Windows PowerShell

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PS C:\Users\267692> docker run hello-world

Unable to find image 'hello-world:latest' locally

latest: Pulling from library/hello-world

1b930d010525: Pull complete

Digest: sha256:c3b4ada4687bbaa170745b3e4dd8ac3f194ca95b2d0518b417fb47e5879d9b5f

Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.

(amd64)

3. The Docker daemon created a new container from that image which runs the

executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it

to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:

https://hub.docker.com/

For more examples and ideas, visit:

https://docs.docker.com/get-started/

PS C:\Users\267692> docker image ls

REPOSITORY TAG IMAGE ID CREATED SIZE

hello-world latest fce289e99eb9 10 months ago 1.84kB

PS C:\Users\267692> docker container ls

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

PS C:\Users\267692> docker container ls --all

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

ac1825bec291 hello-world "/hello" 2 minutes ago Exited (0) 2 minutes ago recursing\_mirzakhani

PS C:\Users\267692> docker run --interactive --tty ubuntu bash

Unable to find image 'ubuntu:latest' locally

latest: Pulling from library/ubuntu

7ddbc47eeb70: Pull complete

c1bbdc448b72: Pull complete

8c3b70e39044: Pull complete

45d437916d57: Pull complete

Digest: sha256:6e9f67fa63b0323e9a1e587fd71c561ba48a034504fb804fd26fd8800039835d

Status: Downloaded newer image for ubuntu:latest

root@789ecefdc85a:/# hostname

789ecefdc85a

root@789ecefdc85a:/# exit

exit

PS C:\Users\267692> docker container -all

unknown shorthand flag: 'a' in -all

See 'docker container --help'.

Usage: docker container COMMAND

Manage containers

Commands:

attach Attach local standard input, output, and error streams to a running container

commit Create a new image from a container's changes

cp Copy files/folders between a container and the local filesystem

create Create a new container

diff Inspect changes to files or directories on a container's filesystem

exec Run a command in a running container

export Export a container's filesystem as a tar archive

inspect Display detailed information on one or more containers

kill Kill one or more running containers

logs Fetch the logs of a container

ls List containers

pause Pause all processes within one or more containers

port List port mappings or a specific mapping for the container

prune Remove all stopped containers

rename Rename a container

restart Restart one or more containers

rm Remove one or more containers

run Run a command in a new container

start Start one or more stopped containers

stats Display a live stream of container(s) resource usage statistics

stop Stop one or more running containers

top Display the running processes of a container

unpause Unpause all processes within one or more containers

update Update configuration of one or more containers

wait Block until one or more containers stop, then print their exit codes

Run 'docker container COMMAND --help' for more information on a command.

PS C:\Users\267692> docker container ls -all

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

789ecefdc85a ubuntu "bash" 2 minutes ago Exited (0) About a minute ago elegant\_khayyam

PS C:\Users\267692> docker run --detach --publish 80:80 --name webserver nginx

Unable to find image 'nginx:latest' locally

latest: Pulling from library/nginx

8d691f585fa8: Pull complete

5b07f4e08ad0: Pull complete

abc291867bca: Pull complete

Digest: sha256:922c815aa4df050d4df476e92daed4231f466acc8ee90e0e774951b0fd7195a4

Status: Downloaded newer image for nginx:latest

53a33228cb0e87160e91d444bb1372b25889c4dc2d949db46bdd9b86ec460e57

PS C:\Users\267692> docker container -ls

unknown shorthand flag: 'l' in -ls

See 'docker container --help'.

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Manage containers

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Run 'docker container COMMAND --help' for more information on a command.

PS C:\Users\267692> docker container ls

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

53a33228cb0e nginx "nginx -g 'daemon of…" About a minute ago Up About a minute 0.0.0.0:80->80/tcp webserver

PS C:\Users\267692> docker container stop webserver

webserver

PS C:\Users\267692> docker container ls -all

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

53a33228cb0e nginx "nginx -g 'daemon of…" 6 minutes ago Exited (0) 2 minutes ago webserver

PS C:\Users\267692> docker container rm elegant\_khayyam

elegant\_khayyam

PS C:\Users\267692> docker container rm recursing\_mirzakhani

recursing\_mirzakhani

PS C:\Users\267692> docker container rm webserver

webserver

PS C:\Users\267692> kubect1

kubect1 : The term 'kubect1' is not recognized as the name of a cmdlet, function, script file, or operable program.

Check the spelling of the name, or if a path was included, verify that the path is correct and try again.

At line:1 char:1

+ kubect1

+ ~~~~~~~

+ CategoryInfo : ObjectNotFound: (kubect1:String) [], CommandNotFoundException

+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\267692> kubectl

kubectl controls the Kubernetes cluster manager.

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

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 Documentation of resources

get Display one or many resources

edit Edit a resource on the server

delete Delete resources by filenames, stdin, resources and names, or by resources and label selector

Deploy Commands:

rollout Manage the rollout of a resource

scale Set a new size for a Deployment, ReplicaSet, Replication Controller, or Job

autoscale Auto-scale a Deployment, ReplicaSet, or ReplicationController

Cluster Management Commands:

certificate Modify certificate resources.

cluster-info Display cluster info

top Display Resource (CPU/Memory/Storage) usage.

cordon Mark node as unschedulable

uncordon Mark node as schedulable

drain Drain node in preparation for maintenance

taint Update the taints on one or more nodes

Troubleshooting and Debugging Commands:

describe Show details of a specific resource or group of resources

logs Print the logs for a container in a pod

attach Attach to a running container

exec Execute a command in a container

port-forward Forward one or more local ports to a pod

proxy Run a proxy to the Kubernetes API server

cp Copy files and directories to and from containers.

auth Inspect authorization

Advanced Commands:

diff Diff live version against would-be applied version

apply Apply a configuration to a resource by filename or stdin

patch Update field(s) of a resource using strategic merge patch

replace Replace a resource by filename or stdin

wait Experimental: Wait for a specific condition on one or many resources.

convert Convert config files between different API versions

kustomize Build a kustomization target from a directory or a remote url.

Settings Commands:

label Update the labels on a resource

annotate Update the annotations on a resource

completion Output shell completion code for the specified shell (bash or zsh)

Other Commands:

api-resources Print the supported API resources on the server

api-versions Print the supported API versions on the server, in the form of "group/version"

config Modify kubeconfig files

plugin Provides utilities for interacting with plugins.

version Print the client and server version information

Usage:

kubectl [flags] [options]

Use "kubectl <command> --help" for more information about a given command.

Use "kubectl options" for a list of global command-line options (applies to all commands).

PS C:\Users\267692>