

Basic Docker Commands

<code>docker ps</code>	List of started containers
<code>docker ps-a</code>	List of all containers
<code>docker info</code>	Get configuration from docker
<code>docker version</code>	Get docker version
<code>docker build -t<image>:<tag> .</code>	Builds a Docker image from a "Dockerfile" or a container.
<code>docker login<repository></code>	Connect to a remote repository
<code>docker push<image_name>:<tag></code>	Push the image to the remote repository
<code>docker pull<image_name>:<tag></code>	Pull image from remote repository

Container Orders

<code>docker inspect <container></code>	Controls a container
<code>docker stats <container></code>	Displays the container's live data stream
<code>docker logs <container></code>	Fetch container logs
<code>docker run <container></code>	Run the container
<code>docker kill <container></code>	Kill a running container
<code>docker start <container></code>	Start the container
<code>docker stop <container></code>	Stop a running container
<code>docker restart <container></code>	Restart the container
<code>docker rm <container></code>	Delete the container
<code>docker port <container></code>	List container port mapping
<code>docker break <container></code>	Suspend all container processes
<code>docker unpause <container></code>	Unsuspend all container processes

<Container> can be replaced by the **ID** or the **NAME** of the container.

Network Commands

<code>docker network ls</code>	List of networks
<code>docker network inspect <network></code>	Check network information

Network Commands (cont)

<code>docker network create <network></code>	Create a network
<code>docker network rm <network></code>	Delete a network
<code>docker network connect <network> <container></code>	Connects a container to the network
<code>docker network connect --ip <IP> <network> <container></code>	Specifies the container interface IP address
<code>docker network disconnect <network> <container></code>	Disconnects the container from the network

<network> can be replaced by the network **ID** or **NAME**.

Miscellaneous Commands

<code>docker cp <container>:<source_path> <dest_path></code>	Copy from container to host
<code>docker cp <source_path> <container>:<dest_path></code>	Copy from host to container
<code>docker exec -ti <container> <entry_point></code>	Runs the terminal from a live container

Dockerfile



FROM <code><image>:<tag></code>	Specifies the parent image
COPY <code><source_path> <destination_path></code>	Copies regular files and directories.
ADD <code><source_path> <destination_path></code>	Same as COPY, but unpacks tarballs and accepts URLs
CMD <code>[<command> <parameters>]</code>	Specifies the command to execute when initializing the container with this image
ENTRYPOINT <code>[<command> <parameters>]</code>	Similar to CMD but cannot be overwritten, it will always be executed and the container will run as an executable
LABEL <code><key>= <value></code>	Adds metadata to the Docker image
ENV <code><key>= <value></code>	Sets environment variables for the container
EXPOSE <code><port_number>/<protocol> <type></code>	Sets the ports that will be exposed by the container



Dockerfile (cont)

RUN <i><command></i>	Runs commands in the container; usually used to install packages
WORKDIR <i><directory></i>	Specifies the working directory. Once the container is executed, this is the directory we will end up in when we access the container.

Option Keywords

-p, --publish	Port mapping between host and container
--publish-all	Publish all ports
--exposed	Exposes the port of the container
-d, --detach	Runs in the background
-e, --env	Sets environment variables
-v, --volume	Mount files or directories
-i, --interactive	Provides access to a command prompt in a running container
-t, --tty	
executive	Execute a new command in a container
pc	Copy data between container and host or vice versa

These option keywords can be added to most docker commands.

Image Commands

Volume Commands

docker volume ls	List the volumes
docker volume inspect <i><Volume></i>	Control the volume
docker volume create <i><Volume></i>	Create a volume
docker volume rm <i><Volume></i>	Delete a volume
docker volume prune	Delete unused volumes

<Volume> can be replaced by volume **ID** or **NAME**.

Repair & Diagnostics

docker system df	Show disk space used by docker
docker system info	Displays Docker system information
docker diff <i><container></i>	Shows all files that have been modified since startup
docker top <i><container></i>	Show "top" command output of processes running in a container
docker stats	Show output of "top" command from all Docker containers
docker logs <i><container></i>	Show container logs
docker top <i><container></i>	Show the processes in container
docker diff <i><container></i>	Show all modified files in the container

Test Block - v1.00

<code>docker pictures</code>	Lists locally available images
<code>docker run <image></code>	Run the image
<code>docker create <image>:< Tag></code>	Create an image
<code>docker rmi <image></code>	Delete the image
<code>docker save <image></code>	Save images to a tarball
<code>docker search <image></code>	Docker image search
<code>docker sweater <image></code>	Get a docker image
<code>docker build -t <image>:< tag> <run directory> -f <dockerfile></code>	Build an image from a "dockerfile"
<code>plum image docker</code>	Remove all unused docker images



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