Docker-Compose CLI Cheat Sheet

(for version 1.12.0)

docker-compose

Define and run multi-container applications with Docker docker-compose [-f=<arg>...] [options] [COMMAND] [ARGS...] docker-compose -h|--help

-f. --file FILE Specify an alternate compose file (default: docker-compose.vml) Specify an alternate project name -p, --project-name NAME (default: directory name) --verbose Show more output -v, --version Print version and exit -H. --host HOST Daemon socket to connect to Use TLS; implied by --tlsverify --tls --tlscacert CA PATH Trust certs signed only by this CA --tlscert CLIENT CERT PATH Path to TLS certificate file --tlskey TLS KEY PATH Path to TLS key file --tlsverify Use TLS and verify the remote --skip-hostname-check Don't check the daemon's hostname against the name in the client certificate (for

Builds, (re)creates, starts, and attaches to containers for a service

example if your docker is an IP address)

Unless they are already running, this command also starts any linked services.

up [options] [SERVICE...]

Detached mode: Run containers in the background, print new container names. Incompatible with --abort-on-containerexit --no-color Produce monochrome output. --no-deps Don't start linked services. --force-recreate Recreate containers even if their configuration and image haven't changed. Incompatible with --no-recreate If containers already exist, don't --no-recreate recreate them. Incompatible with --force-recreate. --no-build Don't build an image, even if it's Build images before starting containers. --ahort-on-container-exit Stops all containers if any container was stopped. Incompatible with -d -t, --timeout TIMEOUT Use this timeout in seconds for container

shutdown when attached or when containers are already running. (default: 10) --remove-orphans Remove containers for services not defined in the Compose file

The docker-compose up command aggregates the output of each container. When the command exits, all containers are stopped. Running docker-compose up -d starts the containers in the background and leaves them running.

If there are existing containers for a service, and the service's configuration or image was changed after the container's creation, dockercompose up picks up the changes by stopping and recreating the containers (preserving mounted volumes). To prevent Compose from picking up changes, use the --no-recreate flag

If you want to force Compose to stop and recreate all containers, use the --force-recreate flag.

stop

Stops running containers without removing them. They can be started again with docker-compose start

stop [options] [SERVICE...]

-t, --timeout TIMEOUT

Specify a shutdown timeout in seconds (default: 10)

kill Forces running containers to stop by sending a SIGKILL signal

kill [options] [SERVICE...] -s SIGNAL SIGNAL to send to the container. Default signal is SIGKILL

Optionally the signal can be passed, for example:

\$ docker-compose kill -s SIGINT

Starts existing containers for a service start [SERVICE...]

pause

Pauses running containers of a service pause [SERVICE...] They can be unpaused with docker-compose unpause.

Unpauses paused containers of a service unpause [SERVICE...]

build

Define and run multi-container applications with Docker build [options] [SERVICE...]

--force-rm Always remove intermediate containers. --no-cache Do not use cache when building the image. Always attempt to pull a newer version of --null the image

Services are built once and then tagged as project_service, e.g., composetest db

If you change a service's Dockerfile or the contents of its build directory, run docker-compose build to rebuild it.

config

Validate and view the compose file

config [options]

Only validate the configuration, don't -q, --quiet print anything. --services Print the service names, one per line.

create

Creates containers for a service

create [options] [SERVICE...]

--force-recreate Recreate containers even if their configuration and image haven't changed. Incompatible with --no-recreate --no-recreate If containers already exist, don't recreate them. Incompatible with --force-recreate. --no-huild Don't build an image, even if it's missing. --build Build images before creating containers.

down

Stops containers and removes containers, networks, volumes, and images created by up

down [options]

Remove images. Type must be one of: --rmi type 'all': Remove all images used by any service. 'local': Remove only images that don't have a custom tag set by the `image field. -v. --volumes Remove named volumes declared in the 'volumes' section of the Compose file and anonymous volumes attached to containers. --remove-orphans Remove containers for services not

defined in theCompose file By default, the only things removed are:

Containers for services defined in the Compose file Networks defined in the networks section of the Compose file The default network, if one is used Networks and volumes defined as external are never removed.

Stream container events for every container in the project

events [options] [SERVICE...]

--json Output events as a stream of json objects With the --json flag, a json object will be printed one per line with the format:

```
""service"": ""web"",
""event"": ""create""
""container"": ""213cf75fc39a"",
""image"": ""alpine:edge"",
""time"": ""2015-11-20T18:01:03.615550"",
```

Displays log output from services

logs [options] [SERVICE...]

Produce monochrome output --no-color -f. --follow Follow log output -t, --timestamps Show timestamps --tail Number of lines to show from the end of the logs for each container

port

Prints the public port for a port binding.

port [options] SERVICE PRIVATE PORT

--protocol=proto top or udp [default: top] --index=index index of the container if there are multiple instances of a service [default:

Lists containers

ps [options] [SERVICE...]

Only display IDs Forces running containers to stop by sending a SIGKILL signal. Optionally the signal can be passed, for example:

\$ docker-compose kill -s SIGINT

Pulls service images pull [options] [SERVICE...]

--ignore-pull-failures Pull what it can and ignores images with

null failures

restart

Restarts services

restart [options] [SERVICE...]

Specify a shutdown timeout in seconds. -t. --timeout TIMEOUT (default: 10)

Removes stopped service containers

rm [options] [SERVICE...]

-f, --force Don't ask to confirm removal

Remove any anonymous volumes attached to -v

containers

Also remove one-off containers created by -a. --all

docker-compose run

By default, anonymous volumes attached to containers will not be removed. You can override this with -v. To list all volumes, use docker volume 1s.

Any data which is not in a volume will be lost.

run

--rm

run [options] [-e KEY=VAL...] SERVICE [COMMAND] [ARGS...]

Detached mode: Run container in the background, print new container name. --name NAME Assign a name to the container --entrypoint CMD Override the entrypoint of the image. -e KEY=VAL Set an environment variable (can be used multiple times)

-u, --user=""" Run as specified username or uid --no-deps Don't start linked services.

Remove container after run. Ignored in

detached mode. -p, --publish=[] Publish a container's port(s) to the host --service-ports Run command with the service's ports

enabled and mapped to the host. Disable pseudo-tty allocation. By default

'docker-compose run' allocates a TTY. -w, --workdir=""" Working directory inside the container

Runs a one-time command against a service. For example, the following command starts the web service and runs bash as its command.

\$ docker-compose run web bash

scale

Sets the number of containers to run for a service

scale [SERVICE=NUM...]

-s SIGNAT SIGNAL to send to the container. Default

signal is SIGKILL

Numbers are specified as arguments in the form service=num. For example:

\$ docker-compose scale web=2 worker=3



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