



↳ Instalación de 'minikube'

```
[carlos@hp01 ~]$ curl -Lo minikube https://storage.googleapis.com/minikube/releases/latest/minikube-linux-  
amd64 && chmod +x minikube
```

```
% Total % Received % Xferd Average Speed Time Time Time Current  
 Dload Upload Total Spent Left Speed  
100 38.2M 100 38.2M 0 0 825k 0 0:00:47 0:00:47 --:--:-- 910k
```

```
hp01 carlos # cp minikube /usr/local/bin && rm minikube
```

```
[carlos@hp01 ~]$ minikube start
```

```
☺ minikube v1.0.0 on linux (amd64)
```

```
📡 Downloading Kubernetes v1.14.0 images in the background ...
```

```
2019/04/29 12:08:08 Unable to read "/home/carlos/.docker/config.json": open /home/carlos/.docker/config.json: no  
such file or directory
```

```
2019/04/29 12:08:08 No matching credentials were found, falling back on anonymous
```

```
2019/04/29 12:08:08 Unable to read "/home/carlos/.docker/config.json": open /home/carlos/.docker/config.json: no  
such file or directory
```

```
2019/04/29 12:08:08 No matching credentials were found, falling back on anonymous
```

```
2019/04/29 12:08:08 Unable to read "/home/carlos/.docker/config.json": open /home/carlos/.docker/config.json: no  
such file or directory
```

```
🐉 Creating virtualbox VM (CPUs=2, Memory=2048MB, Disk=20000MB) ...
```

```
📦 Downloading Minikube ISO ...
```

```
142.88 MB / 142.88 MB [=====] 100.00% 0s
```

```
🌐 "minikube" IP address is 192.168.99.100
```

```
🐳 Configuring Docker as the container runtime ...
```

```
🐳 Version of container runtime is 18.06.2-ce
```

```
⏸ Waiting for image downloads to complete ...
```

```
🔧 Preparing Kubernetes environment ...
```

```
📦 Downloading kubeadm v1.14.0
```

```
📦 Downloading kubelet v1.14.0
```

```
🚚 Pulling images required by Kubernetes v1.14.0 ...
```

```
🚀 Launching Kubernetes v1.14.0 using kubeadm ...
```

```
⏸ Waiting for pods: apiserver proxy etcd scheduler controller dns
```

```
🔑 Configuring cluster permissions ...
```

```
👤 Verifying component health .....
```

```
❤️ kubectl is now configured to use "minikube"
```

```
💡 For best results, install kubectl: https://kubernetes.io/docs/tasks/tools/install-kubectl/
```

```
🎉 Done! Thank you for using minikube!
```

↳ Instalación de: 'kubernetes.repo' → kubectl

```
hp01 carlos # cat <<EOF > /etc/yum.repos.d/kubernetes.repo
```

```
[kubernetes]
```

```
name=Kubernetes
```

```
baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-x86_64
```

```
enabled=1
```

```
gpgcheck=1
```

```
repo_gpgcheck=1
```

```
gpgkey=https://packages.cloud.google.com/yum/doc/yum-key.gpg
```

```
https://packages.cloud.google.com/yum/doc/rpm-package-key.gpg
```

```
EOF
```

```
hp01 carlos # yum update -y
```

```
hp01 carlos # yum install kubectl -y
```

```
[carlos@hp01 ~]$ kubectl get all
```



```
NAME          TYPE          CLUSTER-IP  EXTERNAL-IP  PORT(S)  AGE
service/kubernetes  ClusterIP    10.96.0.1   <none>       443/TCP  1m
```

```
[carlos@hp01 ~]$ kubectl cluster-info
```

```
Kubernetes master is running at https://192.168.99.100:8443
```

```
KubeDNS is running at https://192.168.99.100:8443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy
```

```
To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
```

↘ Instalación de: 'bash-completion' → 'kubectl'

```
[carlos@hp01 ~]$ kubectl completion bash
```

```
[carlos@hp01 ~]$ type _init_completion
```

```
[carlos@hp01 ~]$ echo 'source < (kubectl completion bash)' >> ~/.bashrc
```

```
hp01 carlos # kubectl completion bash >/etc/bash_completion.d/kubectl
```

```
[carlos@hp01 ~]$ minikube status
```

```
host: Running
```

```
kubelet: Running
```

```
apiserver: Running
```

```
kubectl: Correctly Configured: pointing to minikube-vm at 192.168.99.100
```

```
[carlos@hp01 ~]$ kubectl config get-contexts
```

```
CURRENT NAME    CLUSTER  AUTHINFO  NAMESPACE
```

```
*      minikube  minikube  minikube
```

↘ Instalación de 'k8-for-devs' de: Pablo Chico → 'OpenWebinars':

```
carlos@hp01 ~ $ git clone https://github.com/pchico83/k8-for-devs.git
```

```
Cloning into 'k8-for-devs'...
```

```
remote: Enumerating objects: 15, done.
```

```
remote: Counting objects: 100% (15/15), done.
```

```
remote: Compressing objects: 100% (11/11), done.
```

```
remote: Total 92 (delta 3), reused 10 (delta 3), pack-reused 77
```

```
Unpacking objects: 100% (92/92), done.
```

```
carlos@hp01 ~ $ cd k8-for-devs/
```

```
carlos@hp01 ~/k8-for-devs $ ls
```

```
deployments dev healthchecks images ingress labels LICENSE namespaces pods README.md replica-sets
```

```
secrets services voting-app
```

```
carlos@hp01 ~/k8-for-devs $ cd voting-app/
```

```
carlos@hp01 ~/k8-for-devs/voting-app $ kubectl apply -f .
```

```
deployment.extensions/db created
```

```
service/db created
```

```
deployment.extensions/redis created
```

```
service/redis created
```

```
deployment.extensions/result created
```

```
service/result created
```

```
deployment.extensions/vote created
```

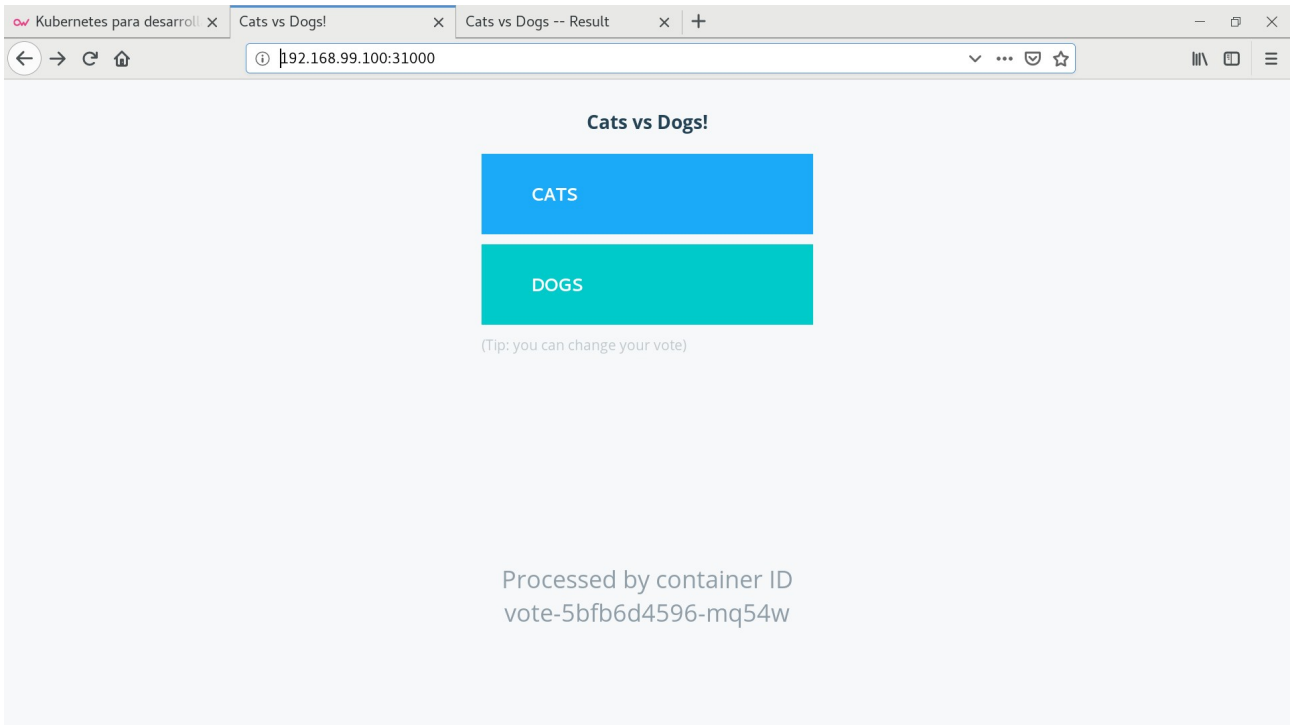
```
service/vote created
```

```
deployment.extensions/worker created
```

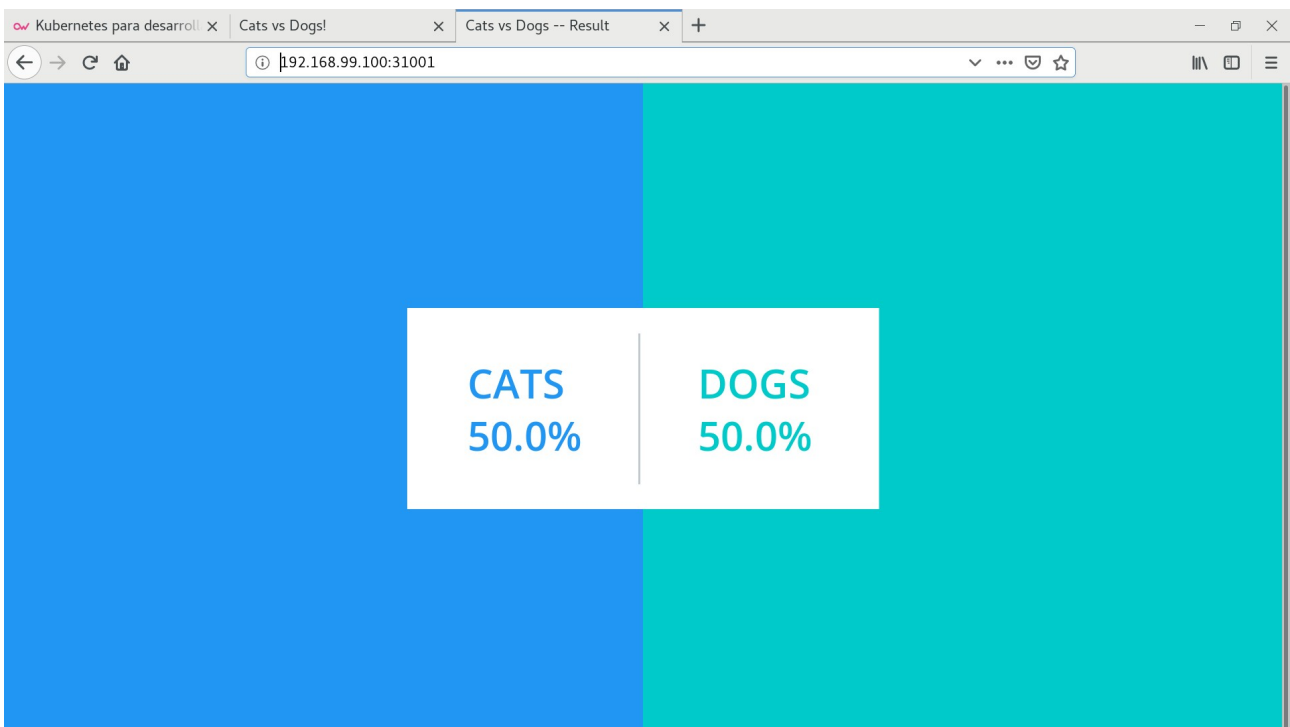
```
carlos@hp01 ~/k8-for-devs/voting-app $ minikube ip
```

```
192.168.99.100
```

```
http://192.168.99.100:31000/
```



<http://192.168.99.100:31001/>



carlos@hp01 ~/k8-for-devs/voting-app \$ kubectl get services



```
NAME      TYPE      CLUSTER-IP  EXTERNAL-IP  PORT(S)    AGE
db        ClusterIP 10.105.0.244 <none>       5432/TCP   14m
kubernetes ClusterIP 10.96.0.1    <none>       443/TCP    14h
redis     ClusterIP 10.105.94.178 <none>       6379/TCP   14m
result    NodePort   10.97.1.140  <none>       5001:31001/TCP 14m
vote      NodePort   10.109.11.170 <none>       5000:31000/TCP 14m
```

```
carlos@hp01 ~/k8-for-devs/voting-app $ kubectl get nodes
```

```
NAME      STATUS  ROLES  AGE  VERSION
minikube  Ready  master 14h  v1.14.0
```

```
carlos@hp01 ~/k8-for-devs/voting-app $ kubectl get endpoints
```

```
NAME      ENDPOINTS          AGE
db        172.17.0.6:5432    15m
kubernetes 192.168.99.100:8443 14h
redis     172.17.0.8:6379    15m
result    172.17.0.4:80      15m
vote      172.17.0.5:80      15m
```



REFERENCIAS :

<https://kubernetes.io/docs/tasks/tools/install-minikube/>
<https://kubernetes.io/docs/tasks/tools/install-kubectl/>
<https://github.com/pchico83/k8-for-devs>

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