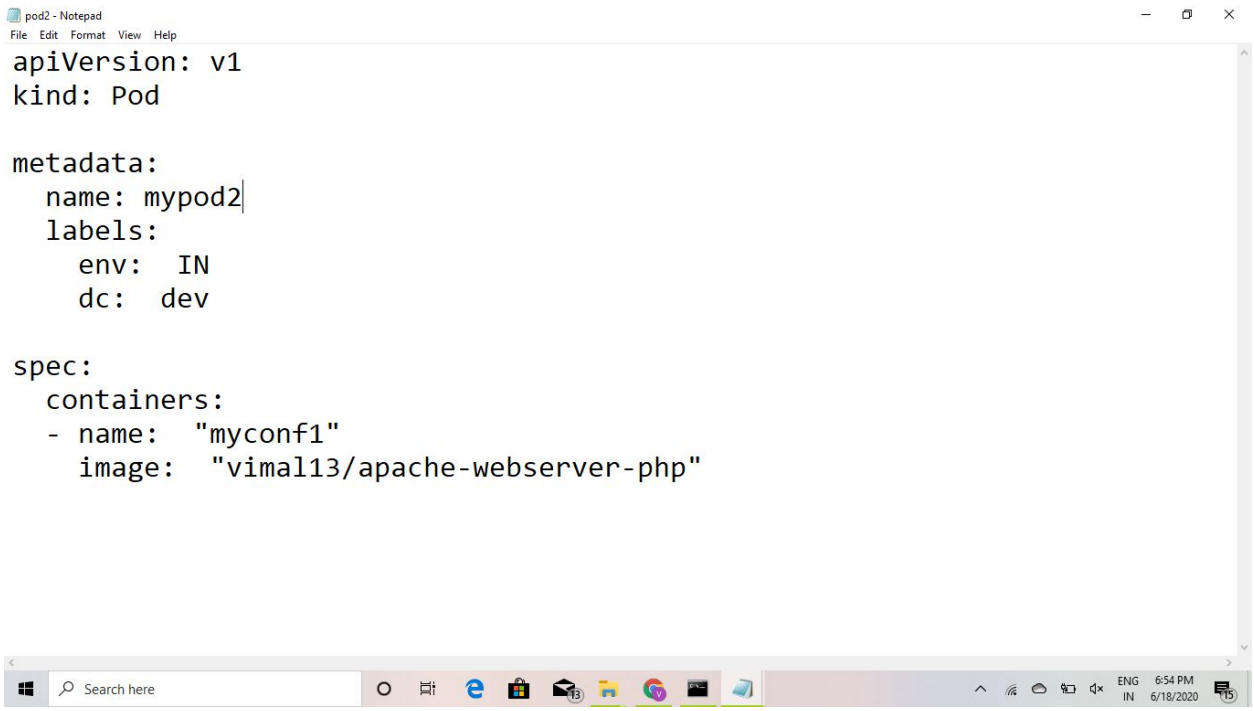
# 18th june:




```
C:\Users\user\Desktop\kube_cloud>kubectl create --validate=false -f pod1.yml
pod/mypod1 created

C:\Users\user\Desktop\kube_cloud>kubectl create --validate=false -f pod2.yml
pod/mypod2 created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME    READY   STATUS              RESTARTS   AGE
mypod1  1/1     Running             0          75s
mypod2  0/1     ContainerCreating   0          3s

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME    READY   STATUS    RESTARTS   AGE
mypod1  1/1     Running   0          78s
mypod2  1/1     Running   0          6s

C:\Users\user\Desktop\kube_cloud>kubectl get pods --show-labels
NAME    READY   STATUS    RESTARTS   AGE   LABELS
mypod1  1/1     Running   0          92s   dc=dev,env=IN
mypod2  1/1     Running   0          20s   dc=dev,env=IN
```

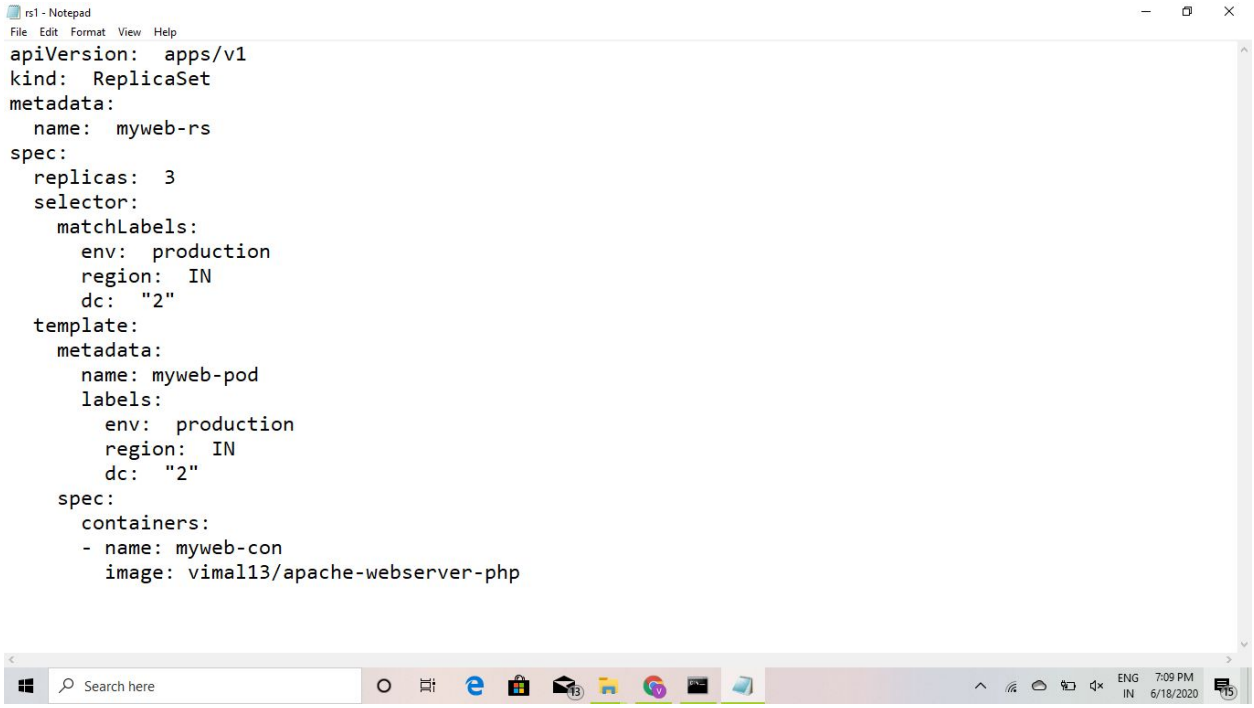
**SELECTOR:**

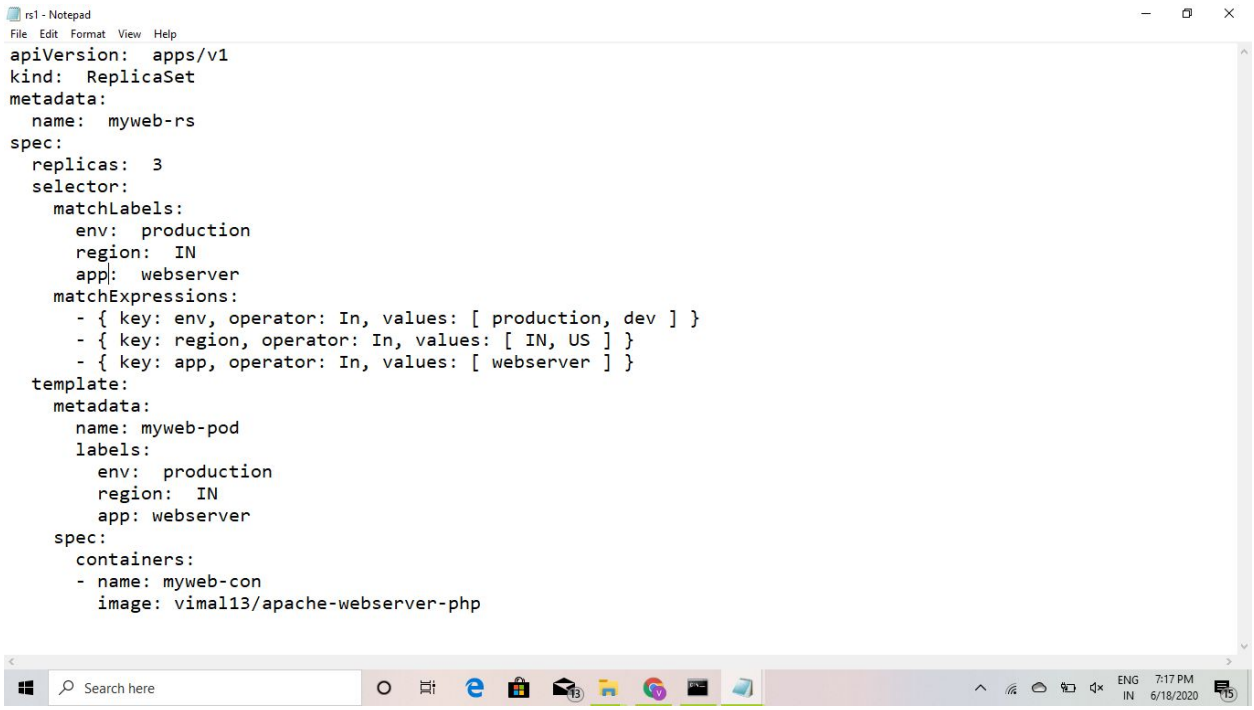
- **Equality based selector**
- **Set based selector**

```
C:\Users\user\Desktop\kube_cloud>kubectl get pods --show-labels --selector "env in
(dev,IN)"
NAME    READY   STATUS    RESTARTS   AGE     LABELS
mypod1  1/1     Running   0          4m9s    dc=dev,env=IN
mypod2  1/1     Running   0          2m57s   dc=dev,env=IN

C:\Users\user\Desktop\kube_cloud>kubectl get pods --show-labels --selector "env in
(dev)"
No resources found in default namespace.

C:\Users\user\Desktop\kube_cloud>kubectl get pods --show-labels --selector "env in
(IN)"
NAME    READY   STATUS    RESTARTS   AGE     LABELS
mypod1  1/1     Running   0          4m30s   dc=dev,env=IN
mypod2  1/1     Running   0          3m18s   dc=dev,env=IN
;C:\Users\user\Desktop\kube_cloud>kubectl get pods --show-labels --selector "env notin
(dev)"
NAME    READY   STATUS    RESTARTS   AGE     LABELS
mypod1  1/1     Running   0          6m7s    dc=dev,env=IN
mypod2  1/1     Running   0          4m55s   dc=dev,env=IN
```

**In replication controller we used equality based selector behind the seen Replica Sets. Replica Set ensures how many replica of pod should be running. ... The key difference between the replica set and the replication controller is, the replication controller only supports equality-based selector whereas thereplicaset**

**supports set-based selector.**

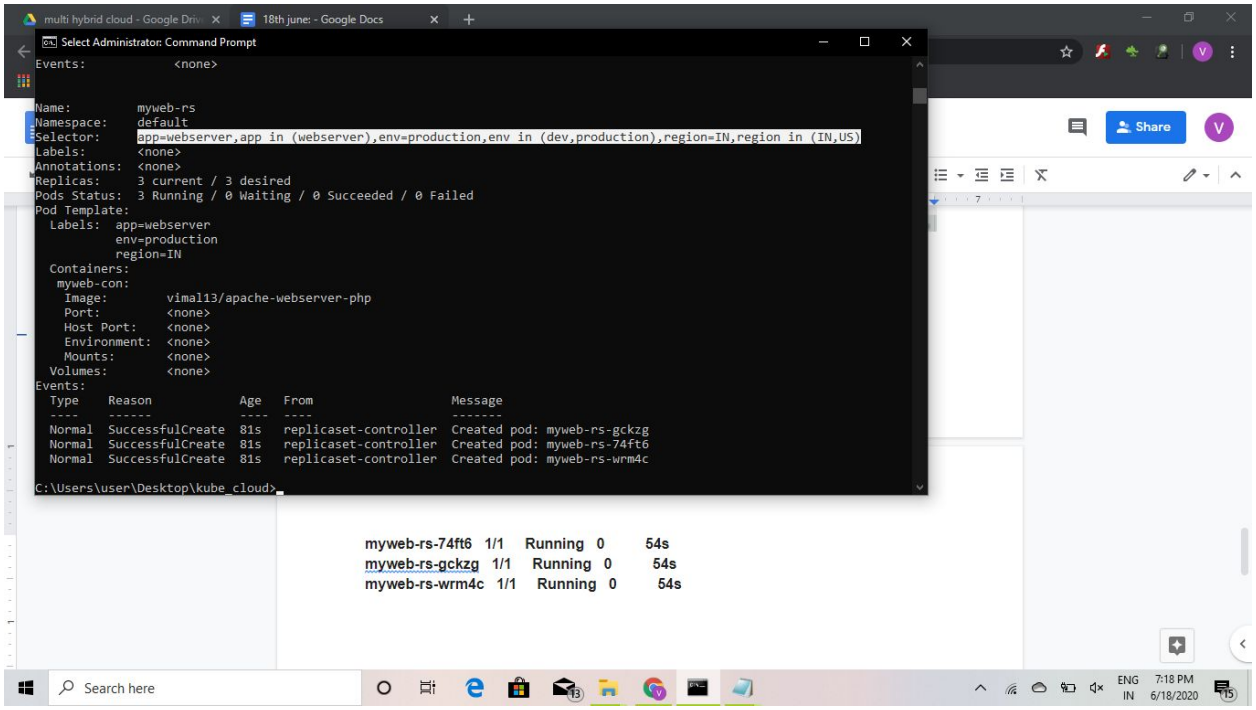



C:\Users\user\Desktop\kube_cloud>kubectl create -f rs1.yml
replicaset.apps/myweb-rs created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME READY STATUS RESTARTS AGE

```
myweb-rs-74ft6   1/1     Running   0          54s
myweb-rs-gckzg   1/1     Running   0          54s
myweb-rs-wrm4c   1/1     Running   0          54s
C:\Users\user\Desktop\kube_cloud>kubectl describe all
Name:         myweb-rs-74ft6
Namespace:    default
Priority:     0
Node:         minikube/192.168.99.100
Start Time:   Thu, 18 Jun 2020 19:17:16 +0530
Labels:       app=webserver
              env=production
              region=IN
Annotations:  <none>
Status:       Running
IP:           172.17.0.8
C:\Users\user\Desktop\kube_cloud>kubectl get pods --show-labels --selector
"app=webserver,app in (webserver),env=production,env in
(dev,production),region=IN,region in (IN,US)"
NAME            READY   STATUS    RESTARTS   AGE    LABELS
myweb-rs-74ft6   1/1     Running   0          2m4s
app=webserver,env=production,region=IN
myweb-rs-gckzg   1/1     Running   0          2m4s
app=webserver,env=production,region=IN
myweb-rs-wrm4c   1/1     Running   0          2m4s
app=webserver,env=production,region=IN
```




**1st all means rs,rc,pods**

**And 2nd all means all the names**

C:\Users\user\Desktop\kube_cloud>kubectl delete all --all
pod "myweb-rs-74ft6" deleted
pod "myweb-rs-gckzg" deleted
pod "myweb-rs-wrm4c" deleted
service "kubernetes" deleted
replicaset.apps "myweb-rs" deleted

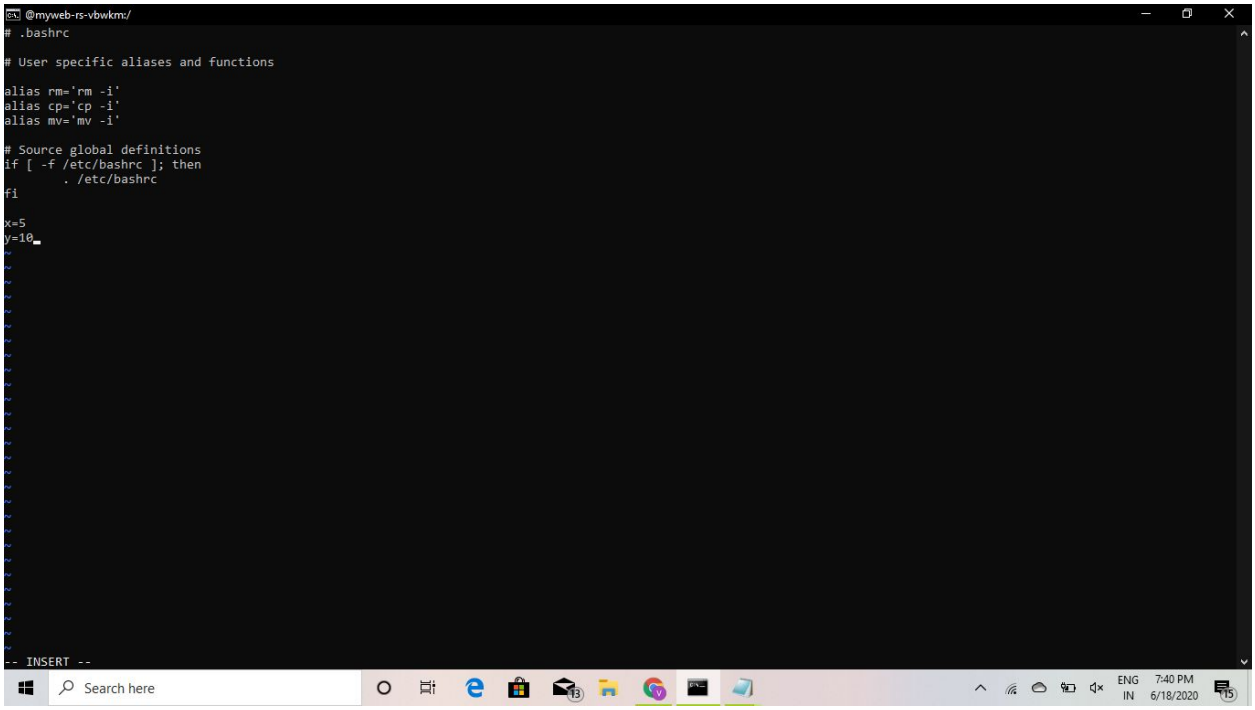
C:\Users\user\Desktop\kube_cloud>kubectl create -f pod1.yml
pod/mypod1 created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME READY STATUS RESTARTS AGE
mypod1 0/1 ContainerCreating 0 4s
C:\Users\user\Desktop\kube_cloud>kubectl exec -it mypod1 bash
kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl kubectl exec [POD] -- [COMMAND] instead.
[root@mypod1 /]# ls
anaconda-post.log boot etc lib lost+found mnt proc run srv tmp var
bin dev home lib64 media opt root sbin sys usr
[root@mypod1 /]# cd /var/www/html

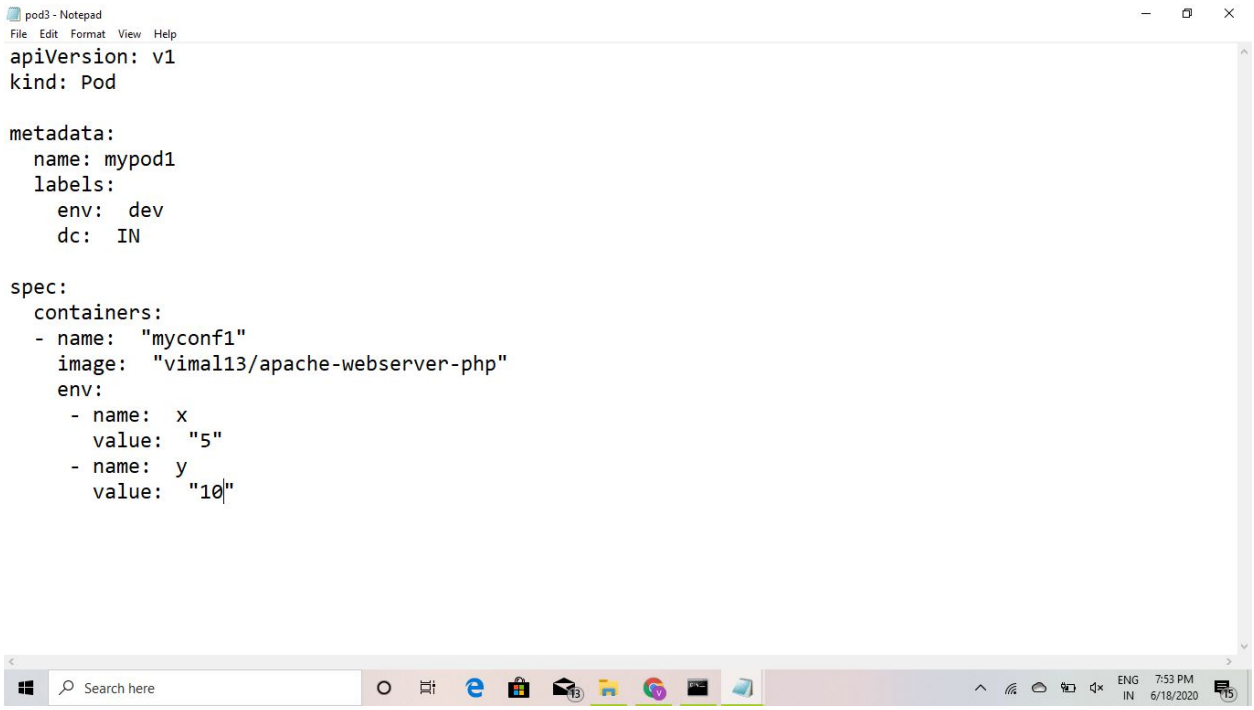
```
[root@mypod1 html]# ls
index.php
[root@mypod1 html]# cat index.php
<body bgcolor='aqua'>
<pre>

<?php

print "welcome to vimal web server for testing";


print `ifconfig`;

?>

</pre>
[root@mypod1 html]# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 172.17.0.6  netmask 255.255.0.0  broadcast 172.17.255.255
        ether 02:42:ac:11:00:06  txqueuelen 0  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
C:\Users\user\Desktop\kube_cloud>kubectl describe pods
Name:         mypod1
Namespace:    default
Priority:     0
Node:         minikube/192.168.99.100
Start Time:   Thu, 18 Jun 2020 19:21:46 +0530
Labels:       dc=IN
```

```
              env=dev
Annotations:  <none>
Status:       Running
IP:           172.17.0.6
IPs:
  IP:  172.17.0.6
Containers:
  myconf1:
    Container ID:
docker://3753e1156500f8d2daf89cab7265908076f9218da433bd7abdc4767e454f0d8f
    Image:          vimal13/apache-webserver-php
    Image ID:
docker-pullable://vimal13/apache-webserver-php@sha256:faed0a5afaf9f04b6915d73f7
247f6f5a71db9274ca44118d38f4601c0080a91
C:\Users\user\Desktop\kube_cloud>kubectl create -f pod2.yml
pod/mypod2 created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME     READY   STATUS              RESTARTS   AGE
mypod1   1/1     Running             0          8m25s
mypod2   0/1     ContainerCreating   0          5s
C:\Users\user\Desktop\kube_cloud>kubectl exec -it mypod2 bash
kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future
version. Use kubectl kubectl exec [POD] -- [COMMAND] instead.
[root@mypod2 /]# ping 172.17.0.6
PING 172.17.0.6 (172.17.0.6) 56(84) bytes of data.
64 bytes from 172.17.0.6: icmp_seq=1 ttl=64 time=0.175 ms
64 bytes from 172.17.0.6: icmp_seq=2 ttl=64 time=0.064 ms
^C
--- 172.17.0.6 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.064/0.119/0.175/0.056 ms
C:\Users\user\Desktop\kube_cloud>kubectl exec -it mypod2 bash
kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future
version. Use kubectl kubectl exec [POD] -- [COMMAND] instead.
[root@mypod2 /]# ping mypod1
ping: mypod1: Name or service not known
C:\Users\user\Desktop\kube_cloud>kubectl delete all --all
pod "mypod1" deleted
```

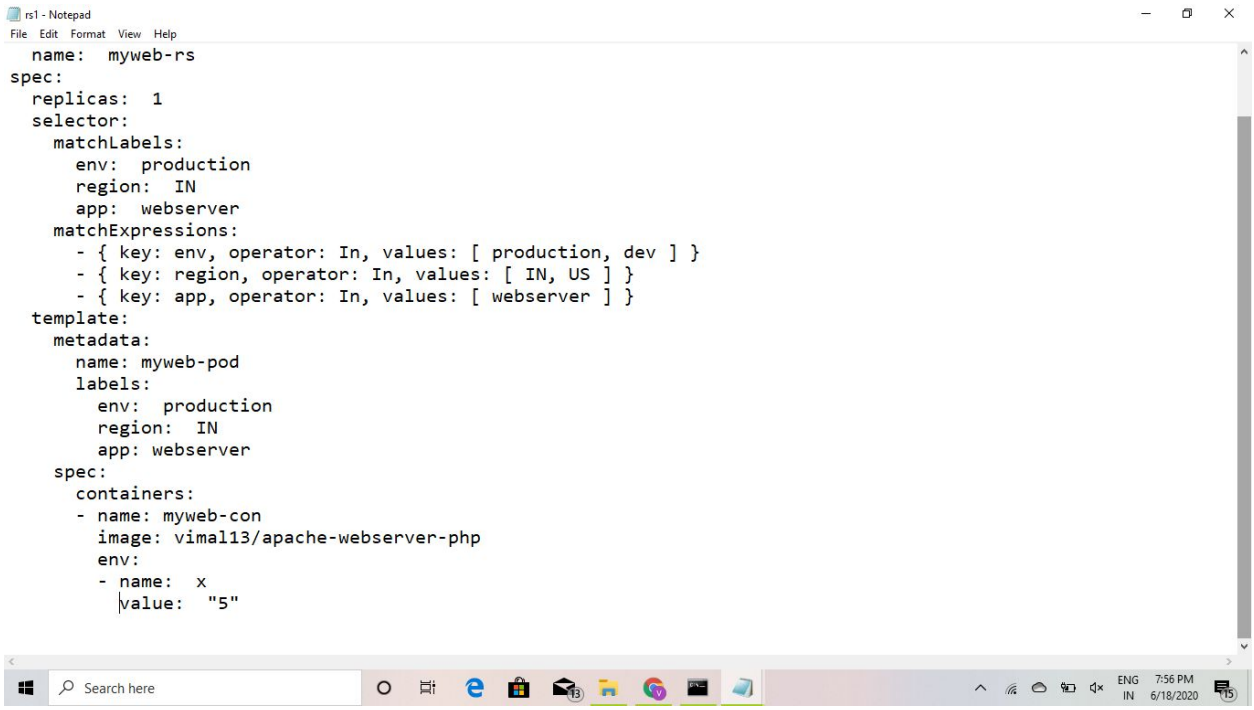
```
pod "mypod2" deleted
service "kubernetes" deleted

C:\Users\user\Desktop\kube_cloud>kubectl create -f rs1.yml
replicaset.apps/myweb-rs created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME            READY   STATUS              RESTARTS   AGE
myweb-rs-vbwkm   0/1     ContainerCreating   0          5s

C:\Users\user\Desktop\kube_cloud>kubectl exec -it myweb-rs-vbwkm -- bash
[root@myweb-rs-vbwkm /]# x=5
[root@myweb-rs-vbwkm /]# echo $x
5
[root@myweb-rs-vbwkm /]# exit
exit

C:\Users\user\Desktop\kube_cloud>kubectl exec -it myweb-rs-vbwkm -- bash
[root@myweb-rs-vbwkm /]# echo $x

C:\Users\user\Desktop\kube_cloud>kubectl exec -it myweb-rs-vbwkm -- bash
[root@myweb-rs-vbwkm /]# echo $x

[root@myweb-rs-vbwkm /]# vi root/.bashrc
[root@myweb-rs-vbwkm /]# echo $x

[root@myweb-rs-vbwkm /]# echo $y

[root@myweb-rs-vbwkm /]# vi root/.bashrc
[root@myweb-rs-vbwkm /]# echo $x

[root@myweb-rs-vbwkm /]# exit
exit

C:\Users\user\Desktop\kube_cloud>kubectl exec -it myweb-rs-vbwkm -- bash
[root@myweb-rs-vbwkm /]# echo $x
5
```



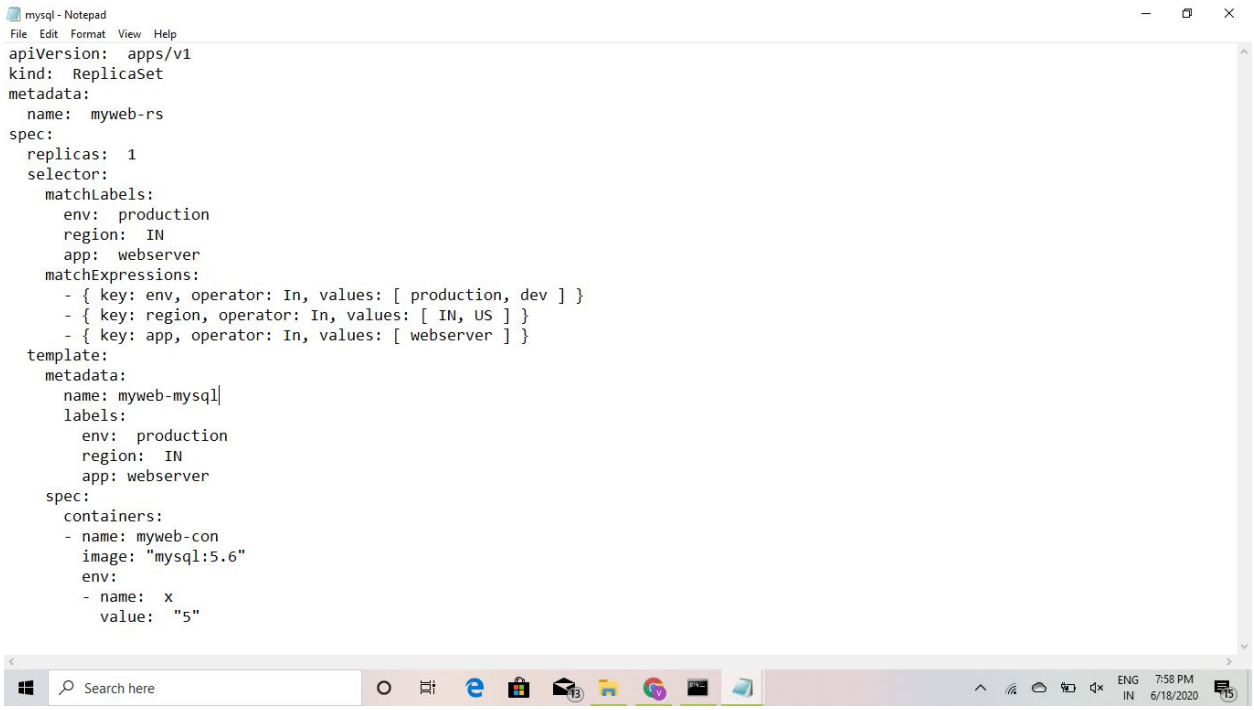

```
C:\Users\user\Desktop\kube_cloud>kubectl create -f rs1.yml
replicaset.apps/myweb-rs created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME            READY   STATUS              RESTARTS   AGE
myweb-rs-qqvdh   0/1     ContainerCreating   0          5s

C:\Users\user\Desktop\kube_cloud>kubectl exec -it myweb-rs-qqvdh -- bash
[root@myweb-rs-qqvdh /]# echo $c

[root@myweb-rs-qqvdh /]# echo $x

C:\Users\user\Desktop\kube_cloud>kubectl create -f pod3.yml
pod/mypod1 created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME     READY   STATUS    RESTARTS   AGE
mypod1   1/1     Running   0          6s

C:\Users\user\Desktop\kube_cloud>kubectl delete all --all
pod "mypod1" deleted
service "kubernetes" deleted
```




```
C:\Users\user\Desktop\kube_cloud>kubectl create -f pod3.yml
pod/mypod1 created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME     READY   STATUS    RESTARTS   AGE
mypod1   1/1     Running   0          12s

C:\Users\user\Desktop\kube_cloud>kubectl exec -it mypod1 -- bash
e[root@mypod1 /]# echo $x
5
```




```
C:\Users\user\Desktop\kube_cloud>kubectl create -f rs1.yml
replicaset.apps/myweb-rs created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME          READY   STATUS              RESTARTS   AGE
myweb-rs-9v2cg   0/1     ContainerCreating   0          4s

C:\Users\user\Desktop\kube_cloud>kubectl exec -it myweb-rs-9v2cg -- bash
[root@myweb-rs-9v2cg /]# echo $x
5
```




```
C:\Users\user\Desktop\kube_cloud>kubectl create -f mysql.yml
replicaset.apps/myweb-rs created

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME          READY   STATUS              RESTARTS   AGE
myweb-rs-hgfmx   0/1     ContainerCreating   0          2s

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME          READY   STATUS              RESTARTS   AGE
myweb-rs-hgfmx   0/1     ContainerCreating   0          7s

C:\Users\user\Desktop\kube_cloud>kubectl get all
NAME              READY   STATUS              RESTARTS   AGE
pod/myweb-rs-hgfmx   0/1     ContainerCreating   0          16s

NAME              TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
service/kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   28s

NAME                    DESIRED   CURRENT   READY   AGE
replicaset.apps/myweb-rs   1         1         0       16s

C:\Users\user\Desktop\kube_cloud>kubectl logs pod/myweb-rs-hgfmx
```

```
2020-06-18 14:30:57+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server
5.6.48-1debian9 started.
2020-06-18 14:30:57+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2020-06-18 14:30:57+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server
5.6.48-1debian9 started.
2020-06-18 14:30:57+00:00 [ERROR] [Entrypoint]: Database is uninitialized and
password option is not specified
        You need to specify one of MYSQL_ROOT_PASSWORD,
MYSQL_ALLOW_EMPTY_PASSWORD and MYSQL_RANDOM_ROOT_PASSWORD
root@myweb-rs-tjvz4:/# mysql -u root -predhat
Warning: Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5
Server version: 5.6.48 MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
+--------------------+
3 rows in set (0.00 sec)
C:\Users\user\Desktop\kube_cloud>kubectl delete all --all
pod "myweb-rs-tjvz4" deleted
service "kubernetes" deleted
replicaset.apps "myweb-rs" deleted

C:\Users\user\Desktop\kube_cloud>kubectl create -f mysql.yml
replicaset.apps/myweb-rs created
```

```
C:\Users\user\Desktop\kube_cloud>kubectl get all
NAME                 READY   STATUS    RESTARTS   AGE
pod/myweb-rs-8vlzp   1/1     Running   0          4s

NAME                 TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
service/kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   13s

NAME                       DESIRED   CURRENT   READY   AGE
replicaset.apps/myweb-rs   1         1         1       4s

C:\Users\user\Desktop\kube_cloud>kubectl exec -it pod/myweb-rs-8vlzp -- bash
root@myweb-rs-8vlzp:/# mysql -u root -predhat
Warning: Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 1
Server version: 5.6.48 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
+--------------------+
3 rows in set (0.00 sec)
```
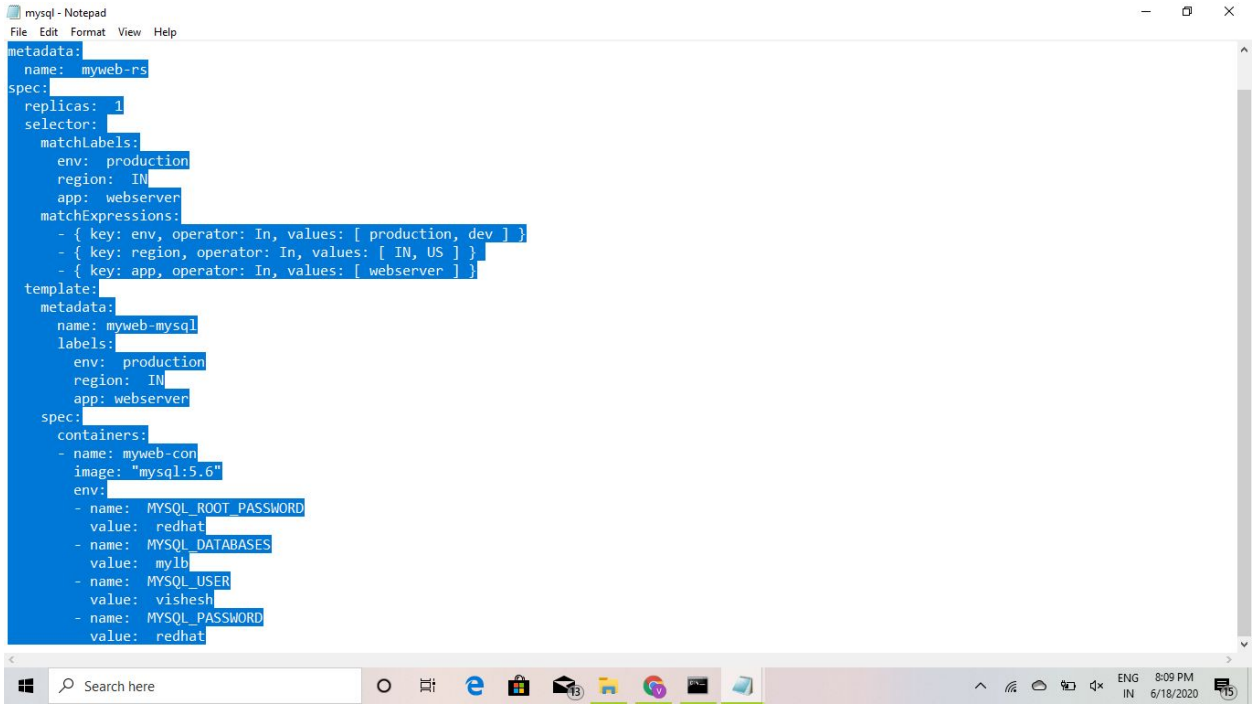
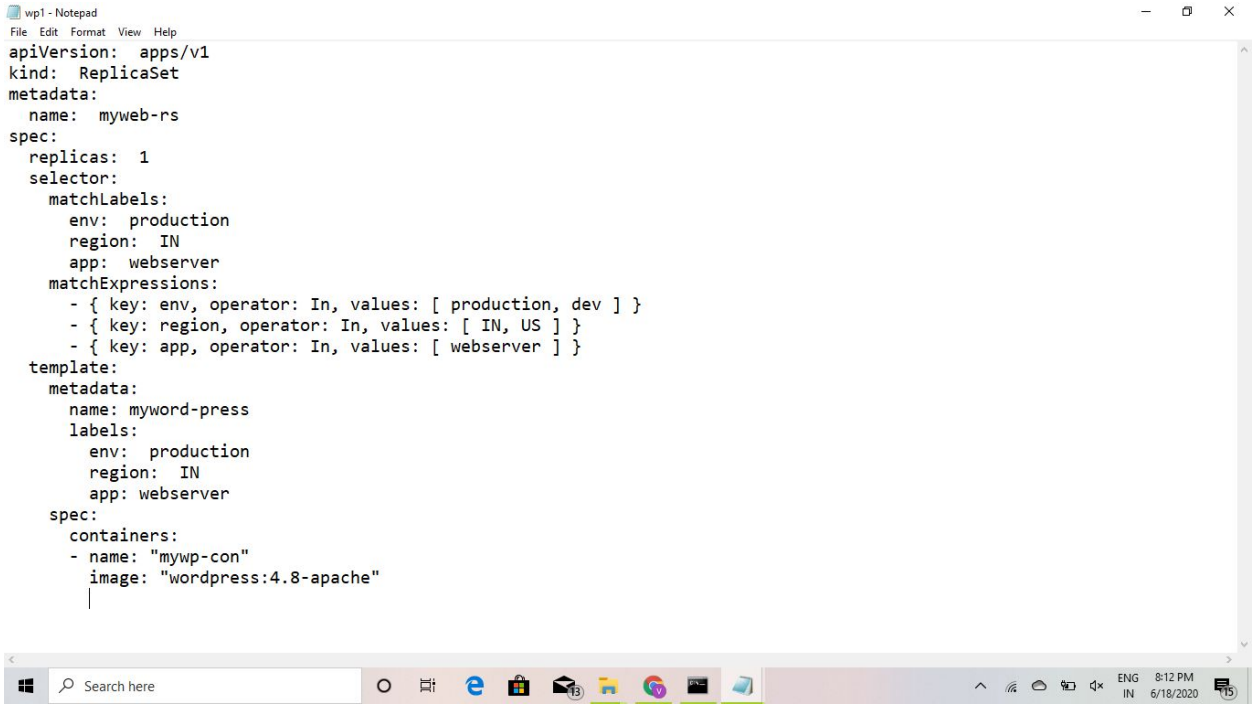
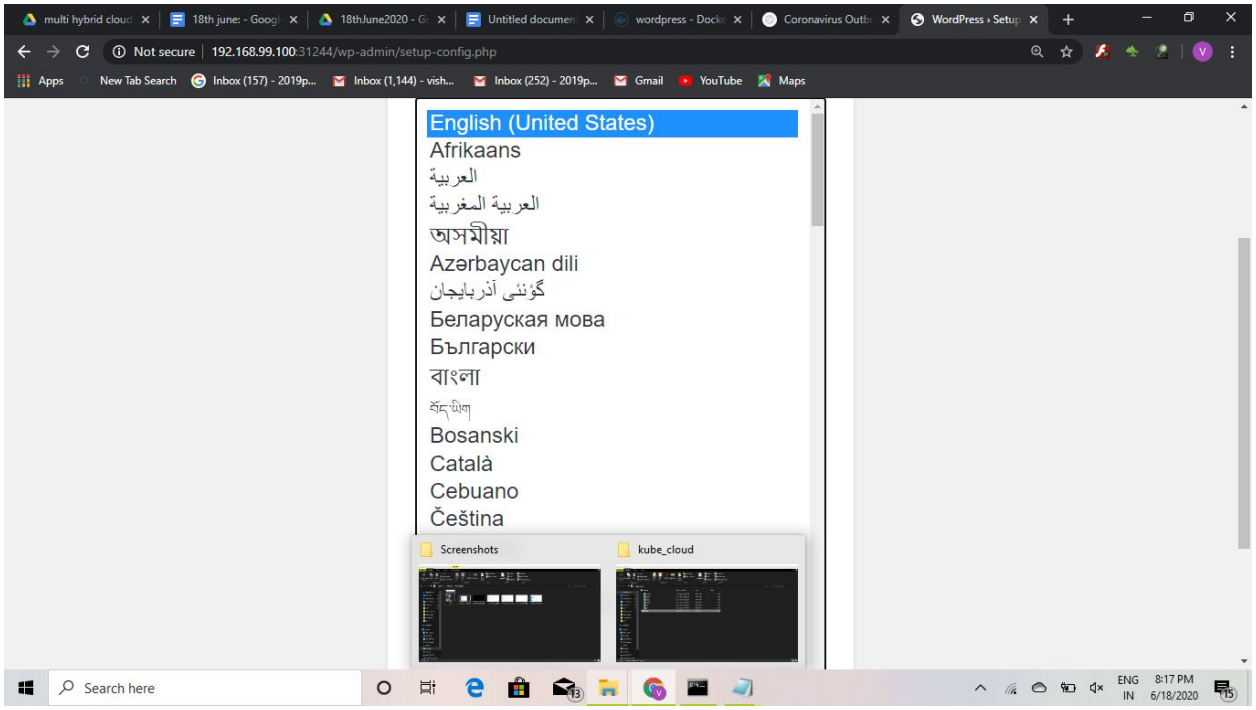




```
C:\Users\user\Desktop\kube_cloud>kubectl create -f wp1.yml
replicaset.apps/myweb-rs created

C:\Users\user\Desktop\kube_cloud>kubectl get all
NAME                READY   STATUS              RESTARTS   AGE
pod/myweb-rs-6kn9l  0/1     ContainerCreating   0          3s
```

```
NAME                 TYPE       CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
service/kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   114s

NAME                    DESIRED   CURRENT   READY   AGE
replicaset.apps/myweb-rs   1         1         0       3s
C:\Users\user\Desktop\kube_cloud>kubectl expose pods myweb-rs-6kn9l
--type=NodePort --port 80
service/myweb-rs-6kn9l exposed

C:\Users\user\Desktop\kube_cloud>kubectl get all
NAME                 READY   STATUS    RESTARTS   AGE
pod/myweb-rs-6kn9l   1/1     Running   0          3m9s

NAME                    TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)        AGE
service/kubernetes      ClusterIP   10.96.0.1        <none>        443/TCP        5m
service/myweb-rs-6kn9l   NodePort    10.107.107.120   <none>        80:31244/TCP   5s

NAME                    DESIRED   CURRENT   READY   AGE
replicaset.apps/myweb-rs   1         1         1       3m9s
```


multi hybrid cloud
18th june: - Googl
18thJune2020 - G
Untitled documen
wordpress - Docke
Coronavirus Outbr
WordPress › Setup
Not secure
192.168.99.100:31244/wp-admin/setup-config.php
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
English (United States)
Afrikaans
العربية
العربية المغربية
অসমীয়া
Azərbaycan dili
گؤنئی آذربایجان
Беларуская мова
Български
বাংলা
Bosanski
Català
Cebuano
Čeština
Screenshots
kube_cloud
Search here
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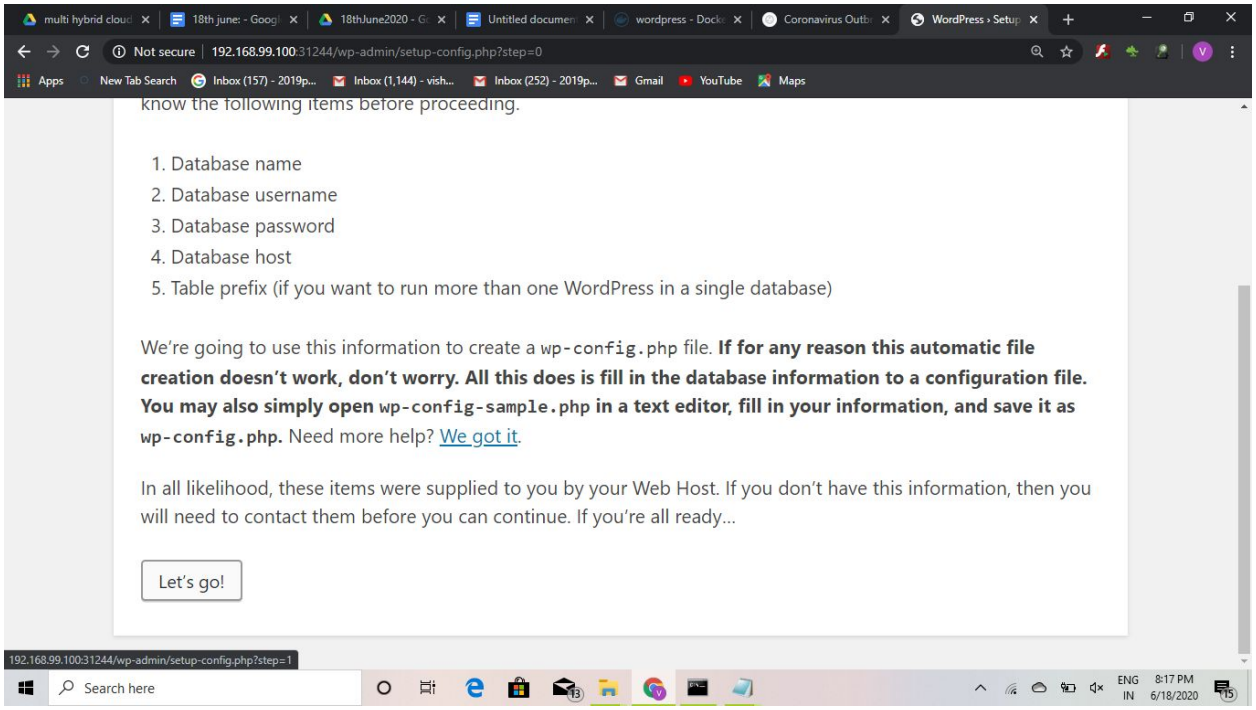
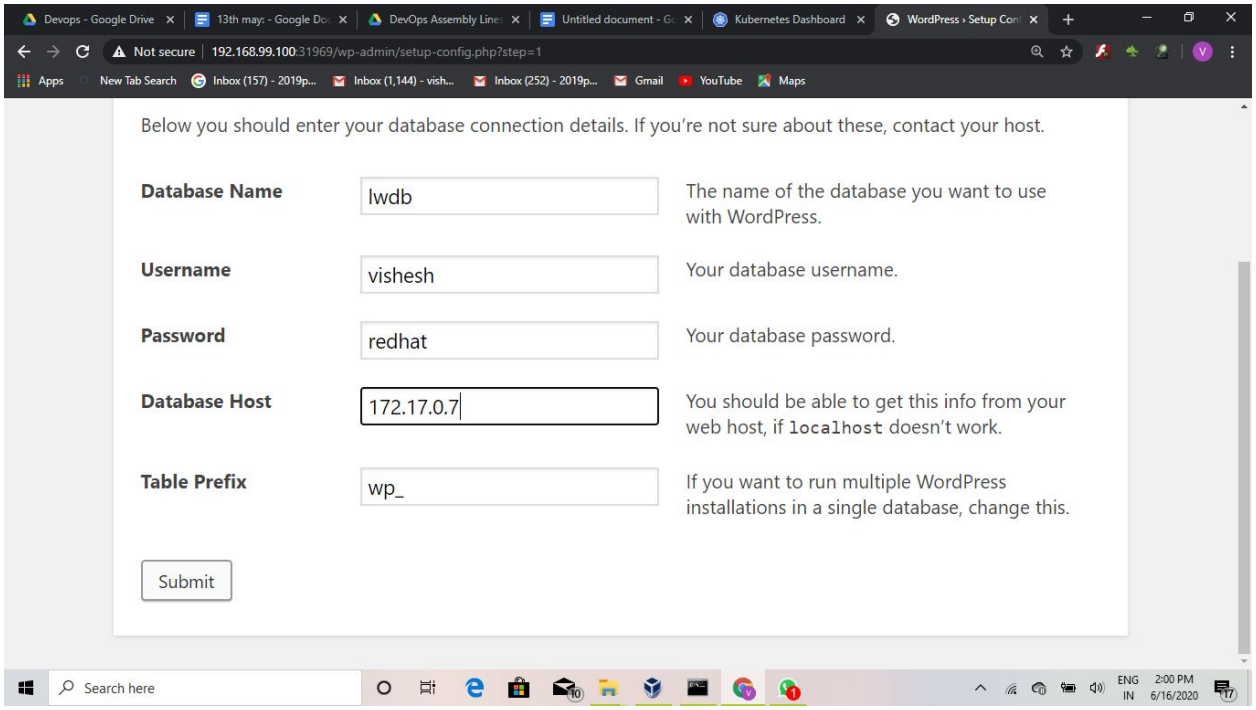
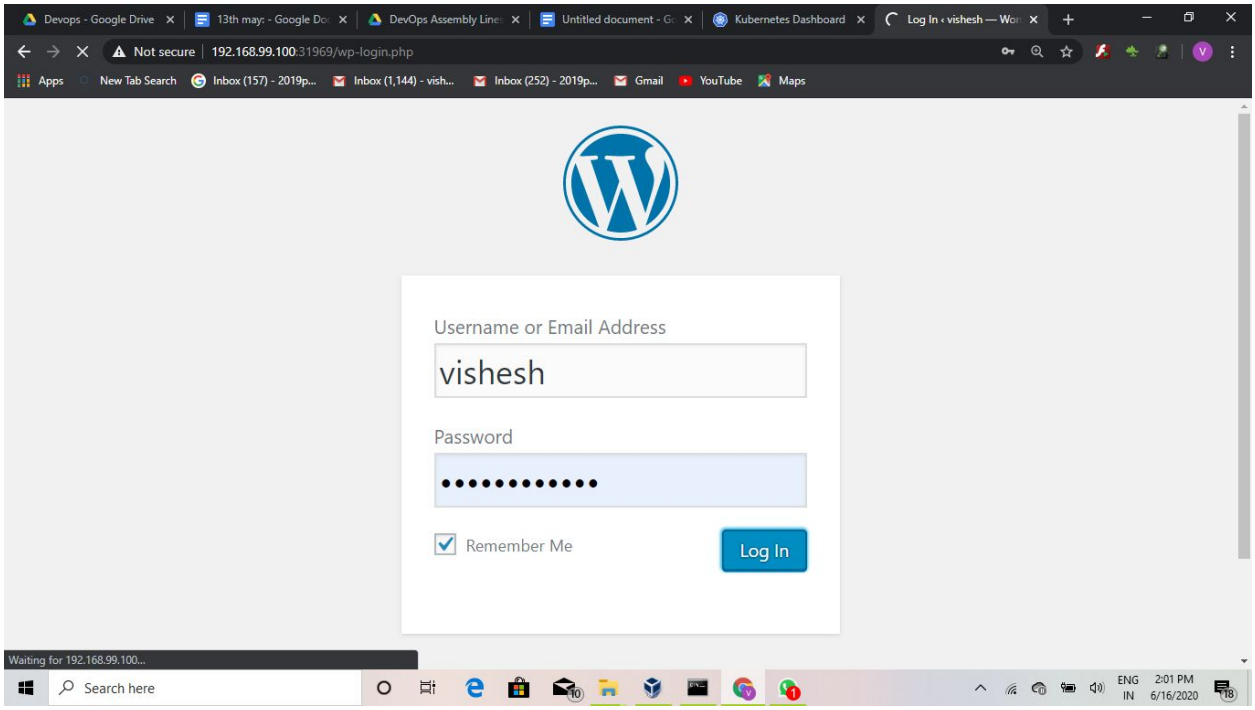
6/18/2020

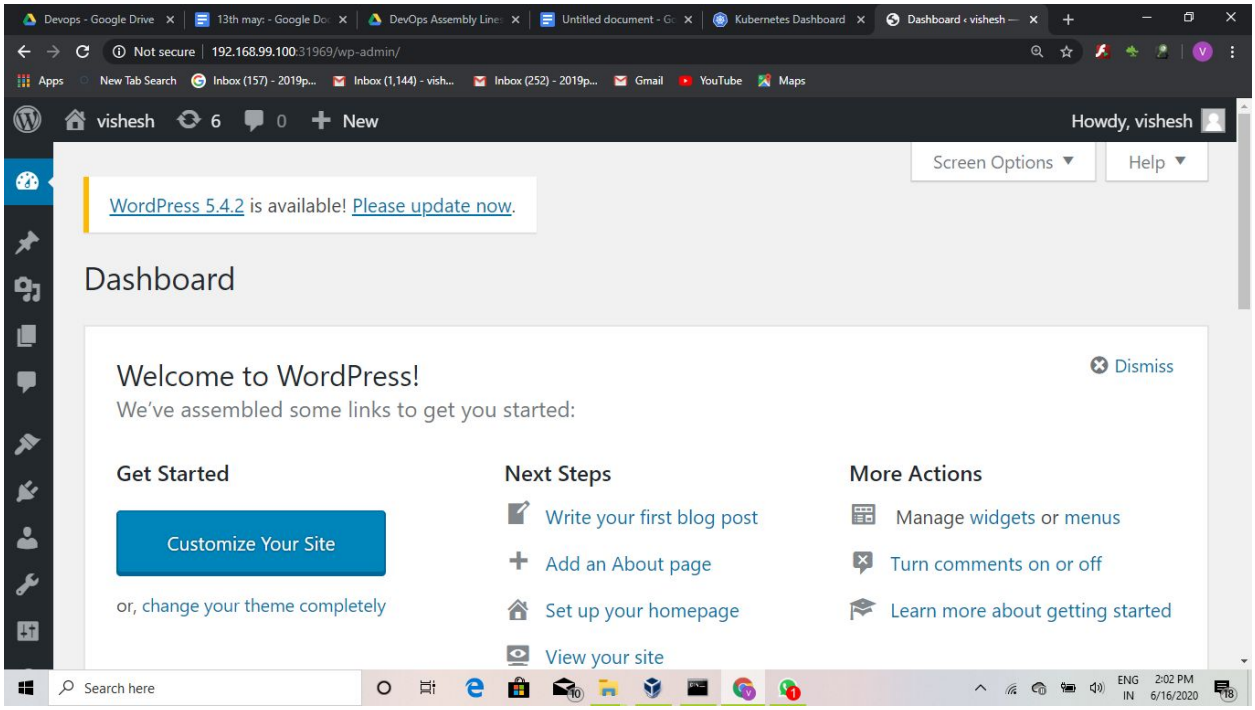

multi hybrid cloud
18th june: - Googl
18thJune2020 - G
Untitled documen
wordpress - Docke
Coronavirus Outbr
WordPress › Setup
Not secure
192.168.99.100:31244/wp-admin/setup-config.php?step=0
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
know the following items before proceeding.
1. Database name
2. Database username
3. Database password
4. Database host
5. Table prefix (if you want to run more than one WordPress in a single database)
We're going to use this information to create a wp-config.php file. If for any reason this automatic file creation doesn't work, don't worry. All this does is fill in the database information to a configuration file. You may also simply open wp-config-sample.php in a text editor, fill in your information, and save it as wp-config.php. Need more help? We got it.
In all likelihood, these items were supplied to you by your Web Host. If you don't have this information, then you will need to contact them before you can continue. If you're all ready...
Let's go!
192.168.99.100:31244/wp-admin/setup-config.php?step=1
Search here
ENG
IN
8:17 PM
6/18/2020

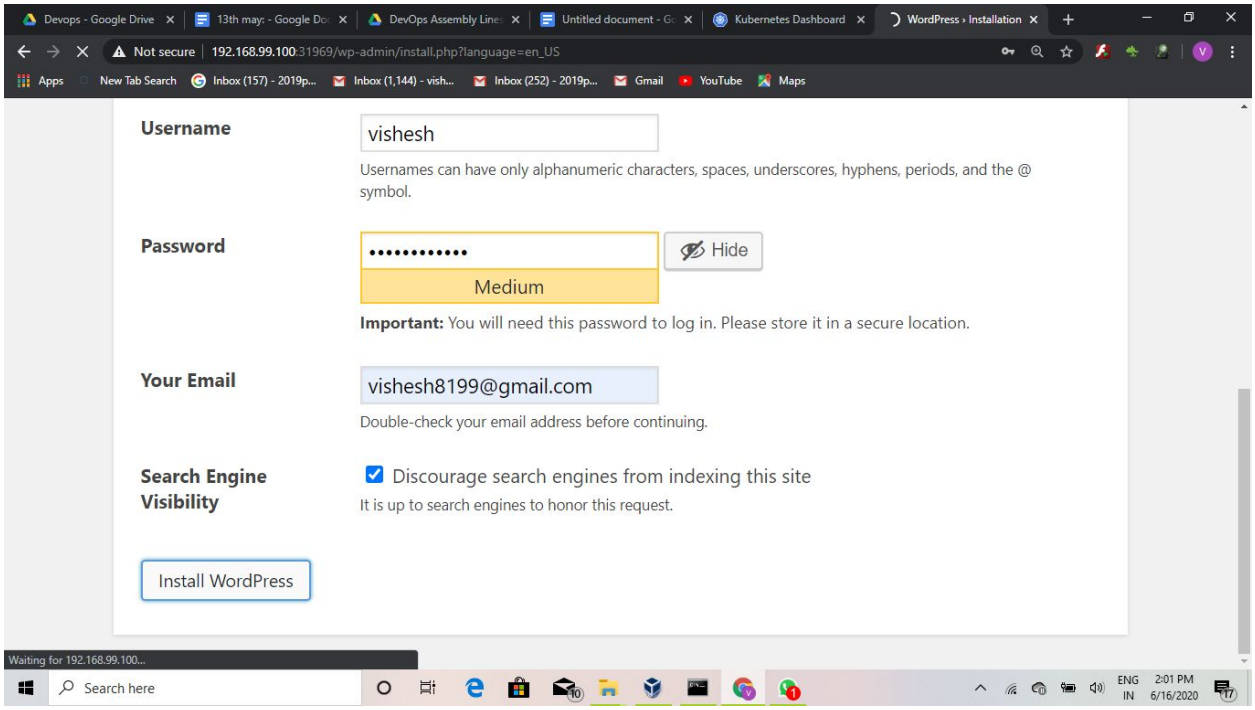



```
C:\Users\user\Desktop\kube_cloud>kubectl describe all
Name:         myweb-rs-6kn9l
Namespace:    default
Priority:     0
Node:         minikube/192.168.99.100
Start Time:   Thu, 18 Jun 2020 20:12:28 +0530
Labels:       app=webserver
              env=production
              region=IN
Annotations:  <none>
Status:       Running
IP:           172.17.0.6
IPs:
  IP:           172.17.0.6
Controlled By:  ReplicaSet/myweb-rs
Containers:
  mywp-con:
    Container ID:
docker://9dc2d4a7d95ab784537bf290709de2bbfb895cc2e786dd4dc930cd4495601689
    Image:          wordpress:4.8-apache
    Image ID:
docker-pullable://wordpress@sha256:6216f64ab88fc51d311e38c7f69ca3f9aaba621492b4f1fa9
3ddf63093768845
    Port:           <none>
    Host Port:      <none>
```

State: Running
Started: Thu, 18 Jun 2020 20:13:22 +0530
Ready: True
Restart Count: 0
Environment: <none>
Mounts:
/var/run/secrets/kubernetes.io/servic


Not secure 192.168.99.100:31969/wp-login.php
Username or Email Address
vishesh
Password
Remember Me
Log In
Waiting for 192.168.99.100...
Search here


Not secure 192.168.99.100:31969/wp-admin/
vishesh 6 0 New
Howdy, vishesh
Screen Options
Help
WordPress 5.4.2 is available! Please update now.
Dashboard
Welcome to WordPress!
We've assembled some links to get you started:
Dismiss
Get Started
Customize Your Site
or, change your theme completely
Next Steps
Write your first blog post
Add an About page
Set up your homepage
View your site
More Actions
Manage widgets or menus
Turn comments on or off
Learn more about getting started
Search here


Devops - Google Drive
13th may: - Google Do
DevOps Assembly Line
Untitled document - G
Kubernetes Dashboard
WordPress › Installation
Not secure
192.168.99.100:31969/wp-admin/install.php?language=en_US
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
Username
vishesh
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
Password
Hide
Medium
Important: You will need this password to log in. Please store it in a secure location.
Your Email
vishesh8199@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.
Install WordPress
Waiting for 192.168.99.100...
Search here
ENG
IN
2:01 PM
6/16/2020