

Name – Anup Kore

Topic – MiniKube Installation

Date – 27-04-2023

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Microsoft Windows [Version 10.0.19045.2846]
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C:\Users\LENOVO>kubectl create deployment test --image=spring-boot-app-for-compose
error: failed to create deployment: Post "https://127.0.0.1:55859/apis/apps/v1/namespaces/default/deployments?fieldManager=kubectl-create&fieldValidation=Strict": dial
tcp 127.0.0.1:55859: connectex: No connection could be made because the target machine actively refused it.

C:\Users\LENOVO>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
C:\Users\LENOVO>
C:\Users\LENOVO>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
e07127af8281   gcr.io/k8s-minikube/kicbase:v0.0.30   "/usr/local/bin/entr..."   4 hours ago    Up 14 seconds  127.0.0.1:61656->22/tcp, 127.0.0.1:61652->2376/tcp, 127.0.0.1:61654->5000/tcp, 127.0.0.1:61655->8443/tcp, 127.0.0.1:61653->32443/tcp   minikube

C:\Users\LENOVO>
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tcp 127.0.0.1:55859: connectex: No connection could be made because the target machine actively refused it.

C:\Users\LENOVO>
C:\Users\LENOVO>minikube start
* minikube v1.30.1 on Microsoft Windows 10 Pro 10.0.19045.2846 Build 19045.2846
* Using the docker driver based on existing profile
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* Updating the running docker "minikube" container ...
* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
* Configuring bridge CNI (Container Networking Interface) ...
* Verifying Kubernetes components...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: default-storageclass, storage-provisioner
* kubectl not found. If you need it, try: 'minikube kubectl -- get pods -A'
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

C:\Users\LENOVO>
```

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C:\Users\LENOVO>minikube
minikube provisions and manages local Kubernetes clusters optimized for development workflows.

Basic Commands:
start           Starts a local Kubernetes cluster
status          Gets the status of a local Kubernetes cluster
stop            Stops a running local Kubernetes cluster
delete          Deletes a local Kubernetes cluster
dashboard       Access the Kubernetes dashboard running within the minikube cluster
pause           pause Kubernetes
unpause         unpause Kubernetes

Images Commands:
docker-env      Provides instructions to point your terminal's docker-cli to the Docker Engine inside minikube.
(Useful for building docker images directly inside minikube)
podman-env      Configure environment to use minikube's Podman service
cache           Manage cache for images
image           Manage images

Configuration and Management Commands:
addons          Enable or disable a minikube addon
config          Modify persistent configuration values
profile         Get or list the current profiles (clusters)
update-context  Update kubeconfig in case of an IP or port change

Networking and Connectivity Commands:
service         Returns a URL to connect to a service
tunnel          Connect to LoadBalancer services

Advanced Commands:
mount           Mounts the specified directory into minikube
ssh             Log into the minikube environment (for debugging)
kubectl         Run a kubectl binary matching the cluster version
node            Add, remove, or list additional nodes
cp             Copy the specified file into minikube

Troubleshooting Commands:
ssh-key         Retrieve the ssh identity key path of the specified node
ssh-host        Retrieve the ssh host key of the specified node
ip             Retrieve the IP address of the specified node
logs            Returns logs to debug a local Kubernetes cluster
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Command Prompt

C:\Users\LENOVO>minikube version
minikube version: v1.30.1
commit: 08896fd1dc362c097c925146c4a0d0dac715ace0

C:\Users\LENOVO>minikube start
* minikube v1.30.1 on Microsoft Windows 10 Pro 10.0.19045.2846 Build 19045.2846
* Automatically selected the docker driver
* Using Docker Desktop driver with root privileges
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* Downloading Kubernetes v1.26.3 preload ...
  > preloaded-images-k8s-v18-v1...: 397.02 MiB / 397.02 MiB 100.00% 3.28 Mi
  > gcr.io/k8s-minikube/kicbase...: 373.53 MiB / 373.53 MiB 100.00% 2.45 Mi
* Creating docker container (CPUs=2, Memory=3000MB) ...
* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
  - Generating certificates and keys ...
  - Booting up control plane ...
  - Configuring RBAC rules ...
* Configuring bridge CNI (Container Networking Interface) ...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Verifying Kubernetes components...
* Enabled addons: default-storageclass, storage-provisioner
* kubectl not found. If you need it, try: "minikube kubectl -- get pods -A"
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

C:\Users\LENOVO>minikube kubectl
kubectl controls the Kubernetes cluster manager.

Find more information at: https://kubernetes.io/docs/reference/kubectl/

Basic Commands (Beginner):
create      Create a resource from a file or from stdin
expose      Take a replication controller, service, deployment or pod and expose it as a new Kubernetes service
run         Run a particular image on the cluster
set         Set specific features on objects

Basic Commands (Intermediate):
explain     Get documentation for a resource
get         Display one or many resources
edit        Edit a resource on the server
```

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Containers Give feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

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	Name	Image	Status	Port(s)	Last started	Actions
<input type="checkbox"/>	cba967a40d24					
<input type="checkbox"/>	pedantic_sinoussi 96c07171e847	mini-spring-boot.jar	Exited (143)	9090:8080	3 days ago	▶ ⋮ 🗑
<input type="checkbox"/>	quizzical_lumiere c2963524138e	mini-spring-boot.jar	Exited (143)	9090:8080	4 days ago	▶ ⋮ 🗑
<input type="checkbox"/>	hopeful_lovelace c4b177b61a8a	openjdk	Exited		6 days ago	▶ ⋮ 🗑
<input type="checkbox"/>	nostalgic_lamport 4befad52329e	hello-world	Exited		6 days ago	▶ ⋮ 🗑
<input type="checkbox"/>	minikube a07127af8281	gcr.io/k8s-minikube/kicbase:v0.0.3	Running	55860:22 55861:2376 55862:32443 55863:5000 55850:8443 Show less	33 minutes ago	▶ ⋮ 🗑
<input type="checkbox"/>	> new_proj	-	Exited		50 minutes ago	▶ ⋮ 🗑

Showing 11 items

RAM 4.92 GB CPU 9.71% Not connected to Hub

v4.18.0