

Microservices Quiz App:

Setting Up for Quiz App

Refer Day 17 Quiz App code doc.

Docker Tutorial:

To run the Docker Image:

Docker run image\_name;

To pull the image from docker

Docker pull image\_name

Use dockerhub site to get the images

To view all the stored containers

Docker ps -a;

To view the all images of the docker:

Docker images;

Some of the Common Commands in Docker are as Follows:

A self-sufficient runtime for containers

Common Commands:

run	Create and run a new container from an image
exec	Execute a command in a running container
ps	List containers
build	Build an image from a Dockerfile
pull	Download an image from a registry
push	Upload an image to a registry
images	List images
login	Log in to a registry
logout	Log out from a registry
search	Search Docker Hub for images
version	Show the Docker version information
info	Display system-wide information

Activate  
Go to Set

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info          Display system-wide information

Management Commands:
builder       Manage builds
buildx*       Docker Buildx (Docker Inc., v0.11.2)
checkpoint    Manage checkpoints
compose*      Docker Compose (Docker Inc., v2.23.0)
container     Manage containers
context       Manage contexts
image         Manage images
manifest      Manage Docker image manifests and manifest lists
network       Manage networks
plugin        Manage plugins
scout*        Docker Scout (Docker Inc., v1.0.9)
system        Manage Docker
trust         Manage trust on Docker images
volume        Manage volumes

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Activate Windows  
Go to Settings to activate Windows.

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Swarm Commands:
swarm         Manage Swarm

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
events        Get real time events from the server
export        Export a container's filesystem as a tar archive
history       Show the history of an image
import        Import the contents from a tarball to create a filesystem image
inspect       Return low-level information on Docker objects
kill          Kill one or more running containers
load          Load an image from a tar archive or STDIN
logs          Fetch the logs of a container
pause         Pause all processes within one or more containers
port          List port mappings or a specific mapping for the container
rename        Rename a container

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restart       Restart one or more containers
rm            Remove one or more containers
rmi           Remove one or more images
save          Save one or more images to a tar archive (streamed to STDOUT by default)
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
tag           Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
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

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If we want to delete the Docker image. First we have to delete the container and then to delete the respective image from the docker.

Docker consists of Image id and Container id

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Global Options:
  --config string      Location of client config files (default
                        "/root/.docker")
  -c, --context string  Name of the context to use to connect to the daemon
                        (overrides DOCKER_HOST env var and default context
                        set with "docker context use")
  -D, --debug           Enable debug mode
  -H, --host list       Daemon socket to connect to
  -l, --log-level string Set the logging level ("debug", "info", "warn",
                        "error", "fatal") (default "info")
  --tls                Use TLS; implied by --tlsverify
  --tlscacert string    Trust certs signed only by this CA (default
                        "/root/.docker/ca.pem")
  --tlscert string      Path to TLS certificate file (default
                        "/root/.docker/cert.pem")
  --tlskey string       Path to TLS key file (default "/root/.docker/key.pem")
  --tlsverify           Use TLS and verify the remote
  -v, --version         Print version information and quit

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To delete the container id

Docker rm containerid

To delete the image

Docker rmi imageid

To create a container for image:

Docker create imagename;