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Running Containers and Troubleshooting

Running Containers

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Instructions to run the Docker containers.

Warning

The following content has been deprecated and is maintained for reference only.

Running Containers

Note: At the end of this topic, you will be provided with a terminal to an environment that has all the prerequisites (such and Kubernetes) up and running. You can practice your commands in this tutorial without any need to setup your own en

Containers are running instances of an Image. To run containers, follow these steps:

1. Create a container from the base image for the latest version of the Ubuntu that is available.

Important

- If you do not have an Ubuntu base image installed locally, extract the latest one for your local repository.
- You must start the container in interactive mode attached to the current terminal and running the bash shell.
- After running, make sure you shut down the container by running 'exit'.

	udo docker pull u			
Trying to pull re	pository docker.id	/library/ubuntu		
latest: Pulling f	rom docker.io/lib	ary/ubuntu		
ae79f2514705: Pul	1 complete			
5ad56d5fc149: Pul	1 complete			
170e558760e8: Pul	1 complete			
395460e233f5: Pul	1 complete			
6f01dc62e444: Pul	1 complete			
Digest: sha256:50	6e2d5852de1d7c90d	38c5332bd3cc33b9cbd26	f6ca653875899c505c8	2687
[user@tcox1 ~]\$ s	udo docker images			
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
docker.io/httpd	latest	c24f66af34b4	5 days ago	177.3 MB
docker.io/ubuntu	latest	747cb2d60bbe	7 days ago	122 MB
[user@tcox1 ~1\$ s	udo docker run -it	ubuntu:latest /bin/b	bash	
	· /# owit			
root@f1d4d12c2c70	./# EXIL			

2. Run the appropriate Docker command to obtain the name of the previously run container. Issue the appropriate command to restart the container for which you obtained the name. Do NOT create a new container. Restart the container that was just used.

CONTAINER ID	sudo docker ps – a IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
E1d4d12c2c70	ubuntu: latest	"/bin/bash"	About a minute ago	Exited(0)	About a minute ago	jovial kilby
[user@tcox1 ~]\$	sudo docker restart	jovial kilby				
jovial kilby						
[user@tcox1 ~]\$	sudo docker ps					
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
E1d4d12c2c70	ubuntu: latest	"/bin/bash"	2 minutes ago	Upto 7 seco	nds	jovial kilby

3. Stop the container, and then remove the container from the system by using the following command.

jovial kilby						
[user@tcox1 ~]\$ s	udo docker ps					
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
[user@tcox1 ~]\$ s	udo docker ps -a					
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
f1d4d12c2c70	ubuntu:latest	"/bin/bash"	3 minutes ago	Exited (0) 10 seconds ago		jovial kilby
[user@tcox1 ~]\$ s	udo docker rm jovia	l kilby				
jovial_kilby						
[user@tcox1 ~]\$ s	sudo docker ps -a					
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES

4. Create (not run) a container called "my_container" by using the parameters that will allow the container to run interactively, and get the terminal attached to the local console running the bash shell. Ensure the container is not running.

	sudo docker create - d1bac782342dd734b2ed		iner" ubuntu:latest /	bin/bash		
Canp328/ncnat603	d1bac/8234200/34b2ed	14aC0abb282090d1585	aa259841e			
[user@tcox1 ~]\$	sudo docker ps -a					
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
c90b35870c09	ubuntu:latest	"/bin/bash"	4 seconds ago	Created		my-container

5. Start the container, and ensure the container is running. Run the following command to attach your session to the running container to ensure you are logged on to the shell.

STATUS PC	DRTS NAMES
Up 2 minutes	my-container

Lifecycle

The following commands illustrate the Docker Lifecycle:

- docker create creates a container but does not start the container.
- docker rename allows the container to be renamed.
- docker run creates and starts a container in a single operation.
- docker rm deletes a container.
- docker update updates a container's resource limits.

Usually, when you run a container without options, it will start and stop immediately. If you want the container to keep running, you can use the command, docker run -td container_ID. This command uses the option-t to allocate a pseudo-TTY session and option-d to detach the container automatically (you can run container in background and print the container ID).

To have a transient container, use the command docker run -rm. This command will remove the container after it stops.

To map a directory on the host to a docker container, use the command docker run $\mbox{-}v$ \$H0STDIR:\$D0CKERDIR.

To remove the volumes associated with the container, the deletion of the container must include the option-vswitch like in docker rm - v.

There is also a logging driver available for individual containers in docker 1.10. To run docker with a custom log driver (that is syslog), use the command docker run --log-driver=syslog.

docker run --name yourname docker_image is a useful command because when you specify -name inside the run command, you can start and stop a container by calling it with the name that you specified when you created it.

Starting and Stopping a Container

Commands to start and stop a container:

- docker start starts a container so it is running.
- docker stop stops a running container.
- docker restart stops and starts a container.
- docker pause pauses a running container, "freezing" it in place.
- docker unpause unpauses a running container.
- docker wait blocks until running container stops.
- docker kill sends a SIGKILL signal to a running container.
- docker attach connects to a running container.

To integrate a container with a host process manager, start the daemon with the commands - r=false and then use docker start -a.

You can practice the above-mentioned commands using the following widget: