Name: Madhavi Suratkar

Topic: Kubernetes Commands

Date: 28-04-2023

Commands:

Command Prompt × + ×		_	o ×
C:\Users\surat>docker images			
REPOSITORY	TAG	IMAGE ID	CREATE
D SIZE			
boottest	latest	5eabe3dcfddf	43 hou
rs ago 511MB docker-compose-appservice	latest	0593be635245	43 hou
rs ago 511MB	tatest	007306030240	43 IIUu
<none></none>	<none></none>	79e5e48adf17	43 hou
rs ago 511MB			
mysql_db	latest	430dcff4822f	2 days
ago 564MB			
spring-boot-docker-new ago 545MB	latest	7ca96975ea9f	3 days
spring-boot-docker	latest	567769be5726	3 days
ago 545MB			5 days
docker-spring-boot	latest	aa049a703082	3 days
ago 545MB			
helloapp	latest	a12911a4c715	3 days
ago 67.4MB mysql	5.7	dd6675b5cfea	10 day
s ago 569MB	5.7	иинно / эрэстеа	10 day
mysql	latest	8189e588b0e8	10 day
s ago 564MB			
python	latest	4665a951a37e	2 week
s ago 921MB			
madhavisuratkar/deployment	tag-1	4665a951a37e	2 week
s ago 921MB gcr.io/k8s-minikube/kicbase	v0.0.39	67a4b1138d2d	3 week
s ago 1.05GB	40.0.39	0/4401130424	J WEEK
openjdk	latest	71260f256d19	2 mont
hs ago 470MB			
docker/getting-started	latest	3e4394f6b72f	4 mont
hs ago 47MB hubproxy.docker.internal:5555/docker/desktop-kubernetes	kubernetes-v1.25.4-cni-v1.1.1-critools-v1.25.0-cri-dockerd-v0.2.6-1-debian	2511-1706-74	
hs ago 398MB	Rubernetes-V1.25.4-Cn1-V1.1.1-Cr1toots-V1.25.0-Cr1-dockerd-V0.2.6-1-deblan	2511e1796e7d	4 mont
registry.k8s.io/kube-apiserver	v1.25.4	00631e54acba	5 mont
hs ago 128MB			
registry.k8s.io/kube-proxy	v1.25.4	2c2bc1864279	5 mont
hs ago 61.7MB			

```
Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

C:\Users\surat\kubectl config view
ap\Version: Y.
clusters:
- cluster:
- certificate-authority-data: DATA+OMITTED
server: https://kubernetes.docker.internal:6443
name: docker-desktop
- cluster:
- extensions:
- extensions:
- extensions:
- extensions:
- extensions:
- extensions:
- extension:
- last-update: Thu, 27 Apr 2023 07:35:09 IST
provider: minitube.sigs.k8s.io
version: V1.30:1
name: cluster_info
server: https://127.0.0.1:60600
name: minitube
contexts:
- context:
- cluster: docker-desktop
user: docker-desktop
name: docker-desktop
- context:
- cluster: minitube
extensions:
- extensions:
```

```
Command Prompt
Command Prompt
Command Prompt
C:\Osers\surser\docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/

C:\Users\surat>minikube start
* minikube v1.30.1 on Microsoft Windows 11 Home Single Language 10.0.22621.1555 Build 22621.1555
* Using the docker driver based on existing profile
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* Restarting existing docker container for "minikube" ...
* Preparing kubernetes v1.26.3 on Docker 23.0.2 ...
* Configuring bridge CNI (Container Networking Interface) ...
* Verifying Rubernetes components...
- Using image gcr.io/kBs-minikube/storage-provisioner:v5
- Using image docker.io/kubernetesui/dashboard:v2.7.0
- Using image docker.io/kubernetesui/dashboard:v2.7.0
- Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
* Some dashboard features require the metrics-server addon. To enable all features please run:

minikube addons enable metrics-server

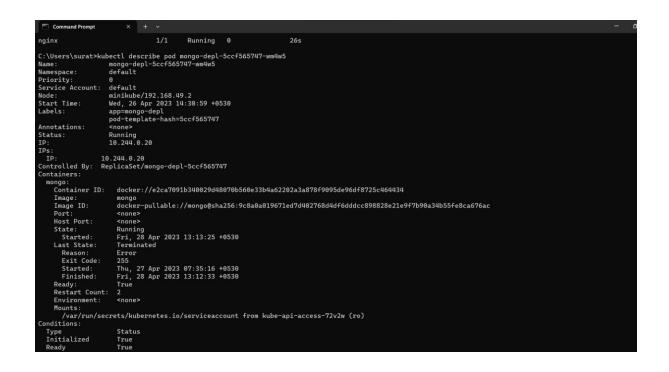
* Enabled addons: storage-provisioner, default-storageclass, dashboard
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
```

C:\Users\surat>kubectl get pods

NAME READY STATUS RESTARTS AGE

mongo-depl-5ccf565747-wm4w5 1/1 Running 2 (2m38s ago) 46h

Command Prompt C:\Users\surat>kubectl run nginx --image=nginx pod/nginx created C:\Users\surat>kubectl get pods READY STATUS RESTARTS mongo-depl-5ccf565747-wm4w5 1/1 0/1 2 (3m28s ago) 0 Running 46h ContainerCreating nginx 6s C:\Users\surat>





```
C:\Users\surat>kubectl describe pod mongo-depl-5ccf565747-wm4w5

Name: mongo-depl-5ccf565747-wm4w5

Namespace: default

Priority: 0

Service Account: default

Node: minikube/192.168.49.2

Start Time: Wed, 26 Apr 2023 14:30:59 +0530

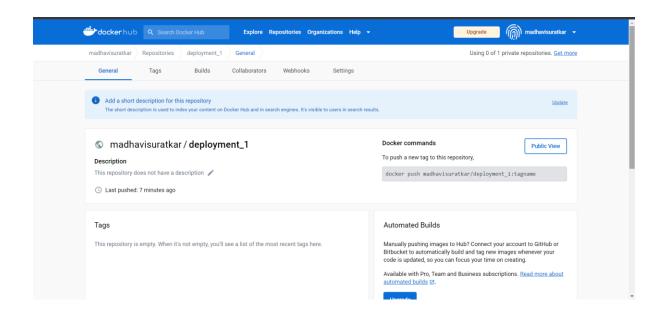
Labels: app=mongo-depl
                                 default
minikube/192.168.49.2
Wed, 26 Apr 2623 14:30:59 +0530
app=mongo-depl
pod-template-hash=5ccf565747
<none>
Running
10.244.0.20
 Annotations:
Status:
IP:
IP:
 IP: 10.244.0.20
Controlled By: ReplicaSet/mongo-depl-5ccf565747
 Containers:
    mongo:
Container ID:
                                    docker://e2ca7091b340029d48070b560e33b4a62202a3a878f9095de96df8725c464434
        Image:
Image ID:
Port:
Host Port:
                                    mongo
docker-pullable://mongo@sha256:9c8a0a019671ed7d402768d4df6dddcc898828e21e9f7b90a34b55fe8ca676ac
<none>
                                     <none>
                                     Running
Fri, 28 Apr 2023 13:13:25 +0530
Terminated
        State:
        Started:
Last State:
                                     Terminated
Error
255
Thu, 27 Apr 2023 07:35:16 +0530
Fri, 28 Apr 2023 13:12:33 +0530
True
           Reason:
Exit Code:
Started:
Finished:
        Ready:
Restart Count:
        Environment:
        Mounts:
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-72v2w (ro) Conditions:
```

C:\Users\surat>kubectl get service

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 2d

C:\Users\surat>

Repository Creation



C:\Users\surat>kubectl	get allall-namespaces								
NAMESPACE	NAME		READY	STATUS	RESTART	s i	AGE		
default	pod/mongo-depl-5ccf565747-wm4w5		1/1	Running	2 (28m	ago)	47h		
default	pod/nginx		1/1	Running	Θ		25m		
kube-system	pod/coredns-787d4945fb-7vbxd		1/1	Running	6 (28m	ago) :	2d		
kube-system	pod/etcd-minikube		1/1	Running	6 (28m	ago) :	2d		
kube-system	pod/kube-apiserver-minikube		1/1	Running	5 (28m	ago) :	2d		
kube-system	pod/kube-controller-manager-minikube	2	1/1	Running	6 (28m	ago) :	2d		
kube-system	pod/kube-proxy-6kf9w		1/1	Running	6 (28m	ago) :	2d		
kube-system	pod/kube-scheduler-minikube		1/1	Running	6 (28m	ago) :	2d		
kube-system	pod/storage-provisioner		1/1	Running	9 (27m		2d		
kubernetes-dashboard	pod/dashboard-metrics-scraper-5c6664	4855-cx6gw	1/1	Running	4 (28m	ago)	47h		
kubernetes-dashboard	pod/kubernetes-dashboard-55c4cbbc7c-	-h42d7	1/1	Running	4 (28m	ago)	47h		
NAMESPACE	NAME		CLUSTER-		EXTERNAL-		RT(S)		AGE
default			10.96.0		<none></none>		3/TCP		2d
kube-system			10.96.0		<none></none>		/UDP,53/TCP,9153	3/TCP	2d
ubernetes-dashboard			10.107.		<none></none>		00/TCP		47h
kubernetes-dashboard	service/kubernetes-dashboard	ClusterIP	10.97.2	1.171	<none></none>	80,	/TCP		47h
NAMESPACE NAME	DESIRED CURRENT	T READY L	JP-TO-DA	F AVA	ILABLE N	ODE SELI	CTOD	AGE	
	t.apps/kube-proxy 1 1	1 READT (1			es.io/os=linux	2d	
abe system daemonse	c.apps/kabe proxy 1				, ,	uber ne ci	E3.10/03-C1110X	24	
NAMESPACE	NAME	REAL	OY UP-1	O-DATE	AVAILABL	E AGE			
default	deployment.apps/mongo-depl	1/1	1		1	47h			
ube-system	deployment.apps/coredns	1/1	1		1	2d			
ubernetes-dashboard	deployment.apps/dashboard-metrics-so	craper 1/1	1		1	47h			
kubernetes-dashboard	deployment.apps/kubernetes-dashboard	d 1/1	1		1	47h			
IAMESPACE	NAME			SIRED	CURRENT	READY	AGE		
lefault	replicaset.apps/mongo-depl-5ccf56574	47			1	1	47h		
kube-system	replicaset.apps/coredns-787d4945fb				1	1	2d		
kubernetes-dashboard	replicaset.apps/dashboard-metrics-so				1	1	47h		
kubernetes-dashboard	replicaset.apps/kubernetes-dashboard	d-55c4cbbc7c			1	1	47h		
C:\Users\surat>									

C:\Users\surat>kubectl get deployment NAME READY UP-TO-DATE AVAI mongo-depl 1/1 1 AVAILABLE 1 AGE 47h

C:\Users\surat>